BEFORE THE HON'BLE GUJARAT ELECTRICITY REGULATORY COMMISSION AT GANDHINAGAR

Petition No. _____ of 2022

IN THE MATTER OF:

Petition under Section 86 of the Electricity Act, 2003 read with

(i) Article 10 of SLPP-I Power Purchase Agreement dated 15.04.1997

(ii) Article 13 of SLPP-II Power Purchase Agreement dated 13.08.2013

executed between Gujarat Industries Power Company Limited and Gujarat Urja Vikas Nigam Limited seeking approval for pass through of the Additional Capital Expenditure to comply with new environmental norms for Thermal Power Plants as per Environment Protection (Amendment) Rules, 2015 and subsequent Amendment notifications by Ministry of Environment, Forests & Climate Change (MoEF & CC), Govt. of India, which is a **Change in Law** event

AND

IN THE MATTER OF:

GUJARAT INDUSTRIES POWER COMPANY LIMITED

Through its Authorized Representative

Smt. Kiran R. Mishra,
GM (Comm., Fin. & Legal),
Having its Registered Office at:

P.O. Ranoli, Vadodara- 391350, Gujarat
Phone: +91-265-2232768
E-Mail : krmishra@gipcl.com

....**PETITIONER**

VERSUS

GUJARAT URJA VIKAS NIGAM LIMITED

Through its General Manager (RE & IPP),

Having its Registered Office at:

Sardar Patel Vidyut Bhavan
Race Course, Vadodara 390007, Gujarat
Phone: (0265)2339148
E-Mail : gmipp.guvnl@gebmail.com

NOTARY ILA C. PAREKH Area : Vadodara City Regd. No. 18039 Expiry Date: 31/01/2025 GOVT. OF INDIA

....**RESPONDENT**


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Place: Vadodara

Date: 28.12.2022

For **Gujarat Industries Power Company Ltd.**

Petitioner

BEFORE THE HON'BLE GUJARAT ELECTRICITY REGULATORY COMMISSION AT GANDHINAGAR

Petition No. _____ of 2022

IN THE MATTER OF:

Petition under Section 86 of the Electricity Act, 2003 read with

(iii) Article 10 of SLPP-I Power Purchase Agreement dated 15.04.1997

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executed between Gujarat Industries Power Company Limited and Gujarat Urja Vikas Nigam Limited seeking approval for pass through of the Additional Capital Expenditure to comply with new environmental norms for Thermal Power Plants as per Environment Protection (Amendment) Rules, 2015 and subsequent Amendment notifications by Ministry of Environment, Forests & Climate Change (MoEF & CC), Govt. of India, which is a **Change in Law** event

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GUJARAT INDUSTRIES POWER COMPANY LIMITED

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....**RESPONDENT**


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THE PETITIONER MOST RESPECTFULLY SUBMITS AS UNDER:

1. That the present Petition is being filed by Gujarat Industries Power Company Limited (hereinafter referred to as "**GIPCL**" or "**Petitioner**"). Petitioner is a generating company within the meaning of Section 2 (28) of the Electricity Act, 2003. The Petitioner has established the 500 MW Surat Lignite Power Plant (SLPP) in two phases, namely, 250 MW Surat Lignite Power Project Phase-I comprising 125 MW Units 1 & 2 and subsequently enhanced by another 250 MW Surat Lignite Power Plant Phase-II comprising of 125 MW Units-3 & 4. Phase-I and Phase-II are collectively referred to as **SLPP or SLPP Stations**. SLPP is located in Mangrol Taluka of Surat District. Both Phases had executed separate 30-year two-part PPA with erstwhile Gujarat Electricity Board (predecessor of Gujarat Urja Vikas Nigam Limited, hereinafter referred to as "**GUVNL**" or "**Respondent**") as per following details:

   i. **PPA dated 15.04.1997 for 2 x 125 MW SLPP Phase-I and subsequent amendments**

   ii. **PPA dated 13.08.2013 for 2 x 125 MW SLPP Phase-II**

   SLPP Phase-I & II PPAs specify pass through of costs based on approved parameters and therefore fall under **Section 62** of the Electricity Act, 2003.

   This petition is filed under Section 86 of the Electricity Act, 2003 read with GERC (Multi Year Tariff Regulations),2006, GERC (Conduct of Business) Regulations, 2004 and

   i. **Article-10 of SLPP-I Power Purchase Agreement (PPA) dated 15.04.1997 and amendments thereof**

   ii. **Article- 7 & 13 of SLPP-II Power Purchase Agreement dated 13.08.2013**

   to seek this Honourable Commission's approval for pass through of the additional capital expenditure necessary to upgrade/ refurbish the Electro static Precipitators (ESPs) and Limestone Storage Facility of SLPP Stations to comply with Revised Emission Norms as per the Environmental Protection (Amendment) Rules, 2015 , Amendment Rules, 2021 & Second Amendment Rules, 2022 which is a "Change in Law" event as per the referred PPAs and notification issued by Ministry of Power, Govt. of India.

   Respondent, GUVNL has given in-principle approval for GIPCL's proposal for SLPP Units to comply with the Revised Environment Protection


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(Amendment) Rules, 2015 under the "Change in Law" provision of the PPA vide a letter GUNVL-COM-GM(IPP) -1018 dtd. 17.09.2022 and also instructed GIPCL to seek this Hon'ble Commission's approval for pass through of the costs as per PPA terms.

2. PARTIES TO THE PETITION

Petitioner, Gujarat Industries Power Company Ltd. (GIPCL) was incorporated in the year 1985 as a Public Limited Company under the auspices of the Government of Gujarat. The Company is registered with the Registrar of Companies, Gujarat under the Companies Act, 1956 with its Registered and Corporate Office at P.O. Ranoli, Vadodara- 391 350, Gujarat, India. GIPCL is promoted by leading Gujarat State Enterprises like Gujarat Urja Vikas Nigam Ltd. (GUVNL), Gujarat Fertilizers and Chemicals Ltd. (GSFC), Gujarat Alkalies and Chemicals Ltd. (GACL) and is a listed entity on NSE and BSE.

GIPCL functions under the umbrella of Energy & Petrochemicals Department, Govt. of Gujarat. The Company is in the business of Electrical Power Generation with a current installed capacity of 1184.4MW. The Company has a diversified power generation portfolio comprising Thermal (Lignite and Gas) and Renewable (Wind and Solar) Power Plants and Captive Lignite as well as Limestone Mines in the State of Gujarat.

GIPCL has 310 MW Gas Based Generating Capacity at Vadodara and 500 MW Lignite based Generating Capacity at Mangrol, Surat. GIPCL also operates the captive Vastan and Valia Lignite and Limestone Mines.

GIPCL's installed Solar Capacity is 262 MW with assets spread across Gujarat State. The Company has commissioned Solar PV Projects at various locations in Gujarat from year 2012 onwards. GIPCL has an installed Wind Capacity of 112.4 MW spread across various locations in the Saurashtra and Kutch regions of Gujarat.

Currently, GIPCL is developing a 2375 MW Solar/Wind/Hybrid Renewable Energy Park at Khavda, Kutch. GIPCL is planning around 1200 MW Solar / Hybrid Energy Addition in the coming years.

Respondent, Gujarat Urja Vikas Nigam Limited (GUVNL), is a Company incorporated under the provisions of Companies Act, 1956, having its registered office at Sardar Patel Vidyut Bhavan, Race Course, Vadodara 390007, Gujarat, India. The Respondent is engaged in bulk purchase and bulk supply of electricity and is a licensee for the said activities under the provisions of Electricity Act,2003.


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The Respondent is the Sole Procurer of the entire capacity of SLPP under the referred PPAs.

3. GIPCL's Surat Lignite Power Plant – Brief Highlights

A. 250 MW SLPP Phase-I (2 X 125 MW Units -1 & 2)

GIPCL commissioned the greenfield project of 2x125 MW Surat Lignite Power Plant (SLPP) Phase-I, at Nani Naroli Village, Mangrol Taluka, Surat, Gujarat in February,2000. This IPP comprises of Unit-1 and 2, each rated 125 MW. The PPA was originally inked in the year 1997 but subsequently underwent downward revision in the years 2003 and 2005 as per the recommendations of the State Govt. appointed committee. GIPCL had to sacrifice the return from this Station for the benefit of State's consumers.

The revised PPA was reviewed and adjudicated by the Commission vide an Order dtd. 22.12.2005 in Petition No. 90/2002. **Order of the Commission in Petition No. 90/2002 is annexed as "Annexure - A ".** Page-27

Details of Unit Wise commissioning and Commercial Operation Date (COD) is as under:

Unit No.	Unit Capacity (MW)	Date of Commissioning	Commercial Operation Date (COD)
Unit-1	125	16/01/2000	15/02/2000
Unit-2	125	06/11/1999	15/02/2000
Phase-I	**250**	**---**	**15/02/2000**

B. 250 MW SLPP Phase-II (2 X 125 MW Units -3 & 4)

2 x 125 MW SLPP Phase- II entered commercial operation in April 2010. A 30-year PPA with GUVNL was executed on 01.10.2009. GERC directed the Procurer and the Seller to modify the above PPA vide their Order dtd. 19.04.2011 in petition no. 1047/2010, Order dtd. 21.10.2011 in Review Petition No. 1109/2011 and Order dtd. 21.11.2011 in Petition No. 1086 of 2011. Final PPA was executed on 13.08.2013 based on GERC directive. **Order of the Commission in petition nos. 1047/2010, 1109/2011, 1086/2011 are annexed as "Annexure - B ".** Page-36

Details of Unit Wise commissioning and Commercial Operation Date (COD) is given below.

Unit No.	Unit Capacity (MW)	Date of Commissioning	Commercial Operation Date (COD)
Unit-3	125	29/11/2009	19/04/2010
Unit-4	125	25/03/2010	28/04/2010
Phase-II	**250**	**---**	**28/04/2010**



4. Highlights, Performance & Salient Features of SLPP PPAs

GIPCL SLPP – I was the first power utility in the country to go in for large sized Circulating Fluidized Bed Combustion (CFBC) technology Boiler, made in India by BHEL based on technology sourced from LLB(Lurgi, Lenties & Babcock),Germany. CFBC technology is considered to be clean and environment friendly but a lot of technical issues cropped up in the Boilers from time to time due to the new technology and lignite quality issues. GIPCL along with M/s BHEL(OEM) is working to resolve them.

The fuel requirement of SLPP Stations is mainly met by the Captive Vastan and Valia Lignite Mines or GMDC Lignite. Some amount of Imported Coal (approx. 10-15%) is blended in recent years to offset lignite shortage due to technical issues in the mines. The Limestone injection of about 10% as additive is done in CFBC Boilers to reduce SO2 emissions is as per approved PPA norm. The required Limestone is captively mined.

SLPP Phase- I & II are consistently performing well and better than other lignite power plants in the State and at the National level. The Power Plants have been conferred with numerous National Level Awards for Outstanding Performance, Energy Efficiency and Environmental Excellence. These Power Plants supply power with low variable cost and rank among the top in the "Merit Order of Dispatch".

Salient of SLPP Power Purchase Agreements with GUVNL

PARTICULARS	SLPP Phase-I (Unit 1 & 2)	SLPP Phase-II (Unit 3 & 4)
Capacity	2 X 125 MW	2 X 125 MW
	Unit -1 and 2	Unit- 3 and 4
COD	15.02.2000	28.04.2010
PPA Date	15.04.1997 & amendments in the year 2003 & 2005	13.08.2013
PPA Duration	30 years from COD	30 years from COD
Main Fuel	Lignite	Lignite
Aux. Consumption	10%	12.5% for first 03 years & 11.5% thereafter
Normative Annual Plant availability	75%	75 % for first three years & 80% thereafter
Station Heat Rate(SHR)	2400 K.Cal/KWh	2461 K.Cal/KWh
Project Cost	Power Plant Rs. 1210.56 Cr.	Power Plant Rs. 1504.72 Cr.


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Debt: Equity Ratio	74.5 : 24.5	70 : 30
Variable Charges	Lignite@ SHR with Moisture correction limited to max. 10%	Lignite@ SHR with Moisture correction limited to max. 10%
	HFO-3.5 ml/kwh	HFO-3 ml/kwh
	Lime-150 gm/kwh	Lime-150 gm/kwh
Fixed Charges	O & M Expenses - 6.094% (Linked to _30%_WPI- 70% CPI)	O & M Expenses. 20 Lacs/MW + escalation 5.072% p.a.
	Return on Equity -13%	Return on Equity – 14%
	Interest on Working Capital – Lower of GIPCL/GUVNL Rate	Interest on Working Capital- 11.75%
Incentive	0.25 Rs./Kwh for Scheduled Generation above 75%	0.25 Rs./Kwh for Scheduled Generation above 80%

5. PPA Provision regarding "Change in Law" for SLPP

A. 2 x 125 MW SLPP Phase-I

Article 10

Amendments in Laws, Taxes and Circumstances

10.1 *If there is any change in Taxes or Change in Laws applicable to either Party or Changes in circumstances affecting either Party, which necessitates any amendment to this Agreement, each Party shall give the other prompt written notice and such written information as the other Party may reasonably require in order to assess the nature of change in question and its effect on the parties, along with the amendments proposed to be made in the Agreement.*

Definition of Law

For the purpose of this Agreement, "law" means any act, role, regulation, notification, order, policy, administrative guidelines, ruling or instruction having the force of Law enacted or issued by any competent legislature, Government Instrumentality or statutory authority in India.

Definition of Change in Law

For the purpose of this Agreement, "Change in Law" means

i. An enactment or issue of any new Law,

ii. Any amendment, alternation, modification or repeal of any existing Law or

iii. *Any authoritative interpretation of any existing law issued by a competent court, tribunal, Government Instrumentality or legislature in India which is contrary to the existing accepted interpretation thereof, in each case* ***coming into effect after the date of this Agreement, provision for which has not been made elsewhere in the Agreement.***

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Additional Facilities- Modifications:

Where any change in law coming into force after the date of Entry into Commercial Service of the Unit(s) requires the construction of any additional facilities or modifications of any existing facility of the Project, GIPCL may incur such expenditure thereon as may be reasonably required to comply with such change in law and such expenditure shall be added to the Capital Cost subject to approval by the Authority if required by applicable law.

GIPCL shall give prior notice to the Board of the extent and cost of modifications required to comply with the legal obligations, and satisfy the Board about the reasonableness thereof, the Board shall convey its consent or otherwise to the proposed modification within a period of 30 days. To the extent any such expenditure shall be funded with debt, the increase in the interest on debt and depreciation attributable thereto shall be reflected as an increase in the tariff payable by the Board and to the extent of any such expenditure shall have been funded with Equity, the increase in the Return on Equity, Incentive and depreciation shall be reflected as increase in the Tariff payable by the Board.

Relevant Extract is annexed as **Annexure -C** page 101

B. <u>2 x 125 MW SLPP Phase-II</u>

<u>Article 13</u>

Change in Law

13.1.1 "Change in Law" means the occurrence of any of the following after the date, which is seven(7) days prior to the signing of this Agreement:

i. the enactment, bringing into effect, adoption, promulgation, amendment, modification or repeal, of any statue, decree, ordinance or other law, regulation, notice, circular, code, rule or direction by any Governmental Instrumentality or a change in its interpretation by a Competent Court of law, tribunal, government or statutory authority or any of the above regulations, taxes, duties charges, levies etc. or

ii. the imposition by any Governmental Instrumentality of any material condition in connection with the issuance, renewal, modification, revocation or non-renewal (other than for cause) of any Consent after the date of this Agreement.

That in either of the above cases results in any change with respect to any tax or surcharge or cess levied or similar charges by the Competent Government on the generation or sale of electricity.;

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But shall not include(i) any change in any withholding tax on income or dividends distributed to the shareholders of the Seller, or (ii) change in respect of UI Charges or frequency intervals by an Appropriate Commission.

13.2 Tariff Adjustment Payment for Change in Law

13.2.1 *If a Change in Law results in the Seller's revenue or costs directly attributable to the Project being decreased or increased by one percent (1%), on cumulative basis, of the estimated revenue from the Electricity for the Contract Year(calculated in that Contract Year and the energy corresponding to Normative Availability of the Installed Capacity) for which such adjustment becomes applicable or more, during Operation Period, the Tariff Payment to the Seller shall be proportionately increased or decreased.*

Article 7

OPERATION AND MAINTENANCE

7.10.1 *Seller shall be entitled to carry out any modification, at no cost to Procurer, to the Power Station if and only if : (a) such modification does not contravene Prudent Utility Practices;. (b) such modification will not result in the Power Station being unable to operate within the Functional Specifications as set out in Schedule 2; (c) such modification will not have an adverse effect upon the contracted levels of Availability; an*

7.10.2 *Notwithstanding the above, the Capital Cost shall be increased to include additional capitalization, as may be admitted by the Appropriate Commission, to account for the cost of modifications, if any, in accordance with Article 13 and shall include: (i) Deferred liabilities; (ii) Works deferred for execution; (iii) Procurement of initial capital spares in the original scope of work, subject to ceiling specified by GERC; (iv) Liabilities to meet award of arbitration or for compliance of the order or decree of a court; and (v) On account of Change in Law.. [collectively "(Additional Capitalisation)]*

Subject to the provisions of Article 7.10.4 hereunder, the Capital Cost of the following nature actually incurred after the Commercial Operations Date, as may be admitted by the Appropriate Commission shall also be considered as Additional Capitalization: (i) Deferred liabilities relating to works/services within the original scope of work; (ii) Liabilities to meet award of arbitration or for compliance of the order or decree of a court; (iii) On account of change in law; (iv) Any additional works/services which have become necessary for efficient and successful operation of the Unit or the Power Station, but not included in the

original Capital Cost; and (v) Deferred works relating to ash pond or ash handling system in the original scope of work.

Any expenditure admitted by the Appropriate Commission for determination of tariff on account of new works not in the original scope of work shall be serviced in the debt-equity ratio approved by the Appropriate Commission.

Relevant extract of PPA is annexed as **Annexure D** **page** 108.

6. Change in Law Event: Environment (Protection) Amendment Rules, 2015

Ministry of Environment, Forest and Climate Change (MoEF & CC) notified the Environment (Protection) Amendment Rules, 2015 on 07.12.2015 amending the Environment (Protection) Rules, 1986. Salient Features of the Amended Rules is reproduced here:

Sr. No.	Industry	Parameter	Standards
1	2	3	4
"5A	Thermal Power Plant (Water Consumption limit)	Water Consumption	i. All plants with Once Through Cooling (OTC) shall install Cooling Tower (CT) and achieve specific water consumption upto maximum of 3.5 m3/MWH within a period of two years from the date of publication of this notification ii. All existing CT-based plants reduce specific water consumption upto maximum of 3.5 m3/MWH within a period of two years from the date of publication of this notification. iii. New plants to be installed after 1st January , 2017 shall have to meet specific water consumption upto maximum of 2.5 m3/Mwh and achieve zero waste water discharge

Sr. No.	Industry	Parameter	Standards
1	2	3	4
"25	Thermal Power Plant	TPPs (units) installed before 31st December, 2003	
		Particulate Matter	100 mg/Nm3
		Sulphur Dioxide (SO2)	600 mg/Nm3 (Units smaller than 500 MW capacity units)

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			200 mg/Nm3 (for units having capacity 0f 500 MW and above)
		Oxides of Nitrogen (NOx)	600 mg/Nm3
		Mercury (Hg)	0.03 mg/Nm3 (for units having capacity of 500 MW and above)

Sr. No.	Industry	Parameter	Standards
1	2	3	4
"25	Thermal Power Plant	TPPs (units) installed after 1st January, 2003, upto 31st December 2016	
		Particulate Matter	50 mg/Nm3
		Sulphur Dioxide (SO2)	600 mg/Nm3 (Units smaller than 500 MW capacity units) 200 mg/Nm3 (for units having capacity 0f 500 MW and above)
		Oxides of Nitrogen(NOx)	450 mg/Nm3(**amended vide notification dtd. 19.10.2020)**
		Mercury(Hg)	0.03 mg/Nm3 (for units having capacity of 500 MW and above)

A comparison of the norms under the Environment (Protection) Rules 1986 and that as per the 2015 Amendment Rules as applicable for SLPP Phase-I & II is as under:

Sr. No.	**Parameter**	**Norms under the Environment (Protection) Rules, 1986**	**Norms under the Environment (Protection) Amendment Rules, 2015 applicable for SLPP-I**	**Norms under the Environment (Protection) Amendment Rules, 2015 and subsequent amendments applicable for SLPP-II**
1	Water Consumption	None	3.5 m3/MWH	3.5 m3/MWH
2	Sulphur Dioxide (SO2)	None	600 mg/Nm3	600 mg/Nm3
3	Oxides of Nitrogen (NOx)	None	600 mg/Nm3	450 mg/Nm3
4	Suspended Particulate Matter (PM)	50-150	100 mg/ Nm3	50 mg/ Nm3
5	Mercury (Hg)	None	Not applicable	Not applicable

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The timeline for compliance as per the 2015 notification was December, 2017 which was extended to December, 2022 by GOI. Later, MoEF & CC notified the ***Environment (Protection) Amendment Rules, 2021 on 05.07.2021***. As per this amendment, Thermal Power Plants were categorized into three categories- A, B & C based on their location and distance from critically polluted cities or populated areas. SLPP Stations fall under the "C" Category as per the latest Minutes dtd. 23.06.2022 of the ***Task Force for Categorization of Power Plants*** as per Notification dtd. 31.03.2021. Copy is annexed as **Annexure- E page** 116. .As per this notification the deadline for compliance of emission norms by SLPP Stations is extended till 31.12.2024. MoEF &CC has also issued ***Environment (Protection) Second Amendment Rules, 2022 on 05.09.2022*** and the timeline for compliance of PM and NOx emission norms for SLPP Stations is 31.12.2024 and SO2 emission by 31.12.2026. MoEF & CC Notifications dtd. 07.12.2015,19.10.2020, 31.03.2021 & 05.09.2022 are annexed as **Annexure F page** 119.

Timeline for Compliance as per Environment (Protection) Second Amendment Rules,2022

Sr. No.	Category	Location/ Area	Timeline for Compliance (Non-retiring units)		Last date for retirement of units for exemption from compliance	
			Parameters other than SO2 emissions	SO2 emissions	Parameters other than SO2 emissions	SO2 emissions
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Category A	Within 10 km radius of NCR or cities having million plus population	Up to 31st December, 2022	Up to 31st December, 2024	Up to 31st December, 2022	Up to 31st December, 2027
2	Category B	Within 10 km radius of Critically Polluted Areas or Non-attainment cities	Up to 31st December, 2023	Up to 31st December, 2025	Up to 31st December, 2025	
3	**Category C**	**Other than those included in Category A and B**	**Up to 31st December, 2024**	**Up to 31st December, 2026**	Up to 31st December, 2025	


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Extract of Proposed Penalty for Non-compliance of the Revised Environment Rules as per MOEFCC Notification dtd. 05.09.2022 is as under:

Non-Compliant operation beyond Timeline	Environmental Compensation (Rs. per unit electricity generated)
0-180 days	0.20
181-365days	0.30
366 days and beyond	**0.40**

7. **MoP directive regarding Change in Law Event**

Ministry of Power, Govt. of India vide a communication 23/22/2018- R & R dtd. 30.05.2018 directed CERC as under:

5.1 The MoEF CC Notification requiring compliance of Environment (Protection) Amendment Rules, 2015 dtd. 07th December, 2015 is of the nature of Change in Law event…

5.2 The additional cost implication due to installation or up-gradation of various emission control systems and its operational cost to meet the new environment norms, after award of bid or signing of PPA as the case may be, shall be considered for being made pass through in tariff by Commission in accordance with law.

5.3 ***The respective TPPs may approach the Appropriate Commission for approval of additional capital expenditure and compensation for additional cost on account of this Change in Law event in respect of the Power Purchase Agreement entered under Section 62 or Section 63 of the Electricity Act, 2003.***

Notification is annexed as **Annexure- G page** 128.

8. **Action Required for SLPP Stations**

GIPCL has adopted the environment friendly CFBC technology for the Boilers at SLPP. The Revised emission norms for SO2, NOx, PM etc. as per the Revised Emission (Protection) Amendment Rules, 2015 can be complied with upgrade/ refurbishment of Electrostatic Precipitator (ESP) and augmentation of Limestone Storage Capacity at SLPP. Parameter wise action required at SLPP is summarized here.

A. SO2 Emissions

SO_2 emission is effectively controlled by addition of Limestone and remains well within the limit of 600 mg/Nm^3. However, minor upgrade is required to comply with the revised limit at all times.

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Activities undertaken to comply with revised SO2 limit

1. Enhancement of Limestone Storage Shed
2. Augmentation of Limestone Handling System

New Limestone Storage Capacity of about 55,000 MT has been created incurring expenditure of Rs. 6.92 Cr.

Unit wise Annual Average SO2 emission of SLPP Units is tabulated below.

Sr. No.	Period	Unit -I	Unit -II	Unit -III	Unit -IV
		Avg. SO2 (mg/ Nm3)			
1	April 2022 to Dec.2022	177	162	202	139
2	April 2021 to March 2022	113	165	137	140
3	April 2020 to March 2021	115	91	108	108
4	April 2019 to March 2020	64	73	128	125
5	April 2018 to March 2019	82	82	157	154
6	April 2017 to March 2018	132	131	188	179

B. **NOx Emissions**

NOx emission remains very low and well below limit of 600 mg/Nm^3 as per new norms due to low combustion temperature of around 850 deg. C and staged combustion in CFBC Boiler.

Unit wise Annual Average NOx emission of SLPP Units is tabulated below:

Sr. No.	Period	Unit -I	Unit -II	Unit -III	Unit -IV
		Avg. NOx (mg/ Nm3)			
1	April 2022 to Dec.2022	32	31	34	25
2	April 2021 to March 2022	40	27	31	27
3	April 2020 to March 2021	28	13	22	16
4	April 2019 to March 2020	24	18	37	28
5	April 2018 to March 2019	43	28	41	39
6	April 2017 to March 2018	26	25	43	38

C. **Suspended Particulate Matter**

Particulate Emission is controlled by the Electrostatic Precipitator (ESP) provided in the Boilers.

Brief Details of the ESP installed in SLPP Units is as under:

Sr. No.	125 MW Unit	No. of Active ESP Fields	No. of Dummy ESP Fields	Total No. of ESP Fields
1	Unit-1 (Phase- I)	12	2	14
2	Unit-2 (Phase- I)	12	2	14
3	Unit-3 (Phase- II)	14	2	16
4	Unit-4 (Phase-II)	14	2	16
5	**Total**	**52**	**8**	**60**

Unit wise Annual Average PM emission of SLPP Units is tabulated below:

Sr. No.	Period	Unit -I	Unit -II	Unit -III	Unit - IV
		Avg.PM (mg/ Nm3)			
1	April 2022 to Dec.2022	119	58	40	37
2	April 2021 to March 2022	94	74	40	66
3	April 2020 to March 2021	58	78	45	35
4	April 2019 to March 2020	84	83	54	77
5	April 2018 to March 2019	96	51	81	54
6	April 2017 to March 2018	49	64	66	138

Activities undertaken to comply with revised PM limit

I. **Retrofitting of the 52 nos. Active fields,** total revamp of ESP Casing and ducts. ESP in SLPP Units work in a hostile and highly corrosive environment due to presence of sulphur and chlorine in lignite. Therefore, periodical refurbishment is necessary to ensure compliance of PM limits at all times.

II. **Revival of total 8 nos. Dummy ESP Fields**

This involves installation of complete internals like Collecting plates, emitting electrodes, Rectiformers, ERM, CRM, Insulators, Shaft, Collecting & Emitting frames, Rectifier panels, Heaters, RAPCON controller, Verticals for LT switchgear, etc.

GIPCL initiated discussion with the Original Equipment Manufacturer (OEM) M/s BHEL, refurbishment plan of ESPs for reduced PM Emissions as per the revised norms. Minutes of Meeting (MoM) dtd. 30.11.2022 and 06.08.2022 as well as Catalogue of various ESP Components is annexed as **Annexure-H page** 130.

Technical Details of Electro Static Precipitator (ESP) of SLPP Phase-I and II : *Original Arrangement and Refurbishment Plan*

Description	ORIGINAL ESP ARRANGEMENT / CONFIGURATION - PHASE-1	ORIGINAL ESP ARRANGEMENT/ CONFIGURATION - PHASE-2
BHEL`S Specification	2xFAA-7x45(45) -126-135-2	2xFAA-7x45(45) -132-135-2
Nos. of Passes per unit	2	2
Nos. of Fields per pass	7 Including 1 dummy field (last) (i.e. 6 Working Field)	8 Including 1 dummy field (First) (i.e. 7 Working Field)
Total No. of Fields per unit	14 in each unit including 2 dummy Fields (Last)	16 in each unit including 2 dummy Fields (first)
Pitch between Two Collecting Electrode	300 mm for All fields	400 mm for all fields
No of rows for CE	43 Rows. per Field	34 rows per field

CE per row	6 Nos. per Row	6 Nos. per Row
No of rows for EE	42 Rows. per Field	33 rows per field
EE per row	54 Nos. per Row	54 Nos. per Row
Transformer KV/mA	Ms Hind Make 70KV / 1400mA	Ms Hind Make 95 KV /1400 mA
Controller/ Panel	Ms BHEL Make Model: BAPCON, 1st Gen.	Ms BHEL Make Model: BAPCON-Plus, 2nd Gen.
Description	**REFURBISHMENT PLAN FOR ESP ARRANGEMENT / CONFIGURATION - PHASE-1**	**REFURBISHMENT PLAN FOR ESP ARRANGEMENT/ CONFIGURATION - PHASE-2**
BHEL`S Specification	2xFAA-7x45(45) -126-135-2	2xFAA-7x45(45) - 132-135-2
Nos. of Passes per unit	2	2
Nos. of Fields per pass	7 Working Fields	8 Working Fields
Total No. of Fields per unit	14 in each Unit	16 in each Unit
Pitch between Two Collecting Electrode	400 mm for First Two Fields in Each Pass	400 mm for all fields
	300 mm for remaining fields in Each Pass	
No of rows for CE	31 Rows. per Field	34 rows per field
CE per row	6 Nos. per Row	6 Nos. per Row
No of rows for EE	30 Rows. per Field	33 rows per field
EE per row	54 Nos. per Row	54 Nos. per Row
Transformer KV/mA	Ms KRAFT Make 95 KV /1400 mA Three Phase for 1st Three Field	Ms KRAFT Make 95 KV /1400 mA Three Phase for 1st Three Field
	Ms Hind Make 70KV / 1400mA for remaining Fields	Ms Hind Make 95 KV /1400 mA for remaining Fields
Controller/ Panel	Ms KRAFT Make Model : MK-IV, 4th Gen.	Ms KRAFT Make Model: MK-IV, 4th Gen.

D. Mercury (Hg)

Mercury (Hg) emission norms as per the Revised Environment Rules is only applicable for Unit Size 500 MW and above. Since the SLPP Units 1-4 are rated 125 MW, no Mercury (Hg) emission limit is specified in the Environment (Protection) Amendment Rules, 2015.

E. Water Consumption

The specific water consumption norm is also required to be met i.e. maximum upto 3.5 m3/MWh with zero waste water discharge. SLPP is having Cooling Towers (Closed Loop) for all four units and owing to several water conservation measures, Plant Specific Water Consumption is well within limit of 3.5 M^3/MWh. Further, zero waste water discharge system is already implemented in the Plant. Hence, SLPP-I & II comply with the water consumption norms as per the Revised Rules, 2015.

F. Conclusion

The captively mined Lignite has high Moisture, Sulphur and Chloride content leading to higher corrosion in Boiler area including ESP. Corrosion analysis study has been done by CSIR-CECRI, Tamilnadu.

To comply with new Environmental norms, refurbishment of existing ESP fields' internals & dummy fields revival along with 3 phase transformer and restoration/ strengthening of ESP related structure/ casing being done in phased manner since F.Y. 2016-17. At present, SPM emission from all four Units remain below/ near to the new emission limit as per Revised Environmental Norms except some incidences of exceedance. However, based on condition, ESP field/ structure/ casing repair/ replacement would be required in future after one-time replacement based on rate of corrosion. Compared to other Coal/ Lignite based Power Plants, the additional expenditure required is minimal and no special outage is required.

9. Directives and follow up by Central, State Government and Regulatory Commission:

I. Central Pollution Control Board (CPCB) vide a letter B-33014/07/2017-18/IPCL-II/TPP/ 15874 dtd. 11.12.2017 issued directions under Section 5 of the Environment (Protection) Act, 1986 **to upgrade the ESPs of Unit-3 & 4 by September, 2020 and December, 2020** respectively. The said letter is annexed as **Annexure- I page no.** 143.

II. EPD, GoG vide letter dtd. GSE-14-2016-111-K dtd. 19.06.2017 sought details of the action being taken by GIPCL SLPP Units for compliance of new environmental norms. GIPCL replied vide a letter SLPP/GOG/2017/2862 dtd. 01.07.2017 with details and action taken. Copy is annexed as **Annexure- J page** 148.

III. CEA vide letter CEA/Th./TPE & CC/ENV/50/2015/63-150 dtd. 13.01.2016 sought details of requirements at SLPP to comply with revised environmental norms. The details, action plan and estimated expenditure were conveyed vide a letter SLPP/CEA/2015/ dtd. 31.03.2016. Copy is annexed as **Annexure- K page** 152.

IV. In the 22nd GERC State Co-ordination Forum meeting held on 26.09.2019, honourable Commission sought details from the Thermal Power Plants regarding the status of compliance of new environmental norms. GIPCL apprised the commission regarding the requirements at SLPP as well as status of compliance. Subsequently, details were furnished vide a letter dtd. 22.05. 2020.Copy is annexed as **Annexure L page** 159.


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PAR.
Area : Vadodara.
Regd. No. 56.
Expiry Date:
30/01/2026
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10. GIPCL Board Approval & Directive for Compliance of Revised Environment Rules:

I. In a Board Meeting held in April, 2018, GIPCL's Board was apprised about the Revised Environment (Protection) Amendment Rules ,2015 notified by MoEF & CC, GOI, its impact on SLPP Phase-I & II, action contemplated along with detailed plan and estimated expenditure.

II. Board vide Resolution No. 4463 approved the management proposal to upgrade the ESPs of SLPP Units 1-4 at an estimated expenditure of **Rs. 86.34 Cr.** Copy of the said Board Resolution is annexed as **Annexure- M page** 163.

GUVNL(Procurer) In-principle approval

I. GIPCL apprised the Procurer/ Respondent GUVNL about the Revised Environment Protection (Amendment) Rules ,2015 and its applicability for SLPP Units along with the proposed action plan and estimated expenditure right in the year 2018 itself. Thereafter, GIPCL regularly updated GUVNL about progress on this front and expenditure incurred. GIPCL sought GUVNL's in-principle approval under the "Change in Law" provision of the PPAs for SLPP Phase-I and Phase-II and Ministry of Power, Govt. of India communication 23/22/2018- R & R dtd. 30.05.2018 specifying Revised Environmental Rules, 2015 as a "Change in Law" Event.

GIPCL wrote to GUVNL vide letters dtd. 19.02.2018,13.11.2018, 22.05.2020(Copy of Letter to GERC), 06.08.2020, 17.11.2020 and 13.05.2022. Copies are attached as **Annexure- N page** 166.

II. GUVNL gave its in-principle approval for the upgradation required in SLPP Phase-I and II under the "Change in Law" provision of the PPA vide a letter GUNVL-COM-GM(IPP) -1018 dtd. 17.09.2022. Copy of the letter is annexed as **Annexure - O page** 189.

Further, GUVNL instructed GIPCL to approach the Honourable Commission and obtain regulatory approval for the additional capital expenditure since increase in Capital Cost would ultimately impact the tariff for the end consumers.

NOTARY ILA C. PAREKH

11. **Current Status of Achievement and Expenditure at SLPP is as under:**

A. Year Wise Status of Action Taken for refurbishment of ESPs of SLPP Phase-I & II

Table- I

Sr. No.	Unit	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	Executed till 20.12.2022	Total ESP Fields upgradation/retrofitting planned tentatively
1	Phase -I	0	1	2	3	7	0	4	17	28 (incl. 4 dummy fields)
2	Phase -II	6	4	3	5	4	5	5	32	32 (incl. 4 dummy fields)
5	Grand Total	6	5	5	8	11	5	9	49	60

As on date, 45 out of 52 nos. ESP fields have been refurbished and 4 out of 8 nos. Dummy ESP fields revived.

B. SLPP Phase wise Expenditure – Estimated and Actual (as on 20.12.2022)

GIPCL has undertaken ESP Upgradation/ Retrofit to meet revised PM emission norm and also augmentation of Limestone Storage and feeding system to meet the SO2 emission norm after carrying out due diligence and all the items are procured as per Company's purchase procedure.

GIPCL shall submit Auditor certified cost breakup with copies of Purchase /Work Order to GUVNL to back up the claim, once the activity is completed.

Details of the estimated expenditure for compliance of revised emission norms as per Environment (Protection) Amendment Rules, 2015 and amount expended as on 20.12. 2022 is shown below:

SLPP Station	Expenditure Incurred as on 20.12.2022 (Rs. in Cr.)	Proposed Expenditure by FY 2024-25 (Rs. in Cr.)	Total Estimated Expenditure (Rs. in Cr.)
Phase- I	13.31	24.79	38.10
Phase- II	30.90	17.34	48.24
Total	44.21	42.13	86.34

Out of the total estimated expenditure of Rs. 86.34 Cr., Purchase Orders amounting to approx. Rs. 62.34 Cr. have been issued and expenditure of Rs.44.21 Cr. incurred.



C. PM Emission Status Units 1-4

Table – II

Sr. No.	Period	Unit -I	Unit -II	Unit -III	Unit -IV
		Avg.PM (mg/ Nm3)			
1	April 2022 to Dec.2022	119*	58	40	37
2	April 2021 to March 2022	9	74	40	66
3	April 2020 to March 2021	58	78	45	35
4	April 2019 to March 2020	84	83	54	77
5	April 2018 to March 2019	96	51	81	54
6	April 2017 to March 2018	49	64	66	138

**Unit-1 was under stabilization after Major Overhaul in July- September 2022. Later on, after correction and repair activity in October & November-22, SPM reduced & came in the range of 70-85 mg/NM³ in December 2022.*

12. Admittance of Costs associated with compliance of Revised Environment (Protection) Amendment Rules,2015 under Change in Law provision

Ministry of Power has acknowledged Environment (Protection) Amendment Rules, 2015 as a Change in Law event vide notification dtd. 30.05.2018. CERC has also allowed pass through under Change in Law to various Central Sector Power Plants.

CERC has dealt with a number of petitions (Petition No. 501/MP/2019 Petition No. 502/MP/2019 Petition No. 66/MP/2020 Petition No. 267/MP/2020 Petition No. 414/MP/2020 Petition No. 496/MP/2020 Petition No. 499/MP/2020 Petition No. 501/MP/2020 Petition No. 510/MP/2020 Petition No. 545/MP/2020 and Petition No. 553/MP/2020) and favourably considered admittance of additional expenditure required by Thermal Power Plants to comply with Revised Environment Norm under the "Change in Law" provision of PPA. Copy of CERC Order is annexed as **Annexure- P page** 190.

In this commission's various proceedings for true up of tariff for the State Generating Stations as per MYT 2016, the hon'ble commission has repeatedly urged GSECL, Torrent Power etc. to make plant wise assessment of the ESP Retrofitting works necessary to meet the Revised PM limits, submit cost requirement, achievable benefit and proposed recovery of the additional expenditure. The Hon'ble Commission after due diligence allowed pass through of the costs necessary for upgradation of Emission Control System to comply with revised emission norm for certain GSECL Units in the Tariff Order for FY 2021-22 and FY 2022-23. Relevant Extract is annexed as **Annexure Q page** 194.

Recently, in petition no. 2127 /2022 involving GMDC Akrimota Lignite Power Plant, the hon'ble commission has dealt this aspect and allowed additional capitalization of costs required for upgrade of Emission Control System as per

"Change in Law" provision of the PPA. Relevant Daily Order is annexed as **Annexure- R page** 203.

13. Proposed Capex and Impact on Tariff (FY 2025-26 onwards)

Sr. No.	Item	SLPP Phase-1 (250 MW) Rs. In Cr.	SLPP Phase-2 (250 MW) Rs. In Cr.
1	**Project Cost already Capitalized**	**1,210.57**	**1,504.72**
2	Expenditure on ESP Upgrade	38.10	41.32
3	Expenditure on augmentation of Limestone Handling & Storage	0	6.92
4	Miscellaneous Expenditure	0	0
5	Interest During Construction	9.30	10.09
6	**Proposed Additional Capitalization on account of "Change in Law" (2+3+4+5)**	**47.40**	**58.33**
	Debt-Equity ratio	75.50 : 24.50	70 : 30
	Debt	35.79	40.83
	Equity	11.62	17.50
7	Additional Capex Proposed (Rs. in Cr. / MW)	0.19	0.23
8	**Increase in Fixed Charge as per PPA @ Normative Availability (p/Kwh) (From FY 2025-26 onwards)**	**0.08**	**0.04**

14. Cost Benefit Analysis

I. SLPP Phase-I PPA is valid till 2030 while SLPP-II PPA is valid till 2040. The SLPP Stations have remaining PPA life of 8 & 18 years respectively and therefore need to comply with the revised norms to fulfil the PPA obligation.

II. GIPCL is confident that the SLPP Units shall comply with Revised PM limits before the specified deadline of 31.12.2024. After partial ESP upgrade itself, the PM emissions in all Units have reduced and remain close to the revised PM limit most of the time.

III. The expenditure for compliance of Revised Environment Norms in case of SLPP Stations is only Rs.0.21 Cr./ MW while the expenditure required in other Thermal Power Plants with conventional boilers is around Rs.0.44 Cr. / MW as per CEA norm (as quoted in CERC proceedings). FGD installation also involves substantial recurring O & M expenditure, increased Aux. Consumption and long shutdown. Hence the compliance costs for SLPP Stations is on the lower side.

NOTARY ILA C. PAREKH

IV. The increase in the fixed cost of 250 MW SLPP Phase-I is expected to be Rs. 0.08 /kWh from FY 2025-26 onwards.

V. The increase in the fixed cost of 250 MW SLPP Phase-II is expected to be Rs. 0.04 /kWh from FY 2025-26 onwards.

VI. The Environmental Compensation Mechanism proposed in the MoEF & CC, GOI Notification dtd. 05.09.2022 for non-compliant units, 1 year post the deadline (31.12.2024) is 40 p/Kwh. **The penalty is substantial compared to the compliance cost.**

Environmental Compensation as per Environment (Protection) Second Amendment Rules,2022

Non-Compliant operation beyond Timeline	Environmental Compensation (Rs. per unit electricity generated)
0-180 days	0.20
181-365days	0.30
366 days and beyond	**0.40**

VII. GIPCL has carried out the upgradation/ retrofit of ESPs in a planned and phased manner with the advice of OEM M/s BHEL without seeking recourse to any special shutdown/ increased annual outage/overhaul duration, even though it is allowed as per CEA guidelines and thereby avoided additional burden for the State's consumers.

VIII. SLPP-I & II consistently feature in the top of "Merit Order of Dispatch". The SLPP Stations rank among high performing Lignite Power Plants in the state of Gujarat and the National Level.

IX. Major part of fuel for SLPP Stations is secured through captive mines operated departmentally by GIPCL. Fuel cost is therefore under control and protected from the vagaries of wide variation. State's consumers can derive benefit of cheaper power.

Prayer

GIPCL requests the Honorable Commission to kindly grant the following prayer.

I. Initially, an In-principle approval for capitalization of the proposed expenditure in SLPP Phase-I and SLPP Phase-II to timely comply with the Revised Environment (Protection) Amendment Rules,2015 and subsequent amendments under the "Change in Law" provision in the PPA of SLPP Stations.


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II. Allow reimbursement of actual expenses incurred by GIPCL for compliance of Revised Emission (Protection) Amendment Rules,2015 and subsequent amendments upon completion of the refurbishment activity on submission of requisite proof in the form of documents, invoices by GIPCL.

III. Allow capitalization of this expenditure from FY 2025-26 in the Project Cost of SLPP Stations including Interest During Construction (IDC) for the phased expenditure as per the approved Debt: Equity ratio of the respective Station. Hon'ble Commission may kindly issue suitable directions in this regard to the Respondent, GUVNL.

IV. Allow additional Auxiliary Power Consumption (APC), additional O & M expenses of the SLPP Stations to meet the revised emission norms and bring the Station's APC and O & M Charges on par with the norm as per the extant MYT Regulation notified by the Commission.

V. Pass such other orders as deemed fit and necessary in the facts and circumstances of the present case.

Declaration

The subject matter of the petition has not been raised by the Petitioner before any other competent forum, and that no other competent forum is currently seized of the matter or has passed any orders in relation thereto.

For Gujarat Industries Power Company Ltd.

Petitioner

Place: Vadodara
Date: 28.12.2022

NOTARY
ILA C. PAREKH
GOVT. OF INDIA



BEFORE THE HON'BLE GUJARAT ELECTRICITY REGULATORY COMMISSION
AT GANDHINAGAR

Filing No. _____ of 2022
Case No. _____of 2022

IN THE MATTER OF:

Petition under Section 86 of the Electricity Act, 2003 read with

(i) Article 10 of SLPP-I Power Purchase Agreement dated 15.04.1997
(ii) Article 13 of SLPP-II Power Purchase Agreement dated 13.08.2013

executed between Gujarat Industries Power Company Limited and Gujarat Urja Vikas Nigam Limited seeking approval for pass through of the additional capital expenditure to comply with the revised emission norms as per Environment Protection(Amendment) Rules, 2015 notified by MoEF & CC, Govt. of India, which is a Change in Law event

AND

IN THE MATTER OF:

GUJARAT INDUSTRIES POWER COMPANY LIMITED

.... PETITIONER

VERSUS

GUJARAT URJA VIKAS NIGAM LIMITED

.... RESPONDENT

NOTARY
ILA C. PAREKH


GOVT. OF IND

NOTARY ILA C. PAREKH Area : Vadodara City Regd. No. 18038/2020 GOVT. OF INDIA

Reg. No. 7182
Date: 28/12/22

AFFIDAVIT

I, Kiran R. Mishra, W/o. Shri Rajesh Mishra, aged about 52 years resident of Vadodara hereby solemnly affirm and state as under:

1. I am the General Manager (Legal) of the Petitioner and I am fully conversant with the facts of the case and able to depose to the present Affidavit.
2. I have gone through the contents of the accompanying Petition and I say that the facts stated therein are based on the records of the Petitioner Company and believed by the deponent to be true.
3. The annexures to the petition are true copies of their originals.



DEPONENT

VERIFICATION:

I, the Deponent above named do hereby verify that the contents of my above affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.

Verified at Vadodara on this 28th day of December 2022



DEPONENT

Gujarat Industries Power Co. Ltd. P. O. Ranoli Dist: VADODARA Pin. 391 350

Solamnly Affirmed/Declared
Sworn Before me by..Kiran..Mishra

ILA C. PAREKH
NOTARY 28/12/22


Government of India
મિશ્રા કિરણ
Mishra Kiran
જન્મ તારીખ / DOB: 01/04/1970
સ્ત્રી / FEMALE
Issue Date: 20/01/2014
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मेरा आधार, मेरी पहचान


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BEFORE THE GUJARAT ELECTRICITY REGULATORY COMMISSION AT AHMEDABAD

Petition No. 90 / 2002

In the matter of:
Review of the existing arrangement with a view to bring down the cost of power purchase.

Petitioner : Gujarat Electricity Board,
Sardar Patel Vidyut Bhawan,
Race Course,
Vadodara 390 007.

Represented by : Shri S.B.Khayalia, GM (T&PP),
Smt S.V.Vachhrajani, COA(IPP) &
Shri V.H.Jadav J.E. (IPP)

Versus

Opponents :

(1) Essar Power Limited,
14th Floor, Essar House,
Keshav Rao Khadye Marg,
Mahalaxmi, Mumbai 400 034.

(2) Gujarat Industries power Company Limited
P.o. Petrofils, 391 347, Dist. Baroda, Gujarat.

(3) Gujarat Paguthan Energy Corporation Ltd.,
Chanakya, Off. Ashram Road,
Ahmedabad 380 009.

(4) Gujarat State Energy Generation Ltd.,
3rd Floor, Block No.15, Udyog Bhavan,
Sector 11, Gandhinagar.

(5) Gujarat State Electricity Corpn. Ltd.,
Vidyut Bhavan, Race Course, Vadodara

(6) Reliance Power Limited,
4-A, Santinagar Industrial Estate,
Vacola, Santa Cruz,
Mumbai.

(7) Gujarat Mineral Development Corporation,
Khanij Bhavan,
132 Ft. Ring Road,
Ahmedabad.

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Represented by : Learned Advocate Shri K.G.Raghvan and Avinash Modi for respondent no.3.

CORAM

Shri G. Subbarao, Chairman
Shri K. P. Gupta, Member (F)
Shri Man Mohan, Member (T)

JUDGMENT
22.12.2005

[1] The petitioner had filed the present petition on 2nd September,2002 for the following reliefs:

(a) To set the parameters for determination of tariff for negotiations with the opponents 1-7 and

(b) In the event of failure of negotiations between the petitioner and Opponent No.1-7, treat the present petition as petition for review under Section 22 (1)(c) of the Electricity Regulatory Commissions Act, 1998 and review all the PPAs and determine the tariff at which power shall be procued by the petitioner from the opponents under the respective PPAs.

1.1 According to the petitioner, the Commission has passed a Tariff Order dated 10.10.2000 in Case No.19/1999 and directed the petitioner as under:

"The Commission is of the view that by passage of time, it is likely a qualitative change in the environment for the participation of private sector in the power projects and Gujarat Electricity Board must make requisite efforts in consultation with and in cooperation of the IPP's to review the existing arrangement with a view to bring down the cost of power purchase and it is accordingly directed" etc.

1.2 Following the above direction, the petitioner sought through this petition certain further directions and interventions in relation to consultations with

Respondents no.1 to 7 to review and reduce the power tariff in respect of the power purchase agreements entered into by the petitioner with them.

[2] The brief facts leading to the filing of the present petition are as under:-

2.1 The Electricity Laws Amendment Act, 1991 was enacted by the Parliament to amend certain provisions of the Electricity (Supply) Act, 1948 and to provide for and enable participation of private sector in generation of electricity in India. In pursuance of this Act, the Government of India framed a scheme with an objective to encourage Private sector participation in the field of generation of electricity in India. This scheme was notified vide resolution no.237 dated 22.10.1991.

2.2 A significant part of the above mentioned scheme was the notification of a two part tariff formulation, which clearly sets out the principles for tariff computation from private sector generating companies. The philosophy underlying the two part tariff formulation was that of cost reimbursement plus a permissible return on equity investment. The Government of India in exercise of the powers conferred upon it U/s.43 (A) of the Electricity (Supply) Act, 1948, issued a Notification being notification No.S.O.251 (E) dated 30.3.1992 (amended from time to time) laying down principal factors in accordance with which the tariff for the sale of electricity by generating companies to the Boards can be determined.

2.3 By a Notification dated 12.1.1995, the Government of India made the following amendment to the Notification dated 30.3.1992:-

i) "For removal of doubt it is clarified that the norms laid down by the authority are the ceiling norms only and this shall not preclude the Boards and the Generating Companies from agreeing to accept improved norms"

ii) The petitioner entered into various PPAs with respondents no.1 to 7, the independent power producers (hereinafter referred to as IPPs) for purchase by the petitioner of power from these respondents.

iii) These Power Purchase Agreements entered into with Respondent Nos.1 to 7 provide for inter-alia the parameters and formula for determination of tariff for sale of electricity by the IPPS to the petitioner. In these PPAs, the principal parameters for the determination of tariff are in two parts consisting of fixed costs and variable cost.

2.4 The fixed cost components in the determination of tariff are as under: -

1. Interest on Loan
2. Return on Equity
3. O & M and Insurance
4. Depreciation
5. Tax on Income.
6. Interest on Working Capital

2.5 The Variable Cost Components in the determination of tariff are as under:-

1. Station Heat Rate
2. Gross Calorific Value of Fuel
3. Auxiliary Consumption

The petitioner submitted that according to Section 22 of the ERC Act, the Commission has been vested with wide powers to inter-alia regulate power purchase including the price at which the power is purchased by the petitioner from the Generating Companies.

[3] The contentions raised in the petition are as under:-

The Petitioner submits that the economic parameters and the cost components (particularly the fixed cost components, variable cost component and incentive) existing at the time of execution of the Power Purchase Agreements with respondent nos.1 to 7 have undergone substantial and material changes, necessitating revision and proportionate reduction of power tariff.

Among the important changes mentioned in the petition about such economic parameter and cost components are as under:

There is general reduction in the interest rate and consequently interest costs have to be brought down. Similarly, O&M charges which are fixed in some PPAs at 2.5% of capital cost have to be brought down to 2% and insurance charges at actual not exceeding 1% of capital cost as contained in the GOI Notification dt.17.1.1994. GEB has also proposed the depreciation component be replaced by repayment during the period of the original debt period with the balance portion of depreciation being payable equally over the balance life of the project. GEB has also proposed that Income tax payable on the incentive should not be allowed as a pass through. It was also submitted that the base PLF of 68.5% beyond which incentive is payable be enhanced to 80%. It was also submitted that incentive payable at present @ 0.575% and 0.4% to be revised at a flat rate of 0.3%.

[4] The Commission issued notice to the petitioner vide letter No.GERC/Legal/1800 dt.12th September,2002 for the hearing of the said petition and for the purpose of admission.

[5] The Commission heard the petition on 27.9.2002 and passed Oral order, stating that: "we have heard learned Advocate Mr.S.N.Shelat, who appears along with the learned Additional Advocate General Mr.Kamal Trivedi, learned Sr.Counsel Mr.S.Soparkar, learned Counsels Dr.Lilu K.Bhaya, Mr.T.S.Murthy, Mr. Tejas Barot and mr.J.Mehta on behalf of the GEB. We direct the office to register the petition as per the Regulations and to issue notices to the other side, returnable on 19th October,2002."

[6] The Commission issued notices to the respondent Nos.1 - 7 vide letters No.GERC-LEGAL/860 to 866 dt.3rd October,2002 and directed them to file their rejoinders if any, in relation to the petition and to appear before the Commission in person or by any authorized representatives.

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[7] The Petitioner submitted that they have forwarded copy of the petition and other documents to all respondents vide their letter No.COM:OSD(Comm)720 to 726 dated 7.10.2002.

[8] In response to petition, out of 7 respondents only respondent no.3, viz., Guajrat Paguthan Energy Corporation Ltd. (GPEC) filed affidavit in reply on 17.5.2003 . As will be apparent from the further narration in this order, an agreement has been reached with regard to certain changes in PPA. As such, no detailed recitation of the contentions contained in the affidavit is necessary.

[9] Subsequently, the GEB filed written submissions on 22.1.2004 contending inter alia that GEB had made sincere efforts through a consultative approach with the respondents and that the petitioner has been able to reach to agreements with all respondents except those at Sr.Nos.6 & 7 in respect of modifications of terms and conditions of the respective PPAs, leading to reduction in costs. This could be achieved as inter alia the Government of Gujarat requested for and sought full cooperation of the IPPs to jointly make efforts that can be beneficial to both the IPPs and the petitioner and to the consumers of electricity in Gujarat. The Government of Gujarat vide Order No.PPA/1199/251/PP Cell/316 dated 29th April 2002 had set up a Negotiating Team to assist the petitioner in negotiating and reviewing the existing tariff structures with the respondent Nos. 1 to 7 (IPPs) under the respective PPAs. All the respondents except those at Sr.No.6 & 7 agreed to modify the PPAs signed by them with GEB. So far as gas price is concerned, at the behest of the State Government, reduction in cost of gas (from M/s.GSPCL and Cairn) was reduced by way of reduction in the base price and also removal of surcharge on sales tax. This will effect annual savings of the order of Rs.53.05 crores. Directive No.3 of the Commission under Order dated 10.10.2000 in Case No.19/1999 is already complied. The Petitioner requested the Commission to authenticate the adoption and implementation of the modifications agreed and concluded with different IPPs (as brought out in Appendix-3 of his submission).

[10] The Petitioner submitted that all respondents have been informed by petitioner vide his letter dated 9.2.2004 that in pursuance of the conclusion of agreement on the modifications of the terms of the PPA for achieving reduction of fixed costs, the petitioner (GEB) has filed detailed submissions on 22.1.2004 to the Commission. Petitioner further submitted that copy of the submission dt.22.01.04 was forwarded to respondents.

[11] Respondent no.3 (Gujarat Paguthan Energy Corporation Pvt.Ltd.) submitted that he has, in response to letter dt.9.2.2004 of petitioner, sent a letter to Member(Finance), GEB, Vadodara, contending inter alia, that on perusal of the documents supplied by the GEB, the following errors have been noted.

"Any tax, duty, cess by wheatever name called payable by GTEC (now GPEC) relating to power station as per the prevailing laws of the Central or State government or any other statutory bodies, shall be borne by GEB"

However, the above mentioned clause has erroneously been stated by GEB in the Application filed before the GERC as follows:

"Any tax, duty, cess by whatever name called payable by GTEC (now GPEC) relating to power station as per the prevailing laws of the Central or State government or any other statutory bodies shall be borne by GPEC".

GPEC has only agreed to bear the water cess charges and not Any Tax, duty, cess.

The respondent therefore requested the petitioner to modify the submission which was made before the Commission, so as to reflect the correct understanding and agreement arrived at between the parties.

[12] The Petitioner has filed further submission on 13.8.2004, contending inter alia that the petitioner has come across some errors in the filing shown at Sr.No.2 (submission of.22.1.2004). Changes proposed by the GPEC are covered in the later submission of 13.8.2004.

[13] Notices were issued to petitioner and respondent vide letter Nos.GERC/Legal/2005-/54-61 dt.30.11.2005 that the matter would be heard

finally on 16.12.2005. However, as the same had to be postponed to 22.12.2005. The Petitioner and the respondents were informed accordingly (vide letter dt.GERC/Legal/2266-2273 dt.12.12.2005).

[14] The petition was heard finally on 22.12.2005. Shri S.B.Khayalia, GM (T&PP), Smt.Vachhrajani, COA (IPP) and Shri V.H.Jadav, JE (IPP) were present on behalf of GUVNL, an unbundled entity of erstwhile GEB. Learned Advocates S/Shri K.G.Raghvan and Avinash Mody were present on behalf of respondent no.3 Gujarat Paguthan Energy Corporation Ltd.

[15] Shri S.B.Khayalia submitted that petitioner has filed submissions about revised terms of PPAs on 22nd January,2004 after re-negotiations with IPPs. There were some errors for which permission was sought for modification vide GEB 's submission dt.13.8.2004. The Petitioner has thus complied with the order of the Commission (dt.10.10.2000) in case No.19/1999.

[16] Learned Advocate Shri K.G.Raghvan on behalf of respondent no.3 Gujarat Paguthan Energy Corporation Limited submitted that there was some mistake in submission dt.22.1.2004 of the petitioner, which was brought to GEB 's notice vide letter dated 9.3.2004 and that the said letter should be taken into account.

[17] In view of submissions and affidavits filed by the petitioner on 22.1.2004 and 13.8.2004, we are of the opinion that the purpose for which the petition was filed has already been met. At present the PPAs have been renegotiated and modified. The directions given in the tariff order dt.10.10.2000 in case No.19/1999 are substantially complied. Further in its order dated 10.10.2000 the Commission had also observed in para 6.3.5 as under :

> *"6.3.5. The Power Purchase Agreement (PPA) already approved by GEB and the Government of Gujarat prior to the date of issue of this order may not be reopened by the Commission. Similarly the PPA 's for private power projects finalized through competitive bidding route, including the expansion of these projects also may not be reopened".*

Hence, no specific order is required in this matter.

[18] We order accordingly.

[19] With this order, this petition stands as disposed of.

(G. SUBBARAO) CHAIRMAN	(K.P. GUPTA) MEMBER (F)	(MAN MOHAN) MEMBER (T)

Place: Ahmedabad
Date: 22.12.2005

Br-2

GUJARAT ELECTRICITY REGULATORY COMMISSION

AHMEDABAD

Petition No. 1086 of 2011

In the matter of:
Approval of Capital Cost for Surat Lignite Power Project (SLPP) - Phase II 2x125 MW Lignite based (CFBC) Expansion Project.

Petitioner	:	**Gujarat Industries Power Company Ltd. (GIPCL)**
Represented by	:	Shri P.M.Trivedi, Shri N.K.Singh, and Smt. K.R.Mishra
		V/s
Respondent	:	**Gujarat Urja Vikas Nigam Ltd. (GUVNL)**
Represented by	:	Smt. Sailaja Vachhrajani, Shri Rakesh Soni and Shri S.S.Mistry

CORAM:
Dr. P.K.Mishra, Chairman
Shri Pravinbhai Patel, Member (Tech)
Dr. M.K. Iyer, Member (Fin.)

JUDGEMENT

1. The present petition has been filed by the petitioner, seeking approval of capital cost for Surat Lignite Power Project (SLPP) - Phase II, 2x125 MW lignite based Circulating Fluidised Bed Combustion (CFBC) expansion project.

2. The facts mentioned in the petition are briefly as under:

2.1 A Power Purchase Agreement (PPA) was executed between the petitioner and the respondent on 1st October, 2009 for procurement of power generated from

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250 MW Lignite based Power Station, set up by the petitioner at Mangrol, Surat. The said PPA was approved by the Commission vide its order dated 19th April, 2011 in petition No. 1047 of 2010. The Commission directed the petitioner (GIPCL) to get approval for capital cost of Surat Lignite Power Project (SLPP) - Phase II 2x125 MW lignite based CFBC expansion project. In compliance of the directives of the Commission, the petitioner has filed this petition alongwith (i) Extracts of minutes of 23rd meeting of the Board of Directors held on 29.09.2006 (ii) cost details of GIPCL SLPP Phase II, 2×125 MW expansion project (iii) tendering process (iv) Letters of Intent issued to the M/s BHEL, New Delhi and contract executed with them. (v) Term of Loan sanction letters of Bank of Baroda, State Bank of India, Central Bank , State Bank of Saurashtra, Union Bank, Canara Bank, IDBI Bank (vi) Red Herring prospectus dated 25th September, 2006 submitted to Security and Exchange Board of India, (vii) Details about infirm power and (vii) Duly filled in Form No. 5A, 5B as prescribed in GERC (Terms and Conditions for Tariff) Regulations, 2005.

2.2 The petitioner submitted that the above project has started commercial operation from 28th April, 2010. The capital cost is estimated as Rs. 1455 crores against which, capital cost incurred upto Commercial Operation Date (COD) of the last unit i.e. unit No.2 is Rs. 1410.26 crores.

2.3 It is also submitted that the capital expenditure approximately amounting to Rs.95 Crores is pending for capitalization as on COD. It consists of invoices for Main Plant & Machinery, Civil and Erection works of Rs. 57 Crores and Initial Capital Spares of Rs.38 Crores.

3. The Respondent has filed a reply contending, inter alia, that the petitioner has mentioned the Debt-Equity ratio as 70:30 in the Form No.6 filed along with the petition. The petitioner had agreed to the Debt-Equity ratio of 75:25 with a consideration that the petitioner will get 15.5% Return on Equity (RoE) in line with Central Electricity Regulatory Commission (CERC) Regulations. The respondent while agreeing to the various tariff parameters in the PPA had considered the Debt-Equity ratio of 75:25 and based on the same computed the levelised Tariff and viability of the project. But now the petitioner has changed his request to a Debt-Equity ratio 70:30 considering that the petitioner would get 14% RoE on the lines of the GERC (Terms and Condition of Tariff) Regulations, 2005. The respondent submitted that in future if RoE is allowed more than 14%, only in that case the Commission may kindly approve the Debt Equity ratio of 75:25; otherwise the Debt-Equity ratio of 70:30 may be allowed.

3.1 There are unpaid Creditor's dues for about Rs.147.22 Crores on the date of Commercial Operation. The outstanding Creditor's dues cannot be considered as a part of the project cost as cost has not been actually incurred by the project developer. However, at the request of GIPCL, since the assets have been put to use, GUVNL has admitted the project cost of Rs.1410.26 Crores as on Commercial Operation Date (COD) for the purpose of computation of Return on Equity, Depreciation and Maintenance Spares. However, for the purpose of interest on Loans, outstanding Creditor's amount have not been included in the debt amount.

3.2 The project has got delayed by three and a half months. The scheduled Commercial Operation Date as per PPA was 31-12-2009 for Unit No.1 and 31-3-2010 for Unit No.2 and the actual date of COD is 19-4-2010 for Unit No.1 and 28-4-2010 for Unit No.2. The EPC Contract was finalised with M/s. BHEL and Letter of Intent (LoI) was issued on 29-3-2006 by the petitioner. The impact of such time overrun has amounted to increase in the interest during construction. The respondent has recovered Liquidated Damage amounting to Rs.11.625 Crores for delay under the PPA. It is stated by Petitioner that the additional cost of about Rs.95 Crores is pending for Capitalization over and above the cost of Rs.1410.26 Crores. Thus, the total capital cost is likely to increase to about Rs.1505 Crores which would work out to about Rs.6.02 Crores/MW. Hence, the Commission may decide admissible capital cost after considering all the relevant facts.

4. The matter was kept for hearing on 18.05.2011. On 18.05.2011, when the matter was called out Shri P.M.Trivedi, Shri N.K.Singh, and Smt. K.R.Mishra were present on behalf of the petitioner. Smt. Sailaja Vachhrajani, Shri Rakesh Soni and Shri S.S.Mistry were present on behalf of the respondent.

5. Shri P.M.Trivedi on behalf of the petitioner reiterated the facts as stated in para 2 above. He further submitted that the petitioner had promised their investors that RoE is available @ 15.50% as per the Central Electricity regulatory Commission (CERC) regulations and the same was agreed by the respondent. But the Commission has approved the Return on Equity @ 14% in its order dated 19.04.2011 as per GERC (Terms and Conditions of Tariff)

Regulations, in petition No. 1047 of 2011, against which the petitioner has filed a review petition, which is pending. Due to the reduction in the Return on Equity, the petitioner Company may face financial difficulties in receiving the future loans, and they will not be able to stand by their promises to the investors. He further submitted that the actual equity of the petitioner company in total asset capitalized is more than 30% of the Capital cost. Hence, it may not be commercially viable to reduce the equity upto 25% level as it is the first project of its kind considering the technology used. It may be necessary to allow adequate capital cost and to relax the financial and technical parameters to make it commercially viable. He requested to consider the above facts to allow debt equity ratio 70:30 instead of 75:25.

6. Smt. Shailja Vachhrajani on behalf of the respondent reiterated the facts as stated in para 3 above. She further submitted that unpaid amount to the creditors of about Rs.147.22 crores should not be included in the capital cost. This unpaid amount is still to be incurred by the petitioner. So, it does not form part of the capital cost of the project. The petitioner can claim this amount in its application for capitalization of additional capital cost, after the said amount is paid. She further submitted that they have agreed with the petitioner in respect to the RoE of 15.50%. and debt-equity ratio was agreed between the parties as 75:25 as per the CERC Regulations.

7. We have carefully considered the submission made by the parties.

7.1 The present petition has been filed by the petitioner in compliance to the

directives given by the Commission in its order dated 19.4.2010 in petition No. 1047 of 2010. On verification of documents submitted by the petitioner the following observations are made.

7.2 In the Board meeting dated 27.07.2004 of the petitioner company, Board of Directors approved 250 MW Expansion Project (Unit size configuration of 2x125 MW or 1x250 MW) and mode of implementation of project decided as Engineering Procurement and Commissioning (EPC) mode. Accordingly, EPC tender specification was issued to the M/s BHEL for submitting their offer for 2x125 MW SLPP Phase-II Expansion Project (Unit-3 & 4). After discussion and site visit, M/s BHEL had submitted its Technical offer for 2x125 MW on 30.11.2004.

7.3 Subsequently, M/s BHEL submitted their commercial offer on 6th January, 2005 & Price offer on 20th January, 2005 quoting the price for the EPC as Rs. 1257 Crores. In the Board Meeting dated 24.01.2005 of the petitioner company, it was decided to negotiate with BHEL to reduce their cost. At the same time, it was also decided that an advertisement for International Competitive Bidding (ICB) for 1x250 MW ± 20% configuration on EPC basis be kept ready to enable the GIPCL to proceed quickly in the event of M/s BHEL failing to bring down their costs to the desired level. As M/s BHEL could not bring down the cost, the petitioner initiated International Competitive Bidding for 1x250 MW Power Project. EPC tender document was issued from 07.03.2005 to 21.03.2005 to 08 (Eight) parties. Pre-bid conference was held on 18.04.2005. In response to above only two parties namely (i) Consortium of the M/s Reliance Energy Limited (REL)-ALSTOM

Power Boiler GmbH (ALSTOM) and (ii) BHEL submitted the bids, and they were short listed for 1x250 MW ± 20% Project. PART-I A of the Bid was opened on 31.08.2005. PART-IB (Techno-commercial Bids) was opened on 05.09.2005. M/s BHEL could not submit the Joint Deed of Undertaking with Technology provider / collaborator as per the Bid Qualification Requirements (BQR). M/s REL-ALSTOM Price Bid was opened on 17.01.2006. Price of REL-ALSTOM was found Rs. 1749 crores for 300 MWstation i.e. Rs. 5.83 crores per MW, which was considered too high by the project committee of the petitioner and it was decided by the committee that unless REL-ALSTOM reduces the price substantially, it would not be in the interest of the petitioner to accept it.

7.4 The Committee also noted that the revised offer dated 3rd March, 2006 given by BHEL for 2 x 125 MW in modification of their earlier offers dated 30/01/2004 (technical), 06/01/2005 (commercial), 20/01/2004 and 05/03/2005 (price) was comparatively lower than the offer given by REL-Alstom for 1x300 MW. Considering a period of 30 years, levelized tariff, which takes into account the total project cost, heat rate efficiency, auxiliary power consumption and O&M expenses, works out to approximately Rs 2.23/Kwh and the corresponding figure for REL-Alstom offer is Rs 2.26 /Kwh. Based on the above, the Committee decided to renegotiate for reduction in the earlier quoted price of the M/s BHEL.

7.5 After further negotiations, a reduction of 57.50 Crores was agreed to, bringing the EPC cost, excluding spares, lignite shed, service tax and works contract tax, to Rs. 1199.50 Crores i.e. Rs 4.80 Crores/MW. After inclusion of the

above excluded item, the EPC cost came to about Rs. 1260 Crores. i.e. Rs. 5.04 Crores/MW. The total project cost including Interest during construction (IDC), 3 % contingency and 2.75% overhead charges came to approximately 1467 Crores (Rs. 5.88 Crores per MW). With this cost the thirty years levelised tariff will be about Rs. 2.15 /kWh.

7.6 The petitioner had issued three letters of Intent (LoI) aggregating to Rs. 1199.50 crores to the M/s BHEL on 29.03.2006 and as per terms of payment, 10% advance was paid on 31.03.2006 to M/s BHEL. Thus the Project zero date commenced from 31.03.2006.

7.7 Petitioner had subsequently entered into three contracts with the M/s BHEL on 23rd March, 2007 as per letters of intent. The details of scope of works and price as per the LoI and contracts are given in the table below:-

Scope of work	**Particulars**	**Price in Rs. (Crore) as per the agreement**	**Price in Rs. (Crores) as per Letter of Intent**
Design and Engineering of various systems, manufacture, fabrication, assembly, shop testing etc.	Contract I	939.79	884.62
Transportation of material from manufacturer works/dispatch to SLPP site, loading, unloading of material etc.	Contract II	107.46	107.46
Complete Civil & Structural Works for 2×125 MW Unit 3&4 on EPC basis as per EPC specification (TCE.3506-H-TPP-01) duly modified by amendments, clarification letters,	Contract III	152.25	207.42

Minutes of Meeting, Correspondences etc.			
	Total	1199.5	1199.5

7.8 The Petitioner has submitted capital cost, which is in two form i.e. (i) the capital cost excluding Interest During Construction (IDC) & Finance Charges (FC) and (ii) the capital cost consisting of IDC & FC. The above cost items are based on domestic component.

7.9 The documents submitted by the petitioner indicate that the Board of Directors of the petitioner company had approved the estimated Capital cost of Rs. 1455 crores on 29th September, 2006, which consist of (i) estimated domestic component cost of about Rs. 1340 crores excluding IDC & FC and IDC & FC cost around Rs. 115 crores. Hence, the total project cost estimated by the petitioner was Rs. 1455 crores. But on the date of COD the estimated domestic cost worked out Rs.1292.26 crores excluding IDC & FC. The cost of

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IDC and FC is Rs. 118 crores. Therefore, on COD, the total cost of the project was 1410.26 crores.

7.10 The petitioner has submitted cost detail for capitalization of plant in the prescribed format. Form No. 5 B Part–1 of GERC (Terms and Conditions of Tariff) Regulations, 2005 stating the cost incurred as on Commercial Operation Date and admitted cost with necessary documents which consists of offer of the M/s BHEL, is stated below:

Sl.No.	Details as per Form B	Amount as per Form 5 B	Amount as per C.A. Certificate	Diff if any (4-3)
1	2	3	4	5
1.0	Cost of Land & Site Development	1.50	1.50	0.0
2.0	Plant & Equipment including advances for capital goods	1031.71	1033.07	1.4
3.0	Initial spares			
4.0	Civil Works	197.57	194.93	-2.6
5.0	Construction & Pre-Commissioning Expences			
	Tools & Plant / Furniture & Equipment	2.51	2.51	0.0
	Start up fuel	13.49	13.49	0.0
		16.00	16.00	0.0
6.0	Overheads			
	Establishment (All Other Overheads)	22.68	23.96	
	Design & Engineering (Consultancy Charges)	6.76	6.76	
		29.44	**30.72	1.3
7.0	Capital cost excluding IDC & FC	1276.22	1276.22	0.0
7.1	Interest During Construction	118.91	118.91	0.0

	(IDC)			
7.2	Financing Charges (FC)	15.13	15.13	0.0
8.0	Capital cost including IDC & FC	1410.26	1410.26	0.0
**	All Other Overheads			
	Consultancy & Professional Charges		6.76	
	Advertisement Expense		0.34	
	Environmental Clearance Exp		0.11	
	Construction Power		16.21	
	Inventories		1.28	
	Employees Cost		5.09	
	Misc Expenses		37.39	
	Income		-8.47	
			58.71	
	Less:			
	Consumption of RAW Material		15.64	
	Liquidated Damages levied by GUVNL		11.63	
	Infirm Power		0.72	
			27.99	
	All Other Overheads		30.72	

From the above table it seems that the total capital cost including IDC and Finance Charges incurred by the petitioner is Rs. 1410.26 crores.

7.11 The breakup of the project cost is verified from the record/documents and other details submitted by the petitioner. Chartered accountant Shri Ashok Thakkar of VCA & Associates Chartered Accountants, Vadodara has verified the expenses incurred by the petitioner and based on it, he has certified that the petitioner has incurred an expense of Rs. 1431.7168 crores towards the capital expenditure for setting up of the plant. Detailed break-up of the same is given in the table below:-

Application of Funds	Order Price (Rupees	Booked Amount (Rupees in	Amount Booked after	Amount(Rupees in lacs)

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	in lacs)	lacs)	April,2010	
				As per certificate issued by VCA & Associates
LAND		149.97		149.97
EPC CONTRACT				
Total Equipment Supply	90497.61	90707.64	(210.02)	90497.61
Total Erection and Commissioning	9385.42	6298.67	2585.52	9385.42
Total Civil work	21679.46	19493.08	2186.37	21679.46
Exchange Rate Variation			247.69	247.69
Total EPC value	121562.50	117000.62	4809.57	121810.19
NON EPC Capital Spares & Other Contracts		5799.46	4054.17	9853.64
Adv payment to BHEL & Other Contractors		1354.26	(1354.26)	
Other Fixed Asset		251.03		251.03
Consultancy & Professional Charges		676.13	232.85	908.97
Advertisement Expense		33.67		33.67
Environmental Clearance Expenses		10.56		10.56
Survey Charges		0.19		0.19
Construction Power		1621.23		1621.23
Financial Consultancy-Public Issue Expenses		236.68		236.68
				-
Public Issue Expenses		1276.33		1276.33

Deposit& Inventories		657.38		657.38
Employee Cost		509.04		509.04
Interest During Construction and Bank Charges		12057.60		12057.60
Misc. Expenses		3738.89		3738.89
Income		(847.13)		(847.13)
Grand Total		1431721.68		152268.28
Deduction Made By GUVNL				
Liquidated Damages		1162.50		1162.50
Security Deposit to GUVNL		529.06		529.06
IDC Disallowed by GUVNL		166.41		166.41
Infirm Power		71.84		71.84
Raw Material Cons.		215.59		215.59
Net Admitted By GUVNL		141026.27	909660	150123.87
Approved By GUVNL		141026		
FINANCING PLAN BASED ON ABOVE				
DEBT: EQUITY RATIO				70:30
DEBT(70%)				98718.20
EQUITY (30%)				42307.80
TOTAL				141026

7.12 From the above table, it transpires that the petitioner has incurred cost of Rs. 1431.72 Crores towards setting up of the power plant. The above cost

includes (i) cost of land, (ii) EPC contract, (iii) non EPC capitalized spares and others, (iv) cost towards various consultancy services and professional charges, (v) advertisement expenses, (vi) employee cost, (vii) public issue expenses, and (viii) interest during the construction etc. The price variation in the actual amount incurred in the project and basic project cost and cost incurred as on Commercial Operation Date by the petitioner are also verified and certified by him. He has also certified that the total cost incurred as on 30th April, 2010 by the petitioner is Rs. 1431.72 crores.

7.13 The petitioner has submitted that the additional cost of about Rs. 90.97 Crores towards (i) site development and civil work (Rs. 21.86 Crores) (ii) Plant and Machinery etc. (Rs. 66.67 Crores) and (iii) pre commissioning expenses of Rs. 2.33 crores are yet to be incurred and as such not capitalized as per the GERC (Terms and Conditions of the Tariff) Regulations, 2005. The petitioner is directed to approach the Commission once the same is incurred and capitalized as per Regulations of the Commission.

7.14 The petitioner availed technical services from (1) M/s. Tata Consultancy Services regarding review of EPC contractor's design, engineering, vendor selection against EPC specification, evaluation of performance guarantee test, preparation of specification, design, engineering, vendor selection etc. for non EPC work like lignite storage shed, PLCC, Tariff metering systems etc., and project management and site supervision in construction, start up commissioning, testing, evaluation and review of performance guarantee test etc. The above services were helpful to the petitioner to provide technical support in various activities related to EPC and non EPC works to the

petitioner. The petitioner has also incurred expenses towards professional services and legal purposes. The consultancy and professional services cost for the above work is Rs. 6.76 crores.

7.15 Services have been also availed from M/s. Allianz Securities Ltd., Enam Financial Consultants Pvt. Ltd., HSBC Securities and capital markets (India) Private Limited and GSFS Capital and securities Limited by the petitioner for providing advisory services and to act as Lead Managers and arrangers for mobilizing the financial resources for the petitioner project. Total expenses of Rs. 12.76 crores have been incurred towards public issue invited by the petitioner for creation of Rs. 275 Crores of share capital from the market. The petitioner has also incurred expenses to avail loan from various financial institutions and paid processing and financial charges of Rs. 2.37 crores as on 31st May, 2010. Thus, the petitioner has incurred financial charges towards creation of share capital and loan from the financial institutions, which workout to Rs. 15.13 crores. The petitioner had estimated the financing charges as Rs. 17.24 crores for creation of equity amount and loan amount for the project. However, the actual financing cost has been incurred as Rs. 15.13 crores which is admitted by the parties. The above cost is also verified and certified by Shri Ashok Thakkar, Charted Accountant for VCA Associates Charted Accountants, Vadodara. We, therefore, approved the finance charges as Rs. 15.13 crores.

7.16 The petitioner has submitted that he has taken loan from various banks and paid interest during construction as Rs. 120.58 crores for proposed project.

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The Charted Accountant has certified that an IDC amount of the project as Rs. 134.23 crores. The petitioner submitted that the cost of Rs. 134.23 crores has been allocated between the mining division and power plant division in the ratio of actual expenditures incurred for the projects as on 31.03.2010 in the ratio of 10:90. The petitioner has submitted necessary documentary support for it. Based on this Interest During the Construction (IDC) works out to Rs. 120.58 crores for power plant. The (IDC) was originally estimated at Rs. 119.32 Crores. However, according to the petitioner actual amount towards IDC worked out to Rs. 120.58 Crores.

7.17 The respondent GUVNL has disputed the IDC amount of Rs.16,641,130, stating that the amount is in excess as indicated by the petitioner because the unit No 1 of the project COD was achieved on 19.4.2010 and unit No 2 COD was achieved on 28.4.2010. Hence, the IDC will be applied for the only number of days of April, 2010 of the units before they achieved COD. The petitioner has admitted that the IDC claimed by him is for whole month of April, 2010. As the COD of the unit No 1 achieved on 19.4.2010 and unit No 2 was on 28.4.2010, the respondent has admitted the IDC till declared COD date on prorata basis and disallowed the IDC of an amount of Rs. 1.67 crores for balance days of the month. The above deduction made by the respondent seems to be valid and correct and the petitioner has also admitted the same. Hence, the deduction made by the respondent on the above account is allowed. Thus, an amount of Rs. 1.67 is reduced from the project cost. Thus, an IDC amount works out as Rs. 118.91 crores incurred by the petitioner as on COD. Shri Ashok Thakkar Chartered Accountant for VCA Associates Charted Accountant certified that an IDC amount as Rs. 134.23 crores incurred for the

project (power plant and mining project) by the petitioner as on COD as per the data and explanation provided to him and the same was verified by him. We therefore, approve the same and allow IDC as 118.91 Crores.

7.18 Both the units of the project were not ready for commercial operation on the Scheduled Commercial operation Dates. The major reasons of delay of the Project stated are as under:

a) Time over-run in the supply of Turbine- Generator by the BHEL-Hyderabad.

b) Time over-run in the supply of Pressure parts & Non-pressure parts of Boiler by BHEL-Trichy.

c) Time over-run in release of critical drawings by the M/s BHEL-PEM.

d) Time over-run in execution of the Ash handling and lignite handling system by the M/s BHEL-ISG

e) Time over-run in the Boiler erection and TG fabrication /Erection work.

f) Time over-run in finalization of the major Contracts / Packages like Chimney, Cooling Tower, Boiler Erection agency, Civil-BOP, Lignite Handling system, Ash handling system by the M/s BHEL.

g) Time over-run in mobilization of the 250 MT Crane.

h) Time over-run in execution of the Balance of Plant area.

i) Longer stabilization period of the units.

Due to the above reasons unit No.1 and unit No. 2 achieved COD on 31.12.2009 and 31.03.2010 instead of schedule COD of 19.04.2010 and 28.04.2010 respectively.

7.19 It is an admitted fact the COD, of the unit No.1 & 2 of the power plant were scheduled for 31.12.2009 and 31.03.2010. However, the same were delayed to 19.04.2010 and 28. 04.2010 for unit No.1 & unit No.2 respectively. Thus, the delay occurred is for 109 days for unit No.1 and 28 days for unit No.2.Thus the total delay in commercial operational date for both the units is 127 days. As per the agreement between the petitioner and the respondent, the petitioner is required to pay the liquidated damage. The same works out to Rs. 11,62,50,000 say Rs. 11.63 crores for the above period. The respondent has deducted liquidated damages of Rs. 11.63 crores, which is also accepted by the petitioner. We, therefore, allow and approve the liquidated damage of Rs. 11.63 levied by the respondent and the same is to be deducted from the project cost incurred by the petitioner which is also agreed by the petitioner. The reason advanced by the respondent for deduction of the above amount of Rs. 11.63 for delay in achieving the COD is in accordance with the terms of the PPA. Hence, the same is approved.

7.20 The respondent has disputed that an amount of Rs. 5.29 Crores paid by the petitioner towards security deposit to the DGVCL for installation of the Transmission line for availing the power supply for construction of the project is in the nature of deposit and not expenditure. Therefore, the same is not a part of total asset capitalized for the project. It is noted that the present petition is for the approval of capital cost of the power project. Hence, the transmission lines which were created for the power supply for the construction work of the project are not part of the project. Moreover, the expense incurred towards the same is in the nature of deposit and not expenditure. Hence, the amount of Rs. 5.29 crores stated as part of the capital

cost is disallowed and the same is to be deducted from the expenditure amount shown as a part of the capital cost.

7.21 The petitioner has generated electricity prior to COD of the power plant units and the same was sold to the GUVNL. The respondent GUVNL has paid an amount of Rs. 71,83,717 say Rs. 71.84 lacs to the petitioner, which was in excess of the fuel charges incurred by the petitioner to generate and sell the units to the petitioner. Hence, the petitioner has earned an amount of Rs. 71.84 lacs in excess of fuel cost incurred by them. Therefore, the excess amount which is earned by the petitioner due to infirm power is Rs. 71.84 lacs/- is required to be reduced from the capital cost as it is an income received by the petitioner on the power plant asset prior to COD of the project. The parties also agreed to the same. Shri Ashok Thakkar, VCA Associates Chartered Accounts also certified the same. Hence, we approve the reduction of Rs. 71.84 lacs as income due to infirm power. Both the parties agreed to reduce the capital cost of the project on the above ground which is valid and also as per the GERC (Terms and Conditions of Tariff) Regulations, 2005. We therefore, approve the deduction of Rs. 71.84 lacs from the capital cost incurred by the petitioner as on COD of the units.

7.22 The respondent has disputed an amount of Rs. 2,15,59,333 incurred towards raw material utilized during construction of the power project. The respondent argued that this amount of raw material was not capitalized on the COD of the units, and hence the same amount is not permissible for capitalization of asset cost. The petitioner accepted that the cost towards the raw material utilized during construction include the material cost of Rs. 2.16 crores, which is not

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capitalized on the Commercial Operation Dates of units. Hence, the said amount is required to be reduce from the total capital cost of Rs. 1431.72 Crore. . Shri Ashok Thakkar Chartered Accountant for VCA and associates chartered accountants have also certified that the an amount of Rs.21,559,339 is deducted by GUVNL from the amount claimed for raw material consumed during construction, as claimed by the petitioner. The present petition is for approval of the capital cost of the project. The asset which is capitalized on the date of COD, and expenses done for such asset is only eligible for the approval of the capital cost. Hence, the raw material, which is not utilized for the asset on the date of COD of both the units of the power plant is not admissible as a part of the project cost of the power plant Hence, the amount of Rs. 2.16 crores is not permissible for capital cost and the same is to be reduced from the capital cost proposed by the petitioner.

7.23 Based on the above observation, the approved capital cost works out as under:

(Rs. In Crores)

Description	Project Cost as per Board Note	Project Cost as per Auditor's Certificate	Cost Not Considered by GUVNL	Project Cost approved by the Commission on COD
	1	2	3	4
PROJECT COST				
Land and Site development	1.50	1.50		1.50
Civil works and Plant & Machinery – EPC *	1240.29	1170.01		1170.01
Plant & Machinery - NON EPC	60.50	57.99		57.99
Other Fixed Assets		2.51		2.51
Construction Power		16.21		16.21
Pre- Comm. Exp/project mgt. expenses,Financecost, Consultancy	28.20	71.39	19.80	51.59

includingFuel Consumption (during pre commissioning) and other Misc Expenses				
Infirm Power		-8.47		-8.47
Interest during construction	119.32	120.58	1.66	118.91
Grand Total	1467.05	1431.72	21.46	1410.26

7.24 The petitioner has submitted that it had incurred an expenditure of Rs. 1431.72 crores on the date of COD which is also verified and certified by Shri Ashok Thakkar for VCA and associates chartered accountants. However, we found that certain amounts as stated in para 7.23 above are required to be reduced from the cost claimed by the petitioner, which is also agreed by the petitioner. We found that the project cost capitalized on date of commercial operation (COD) is Rs. 1410.26 Crores. Shri Ashok Thakkar Chartered Accountant, for VCA and associates chartered accountants also verified and certified the same. Hence, we approve Rs.1410.26 crores as capital cost incurred by the petitioner date of COD. The petitioner is at a liberty to approach the Commission for additional capitalization amount when the commercial operation date of the reaming assets has occurred.

7.25 Regarding the financing plan of the project, the petitioner submitted that the debt: equity ratio agreed between the parties in the PPA was 75:25 and in that case Return on Equity as 15.5%. The Commission has approved debt: equity ratio as 75:25 and approved Return on Equity as14%. While in the present petition the petitioner has submitted the details of financial package consisting of Debt: Equity amount which is stated as below:

(Amount in lacs)

		PART-I	*FORM-6*

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Financial Package upto COD					
Name of the Company			*GUJARAT INDUSTRIES POWER COMPANY LIMITED*		
Name of the Power Station			*SURAT LIGNITE POWER PLANT- PHASE II*		
Project Cost as on COD[1]			*Rs.1410.26 Crores*		
Date of Commercial Operation of the Station[2]			*28/04/2010*		
Debt : Equity Ratio			*70:30*		
Debt			*Rs. 987.182*		
Equity			*Rs. 423.078*		
	Financial Package as Approved		**Financial Package as on COD**		**As Admitted on COD**
	Currency and Amount		**Currency and Amount**		**Currency and Amount**
1	**2**	**3**	**4**	**5**	**6**	**7**
IDBI Bank Limited	*Rupees*	*22000*	*Rupees*	*17350*	*Rupees*	*8850*
CENTRAL BANK OF INDIA	*Rupees*	*10000*	*Rupees*	*10000*	*Rupees*	*5000*
CANARA BANK	*Rupees*	*10000*	*Rupees*	*10000*	*Rupees*	*10000*
STATE BANK OF SAURASHTRA	*Rupees*	*5000*	*Rupees*	*5000*	*Rupees*	*4600*
ORIENTAL BANK OF COMMERCE	*Rupees*	*20000*	*Rupees*	*20000*	*Rupees*	*20000*
STATE BANK OF BIKANER & JAIPUR	*Rupees*	*5000*	*Rupees*	*5000*	*Rupees*	*5000*
UNION BANK OF INDIA	*Rupees*	*20000*	*Rupees*	*20000*	*Rupees*	*20000*
KARUR VYSYA BANK	*Rupees*	*9850*	*Rupees*	*10000*	*Rupees*	*9300*
TOTAL LOAN	***Rupees***	***101850***	***Rupees***	***97350***	***Rupees***	***82750***
Deemed Loan to be consider for this Project				*1368*		*8298*

TOTAL DEBT FOR THE PROJECT				*98718*		*91048*
Equity-						
Foreign		*N.A.*			*N.A.*	
Domestic (Follow on Equity)	*Rupees*	*27500*	***Rupees***	*27500*	***Rupees***	*27500*
Internal Accrual	*Rupees*	*16150*	***Rupees***	*14808*	***Rupees***	*7757*
Total Equity		***43650***		***42308***		*35257*
Total Project Cost		***145500***		***141026***		*126304*
Note: (i) GUVNL has admitted project cost of Rs. 1410.26 crores. However while calculating the Means of Finance they have excludes Rs. 147.22 crores as outstanding liabilities as on COD date.						
Note: (ii) For this project Debt Sanctioned of Rs. 1018.50 crores is already with the Company. As on COD the Actual drawal was Rs. 827.50 crores. Further drawal took place to discharge outstanding liabilities. Hence Term Loan drawal as on 30.11.2010 was Rs. 973.50 crores.						

From the above table it appears that the approved financial plan of the petitioner indicates that it was planned to take debt amount of Rs.1018.50 crores for the project. However, the petitioner had drawn Rs. 827.50 crores upto COD and deployed other amounts from the equity created through the public issue and the internal accrual to create the asset. It is also stated that the petitioner had drawn the loan from the financial institutions after COD from the sanctioned amount in a phased manner and it had drawn Rs. 973.50 crores upto 30th November, 2010.Term loan amount availed by the petitioner upto the Commercial Operation Date is Rs.827.50 crores as Terms loan from the various financial institutions by the petitioner and having term loan repayment period as 10 years with one year moratorium period. The petitioner has in support of its claim submitted the document stating the term loans approved by (i) Central Bank of India (ii) Union Bank of India, (iii) State Bank of India, (iv) IDBI Bank, (v) State Bank of Saurashtra, (vi) Canara Bank, (vii) Bank of Baroda, etc. The Petitioner had submitted that the loan amount was taken from

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above financial institution at different times and paid interest on it as per agreed terms of loan sanctioned. Shri Ashok Thakkar, Chartered Accountant of VCA Chartered Accountants, Vadodara had also certified the same. Thus the total debt taken by the petitioner for power project & mines project works out to Rs. 827.50 Crores. The petitioner has created an asset of Rs. 1410.26 crores on 28.4.2010, which consist of loan as Rs. 973.50crores and deemed loan of 13.68 crores . Thus, total loan amount is Rs. 987.18 crores and equity of Rs. 423.08 crores. Thus, loan part is 70% and equity 30%of the total asset on COD. We noted that the Commission has in its order dated 21.10.2011 in the review petition No 1109 of 2011 filed by the petitioner decided the debt equity ratio as 70:30.Hence, the debt (loan) taken for the project is in accordance of the Commission's order. Based on the above observations, we approved the debt amount as on 30.4.2010 at Rs. 987.18 crore for the project.

7.26 The petitioner has submitted Red Herring Prospectus dated 26.09.2005 for public issue of equity shares of Rs. 10 for Rs. 2750 million. Aforesaid Red Herring Prospectus states that the public issue was brought out by the petitioner for establishment of the power plant. Thus, the petitioner had received an amount of Rs. 275 Crores as equity amount from the public for above project. The petitioner has stated that he has generated equity of an amount of Rs. 148.08 Crores from Internal Accrual fund which is admitted by the respondent. The petitioner submitted that he has utilized an amount of Rs. 148.08 crores from its internal accrual. In support of the same the petitioner has submitted the following details.

(Rs. In Lacs)

Particulars	31/03/2010	31/03/2009	31/03/2008	31/03/2007	31/03/2006	31/03/2005

Share Capital	15125.12	15125.12	15125.12	15125.12	15125.12	11081.00
Reserve & Surplus	109482.39	103213.33	98574.61	92769.46	77949.72	45168.17
	124607.51	**118338.45**	**113699.73**	**107894.58**	**93074.84**	**56249.17**
Less: Follow on Equity	**27500.00**	**27500.00**	**27500.00**	**27500.00**	**27500.00**	
	97107.51	**90838.45**	**86199.73**	**80394.58**	**65574.84**	**56249.17**
Equity Deployed:						
Station - I	4997.00	4997.00	4997.00	4997.00	4997.00	4997.00
Station - II	11014.00	11014.00	11014.00	11014.00	11014.00	11014.00
SLPP	29666.00	29666.00	29666.00	29666.00	29666.00	29666.00
Mine - I	7200.00	7200.00	7200.00	7200.00	7200.00	7200.00
	52877.00	**52877.00**	**52877.00**	**52877.00**	**52877.00**	**52877.00**
Equity Surplus Available for SLPP Phase-II and Mine-II	**44230.51**	**37961.45**	**33322.73**	**27517.58**	**12697.84**	**3372.17**
Internal Accrual required for SLPP Phase - II as per project cost submitted	**14807.8**					

YEAR WISE PROJECT COST & FINANCING

	31/03/2010	31/03/2009	31/03/2008	31/03/2007	31/03/2006
Expenditure on SLPP PHASE- II	**138292.87**	**111578.83**	**69648.91**	**21426.16**	
Equity (Follow on Public issue)	27500.00	27500.00	27500.00	27500.00	27500.00
Internal Accrual deployed	28342.87	20472.35	8798.87		
Term Loan Drawal	82450	63606.48	33350.04		

From the above table it seems that as on 31.3.2010 the petitioner is having the surplus of Rs. 442.31 crores which was utilized for the SLPP phase –II and

mines project. It is also stated that internal accrual required for the SLPP phase –II project is Rs148.08 crores and the same was deployed by the petitioner.

7.27 The respondent has disputed and submitted that an amount of Rs. 147.22 crores of unpaid credits outstanding liabilities as on COD is to be excluded. The petitioner submitted that an amount of Rs. 147.22 crores which is unpaid to the creditor asset is already capitalized and the said amount is required to paid by the petitioner. The reasons advanced by the petitioner is that an amount of Rs. 147.22 crores consists of retention amount of M/s BHEL, security deposit and other statutory dues needed to be paid by the petitioner to the concerned supplier. Hence, we may allow the above amount which is already capitalized and accrued. We, therefore, approve the amount of Rs. 147.22 crores as a part of the capital cost to be considered for equity and loan.

7.28 The GERC (Terms and Conditions of Tariff), Regulations, 2005 and GERC (MYT) Regulations, 2011 provides that for the purpose of determination of tariff, debt equity ratio permissible is 70:30. The petitioner has deployed the debt and equity in accordance with the Commission's Regulations which are also approved by the Commission in its order dated 21.10.2011 in petition No 1109 of 2011. Based on above, we approve the capital cost of the GIPCL, SLPP Phase – II (2×125 MW) as Rs. 1410.26 Crores with a total loan component of Rs. 987.18 Crores and an equity component as Rs. 423.08 Crores.

8. In view of the above observations, we approve the project cost of Rs. 1410.26 crores on COD of the SLPP Phase-II of the power plant. The petitioner has

deployed a total amount of Rs. 423.08 crore, i.e. 30%, as equity. The petitioner has also taken debt of Rs. 987.18, which is 70% of the total capital cost. The above amount is verified and certified by Shri Ashok Thakkar of VCA & Associates, Chartered Accounts, Vadodara. Hence, we approve the same.

9. We order accordingly.

10. With this order the present petition stands dispose of.

Sd/-	Sd/-	Sd/-
(Dr.M.K.IYER)	**(PRAVINBHAI PATEL)**	**(Dr. P. K. MISHRA)**
MEMBER (Finance)	**MEMBER (Tech)**	**CHAIRMAN**

Place: Ahmedabad
Date: 21/11/2011

BEFORE THE GUJARAT ELECTRICITY REGULATORY COMMISSION
AT AHMEDABAD

Petition No.1109/2011

In the matter of: Review petition against the Commission's order on Petition No.1047 of 2010 dated 19.04.2011.

Petitioner		M/s.Gujarat Industries Power Company Ltd., P.O.Petrochemicals, Dist: Vadodara-391346.
Represented by	:	S/Shri P.N.Trivedi, N.K.Singh and Mrs.K.R.Mishra.
		V/s
Respondent	:	M/s.Gujarat Urja Vikas Nigam Ltd., Sardar Patel Vidyut Bhavan, Race Course, Vadodara.
Represented by	:	Ms.Shailaja Vachharajani & Shri R.P.Soni

CORAM:
Dr.P.K.Mishra, Chairman
Shri Pravinbhai Patel, Member(T)
Dr.M.K.Iyer, Member(F)

ORDER

[1] The present petition is filed by the petitioner seeking review of the order dated 19.4.2011 passed by the Commission in Petition No.1047 of 2010 with a request to allow Debt-equity ratio as 70:30 in place of 75:25 and O&M charges as Rs.24.0 lacs/MW/Year for the year 2009-10 to be escalated at 5.72% from that year for subsequent years.

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[2] The facts as mentioned in the petition are briefly as under:

2.1 The petitioner has submitted that respondent filed a petition No.1047 of 2010 and prayed for approval of the Power Purchase Agreement. The said Power Purchase Agreement includes various parameters of the tariff agreed between the parties. After hearing the parties, the Commission passed an order dated 19.4.2011 in the said petition.

2.2 The petitioner submitted that in the said order the Commission has not considered the agreed terms between the parties regarding the package deal of the project - which comprises various parameters - and its impact on expenses and revenue available to the present petitioner.

2.3 Both the petitioner and respondent had mutually agreed upon a debt-equity ratio of 75:25 and return on equity at 15.5% as per CERC Regulations. Further, on the basis of actual expenditure incurred by the petitioner on O&M of their operating plant, the O&M cost for the year 2009-10 works out to Rs.23.4 lakhs. However, in order to reduce the cost to the respondent and in view of higher RoE of 15.5% agreed between the parties, the petitioner had agreed to O&M cost of Rs.20 lakhs/MW as a package deal between the parties. The petitioner has accordingly informed its lenders and assured that a particular amount will be available to them as a regular income from the project based on the PPA. However, the Commission has approved the Debt-Equity ratio as 75:25 and Return on Equity as 14% as per the GERC norms. Thus, the petitioner is affected by way of lower income. Similarly, the O&M cost, which is actually quite high, was agreed between the parties at Rs.20 lakhs per MW per year as a package deal in view of higher RoE.

However, the Hon'ble Commission has ignored this fact and approved the O&M cost at Rs.20 lakhs/MW/year, while reducing the RoE from 15.5% to 14%. The petitioner has actually deployed equity more than 30% and debt is less than 70%. Hence, the Commission may review the above order based on the actual Debt-Equity ratio of the power project and may allow the Debt-Equity ratio as 70:30. It is further submitted that the O&M expenses may please be approved based on the actual expenses incurred by the petitioner in its existing unit and it should be considered as base value for O&M expenses for the Financial Year 2009-10 which works out to Rs.23.5 lakhs per MW per year. Considering the above, the Commission may review its Order dated 19.4.2011 in Petition No.1047 of 2010 to correct the above errors on the face of record.

[3] The aforesaid matter was heard by the Commission on 19.4.2011, 1.10.2011 and 5.10.2011. On 5.10.2011, when the matter was called out, S/Shri P.N.Trivedi, N.K.Singh and Mrs.K.R.Mishra were present on behalf of the petitioner. Ms.Shailja Vachharajani was present on behalf of the respondent.

[4] Shri P.N.Trivedi, on behalf of the petitioner, reiterated the facts as stated in para 2 above.

[5] Ms.Shailja Vachharajani, on behalf of the respondent, submitted that the terms and conditions of the PPA were discussed among both the parties and it was consciously agreed that the technical and financial parameters for tariff shall be as per the CERC Terms and Conditions of Tariff Regulations,2009. Accordingly, the various terms were negotiated between the parties with consideration of its impact on overall income of the project. She submitted that the Debt-Equity ratio of the project is actually 70:30.

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Hence, the Commission may allow the same. However, the O&M was decided on negotiation basis between the parties and therefore, no change should be allowed in it.

[6] We have carefully considered the submissions made by the parties. The present petition seeks review of the Order dated 19.4.2011 passed by the Commission in Petition No.1047 of 2011.

6.2 The Commission is guided by the principles envisaged for the Civil Courts in adjudicating review petitions as enunciated in Section 94 (1) (f) of the Electricity Act, 2003 read with the Regulation No 72 of the Gujarat Electricity Regulatory Commission (Conduct of Business) Regulations, 2004. According to provision of the Civil Procedure Code, 1908 and Regulations,72 of the Conduct of Business Regulations, review of a Judgment/ Order can be made on following grounds:

(i) discovery of new and important matter or evidence which, after the exercise of due diligence was not within his knowledge or could not be produced by him at the time when the decision/order was passed by the Commission or

(ii) on account of some mistake or error apparent on the face of record, or for any other sufficient reason,

(iii) may apply for review of such order within 60 days of the date of decision/order to the Commission.

6.3 The petitioner has argued that there is error on the face of record and there are sufficient reasons for modification of the order dated 19.4.2011 in Petition No.1047 of 2011. The petitioner has submitted that the Debt-Equity ratio approved by the Commission at 75:25 as in the PPA. However, the

petitioner has actually deployed equity more than 30%. Thus, the Debt-Equity ratio may be considered as 70:30. It is true that the Commission has allowed Debt-Equity Ratio as 75:25. It is clarified that the above Debt-Equity ratio was approved by the Commission based on the submissions made by the parties and as agreed between the parties which is stated in the Power Purchase Agreement. Now, the petitioner has come with the plea that he has deployed equity more than 30% which is also accepted by the respondent. Thus, both the parties have agreed that the equity deployed by the petitioner is more than 30%.

6.4 According to GERC (Terms and Conditions of Tariff) Regulations,2005, the permissible Debt-Equity Ratio is 70:30, and if any person deploys equity more than 30%, the amount above 30% shall be treated as part of loan amount and accordingly the debt-equity ratio is required to be worked out as 70:30. The same principle applies to the Power Purchase Agreement executed between the parties in the present case also. Accordingly, the debt-equity ratio is to be worked out as 70:30. Both the petitioner and respondent have admitted that the terms and conditions of the PPA agreed between the parties are as a part of package deal which comprises different parameters based on either CERC norms or GERC norms and also based on the negotiations between the parties. We have already clarified in the earlier order that the case of the petitioner falls under the jurisdiction of the GERC and that there is no reason to adopt the norms on the basis of CERC regulations. Therefore, the Commission approved the return on equity in Petition No.1047 of 2011 as per GERC norms instead of CERC norms. The petitioner has actually deployed more than 30% of equity. Therefore, as per

the GERC(Terms and Conditions of Tariff) Regulations, he is eligible to get Return on equity as per the Regulations of the Commission. We, therefore, accept that the prayer of the petitioner to review the order dated 19.4.2011 in Petition No.1047 of 2011 in respect of Debt-Equity Ratio can be granted. We, therefore, decide that the Debt-Equity Ratio in the PPA executed between the parties shall be considered as 70:30 and the petitioner is eligible to get return on equity @ 14% on the above equity.

6.4 The petitioner has also sought review of the order regarding O&M charges. In this connection, it is necessary to refer to para 7.6 of the order dated 19.4.2011 in Petition No.1047 of 2011 in which the Commission has already recorded that though the O&M charges as per the details submitted by the petitioner for its plant which is under operation works out to 23.4 lakhs per MW, the parties have agreed to a lower O&M charge of Rs.20 lakhs per MW. The above decision is a conscious decision taken by both the parties. Now, the petitioner has approached the Commission by saying that it was agreed between the parties that the said O&M charges are also one of the parameters of the negotiated tariff between the parties with consideration of CERC norms. The CERC has notified its Tariff Regulations 2009 which provides that the O&M charges for the Lignite based power plant as Rs.24 lakhs per MW per year which is quite high in comparison to O&M charges approved by the Commission. Hence, the above charges are required to be corrected based on the actual O&M expenses incurred by the petitioner. The respondent has objected to revision of O&M charges stating that there is no error in the estimate of the said charges. We note that the Commission has considered the submission made by the parties regarding O&M charges

which state that the O&M charges were originally agreed between the parties as Rs.20 lakhs per MW though the actual expenses are Rs.23.4 lakhs per MW by the petitioner. Thus, it is a conscious decision taken by the petitioner to claim O&M charges as 20 lakhs instead of 24 lakhs per MW. Thus, there is no error on the face of record in the Order dated 19.4.2011 in Petition No.1047 of 2011 on this issue. We, therefore, decide that the review of the order on this count is not permissible because there is no error on the face of record.

[7] Based on the above, we decide that the present petition partly succeeds. We allow the Debt-equity ratio as 70:30 instead of 75:25. The prayer regarding review of order No.1047 of 2011 for O&M charges is not permissible and the same is rejected.

[8] We order accordingly.

[9] With this order, the petition stands disposed of.

Sd/-	Sd/-	Sd/-
[Dr.M.K.IYER]	[PRAVINBHAI PATEL]	[Dr.P.K.MISHRA]
MEMBER(F)	MEMBER(T)	CHAIRMAN

Place: Ahmedabad
Date: 21/10/2011

BEFORE THE GUJARAT ELECTRICITY REGULATORY COMMISSION AT AHMEDABAD

Petition No.1047/2010

In the matter of:
Approval of Power Purchase Agreement signed by Gujarat Urja Vikas Nigam Limited (GUVNL) with Gujarat Industries Power Company Limited (GIPCL).

Petitioner	:	Gujarat Urja Vikas Nigam Ltd. (GUVNL) Race Course Circle, Vadodara.
		V/s
Represented by	:	Mrs.Sailaja Vachharajani, & Shri S.S.Mistry
Respondent	:	Gujarat Industries Power Company Ltd. At & Po: Petrochemicals, Vadodara.
Represented by	:	Shri P.N.Trivedi & Mrs.K.R.Mishra

CORAM:
Dr.P.K.Mishra, Chairman
Shri Pravinbhai Patel, Member(T)
Dr.M.K.Iyer, Member(F)

ORDER

[1] The present petition is filed for approval of the Power Purchase Agreement executed between the petitioner and the respondent on 1st October, 2009 for procurement of power from 250 MW Lignite based Power Station of the respondent set up at Mangrol, Surat.

[2] The facts mentioned in the petition are briefly as under:

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2.1 The petitioner (viz. Gujarat Urja Vikas Nigam Ltd.) is a company set up by the Govt. of Gujarat under the Gujarat Electricity Industry (Reorganization and Regulation) Act,2003 and is entrusted with the function of procurement of power on behalf of the distribution companies unbundled from the erstwhile GEB.

2.2 The petitioner had executed a Power Purchase Agreement with the respondent on 1st October,2009 for procurement of power generated from 250 MW Lignite based Power Station, set up by the respondent at Mangrol, Surat.

2.3 The Petition was uploaded on their website as per the directive of the Commission. The same was also uploaded on the Commission's website. In response to the above, no comments were received.

[3] The matter was heard by the Commission on 19.10.2010, 07.12.2010 and 1.2.2011. During the hearing i.e. on 19.10.2010 and 07.12.2010, the Commission directed the petitioner and respondent to justify the deviations sought from the normative parameters provided in the GERC (Terms and Conditions of Tariff) Regulations,2005 notified by the Commission which was duly complied by both the parties. The matter was finally heard on 1.2.2011. When the matter was called out, Mrs.Sailaja Vachhrajani and Shri S.S.Mistry were present on behalf of the petitioner. Shri P.N.Trivedi and Mrs.K.R.Mishra were present on behalf of the respondent.

[4] Mrs.Shailaja Vachchrajani, on behalf of the petitioner, reiterated the facts as mentioned in the PPA. She further submitted that various provisions of the Power Purchase Agreement were prepared on the

basis of the Terms and Conditions of Tariff Regulations,2005 notified by the Gujarat Electricity Regulatory Commission and the Central Electricity Regulatory Commission, Model PPA included in the Standard Bid Documents issued by the Govt. of India under the Competitive Bidding Guidelines and earlier PPAs (cost plus tariff basis) approved by the Commission. Some of the provisions, which are not in the above documents have also been included in the PPA as agreed between the parties. She further submitted that the petitioner is authorized by unbundled distribution licensees of erstwhile GEB to procure power on behalf of them. They have agreed that the terms of the PPA are binding to them.

[5] Shri P.N.Trivedi on behalf of the respondent submitted that they have established 125 MW x 2 of the CFBC based technology power plant supplied by BHEL. The project had started its commercial operation from April,2010. However, the same is not stabilized. It will take about 3 years due to various technical constraints. The respondent will file a separate petition for approval of the capital cost of the project and also file tariff determination petition at the appropriate time.

[6] We have carefully considered the submissions made by the parties. The PPA was executed between GUVNL (Deemed Trading Licensee) and the Gujarat Industries Power Company Ltd. (GIPCL). According to section 86(1)(b) of the Electricity Act, 2003, the Commission is required to regulate the power procurement of Distribution Licensees. The petitioner has admitted that the power procurement is done by it on behalf of the unbundled Distribution Licensees of the erstwhile GEB.

The distribution licensees of the erstwhile GEB vide their letter of January,2010 submitted that they have authorized the petitioner (GUVNL) to procure power from the seller (respondent) on behalf of them. They also vide their letter of January, 2010 submitted that they would agree to procure the quantity of power allocated by GUVNL and are ready to pay necessary charges for the same.

6.1 The petitioner admitted that the various clauses of the PPA are based on either the model PPA included in the Competitive Bidding Documents notified by the Ministry of Power, Govt. of India or the Terms and Conditions of Tariff Regulations notified by the Commission (GERC) or CERC or PPAs (cost plus basis) earlier approved by the Commission and other terms agreed between the parties.

6.2 The respondent has also submitted that they have procured the power plant from the Bharat Heavy Electricals Ltd. (BHEL) as per their requirement. However, approval of the Commission for capital cost of the project is necessary. They submitted during hearing that they would approach the Commission for approval of the capital cost. The respondent is, therefore, directed to file a separate petition with all details/ records for approval of the capital cost.

6.3 On verification of the PPA, the Commission observed certain discrepancies in the PPA. Hence, the petitioner and the respondents were directed to amend the PPA accordingly. The petitioner and the respondent subsequently made submission on various financial and technical parameters of the plant for the approval of the Commission. We found that in the PPA, there is no mention of various technical and financial parameters as part of the PPA, which are required to be incorporated as part of PPA as per the Terms & Conditions of Tariff

Regulations notified by the Commission except for the parameter for which the Commission allowed different norms.

6.4 In Schedule 5 of the petition, the petitioner has not mentioned the various parameters of the tariff such as Plant Load Factor, Auxiliary Consumption, specific Oil Consumption, Station Heat Rate, Limestone consumption, O&M expenses, Return on equity, Interest on loan, Debt: Equity ratio etc. It is stated that the applicable norms will be as per GERC (Terms and Conditions of Tariff) Regulations,2005 and in case of norms not specified by the GERC, it will be as per CERC (Terms and Conditions of Tariff) Regulations. As GERC is the Commission empowered to approve the present PPA, the GERC (Terms and Conditions of Tariff) Regulations,2005 are applicable to the present PPA.

[7] A careful consideration of the PPA and the submissions made by the parties reveal that the following parameters need the Commission's consideration.

(i) Debt-Equity Ratio

(ii) Depreciation and Advance against depreciation

(iii) Technical parameters such as:

(a) Station Heat Rate

(b) Plant Availability Factor and Plant Load Factor

(c) Auxiliary Consumption

(d) O&M Expenses and Water expenses

(e) Consumption of Lignite

(f) Transit loss of lignite

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7.1 With regard to Debt-Equity Ratio, the respondent submitted that debt-equity ratio agreed between the parties is 75:25, which is lower than the normative ratio of 70:30. Consequently, the petitioner is benefitted by paying a levelised tariff lower by 5 paise per unit. The parties agreed to consider Return on Equity (RoE) as 15.5%, as per the CERC Regulations. Moreover, it was also agreed between the parties that the normative parameters will be as per CERC Regulations. The respondent has assured the lenders that the return on fund invested for the project would be based on the above terms.

7.1.1 The respondent submitted that the Commission may not stipulate any norm different from those agreed in the PPA which can lead to increase in the levelised tariff based on which the PPA was signed. The formula for adjustment of fixed cost and incentive recommended by the Commission in the MYT draft Tariff Regulations may be made applicable to this PPA.

7.1.2 In this regard, it is essential to refer to Regulations 19 of the GERC (Terms and Conditions of Tariff) Regulations,2005 notified by the Commission which reads as under:

19. ***Debt-Equity Ratio:*** *(1) In case of all generating stations, debt-equity ratio as on the date of commercial operation shall be 70:30 for determination of tariff. Provided that the Commission may in appropriate cases consider equity higher than 30% for the purpose of determination of tariff, where the generating company is able to establish to the satisfaction of the Commission that deployment of equity more than 30% was in the interest of general public;*

Provided that in case of a generating station where actual equity employed is less than 30%, the actual debt and equity shall be considered for determination of tariff.

Provided that in case of existing projects, the actual debt: equity shall be used for tariff determination. However, any expansion shall be governed as per regulation 19.

(2) The debt and equity amount arrived at in accordance with clause (1) shall be used for calculating interest on loan, return on equity, Advance Against Depreciation and Foreign Exchange Rate Variation.

According to the above regulation, the Debt-Equity Ratio agreed between the parties is valid and the same is permissible. Due to lower equity, it will be helpful to the petitioner to procure power at a lower cost once the loan repayment of the project is completed . We therefore, approve the same. The respondent has prayed for RoE of 15.5%. It is clarified that the Commission has in its Terms and Conditions of Tariff Regulations, 2005 and Multi-Year Tariff Regulations,2011, decided RoE of 14%. Hence, the respondent is entitled to only 14% RoE.

7.2 Now, we deal with the issue regarding depreciation and Advance Against Depreciation claimed by the respondent. The respondent submitted that if the Commission allowed depreciation only on the basis of GERC (Terms and Conditions of Tariff) Regulations,2005 the respondent would face problems in repayment of the loan amount as the depreciation amount available is not sufficient to match the loan repayment. Due to this, the RoE will be reduced because they have to pay about 36 crores per annum as difference of loan repayment amount and depreciation amount received for repayment of loan. This will lead to reduction in the Return on Equity of the respondent. Hence, the Commission may allow Advance Against Depreciation over and above depreciation for matching with repayment of loan.

7.2.1 With regard to deviation, we are of the view that it is essential to consider the provisions of GERC (Terms and Conditions of Tariff)

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Regulations,2005 which states that the depreciation shall be calculated annually, based on straight line method over the useful life of the asset and at the rates prescribed by the Central Commission. The Central Electricity Regulatory Commission have revised the rate of depreciation in their Terms and Conditions of Tariff Regulations, 2009 and removed the provisions of advance against depreciation.

7.2.2In the present petition, the petitioner has submitted that they had approached the respondent for approval of the estimated capital cost and financing plan with Debt-Equity ratio of 75:25 for their project which was approved by the respondent. The petitioner and the respondent have executed an agreement on 1st October,2009 and both the parties have approached the Commission on 4th December,2009 by way of Petition No.1047/2010 for approval of the PPA. Thus, it is a fact that the aforesaid PPA was executed after 1st April,2009 i.e. the date of commencement of the CERC (Terms and Conditions of Tariff) Regulations,2009.

7.2.3The relevant clause 20(i)(a) & 20(i)(b) of the GERC (Terms & Conditions of Tariff) Regulations,2005 reads as under:

Depreciation, including Advance Against Depreciation

(a) ***Depreciation***

For the purpose of tariff, depreciation shall be computed in the following manner, namely:

(i) The value base for the purpose of depreciation shall be the historical cost of the asset;

(ii) *Depreciation shall be calculated annually, based on straight line method over the useful life of the asset and at the rates prescribed by the Central Commission.*

The residual life of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the historical capital cost of the asset. Land is not a depreciable asset and its cost shall be excluded from the capital cost while computing 90% of the historical cost of the asset. The historical capital cost of the asset shall include Additional Capitalisation on account of Foreign Exchange Rate Variation up to 31.3.2004 already allowed by the Central Government /Commission.

(iii) *On repayment of entire loan, the remaining depreciable value shall be spread over the balance useful life of the asset.*

(iv) *Depreciation shall be chargeable from the first year of operation. In case of operation of the asset for part of the year, depreciation shall be charged on pro rata basis.*

Further, where existing PPAs (including any changes, in the norms or parameters, made in the PPA following renegotiation between the Board and concerned generating company) lay down a different parameter of depreciation schedule, such a parameter shall continue to govern the parties for the term of the contract, but not for any renewal of the contract or any extension of the term of the contract in accordance with its terms. Upon the expiry of the term of the existing PPA (including any changes, in the norms or parameters, made in the PPA following renegotiation between the Board and concerned generating company), the parties shall be governed by the terms of the Regulations for the time being in force.

(b) ***Advance Against Depreciation***

In addition to allowable depreciation, the generating company shall be entitled to Advance Against Depreciation, computed in the manner given hereunder:

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AAD = Loan repayment amount as per regulation 20 (i) subject to a ceiling of 1/10th of loan amount as per regulation 19 minus depreciation as per schedule

Provided that Advance Against Depreciation shall be permitted only if the cumulative repayment up to a particular year exceeds the cumulative depreciation up to that year;

Provided further that Advance Against Depreciation in a year shall be restricted to the extent of difference between cumulative repayment and cumulative depreciation up to that year.

All efforts should be made for aligning the tenure of long term debt with permissible rate of depreciation to reduce front loading of tariff through various mechanisms including resort to take out finance to elongate debt repayment period. Accordingly, there will be no need for any advance against depreciation.

7.2.4Thus, the aforesaid clause provides that depreciation and advance against depreciation shall be calculated at the rate prescribed by the GERC/CERC as on the date of signing of the PPA i.e. 1st October,2009.

7.2.5The CERC (Terms & Conditions of Tariff) Regulations,2009 does not provide for Advance against depreciation. But on cogent reading of Regulation No.20(i)(a) & 20(i)(b) of GERC Regulations, it transpires that the respondent is entitled to receive the advance against depreciation as the PPA is covered under the GERC (Terms and Conditions of Tariff) Regulations,2005. Moreover, the depreciation amount is permitted to match the loan repayment. Hence, if the available amount of depreciation is less than the loan repayment, it will affect the return to the respondent. On the other hand, due to low equity the petitioner will be benefitted by lower levelised tariff which is

beneficial to the consumers. In view of the above, we allow the Advance against depreciation to the respondent to match the repayment of loan on actual basis as per the GERC (Terms and Conditions of Tariff) Regulations,2005.

7.3 We now, we deal with the issue regarding Technical parameters i.e. (i) Station Heat Rate, (ii) Plant Availability Factor and Plant Load Factor, (iii) Auxiliary Consumption, (iv) O&M Expenses and Water expenses, (v) Consumption of Lignite, (vi) Transit loss of lignite, etc. In this regard, the respondent submitted that the generating plant of the respondent comprises of 2 units of 125 MW Lignite based generating sets for which, no specific normative parameters are provided in the GERC (Terms and Conditions of Tariff) Regulations,2005. Moreover, the plant has adopted advanced environmental-friendly Circulating Fluidized Bed Combustion (CFBC) technology. The basic fuel, i.e. lignite and additive limestone are being supplied from the captive mines allocated to them by GMDC.

7.3.1 The respondent has submitted that they are already operating 2 units of 125 MW at the above site, which are working since February,2000.These plants are the first plants based on CFBC technology in the country. Based on the experience gained by them, it is found that the normative parameters like SHR, Auxiliary Consumption, Plant Availability Factors, Operation and Maintenance expenses and Normative PLF are not achievable during the first 3 years of operation of the plant as the stabilization of the units takes such a period. The actual values of the parameters of the plant such as PLF,

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Plant Availability, Auxiliary Consumption, O&M expenses and water expenses charges paid etc. are mentioned below:

Table 1

Details of generation, PLF, PAF, Auxiliary Consumption of GIPCL Unit No 1 and 2

YEAR	Generation (MU)	PLF (%)	Availability (%)	Auxiliary Power Consumption (%)
2000-01	1302.405	59.47	65.69	12.62
2001-02	1453.876	66.39	73.71	12.49
2002-03	1599.443	73.03	75.86	12.14
2003-04	1653.965	75.32	79.15	11.99
2004-05	1804.347	82.39	84.98	11.37
2005-06	1874.134	85.58	87.97	11.14
2006-07	1751.935	80.00	83.14	11.18
2007-08	1878.541	85.54	87.76	11.30
2008-09	1747.47	79.8	81.68	11.50
2009-10	1826.75	83.4	87.37	11.66

Table 2

Statement showing Actual O & M Expenditure incurred for 2 x125 MW SLPP (As per Audited Books of Accounts) (Rs. In lacs)

Financial Year	Stores & Spares	Repairs & Maint & other Operational Exp	Employee Cost	General Exp	Total O & M Expenses	O & M Exp. Per MW
2009-10	1761	2333	1212	556	5862	23.4
2008-09	1734	2325	954	358	5372	21.5
2007-08	1324	2121	963	349	4757	19.0
2006-07	1166	1318.74	869	816	4169	16.7
2005-06	609	1283	602	749	3242	13.0

Table 3

Statement showing Actual O & M Expenditure incurred for 2 x125 MW SLPP (As per Audited Books of Accounts) (Rs. In lacs)

Financial Year	Stores & Spares	Repairs & Maint & other Operational Exp	Employee Cost	General Exp	Total O & M Expenses	O & M Exp. Per MW
2009-10	1761	2333	1212	556	5862	23.4
2008-09	1734	2325	954	358	5372	21.5
2007-08	1324	2121	963	349	4757	19.0
2006-07	1166	1318.74	869	816	4169	16.7
2005-06	609	1283	602	749	3242	13.0

Table 4

HIKE IN WATER CHARGES AFTER COMMISSIONING OF SLPP Phase-I (Unit-1 & 2) 2x125 MW Plant

Sr.	Description	Rate (Rs.) Per M^3		
	Water charges for the period	Fixed Water Charges	Normal Water Charges	Total Water Charges
1	April, 1997 to March 1998	0.75	2.50	3.25
2	April, 1998 to March 1999	0.75	2.75	3.50
3	April, 1999 to March 2000	0.75	3.03	3.78
4	April, 2000 to March 2001	0.75	3.33	4.08
5	April, 2001 to March 2002	0.75	3.66	4.41
6	April, 2002 to March 2003	0.75	4.03	4.78
7	April, 2003 to March 2004	0.75	4.43	5.18
8	April, 2004 to March 2005	0.75	4.87	5.62
9	April, 2005 to March 2006	0.75	5.36	6.11
10	April, 2006 to December 2006	0.75	5.9	6.65
11	January, 2007 to March 2007	0	8	8.00
12	April, 2007 to March 2008	0	9	9.00
13	April, 2008 to March 2009	0	10	10.00
14	April, 2009 to March 2010	0	11	11.00
15	April, 2010 onwards	0	12.10	12.10

Note :- (i) As per the latest Resolution of Govt. of Gujarat, henceforth annual rate of increase shall be 10%.
(ii) M^3 Means Cubic meter

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Table 5

Details of Water Consumption

Year	Water Consumption In M^3	Rate per M^3	Water Consumption M^3/MU
2005-06	4269338	6.11	2278.03241
2006-07	4135183	8.00	2360.35184
2007-08	4368720	9.00	2325.59204
2008-09	4100574	10.00	2346.57762
2009-10	4155597	11.00	2274.85808

7.3.2The respondent submitted that the CFBC boiler takes longer time for stabilization in comparison to Pulverized Fuel (PF) boilers. It takes about 3 years to achieve availability factor of about 75%. Moreover, during the initial 180 days period, auxiliary consumption and secondary oil consumption are higher. Hence, they have requested the Commission to relax normative availability, auxiliary consumption and secondary oil consumption for the initial period of 180 days. Moreover, clause 15(v) of the Terms and Conditions of Tariff Regulations provide that target availability for recovery of capacity charge is 80%. The plant that the respondent is using has low calorific value of fuel with high sulphur and moisture content. The start up/shut down time, restricted access and approach for maintenance activity, major refractory application, refractory dry out process and metals spray coating in the combustor affect the boiler availability and in turn total availability. Hence, for the initial 3 years, the normal plant availability may have to be on the lower side.

7.3.3Due to higher quantity of refractory application in the boiler, the start up and shut down time are higher. Further, for initiating the maintenance activities inside the combustor, it takes more than 24 hours after tripping of units which affects total availability of units. The CFBC boilers are subjected to high rate of erosion in combustor because of high circulation rate of abrasive bed material inside the combustor. To protect the combustor tube from erosion in the transition area, metal spray coating is required which takes additional 2-3 days' time after completing the annual overhauling. Moreover, after metal spray, another 2 days' time is required to be allowed for setting up metal spray. Based on the above, the respondent requested to allow normative availability factor at 65%, 70% and 75% respectively for the first 3 years after the commercial operation date of the plant and thereafter the same may be kept at 80% availability till the useful plant life.

7.3.4The petitioner submitted that the mechanism for payment and adjustment of fixed cost and incentive/disincentive recommended by CERC will affect the procurer heavily, especially when the power plant is not operating upto the targeted PLF. The respondent's project has been commissioned in April,2010 but they are unable to achieve targeted PLF level till date. The cumulative targeted PLF for the period of April,2010 to October,2010 is 32.54%. In such a situation, the procurer would be required to pay 50% of the normative fixed cost irrespective of availability of the plant. Similarly, if the plant performance is higher than the normative availability the rate of incentive works out to be much higher than the rate of incentive as per the Commission's Regulations. Hence, the PLF and incentive should

be allowed as per the Commission's Regulations. The concession for target availability factor for the first 3 years is not permissible as per the GERC/CERC Regulations. The stabilization period of 3 years sought by the respondent may not be allowed. In the PPA, no stabilization period has been agreed. Hence, the same may not be allowed.

7.3.5 With regard to above issue, we have considered the submission made by the parties. The respondent has advanced various reasons for allowing 3 years' period for stabilization of the plant and relaxed norms on the basis of the guaranteed parameters given by OEM i.e. BHEL. In support of the argument, the respondent relied upon the performance of Unit No.1 and 2 of their units, which are also CFBC based technology projects. We find that the respondent has substantiated his claim based on the data relating to their similar plants. It is also true that the Commission has not specified normative parameters for CFBC based technology of lignite based power plant of 125 MW. Moreover, the CERC Regulations have also not specified the same. In the absence of specific and reliable data, the data which are produced by the respondent for their existing plants seem to be relevant and the same is required to be taken into consideration. Based on the above data as stated in table 1of para 7.3.1 above, it appears that the plant is unable to achieve Plant Availability Factor, Plant Load Factor and other parameters as per the guaranteed parameters by the OEM. We, therefore, allow 3 years' period for stabilization of the plant. We also clarify that benefit of higher efficiency, if any, achieved by the respondent should be passed on to the petitioner (procurer) upto

normative parameters as envisaged in the Regulations of the Commission.

7.3.6The respondent has requested to allow Plant Availability Factor as 65%, 70% and 75% for the initial 3 years which is objected to by the petitioner. We find that there is force in the argument of the respondent that the CFBC based plant requires some more time for stabilization which is substantiated by the experience gained by them from their existing plant. Hence, such extra time needs to be allowed to the respondent. Otherwise the respondent will be unable to recover full fixed cost. However, the respondent is expected to improve the performance of the new units on the basis of experience gained during the operation of existing units. Moreover, the poor performance of old units cannot be allowed to form the basis for performance of new units. The CERC have in their Regulations allowed 75% as the Plant Availability Factor for initial 3 years. In the absence of operating experience of any other plant of similar technology and size, we decide to agree with the CERC regulation and decide to allow full recovery of fixed cost at 75% availability during the first 3 years. Similarly, the Plant Load Factor is to be allowed at 75% during the first three years after the commercial operation date of the plant. However, if the respondent achieves better plant load factor during any of the above years, it is not entitled to receive incentive upto 80% of PLF for the initial 3 years after commercial operation date. From the 4th year onwards, during the tenure of the PPA, the respondent shall be required to achieve PAF of 80% for full fixed cost recovery and the incentive shall be available only above 80% of PLF after 3 years.

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7.4 The respondent have submitted that the guaranteed Gross Station Heat Rate offered by BHEL, which is the Original Equipment Manufacturer is 2300 Kcal/kWh. The lignite which is being utilized in the plant has moisture, sulphur and ash content at higher levels, which affects the SHR of the plant. The guaranteed heat rate offered by the OEM is based on ideal conditions whereas the actual machine heat rate varies on the actual operating condition. It is necessary to apply correction factors in actual operating parameters. Hence, to take care of actual operating conditions, an operating margin of 6 to 7% over the guaranteed heat rate is required to determine the gross Station Heat Rate. In the respondent's existing plant during the performance guarantee test, it was found that the turbine heat rate was 2074.747 Kcal/kWh at boiler efficiency of 79.41%.Based on these, the weighted heat rate of unit No.1 works out to 2074.747/ 0.7941 = 2612.7 Kcal/kWh which does not provide any operational margin. Based on the above, the respondent has requested to allow gross station heat rate at 1.07 x 2300 Kcal/kwh which works out to 2461.

7.4.1In response to the submission made by the respondent, the petitioner replied that the respondent agreed for GERC/ CERC norms in the PPA and applicable heat rate of 2300 kcal/kWh excluding moisture correction. Therefore, the Commission may not allow higher SHR than agreed in the PPA.

7.4.2We observed in the PPA that both the parties agreed to the gross Station Heat Rate of the plant at 2300 Kcal/kWh. The respondent has advanced various reasons for higher SHR as stated in para 7.18 above. The gross SHR is guaranteed by the OEM in ideal condition. The lignite which is used as fuel is having higher moisture content which

affect the SHR of the plant. According to the respondent, the lignite received by them is having about 50% moisture. The correction factor is allowed in the SHR for considering local condition of the plant. In the present case, the plant is new. Hence, the correction factor which is considered by CEA and CERC for such plants is required to be considered. According to CEA recommendation in the technical study done by them for other power plants of the State of Gujarat, they have recommended a correction factor as **7%** of the design Station Heat Rate for allowing SHR. The CERC has also allowed correction factor of 10% for the lignite having 50% moisture and 7% for the lignite having 40% moisture in the CERC (Terms & Conditions of Tariff) Regulations,2009. The respondent has not submitted performance guarantee test, which reflects the actual SHR achieved during the Performance Guarantee Test. In the absence of the same, we allow SHR as proposed by the respondent as per the CEA recommendation and CERC (Terms and Conditions of Tariff) Regulations,2009. We, therefore, allow gross Station Heat Rate as 1.07 x 2300 Kcal/kWh. We direct the respondent that they should submit the performance guarantee test report as and when it is carried out as reference value.

7.5 With regard to Auxiliary consumption, the respondent submitted that the auxiliary consumption of CFBC based lignite power plant is higher in comparison to clause 15 (v) of the GERC (Terms and Conditions of Tariff) Regulations,2005. The said Regulations pertain to 200 MW power plant. The guaranteed auxiliary consumption offered by the OEM is 10.95% taking into account the continuous running of the unit at full load. It is necessary to consider that start up and shut down time in such type of boilers is very high and all rotary equipments have to

run during start up and shut down of the units. Moreover, huge refractory applications and their heating/cooling requirement leads to increase in actual auxiliary consumption beyond the guaranteed parameters. The actual auxiliary consumption vary by about 5% over the guaranteed auxiliary power consumption due to operation of the plant in various conditions. Hence, the Commission may allow auxiliary consumption at 11.5% after stabilization of the plant.

7.5.1 The petitioner has submitted that the respondent has requested for Auxiliary consumption of 12.5% for the first 3 years and 11.5% thereafter. However, the CERC norms applicable to the petitioner project are 10.5% for CFBC based power generators. Hence, the auxiliary consumption may not be allowed higher than the agreed terms of the PPA.

7.5.2 The guaranteed Auxiliary Consumption as per the OEM BHEL is 10.95%. As stated in earlier para, the CFBC plant requires about 3 years for stabilization of the plant. During the above period, the plant is operated with lower efficiency, PLF, PAF, which lead higher percentage of consumption of auxiliary unit equipments in comparison to normative generation.

7.5.3 Moreover, auxiliary consumption is based on ideal running of the plant on full load. It is found that the plant might be operating in various conditions which consist of fluctuation in the load patterns which may lead to variation in the power generation. Moreover, there are at times unexpected trippings etc. which may require start-up of the plant frequently. The above situation would lead to higher auxiliary consumption because the auxiliary equipments are required to be operated as and when the plant is operated either in full load or at

partial load. We, therefore, allow some flexibility in auxiliary consumption as it is a genuine requirement. However, if the auxiliary consumption is lower than the norms set out above, say upto 11.5%, the benefit of it shall be passed on to the petitioner (procurer). Based on the above observations, we decide to allow auxiliary consumption at 12.5% for the initial 3 years after commercial operation date of the plant. Thereafter from the 4th year onwards the same shall be 11.5%.

7.6 The respondent submitted that Clause 20(iv) of the GERC (Terms and Conditions of Tariff) Regulations,2005 specifies O&M expenses for 200 MW coal based power station and that is upto financial year 2008-09. The Commission has not specified O&M expenses for 125 MW set for lignite based power plant having CFBC technology. In CFBC technology, because of high corrosion and erosion in the boiler mainly due to abrasive bed material, high sulphur content and pressure of chloride in the fuel, the operation and maintenance requirement is much higher in comparison to Pulverized Fuel boiler. Moreover, the ash handling requires 100% in dry form, which consist of higher sulphur. The above facts increase the O&M expenses above the normative O&M expenses provided in the GERC (Terms and Conditions of Tariff) Regulations,2005. The ceiling value of 2.5% of the project cost allowed as spares and spare requirement is quite low in comparison to actual spares required in the O&M activities. The respondent's unit No.1 and 2 plants are operating since year 2000-01. Based on the audited books of accounts, the O&M expenses for the year 2005-06 to 2009-10 are given in table No.2 & 3 of para 7.3.1 above. It is seen that in the year 2009-10, the O&M expenses per MW work out to Rs.23.4 lakhs per MW. The respondent has also submitted that considering the

Wholesale Price Index (WPI) and Consumer Price Index (CPI) index the escalation provided in the GERC (Terms and Conditions of Tariff) Regulations,2005 as 5% is quite low. Hence, the Commission is requested to allow O&M expenses as Rs.24 lakhs/MW/year for the year 2009-10 and same be escalated @ 5.72% from that year.

7.6.1 The respondent further submitted that the State Government has increased the water charges @ 10% every year since last few years. In the last 10 years, the water charges increased by about 300%. The State Government has decided to increase the same @ 10% every year. Such increase in the water charges and escalation on it will reflect in the O&M cost. Hence, the respondent has requested that the O&M charges be allowed without considering the water charges and the same may be escalated on year to year basis while water charges are allowed separately on actual basis as a reimbursement.

7.6.2 The petitioner submitted that the respondent agreed in the PPA for O&M expenses @ 20 lakhs /MW/year for the year 2009-2010 and the same be escalated as per the prevailing Terms and Conditions of the Tariff norms of the GERC/ CERC. As the respondent agreed for lower amount of O&M expenses in comparison to CERC norms, the Commission may not allow higher O&M expenses as demanded by the petitioner.

7.6.3 In the PPA, it is already agreed that the actual rate of water charges shall be admitted by the procurer keeping the quantum of water on consumption/kWh basis. Thus, there is no need for allowing water charges separately on actual basis as requested by the respondent.

7.6.4 With regard to O&M expenses and water charges, we observe that the O&M cost demanded by the respondent is 24 lakhs /MW/year for the

year 2009-10 and the same is proposed to be escalated @ 5.72% p.a. It is clarified that the Terms and Conditions of Tariff Regulations notified by the Commission provides O&M cost as Rs.12.17 lakhs /MW/year for the FY 2008-09 for 200/210/250 MW Lignite power plant. The respondent in support of their claim represented that O&M cost be allowed as Rs.24 lakhs based on the amount they incurred on it for the unit 1 which they are operating presently. The CERC (Terms & Conditions of Tariff) Regulations,2009 provide the O&M expenses as Rs.24.00 lakhs for FY 2009-10, Rs.25.37 lakhs for 2010-11, Rs.26.82 lakhs for FY 2011-12, Rs.28.36 lakhs for 2012-13 and Rs.29.98 lakhs for FY 2013-14. However, the respondent have in the PPA agreed O&M charges @ Rs.20 lakhs/MW/year for the year 2009 to be escalated for the subsequent years as per the prevailing GERC/CERC Tariff norms. Hence, we decide that both the parties have consciously decided Rs.20 lakhs/MW/year as O&M cost for the year 2009-10 which is approved as O&M cost for the FY 2009-10 and the same to be escalated at the rate as per the Terms and Conditions of Tariff Regulations of the Commission at the relevant time.

7.6.5Clause 5.2 of Schedule 5 of the PPA provides that if the water charges actually incurred by the seller are higher than that considered by the Commission, the differential amount shall be reimbursed by the procurer keeping in view the quantum of water consumption per KWh considered by the Commission. In this regard, we observe that reimbursement of water charges more than that approved by the Commission cannot be accepted. The O&M charges consist of water charges also. If the procurers wishes to coimpensate the seller for increase in water charges, it has to first identify the component of water

charge included in O&M cost approved above. The change in rate of water charges can be given effect to this component and the balance O&M charge shall be subjected to approved escalation rate.

7.7 The respondent submitted that the CFBC technology adopted by them is eco-friendly and help reduction in S_{ox} and N_{ox} emission. In CFBC technology, limestone is used as an additive with lignite to absorb the sulphur oxide generated. The quantum of limestone to be added will depends on the content of sulphur in the lignite. The lignite being used at the respondent's site is having sulphur content of upto 2% and a moisture content of 52%. The limestone available from the respondent's captive mine is of poor quality, which consist of Calcium oxide content in the range of 39-45%. Based on these, the OEM BHEL recommended limestone consumption of 0.2 to 0.4 kg/kWh. The respondent at their unit No.1 found that the consumption of limestone is about 0.150 Kg per kWh. Based on the above, the respondent has requested to allow limestone consumption as 0.150 kg/kWh.

7.7.1 The petitioner submitted that respondent has sought to allow limestone consumption of 0.150 Kg/KWh, which is not in consonance with the provisions of the GERC (Terms and Conditions of Tariff) Regulations,2005. Moreover, CERC Regulations specify the limestone consumption of 0.056 Kg/KWh for Barshingsar and 0.046 Kg/kWh for its expansion project. The respondent has already agreed in the PPA to accept CERC norms. Hence, the limestone consumption may be allowed as per the CERC norms.

7.7.2 We observe that the respondent has claimed limestone consumption of 0.150 Kg/kWh. It is submitted that as per OEM, it is recommended at 0.2 to 0.4 kg/kWh which is higher than the proposed claim by the

respondent. The respondent has claimed the same based on their experience in their unit No.1 plants. The CERC has in its Terms and Conditions of Tariff Regulations for Barsingsar plant, decided limestone consumption as 0.056 Kg/kWh and 0.046 Kg/kWh for its expansion unit-II. In the present regulations of GERC, there is no provision made for limestone consumption. As the respondent is having its own plant running since the last 10 years, the proposed limestone consumption by them seems to be realistic as the requirement of the same depends on quality of the lignite and limestone utilized in the plant. Based on the above, we approve that the limestone consumption as 0.150 kg/kWh.

7.8 The respondent submitted that the regulation 21(iv) of the GERC (Terms and Conditions of Tariff) Regulations, 2005 provides for normative transit and handling losses as percentage of quantity of coal at 0.3% for pit head generating stations. Hence, the Commission may allow the transit loss as 0.3% for the project by replacing the word coal by coal/lignite and allow transit loss for the respondent power plant.

7.8.1 The petitioner submitted that the procurer (petitioner) is currently allowing transit loss in the computation of the lignite price as lignite price is being worked out at the power station end and transportation loss between mine and power station is being loaded to the cost of lignite. If any separate transit loss is admitted, then the lignite price mechanism will have to be revised to that extent.

7.8.2 We observe that the respondent has claimed transit loss on lignite, in line with that allowed for coal in the GERC (Terms and Conditions of Tariff) Regulations,2005. The petitioner has submitted that they are paying the fuel charges computed at the power station end which

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includes the transit loss of fuel which is not disputed by the respondent. Consequently, the respondent is not eligible to get transit loss in addition to the above payment.

[8] In addition to the above, some other discrepancies observed by the Commission are listed in Annexure-I. The PPA is required to be amended to resolve these discrepancies.

[9] Both the petitioner and the respondent are directed to make necessary amendments to the PPA as decided by the Commission in the above paras and file the revised PPA duly signed by both the parties ensuring that the deviations as approved and directives given in this order are duly complied for the record of the Commission.

[10] The Commission notes that the Power Station set up by the respondent has started commercial operations from April,2010. However, the respondent has not so far filed the petition for approval of capital cost and tariff determination. The respondent is directed to file the petitions for approval of capital cost and Multi-Year Tariff determination without any delay.

[11] We order accordingly.

[12] With this order, the petition stands as disposed of.

Sd/-	Sd/-	Sd/-
[Dr.P.K.MISHRA]	[PRAVINBHAI PATEL]	[Dr.M.K.IYER]
CHAIRMAN	MEMBER(T)	MEMBER(F)

Place: Ahmedabad
Date: 19/04/2011

ANNEXURE - I

Statement for Direction of GERC to ammend the various clauses of PPA in Petition No 1047/2010

Sr. No	Clause	GERC Decision
1.	**PREAMBLE - 2 (A) and 2 (B):** A. The Procurer intends to procure generation capacity and purchase electricity in bulk. B. The Seller has offered the generation capacity of its Gas Based Combined Cycle Power Plant at Hazira in aggregate of 351 MW and sale and supply of electricity in bulk there from to the Procurer;	In the preamble to the PPA, there is a reference to "Generation Capacity" offered by the seller while the provision of the PPA refers to "Installed Capacity" or "Contracted Capacity" at various places. Only "Installed Capacity" is defined in the PPA. Hence "Contracted Capacity" is required to be defined and added in the PPA.
2.	**Article 1 – DEFINITION** **Article 9.1.1** **Schedule 4.4.1** **Applicable ABT Regulations** **Pg. No. 1** means, Intra State ABT Regulations for Gujarat State	The Commission had issued Intra-State ABT Order" NOT Intra-State Regulations. Hence Regulations word should be substituted by the words Order in the relevant clauses of the PPA.
3.	**Article 1 - DEFINITION** **Article** **1.Definition of "Appropriate Commission"** **2. Definition of "Capital Cost";** **3. Definition of "GERC/CERC Norms";** **4. Definition of "Electricity Laws"** **5. Definition of Unscheduled Interchange";** **6. Articles Cl. No. 7.10.2; 9.1.1; and 13.2.1;** **7. Schld-I-Sr. no.1;** **Schedule-V cl. No. 5.2.1.2 (ii); 5.3 and 5.6;**	Both the parties, i.e. the petitioner and the respondent are state entities and the proposed transaction is an intra-state transaction. As such, the PPA is fully within jurisdiction of the State Commission, viz. GERC. Hence the word CERC has no relevance. Therefore the word CERC is to be deleted from these clauses of the PPA. Schedule "5.6" is to be substituted by the numerical numbers "5.4" If clause 5.6 sentence *"If the same is not decided by GERC and is available in CERC Tariff norms then as per CERC Tariff norms"* are to be deleted.

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Sr. No	Clause	GERC Decision
4.	**Article 1 - DEFINITION** **Lender** means the banks, other financial institutions, RBI registered non banking financial companies, mutual funds and agents or trustees of debenture / bond holders, including their successors and assignees, who have agreed as at Financial Close to provide the Seller with the debt financing described in the Capital Structure Schedule, and any successor banks or financial institutions to whom their interests under the Financing Agreements may be transferred or assigned: Provided that, such assignment or transfer shall not relieve the Seller of its obligations to the Procurer under this Agreement in any manner;	Following sentence should be added at the end of existing sentence at the end of the definition of Lender ***"and shall also not lead to an increase in the liability of the Procurers;"*** and amendment make in the PPA.
5.	**Article 1 - DEFINITION** **Total Debt Amount:** **Clause (a) the .....according to the capital structure schedule**	Words "as approved by the Commission" should be added at the end of this Clause.
6.	**Article 4 - DEVELOPMENT OF THE PROJECT** Cl. 4.5.1 (c) "a Unit, or the Power Station cannot be Commissioned by its Scheduled Commercial Operations Date due to delay caused by relevant authority and situations beyond the control of the Seller, for the clearances to be obtained by the Seller as per Schedule 1, ***whereby, delay needs to be justified by the Seller***".	Following sentence should be added at the end of existing sentence of the present clause. ***"Whereby delay needs to be justified by the Seller."***
7.	**Article 5 - CONSTRUCTION** **5.3.1 Information regarding interconnection facilities**	The title of the article needs to be changed as **"Establishment of Information regarding interconnection facilities".**

Sr. No	Clause	GERC Decision
8.	**Article 1 - DEFINITION** **Final Test Certificate** **Article 6 - SYNCHRONISATION, COMMISSIONING AND COMMERCIAL OPERATION** **Cl. 6.2 Commissioning** **Cl. 6.2.3, 6.2.5, 6.2.6 and 6.2.7.** ***Article 8.1.3, 8.1.6,8.1.8,8.2.1,8.2.2(i) and 8.2.3 of this Agreement***	In these clauses it is provided that Performance Guarantee (PG) Test will be carried out in the presence of STU representative or Independent Engineer. The PG test is a critical, crucial and important test of power plant. STU representative might not be competent to carry out such test. As such words "STU representative or" should be added from these clauses of the PPA.
9.	**Article 10 – INSURANCE** **10.7 Application of the insurance Proceeds** The proceeds of any insurance claim made due to loss or damage to the Project or any part of the Project shall be first applied to reinstatement, replacement or renewal of such loss or damage.	Following sentences should be added in the above clauses of PPA at end of existing sentence of the clause. ***If a Natural Force Majeure Event renders the Project no longer economically and technically viable and the insurers under the Insurances make payment on a "total loss" or equivalent basis, the Procurer(s) shall have no claim on such proceeds of such Insurance.***
10.	**Article 11 - BILLING AND PAYMENT** **Cl. 11.10.2.1 Letter Of Credit** **Costs and Fees** All the reasonable Bank Charges, fees commissions including all taxes and levies and reimbursement charges, if any, relating to a drawing on the L/C and extensions thereof, shall be borne by seller.	*The Clause should be amended as follows, in line with the model PPA:* *All costs relating to opening and maintenance of the Letter of Credit shall be borne by the Procurers; however, Letter of Credit negotiation charges shall be borne and paid by the Seller."*
11.	**Article 18 – MISCELLANEOUS PROVISIONS** **Cl. 18.1 Amendment**	Following sentence should be added at end of existing sentence of the clause and amend the PPA accordingly. ***"with necessary approval from the GERC."***
12.	**Article 18 – MISCELLANEOUS PROVISIONS**	Following sentence should be added at end of existing sentence of the clause and amend the

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Sr. No	Clause	GERC Decision
	Cl. 18.10 **Severability:** The invalidity or enforceability, for any reason, of any part of this Agreement shall not prejudice or affect the validity or enforceability or the remainder.	PPA accordingly. *"of this Agreement, unless the part held invalid or unenforceable is fundamental to this Agreement".*
13.	**Schedule 5 – TARIFF** **5.1.3 Monthly Tariff Payment(s)** ……If the same is not decided by GERC and is available in CERC Tariff norms then as per CERC Tariff norms……	This sentence should be deleted.
14.	**Schedule 5.2.2** …..If the same rate of Water Charges actually incurred by the Seller, is higher than that considered by GERC, the differential rate shall be reimbursed by the Procurer, keeping the quantum of Water Consumption per kWh the same as considered by GERC. ***If the same is not decided by GERC and is available in CERC Tariff norms then as per CERC Tariff norms.***	The following sentence should be deleted. ***If the same is not decided by GERC and is available in CERC Tariff norms then as per CERC Tariff norms.***
15.	**Schedule 5 – TARIFF** **5.6 Unscheduled Interchange (UI) Charges:** Variation between scheduled generation and actual generation shall be accounted for through Unscheduled Interchange (UI) Charges as detailed in the GERC (Terms and Conditions of Tariff) Regulations as amended from time to time. ***If the same is***	The following sentence should be deleted. ***If the same is not decided by GERC and is available in CERC Tariff norms then as per CERC Tariff norms. The UI will be settled between the Seller and STU.*** The last sentence should be read as under: ***…The UI will be settled as per the Intra-state ABT order issued by the Commission from time to time.***

Sr. No.	Clause	GERC Decision
	not decided by GERC and is available in CERC Tariff norms then as per CERC Tariff norms. The UI will be settled between the Seller and STU.	

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POWER PURCHASE AGREEMENT

BETWEEN

GUJARAT ELECTRICITY BOARD

AND

GUJARAT INDUSTRIES POWER COMPANY LIMITED

FOR

250 MW SURAT LIGNITE POWER PROJECT

Vadodara 15/04/1997

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POWER PURCHASE AGREEMENT

BETWEEN

GUJARAT ELECTRICITY BOARD

AND

GUJARAT INDUSTRIES POWER COMPANY LIMITED

This Agreement (hereinafter referred to as "this Agreement") is entered into on the 15th day of the month of April in the year one thousand nine hundred ninety seven at Vadodara.

Between

GUJARAT ELECTRICITY BOARD

formed under Electricity (Supply) Act, 1948, having its Head Office at Sardar Patel Vidyut Bhavan, Race Course, Baroda 390 007 (hereinafter referred to as "Board" which expression shall mean and include its assigns and successors)

AND

GUJARAT INDUSTRIES POWER COMPANY LTD

incorporated under the Companies Act, 1956 and having its Registered Office at P.O. Petrolils, 391347 Distt. Baroda, Gujarat (hereinafter referred to as "GIPCL" which expression shall mean and include its assigns and successors)

AND WHEREAS GIPCL is a Company registered under the Companies Act 1956 (1 of 1956) and which has among its objects the establishment, operation and maintenance of generating stations

AND WHEREAS the Government of Gujarat, at its meeting held on 15th June 1994 at Gandhinagar, decided that the implementation of Mangrol Lignite based Power Plant (1x250 MW) be assigned to GIPCL alongwith the mining of lignite.

AND WHEREAS GIPCL has undertaken to build, own, operate and maintain the said Generating Station with a configuration of 2x125 MW Capacity as specified in detail in Schedule-I of this Agreement

AND WHEREAS the Board which is generating, transmitting, distributing and selling electricity in the State of Gujarat, intends to purchase electricity generated by GIPCL equivalent to such of the Capacity as specified hereinabove, less the Auxiliary Consumption.

NOW THEREFORE, in consideration of the premises, mutual agreements, covenants and conditions set forth in this Agreement, IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES AS FOLLOWS :

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ARTICLE 10

AMENDMENTS IN LAWS, TAXES AND CIRCUMSTANCES

10.1. If there is any change in Taxes or change in Laws applicable to either Party or changes in circumstances affecting either Party, which necessitates any amendment to this Agreement, each Party shall give the other prompt written notice and such written information as the other Party may reasonably require in order to assess the nature of change in question and its effect on the parties, alongwith the amendments proposed to be made in the Agreement.

Definition of Law : For the purpose of this Agreement, "law" means any act, rule, regulation, notification, order, policy, administrative guidelines, ruling or instruction having the force of Law enacted or issued by any competent legislature, Governmental Instrumentality or statutory authority in India.

Definition of Change in Law : For the purposes of this Agreement, "Change in Law" means

i) an enactment or issue of any new Law,

ii) any amendment, alteration, modification or repeal of any existing Law or

iii) any authoritative interpretation of any existing law issued by a competent court, tribunal, Governmental Instrumentality or legislature in India which is contrary to the existing accepted interpretation thereof, in each case coming into effect after the date of this Agreement, provision for which has not been made elsewhere in the Agreement

Explanation : In the event of contradictory interpretations by two equivalent authorities on the same subject, the interpretation of the authority having physical jurisdiction over the location of the Generating Station shall prevail

Delays : In the event of any Change in Law coming into force prior to the date of Commercial Operation of the Unit which causes any delay in completion of the Project, the Required Date of Commercial Operations of the Unit(s) shall be extended to the extent as may be reasonably necessary as compensation for such delay.

Additional facilities - Modifications : Where any change in law coming into force after the date of Entry into Commercial Service of the Unit(s) requires the construction of any additional facilities or modifications of any existing facility of the Project, GIPCL may incur such expenditure thereon as may be reasonably required to comply with such change in law and such expenditure shall be added to the Capital Cost subject to approval by the Authority, if required by applicable law.

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GIPCL shall give prior notice to the Board of the extent and cost of modifications required to comply with the legal obligations, and satisfy the Board about reasonableness thereof. the Board shall convey its consent or otherwise to the proposed modification within a period of 30 days. To the extent any such expenditure shall be funded with debt, the increase in the interest on debt and depreciation attributable thereto shall be reflected as an increase in the tariff payable by the Board and to the extent any such expenditure shall have been funded with Equity, the increase in the Return on Equity, Incentive and depreciation shall be reflected as increase in the Tariff payable by the Board.

10.2 RESOLUTION OF DISPUTES

If the Party in receipt of the proposed amendments does not agree to the same within 30 days of receiving the proposed amendments, either Party may, by serving notice on the other within 15 days after the expiry of the said 30 days, require that the matter should be referred to an independent person/agency mutually decided by the Parties hereto for determination within further period of 30 days from the date of receipt of the notice. Such independent person/agency shall decide upon the matter within a period of 60 days from the date of reference. Such decision shall be binding upon the parties.

Power Purchase Agreement

between

Gujarat Industries Power Company Limited

(The Seller)

and

Gujarat Urja Vikas Nigam Limited

(The Procurer)

IN RESPECT OF

2x125 MW SURAT LIGNITE POWER PROJECT (SLPP II)

AT & PO : Nani Naroli, Taluka: Mangrol, Dist: SURAT Pin: 394110

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Seller

GUJARAT INDUSTRIES POWER CO. LTD. P.O. PETROCHEMICALS VADODARA

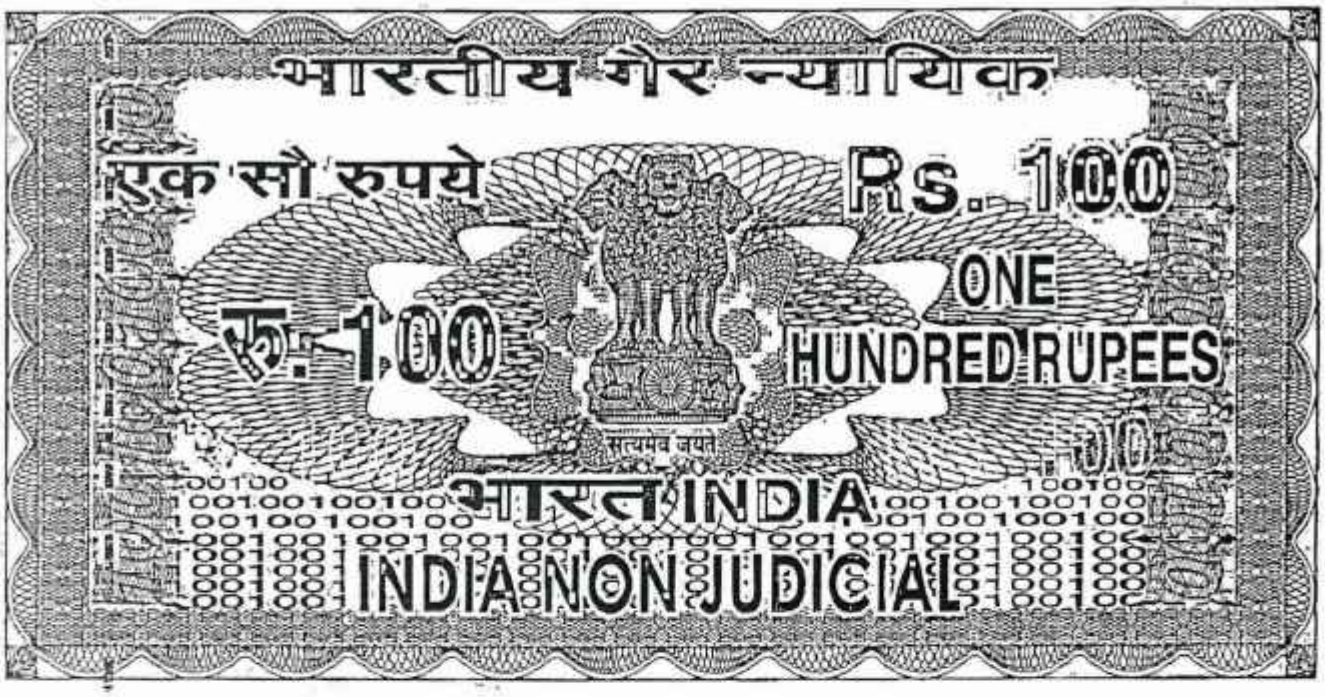
Procurer

GUJARAT URJA VIKAS NIGAM LIMITED VADODARA

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GUJARAT INDUSTRIES POWER CO. LTD. Seller P.O. PETROCHEMICALS VADODARA

Prod. GUJARAT URJA VIKAS NIGAM LIMITED VADODARA



ગુજરાત ગુજરાત GUJARAT

AE 754152

12 AUG 2013

અનુ. નં. 29727 તા. 9/8/2013 રૂ. 100/-
ખરીદનારનું નામ ગુજરાત ઈન્ડસ્ટ્રીઝ પાવર કં.લિ.
સરનામું પો. પેટ્રોકેમિકલ્સ, દાભોરા ગામપાસે. વાઘોડિયા
હસ્તે સહી
ધનશ્યામ હરીભાઇ પટેલ (સ્ટેમ્પ વેન્ડરની સહી)
૭, રોયલ પ્લાઝા, સંપતરાવ કોલોની, જેતલપુર રોડ,
અલકાપુરી, વડોદરા-૭ લા. નં. ૬૬/૯૦ તા. ૧૮/૦૪/૯૦

This Agreement is made on the 13th day of August, 2013

Between

(1) Gujarat Industries Power Company Limited ("GIPCL") having its registered office at P.O. Petrochemicals, Vadodara, 391 346, hereinafter called "Seller" which expressions unless repugnant to the context and meaning hereof shall include its successors and assigns

And

(2) Gujarat Urja Vikas Nigam Limited (GUVNL), having its registered office at Sardar Patel Vidyut Bhavan, Race Course, Vadodara, 390007 hereinafter called "Procurer" which expressions unless repugnant to the context and meaning hereof shall include its

GUJARAT INDUSTRIES POWER CO. LTD. Seller P.O. PETROCHEMICALS VADODARA

Procurer

GUJARAT URJA VIKAS NIGAM LIMITED VADODARA

successors and assigns

(Each of the "Procurer", and "Seller" are individually referred to as "Party" and collectively to as the "Parties")

Whereas:

A. The Procurer intends to procure generation capacity and purchase electricity in bulk.

B. The Seller has offered the Lignite Based generation capacity in aggregate of 250 MW installed at Mangrol, Surat and sale and supply of electricity in bulk there from to the Procurer;

C. The Seller being a State Government PSU, has been exempted from competitive bidding, as per the Government of India guidelines.

D. The Procurer has been authorised by the Distribution Licensees of the State viz. Madhya Gujarat Vij Co. Ltd. (MGVCL), Uttar Gujarat Vij Co. Ltd. (UGVCL), Dakshin Gujarat Vij Co. Ltd. (DGVCL) and Pashchim Gujarat Vij Co. Ltd. (PGVCL) to execute the PPA for Procurement of Power from the Seller. The Distribution Licensees also confer to the commitments given by the Procurer to the Seller and have agreed to be bound by the PPA and all decisions of the Procurer for the same

E. The Procurer and Seller have signed a Power Purchase Agreement on 1st October 2009, which was filed before the Gujarat Electricity Regulatory Commission (GERC) for Approval.

F. The GERC has directed the Procurer and the Seller to modify the above PPA vide their Order in petition no. 1047/2010 dated 19th April 2011 and order in Review Petition No. 1109/2011 dated 21st October 2011.

G. The Seller intends to sell the Lignite Based generation capacity and supply of electricity in bulk to the Procurer to the extent of 250 MW capacity in aggregate installed at Mangrol, Surat on the terms and conditions contained in this Power Purchase Agreement (PPA) (the Agreement);

H. Accordingly, the Parties have to sign this AMENDED PPA setting out the terms and conditions of the sale of generation capacity and supply of electricity in bulk by the Seller to the Procurer and incorporating the modifications as directed by the GERC and certain other modifications mutually agreed by the parties.

I. This Agreement would supercede the earlier Agreement signed on 1.10.2009 and any other correspondence in this regard till the date of signing of this agreement.

Now therefore, in consideration of the premises and mutual agreements, covenants and conditions set forth herein, it is hereby agreed by and between the Parties as follows:

Seller

GUJARAT INDUSTRIES POWER CO. LTD. P.D. PETROCHEMICALS VADODARA

Procurer

GUJARAT URJA VIKAS NIGAM LIMITED VADODARA

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ARTICLE 13

CHANGE IN LAW

13.1 Definitions

In this Article 13, the following terms shall have the following meanings:

13.1.1 "Change in Law" means the occurrence of any of the following after the date, which is seven (7) days prior to the signing of this Agreement:

i. the enactment, bringing into effect, adoption, promulgation, amendment, modification or repeal, of any statute, decree, ordinance or other law, regulation, notice, circular, code, rule or direction by any Governmental Instrumentality or a change in its interpretation by a Competent Court of law, tribunal, government or statutory authority or any of the above regulations, taxes, duties charges, levies, etc., or

ii. the imposition by any Governmental Instrumentality of any material condition in connection with the issuance, renewal, modification, revocation or non-renewal (other than for cause) of any Consent after the date of this Agreement.

that in either of the above cases results in any change with respect to any tax or surcharge or cess levied or similar charges by the Competent Government on the generation or sale of electricity;

but shall not include (i) any change in any withholding tax on income or dividends distributed to the shareholders of the Seller, or (ii) change in respect of UI Charges or frequency intervals by an Appropriate Commission.

13.1.2 "Competent Court" means:

the Supreme Court of India or any High Court, or any tribunal or any similar judicial or quasi-judicial body that has jurisdiction in relation to issues relating to the Project.

13.2 Tariff Adjustment Payment for Change in Law

13.2.1 If a Change in Law results in the Seller's revenue or costs directly attributable to the Project being decreased or increased by one percent (1%), on cumulative basis, of the estimated revenue from the Electricity for the Contract Year (calculated in that Contract Year and the energy corresponding to Normative Availability of the Installed Capacity) for which such adjustment becomes applicable or more, during Operation Period, the Tariff Payment to the Seller shall be proportionately increased or decreased.

GUJARAT INDUS POWER CO. LTD. P.O. PETROCHEMICALS VADODARA

GUJARAT URJA VIKAS NIGAM LIMITED VADODARA

7.10 Modifications

7.10.1 Seller shall be entitled to carry out any modification, at no cost to Procurer, to the Power Station if and only if :

(a) such modification does not contravene Prudent Utility Practices; ,

(b) such modification will not result in the Power Station being unable to operate within the Functional Specifications as set out in Schedule 2;

(c) such modification will not have an adverse effect upon the contracted levels of Availability; and

7.10.2 Notwithstanding the above, the Capital Cost shall be increased to include additional capitalization, as may be admitted by the Appropriate Commission, to account for the cost of modifications, if any, in accordance with Article 13 and shall include:

(i) Deferred liabilities;

(ii) Works deferred for execution;

(iii) Procurement of initial capital spares in the original scope of work, subject to ceiling specified by GERC;

(iv) Liabilities to meet award of arbitration or for compliance of the order or decree of a court; and

(v) On account of Change in Law.

[collectively "(Additional Capitalisation)]

7.10.3 Subject to the provisions of Article 7.10.4 hereunder, the Capital Cost of the following nature actually incurred after the Commercial Operations Date, as may be admitted by the Appropriate Commission shall also be considered as Additional Capitalization:

(i) Deferred liabilities relating to works/services within the original scope of work;

(ii) Liabilities to meet award of arbitration or for compliance of the order or decree of a court;

(iii) On account of change in law;

(iv) Any additional works/services which have become necessary for efficient and successful operation of the Unit or the Power Station, but not included in the original Capital Cost; and

(v) Deferred works relating to ash pond or ash handling system in the original scope of work.

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7.10.4 Any expenditure on minor items/assets like normal tools and tackles, personal computers, furniture, air-conditioners, voltage stabilizers, refrigerators, fans, coolers, TV, washing machines, heat-convectors, carpets, mattresses etc. brought after the Commercial Operations Date, shall not be considered for Additional Capitalization.

7.10.5 Any expenditure admitted on account of committed liabilities within the original scope of work and the expenditure deferred on techno-economic grounds but falling within the original scope of work shall be serviced in the debt-equity ratio approved by the Appropriate Commission.

Any expenditure on replacement of old assets shall be considered after writing off the gross value of the original assets from the Capital Cost, except such items as are listed in Article 7.10.4.

Any expenditure admitted by the Appropriate Commission for determination of tariff on account of new works not in the original scope of work shall be serviced in the debt-equity ratio approved by the Appropriate Commission.

Any expenditure admitted by the Appropriate Commission for determination of tariff on renovation and modernization and life extension beyond 25 years shall be serviced on debt-equity ratio approved by the Appropriate Commission, after writing off the original amount from the Capital Cost if any replacement of existing assets are involved.

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GUJARAT URJA VIKAS NIGAM LIMITED VADODARA

केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

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By Email

Date: 23.06.2022

B-33014/7/2021/IPC-II/TPP/

Minutes of the 5th and 6th Meetings of the Task Force for Categorization of Power Plants as per the Notification dated 31.03.2021 of Government of India issued to amend the earlier Notification dated 07.12.2015 regarding emission standards for coal-based power plants

Sir,

Minutes of the 5th and 6th Meetings of the Task Force for Categorization of Power Plants as per Notification dated 31.03.2021 of Government of India regarding emission standards for thermal power plants, held under the chairmanship of Member Secretary, CPCB on 22.03.2022 at 12:30 PM and 03.06.2022 at 03:00 PM through video conferencing, respectively, along with the updated categorization list of 600 power plant units, are enclosed for information and necessary action.

SPCBs/PCCs are requested to ensure compliance of the notification dated 31.03.2021 by thermal power plants in their States/UTs.

This updated categorization list is being uploaded on CPCB website for information of the power plants. CEA is also requested to circulate the above categorization list to concerned power plants.

Yours faithfully,

23/6/2022

[Nazimuddin]
Sc. F & DH-IPC-II

To,

Member Secretaries of SPCBs/PCCs,
(List enclosed)

Joint Secretary (Thermal),
Ministry of Power, Govt. of India

Director (CP Division),
Ministry of Environment, Forest and Climate Change, Govt. of India

Secretary, Central Electricity Authority

Copy to:

Chairman of the Task Force : for information.

Members of the Task Force : for information.

246	Gujarat	Bhavnagar Energy Company Ltd. (GSECL)	Bhavnagar Lignite TPP	1	250	C	None	None	
247	Gujarat	Bhavnagar Energy Company Ltd. (GSECL)	Bhavnagar Lignite TPP	2	250	C	None	None	Installed after 31.12.2016
248	Gujarat	Adani Power Ltd.	MUNDRA TPS	1	330	C	None	None	
249	Gujarat	Adani Power Ltd.	MUNDRA TPS	2	330	C	None	None	
250	Gujarat	Adani Power Ltd.	MUNDRA TPS	3	330	C	None	None	
251	Gujarat	Adani Power Ltd.	MUNDRA TPS	4	330	C	None	None	
252	Gujarat	Adani Power Ltd.	MUNDRA TPS	5	660	C	None	None	
253	Gujarat	Adani Power Ltd.	MUNDRA TPS	6	660	C	None	None	
254	Gujarat	Adani Power Ltd.	MUNDRA TPS	7	660	C	None	None	
255	Gujarat	Adani Power Ltd.	MUNDRA TPS	8	660	C	None	None	
256	Gujarat	Adani Power Ltd.	MUNDRA TPS	9	660	C	None	None	
257	Gujarat	Tata Power (CGPL)	MUNDRA UMTPP	1	800	C	None	None	
258	Gujarat	Tata Power (CGPL)	MUNDRA UMTPP	2	800	C	None	None	
259	Gujarat	Tata Power (CGPL)	MUNDRA UMTPP	3	800	C	None	None	
260	Gujarat	Tata Power (CGPL)	MUNDRA UMTPP	4	800	C	None	None	
261	Gujarat	Tata Power (CGPL)	MUNDRA UMTPP	5	800	C	None	None	
262	Gujarat	Essar Gujarat	SALAYA TPP	1	600	C	None	None	
263	Gujarat	Essar Gujarat	SALAYA TPP	2	600	C	None	None	
264	Gujarat	GIPCL	SURAT LIG. TPS	1	125	C	None	None	
265	Gujarat	GIPCL	SURAT LIG. TPS	2	125	C	None	None	
266	Gujarat	GIPCL	SURAT LIG. TPS	3	125	C	None	None	
267	Gujarat	GIPCL	SURAT LIG. TPS	4	125	C	None	None	
268	Haryana	HPGCL	RAJIV GANDHI TPS	1	600	C	None	None	
269	Haryana	HPGCL	RAJIV GANDHI TPS	2	600	C	None	None	
270	Haryana	HPGCL	YAMUNA NAGAR TPS	1	300	C	None	None	
271	Haryana	HPGCL	YAMUNA NAGAR TPS	2	300	C	None	None	
272	Jharkhand	D.V.C	BOKARO 'A' TPS	1	500	C	None	None	
273	Jharkhand	D.V.C	Chandrapura (DVC)	7	250	C	None	None	
274	Jharkhand	D.V.C	Chandrapura (DVC)	8	250	C	None	None	
275	Jharkhand	D.V.C	KODARMA TPP	1	500	C	None	None	
276	Jharkhand	D.V.C	KODARMA TPP	2	500	C	None	None	

585	West Bengal	WBPDCL	BAKRESWAR TPS	5	210	C	None	None	
586	West Bengal	WBPDCL	KOLAGHAT TPS	1	210	C	None	None	
587	West Bengal	WBPDCL	KOLAGHAT TPS	2	210	C	None	None	
588	West Bengal	WBPDCL	KOLAGHAT TPS	3	210	C	None	None	
589	West Bengal	WBPDCL	KOLAGHAT TPS	4	210	C	None	None	
590	West Bengal	WBPDCL	KOLAGHAT TPS	5	210	C	None	None	
591	West Bengal	WBPDCL	KOLAGHAT TPS	6	210	C	None	None	
592	West Bengal	WBPDCL	SAGARDIGHI TPS	1	300	C	None	None	
593	West Bengal	WBPDCL	SAGARDIGHI TPS	2	300	C	None	None	
594	West Bengal	WBPDCL	SAGARDIGHI TPS	3	500	C	None	None	
595	West Bengal	WBPDCL	SAGARDIGHI TPS	4	500	C	None	None	
596	West Bengal	WBPDCL	SANTALDIH TPS	5	250	C	None	None	
597	West Bengal	WBPDCL	SANTALDIH TPS	6	250	C	None	None	
598	West Bengal	CESC	BUDGE BUDGE TPS	1	250	C	None	None	
599	West Bengal	CESC	BUDGE BUDGE TPS	2	250	C	None	None	
600	West Bengal	CESC	BUDGE BUDGE TPS	3	250	C	None	None	

NCR: National Capital Region, MPC: Million Plus Cities, NAC: Non-Attainment Cities, CPA: Critically Polluted Areas.

Notes:

1. Aerial distances from power plant stack to the existing boundary of relevant NCR/Million-Plus City and Non-Attainment City/ Critically Polluted Area (CPA) have been considered for categorization.
2. Dates of installation of 65 units installed after 31.12.2016 have been considered as per information provided by CEA.

MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 7th December, 2015

S.O. 3305(E).— In exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:–

1. (1) These rules may be called the Environment (Protection) Amendment Rules, 2015.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Environment (Protection) Rules, 1986, in Schedule – I, -

(a) after serial number 5 and entries relating thereto, the following serial number and entries shall be inserted, namely:–

Sr. No.	Industry	Parameter	Standards
1	2	3	4
"5A.	Thermal Power Plant (Water consumption limit)	Water consumption	I. All plants with Once Through Cooling (OTC) shall install Cooling Tower (CT) and achieve specific water consumption upto maximum of 3.5m³/MWh within a period of two years from the date of publication of this notification. II. All existing CT-based plants reduce specific water consumption upto maximum of 3.5m³/MWh within a period of two years from the date of publication of this notification. III. New plants to be installed after 1st January, 2017 shall have to meet specific water consumption upto maximum of 2.5 m³/MWh and achieve zero waste water discharged";

(b) for serial number 25, and the entries related thereto, the following serial number and entries shall be substituted, namely:-

Sr. No.	Industry	Parameter	Standards
1	2	3	4
"25.	Thermal Power Plant	TPPs (units) installed before 31st December, 2003*	
		Particulate Matter	100 mg/Nm³
		Sulphur Dioxide (SO_2)	600 mg/Nm³ (Units Smaller than 500MW capacity units) 200 mg/Nm³ (for units having capacity of 500MW and above)
		Oxides of Nitrogen (NOx)	600 mg/Nm³
		Mercury (Hg)	0.03 mg/Nm³(for units having capacity of 500MW and above)
		TPPs (units) installed after 1st January,2003, upto 31st December, 2016*	
		Particulate Matter	50 mg/Nm³
		Sulphur Dioxide (SO_2)	600 mg/Nm³ (Units Smaller than 500MW capacity units) 200 mg/Nm³ (for units having capacity of 500MW and above)
		Oxides of Nitrogen (NOx)	300 mg/Nm³
		Mercury (Hg)	0.03 mg/Nm³
		TPPs (units) to be installed from 1st January, 2017**	
		Particulate Matter	30 mg/Nm³
		Sulphur Dioxide (SO_2)	100 mg/Nm³
		Oxides of Nitrogen (NOx)	100 mg/Nm³
		Mercury (Hg)	0.03 mg/Nm³

*TPPs (units) shall meet the limits within two years from date of publication of this notification.

**Includes all the TPPs (units) which have been accorded environmental clearance and are under

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टिप्पण : —मूल नियम भारत के राजपत्र, असाधारण, भाग II, खंड 3, उपखंड (ii) में सं. का.आ. 844(अ) 19 नवंबर, 1986 द्वारा प्रकाशित किए गए थे और उनका अंतिम संशोधन अधिसूचना सा.का.नि. 48 (अ), तारीख 24 जनवरी, 2020 द्वारा किया गया ।

MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 19th October, 2020

G.S.R. 662(E).—In exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:—

1. (1) These rules may be called the Environment (Protection) Amendment Rules, 2020.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Environment (Protection) Rules, 1986, in Schedule – I, -

against S. No. 25, under the heading "TPPs (units) installed after 1st January, 2003, upto 31st December, 2016", in respect of Oxides of Nitrogen (NOx), for figure and letters "300 mg/Nm^3" in column 4, the figure and letters "450 mg/Nm^3" shall be substituted.

[F. No. Q-15017/40/2007-CPW]

JIGMET TAKPA, Joint Secretary

Note : The principle rules were published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (i) *vide* number S.O. 844(E), dated the 19th November, 1986 and lastly amended *vide* notification G.S.R. 48(E), dated the 24th January, 2020.

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भारत का राजपत्र
The Gazette of India

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असाधारण
EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (i)
PART II—Section 3—Sub-section (i)

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं. 192] नई दिल्ली, बृहस्पतिवार, अप्रैल 1, 2021/चैत्र 11, 1943
No. 192] NEW DELHI, THURSDAY, APRIL 1, 2021/CHAITRA 11, 1943

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

अधिसूचना

नई दिल्ली, 31 मार्च, 2021

सा.का.नि. 243(अ).—केन्द्रीय सरकार, पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 3, धारा 6 और धारा 25 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, पर्यावरण (संरक्षण) नियम, 1986 का और संशोधन करने के लिए निम्नलिखित नियम बनाती है, अर्थात् :-

1. (1) इन नियमों का संक्षिप्त नाम पर्यावरण (संरक्षण) संशोधन नियम, 2021 है।

(2) ये नियम राजपत्र में प्रकाशन की तारीख को प्रवृत्त होंगे।

2. पर्यावरण (संरक्षण) नियम, 1986 की अनुसूची-1, के क्रम संख्यांक 25 में, "*टीपीपी (इकाईयां) इस अधिसूचना के प्रकाशन की तारीख से दो वर्ष के भीतर सीमाओं को पूरा करेंगी", अक्षरों, कोष्ठकों और शब्दों के स्थान पर, निम्नलिखित रखा जाएगा, अर्थात् :-

"*(i) पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, विद्युत मंत्रालय, केन्द्रीय विद्युत प्राधिकरण (सीईए) और केन्द्रीय प्रदूषण नियंत्रण बोर्ड के प्रतिनिधियों से मिलकर बने कार्य बल का गठन केन्द्रीय प्रदूषण नियंत्रण बोर्ड (सीपीसीबी) द्वारा सारणी-1 में यथाविनिर्दिष्ट तीन प्रवर्गों में सारणी-1 के स्तंभ (4) में यथाविनिर्दिष्ट समय सीमा के भीतर उत्सर्जन मानदंडों के अनुरुप होने के लिए उनकी अवस्थिति के आधार पर तापीय विद्युत संयत्रों के प्रवर्गीकरण हेतु किया जाएगा, अर्थात् :-

सारणी-1

क्र.सं.	प्रवर्ग	अवस्थिति/स्थान	अनुपालन के लिए समय सीमाएं	
			निवृत्त नहीं होने वाली इकाईयां	निवृत्त होने वाली इकाईयां
(1)	(2)	(3)	(4)	(5)
1	प्रवर्ग क	10 लाख से अधिक जनसंख्या वाले राष्ट्रीय राजधानी क्षेत्र या शहरों की 10 किलोमीटर की परिधि के भीतर 1	31 दिसम्बर, 2022 तक	31 दिसम्बर, 2022 तक
2	प्रवर्ग ख	गंभीर रूप से प्रदूषित क्षेत्रों या गैर प्राप्ति शहरों की 10 किलोमीटर की परिधि के भीतर 2	31 दिसम्बर, 2023 तक	31 दिसम्बर, 2025 तक
3	प्रवर्ग ग	प्रवर्ग क और ख में सम्मिलित से भिन्न	31 दिसम्बर, 2024 तक	31 दिसम्बर, 2025 तक

[1] भारत की 2011 की जनगणना के अनुसार।

[2] सीपीसीबी द्वारा यथापरिभाषित।

(ii) सारणी-1 के स्तंभ (5) में यथाविनिर्दिष्ट तारीख के पूर्व निवृत्त होने के लिए घोषित तापीय विद्युत संयंत्र से, उस स्थिति में जहां ऐसे संयंत्र उनके निवृत्त होने के आधार पर छूट के लिए सीपीसीबी और सीईए को एक प्रतिज्ञान प्रस्तुत करते हैं, विनिर्दिष्ट मानदंडों को पूर्ण करने की अपेक्षा नहीं की जाएगी:

परन्तु ऐसे संयंत्रों से, उस स्थिति में जहां उनका प्रचालन प्रतिज्ञान में यथाविनिर्दिष्ट तारीख से आगे जारी रहता है, जनित विद्युत के प्रति यूनिट पर 0.20 रुपए की दर से पर्यावरण प्रतिकर उद्ग्रहीत किया जाएगा;

(iii) निवृत्त नहीं होने वाले तापीय विद्युत संयंत्र से, सारणी-1 के स्तंभ (4) में यथाविनिर्दिष्ट तारीख के पश्चात्, सारणी-2 में विनिर्दिष्ट दरों के अनुसार पर्यावरण प्रतिकर उद्ग्रहीत किया जाएगा, अर्थात् :-

सारणी-2

समय-सीमा से आगे गैर अनुपालन प्रचालन	पर्यावरणीय प्रतिकर (रुपए प्रति यूनिट जनित विद्युत)		
	प्रवर्ग क	प्रवर्ग ख	प्रवर्ग ग
0-180 दिवस	0.10	0.07	0.05
181-365 दिवस	0.15	0.10	0.075
366 दिवस और अधिक	0.20	0.15	0.10"

[फा.सं. क्यू-15017/40/2007-सीपीडब्ल्यू]

नरेश पाल गंगवार, संयुक्त सचिव

टिप्पण: मूल नियम, भारत के राजपत्र, असाधारण, भाग II, खंड 3, उपखंड (i) में अधिसूचना संख्या का.आ. 844(अ), तारीख 19 नवम्बर, 1986 द्वारा प्रकाशित किए गए थे और उनका अंतिम संशोधन अधिसूचना संख्या सा.का.नि. 662(अ), तारीख 19 अक्तूबर, 2020 द्वारा किया गया।

MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 31st March, 2021

G.S.R. 243(E).—In exercise of the powers conferred by sections 3, 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:—

125

1. (1) These rules may be called the Environment (Protection) Amendment Rules, 2021.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Environment (Protection) Rules, 1986, in Schedule – I, in serial number 25 for letters, brackets and words "*TPPs (units) shall meet the limits within two years from date of publication of this notification", the following shall be substituted, namely: -

"* (i) A task force shall be constituted by Central Pollution Control Board (CPCB) comprising of representative from Ministry of Environment and Forest and Climate Change, Ministry of Power, Central Electricity Authority (CEA) and CPCB to categorise thermal power plants in three categories as specified in the Table-I on the basis of their location to comply with the emission norms within the time limit as specified in column (4) of the Table-I, namely: -

Table-I

Sl. No.	Category	Location/area	Timelines for compliance	
			Non retiring units	Retiring units
(1)	(2)	(3)	(4)	(5)
1	Category A	Within 10 km radius of National Capital Region or cities having million plus population[1].	Upto 31st December 2022	Upto 31st December 2022
2	Category B	Within 10 km radius of Critically Polluted Areas[2] or Non-attainment cities[2]	Upto 31st December 2023	Upto 31st December 2025
3	Category C	Other than those included in category A and B	Upto 31st December 2024	Upto 31st December 2025

[1] As per 2011 census of India.

[2] As defined by CPCB.

(ii) the thermal power plant declared to retire before the date as specified in column (5) of Table-I shall not be required to meet the specified norms in case such plants submit an undertaking to CPCB and CEA for exemption on ground of retirement of such plant:

Provided that such plants shall be levied environment compensation at the rate of rupees 0.20 per unit electricity generated in case their operation is continued beyond the date as specified in the Undertaking;

(iii) there shall be levied environment compensation on the non-retiring thermal power plant, after the date as specified in column (4) of Table-I, as per the rates specified in the Table-II, namely:-

Table-II

Non-Compliant operation beyond the Timeline	Environmental Compensation (Rs. per unit electricity generated)		
	Category A	Category B	Category C
0-180 days	0.10	0.07	0.05
181-365 days	0.15	0.10	0.075
366 days and beyond	0.20	0.15	0.10."

[F. No. Q-15017/40/2007-CPW]

NARESH PAL GANGAWAR, Jt. Secy.

Note: The principle rules were published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (i) vide number S.O. 844(E), dated the 19th November, 1986 and lastly amended vide notification G.S.R. 662(E), dated the 19th October, 2020.

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रजिस्ट्री सं. डी.एल.- 33004/99

REGD. No. D. L.-33004/99

भारत का राजपत्र
The Gazette of India

सी.जी.-डी.एल.-अ.-05092022-238614
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असाधारण
EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (i)
PART II—Section 3—Sub-section (i)

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं. 603] नई दिल्ली, सोमवार, सितम्बर 5, 2022/भाद्र 14, 1944
No. 603] NEW DELHI, MONDAY, SEPTEMBER 5, 2022/BHADRA 14, 1944

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

अधिसूचना

नई दिल्ली, 5 सितम्बर, 2022

सा.का.नि. 682(अ).—केन्द्रीय सरकार, पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 3, धारा 6 और धारा 25 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, पर्यावरण (संरक्षण) नियम, 1986 का और संशोधन करने के लिए निम्नलिखित नियम बनाती है, अर्थात् :-

1. (1) इन नियमों का संक्षिप्त नाम पर्यावरण (संरक्षण) दूसरा संशोधन नियम, 2022 है।

(2) ये राजपत्र में उनके प्रकाशन की तारीख को प्रवृत्त होंगे।

2. पर्यावरण (संरक्षण) नियम, 1986 की अनुसूची 1 के क्रम सं. 25 में, "(i) सारणी 1" के स्थान पर निम्नलिखित रखा जाएगा, अर्थात् :--

सारणी-1

क्रम सं.	प्रवर्ग	अवस्थान/क्षेत्र	अनुपालन के लिए समय-सीमा (निवृत्त न होने वाली इकाईयां)		अनुपालन से छूट के लिए इकाईयों को निवृत्त करने की अंतिम तारीख	
			SO_2 उत्सर्जन से भिन्न पैरामीटर	SO_2 उत्सर्जन	SO_2 उत्सर्जन से भिन्न पैरामीटर	SO_2 उत्सर्जन
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	प्रवर्ग क	राष्ट्रीय राजधानी क्षेत्र या 10 लाख से	31 दिसंबर,	31 दिसंबर,	31 दिसंबर,	

		अधिक जनसंख्या वाले शहरों[1] की दस किलोमीटर की परिधि के भीतर।	2022 तक	2024 तक	2022 तक	31 दिसंबर, 2027 तक
2.	प्रवर्ग ख	गंभीर रूप से प्रदूषित क्षेत्रों[2] की या गैर-प्राप्ति शहरों[2] की दस किलोमीटर के अर्धव्यास के भीतर	31 दिसंबर, 2023 तक	31 दिसंबर, 2025 तक	31 दिसंबर, 2025 तक	
3.	प्रवर्ग ग	प्रवर्ग क और ख में सम्मिलित से भिन्न	31 दिसंबर, 2024 तक	31 दिसंबर, 2026 तक	31 दिसंबर, 2025 तक	

1 भारत की 2011 की जनगणना के अनुसार

2 केन्द्रीय प्रदूषण नियंत्रण बोर्ड द्वारा यथा-परिभाषित।

3. "(ii)" के स्थान पर निम्नलिखित रखा जाएगा, अर्थात् :--

'(ii)(क) सारणी 1 के स्तंभ (6) में यथा-विनिर्दिष्ट तारीख से पूर्व निवृत होने के लिए घोषित तापीय विद्युत संयंत्र से, ऐसे संयंत्रों द्वारा केंद्रीय प्रदूषण नियंत्रण बोर्ड और केंद्रीय विद्युत प्राधिकरण को ऐसे संयंत्र द्वारा निवृत्त होने के आधार पर छूट के लिए वचनबंध प्रस्तुत करने की दशा में SO_2 उत्सर्जन से भिन्न पैरामीटर के लिए विनिर्दिष्ट मानकों को पूरा करने की अपेक्षा नहीं होगी:

परंतु ऐसे संयंत्रों पर सारणी 1 के स्तंभ (4) में यथा-विनिर्दिष्ट तारीख से उनके द्वारा वचनबंध में यथा-विनिर्दिष्ट तारीख से आगे जारी रहता है, उनके प्रचालन की दशा में जनित विद्युत की प्रति इकाई पर 0.40 रुपए की दर से पर्यावरण प्रतिकर उदग्रहित किया जाएगा;

(ii)(ख) सारणी 1 के स्तंभ (7) में यथा-विनिर्दिष्ट तारीख से पूर्व निवृत् होने के लिए घोषित तापीय विद्युत संयंत्र से, ऐसे संयंत्रों द्वारा केंद्रीय प्रदूषण नियंत्रण बोर्ड और केंद्रीय विद्युत प्राधिकरण को ऐसे संयंत्र द्वारा निवृत्त होने के आधार पर छूट के लिए वचनबंध प्रस्तुत करने की दशा में SO_2 उत्सर्जनों से भिन्न विनिर्दिष्ट मानकों को पूरा करने की अपेक्षा नहीं होगी:

परंतु ऐसे संयंत्रों पर सारणी 1 के स्तंभ (5) में यथा-विनिर्दिष्ट तारीख से उनके द्वारा वचनबंध में यथा विनिर्दिष्ट तारीख से आगे जारी रहता है, उनके प्रचालन की दशा में जनित विद्युत की प्रति इकाई पर 0.40 रुपए की दर से पर्यावरण प्रतिकर उदग्रहित किया जाएगा;'

4. "(iii)" के स्थान पर निम्नलिखित रखा जाएगा, अर्थात्:--

"(iii) सारणी 1 के स्तंभ (4) और स्तंभ (5) में यथा-विनिर्दिष्ट तारीख के पश्चात् निवृत्त न होने वाले तापीय विद्युत संयंत्रों पर सारणी-2 में विनिर्दिष्ट दरों के अनुसार, पर्यावरण प्रतिकर उदग्रहित किया जाएगा, अर्थात्:--

सारणी-2

समय-सीमा से आगे अननुपालन प्रचालन	पर्यावरण प्रतिकर (प्रति इकाई जनित विद्युत)
0-180 दिन	0.20
181-365 दिन	0.30
366 दिन और उससे आगे	0.40'

[फा. सं. क्यू-15017/40/2007-सीपीडब्ल्यू]

नरेश पाल गंगवार, अपर सचिव

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टिप्पण : मूल नियम, भारत के राजपत्र, असाधारण, भाग II, खंड 3, उपखंड (i) में संख्यांक का.आ. 844(अ), तारीख 19 नवंबर, 1986 द्वारा प्रकाशित किए गए थे और उनका अंतिम संशोधन अधिसूचना संख्यांक सा.का.नि. 143(अ), तारीख 22 फरवरी, 2022 द्वारा किया गया ।

MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 5th September, 2022

G.S.R. 682(E).—In exercise of the powers conferred by sections 3, 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:—

1. (1) These rules may be called the Environment (Protection) Second Amendment Rules, 2022.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Environment (Protection) Rules, 1986, in Schedule – I, in serial number 25 for "* (i) Table 1" the following shall be substituted, namely: -

Table-I

Sl. No.	Category	Location/area	Timelines for compliance (Non-retiring units)		Last date for retirement of units for exemption from compliance	
			parameters other than SO_2 emissions	SO_2 emissions	parameters other than SO_2 emissions	SO_2 emissions
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Category A	With 10 km radius of National Capital Region or cities having million plus population[1].	Up to 31st December 2022	Up to 31st December 2024	Up to 31st December 2022	Up to 31st December 2027
2	Category B	With 10 km radius of Critically Polluted Areas[2] or Non-attainment cities[2]	Up to 31st December 2023	Up to 31st December 2025	Up to 31st December 2025	
3	Category C	Other than those included in category A and B	Up to 31st December 2024	Up to 31st December 2026	Up to 31st December 2025	

[1] As per 2011 census of India.

[2] as defined by CPCB.

3. For "* (ii)" the following shall be substituted, namely: -

"(ii) (a) The thermal power plant declared to retire before the date as specified in column (6) of Table-I shall not be required to meet the specified norms for parameters other than SO_2 emissions in case such plants submit an undertaking to CPCB and CEA for exemption on ground of retirement of such plant:

Provided that such plants shall be levied environment compensation from the dates as specified in column (4) of table –I, at the rate of rupees 0.40 per unit electricity generated in case their operation is continued beyond the date as specified in the undertaking;

(ii) (b) The thermal power plant declared to retire before the date as specified in column (7) of Table-I shall not be required to meet the specified norms for SO_2 emissions in case such plants submit an undertaking to CPCB and CEA for exemption on ground of retirement of such plant;

Provided that such plants shall be levied environment compensation from the dates as specified in column (5) of table –I, at the rate of rupees 0.40 per unit electricity generated in case their operation is continued beyond the date as specified in the undertaking."

4. For "* (iii)" the following shall be substituted, namely: -

"(iii) there shall be levied environment compensation on the non-retiring thermal power plants, after the date as specified in column (4) and (5) of Table-I, as per the rates specified in the Table-II, namely: -

Table-II

Non-Compliant operation beyond the Timeline	Environmental Compensation (Rs. per unit electricity generated)
0-180 days	0.20
181-365 days	0.30
366 days and beyond	0.40"

[F. No. Q-15017/40/2007-CPW]

NARESH PAL GANGWAR, Addl. Secy.

Note : The principle rules were published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (i) vide number S.O. 844(E), dated the 19th November, 1986 and lastly amended vide notification G.S.R. 143(E), dated the 22nd February, 2022.

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No. 23/22/2018-R&R
Government of India
Ministry of Power
***

Shram Shakti Bhawan, Rafi Marg,
New Delhi, 30th May, 2018

To

The Chairperson,
Central Electricity Regulatory Commission,
Chanderlok Building,
Janpath, New Delhi-110001

Subject: Mechanism for Implementation of New Environmental Norms for Thermal Power Plants (TPP) supplying power to distribution licensees under concluded long term and medium term Power Purchase Agreement (PPA).

Sir,

Ministry of Environment, Forest and Climate Change (MoEFCC) has notified the Environment (Protection) Amendment Rules, 2015 on 7th December, 2015 thereby introducing revised emission standards for Thermal Power Plants (TPPs). The revised emission standards are applicable to existing as well as upcoming TPPs. To meet the revised emission standards, the TPPs would have to install or upgrade various emission control systems like Flue-Gas desulfurization (FGD) system, Electro-Static Precipitators (ESP) system etc.

2. As per implementation plan prepared by Central Electricity Authority (CEA), the existing TPPs are required to comply with the new emission standards by the year 2022.

3. Implementation of revised emission standards would face challenges relating to stringent timelines, availability of suppliers and technology, shut down for longer periods, and revenue loss during shutdown. It would also have significant implications on the tariff agreed under the long term and medium term power purchase agreement (PPA) due to additional infrastructure and operational cost on account of large scale installations, renovations & retrofitting of existing plant and machinery to meet revised emission norms.

4. In view of the nature of cost involved in implementation of revised standards of emission and the provisions of Power Purchase Agreement, there is a need to develop the appropriate regulatory framework specifying the mechanism or enabling guidelines for providing regulatory certainty to the TPPs about recovery of such additional costs through tariff. It is important to ensure implementation of the revised standards of emission for TPPs for controlling pollution level in the larger public interest.

... 2/-

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5. After considering all aspects and with due regard to the need for safeguards against environmental hazards, and accordingly to ensure timely implementation of new environment norms, the Central Government has decided that –

5.1 The MoEFCC Notification requiring compliance of Environment (Protection) Amendment Rules, 2015 dated 7th December, 2015 is of the nature of Change in Law event except in following cases:

a) Power Purchase Agreements of such TPPs whose tariff is determined under Section 63 of the Electricity Act, 2003 having bid deadline on or after 7th December, 2015; or

b) TPPs where such requirement of pollutions control system was mandated under the environment clearance of the plant or envisaged otherwise before the notification of amendment rules;

5.2 The additional cost implication due to installation or up-gradation of various emission control systems and its operational cost to meet the new environment norms, after award of bid or signing of PPA as the case may be, shall be considered for being made pass through in tariff by Commission in accordance with the law.

5.3 The respective TPPs may approach the Appropriate Commission for approval of additional capital expenditure and compensation for additional cost on account of this Change in Law event in respect of the Power Purchase Agreement entered under Section 62 or Section 63 of the Electricity Act, 2003.

5.4 For the TPPs that are under the purview of the Central Commission, the Commission shall develop appropriate regulatory mechanism to address the impact on tariff, and certainty in cost recovery on account of additional capital and operational cost, under concluded long term and medium term PPAs for this purpose.

6. The Central Government, in exercise of the power conferred under section 107 of the Electricity Act 2003 issues directions to the Central Electricity Regulatory Commission to implement the above decision of the Government. This direction is being issued to facilitate the smooth implementation of revised emission standards of the Environment (Protection) Amendment Rules, 2015 dated 7th December, 2015 for Thermal Power Plants in the larger public interest.

7. This issues with the approval of Minister of State (IC) for Power and NRE.

Yours faithfully,

3.15.18

(Ghanshyam Prasad)
Chief Engineer
Tel: 2371 0389

Copy to:
i) Secretary (MoEFCC), Government of India
ii) Chief Secretaries of all State Governments and Union Territory Administrations
iii) The Principal Secretary/ Secretary (in charge of energy) of all State Governments and UT Administrations.

Minutes of Meeting held at GIPCL regarding "Preliminary Study of conversion of 300 mm pitch existing Field design to 400 mm pitch field design proposed (In line with Phase-II) for Field No. 1A, 2A, 1B & 2B of Unit # 1 & 2 along with review of design proposed by HIPL for conversion" at GIPCL-SLPP during 28th -30th November 2022 at GIPCL-SLPP.

M/s GIPCL	M/s HIPL	M/s Ex BHEL Expert
M Kumarvelu	B. Chaudhary	G Gunasekar
B. G. Gajjar	Manoj Dhara	G Sundar
B. N. Parekh		
K. J. Thakkar		
M. S. Suthar		

- Matter discussed with M/s HIPL (ESP refurbishment contractor) & Ex BHEL Expert Regarding conversion of pitch. Both agree for upgradation (conversion) of field during planned replacement and working internal replacement is best time for conversion of ESP Field due to following reason :
  - 300 mm pitch is obsolete and all new ESP post 2005 are of 400 mm pitch.
  - Transformer upgradation from 70 KV (for 300 mm pitch) to 95 KV (for 400 mm pitch) already planned and 50 % upgradation (4 fields out 8 fields) proposed already upgraded and remaining also under progress.
  - Field Collection \ efficiency is directly proportional to SCA & Migration velocity (Which depend on KV supplied by Transformer (which already under upgradation). By Converting/ upgradation, SCA reduces however Migration velocity improves (as TR KV improves form 70 KV to 95 KV) in such a manner that Over all Field Collection \ efficiency improves.
  - It improves availability of field. It reduces Maintenance/ Maintenance cost
  - It reduces Spare replacement by 25% and even future replacement also result in to saving.

Pitch conversion related matter discussed and Following Points are discussed.

1. Following System needs to be changed mandatory:
   A. Replace all new Rectangle (40 x 60 x 2.5) frame / Vertical round member of EE system.
   B. Collecting Rapping system (Clutch + Coupling + CERM shaft including end shaft + Inner Arm (IA) + Outer Arm (OA) + Bearing + set ring.
      Note: Alignment of new CERM system must also matched with Existing Hitting point / Shock bar elevation.
      Critical dimension to be maintain as per modified design by HIPL: All 3 side X(Trans) + Y(Vertical) + Z (Linear)
   C. Horizontal shaft Middle + Bottom: Pin wheel (2) to IA+OA + All Bearing
   D. Shock bar: Total replacement with existing design with HSFG (High strength Friction grip) Fasteners system
   E. Shock bar Guide Rapping + Non-Rapping Assembly: Replacement with Modified design by HIPL
   F. Shock bar Guide Angle: Replacement with Modified design by HIPL
   G. CE + Washer Plate + U clamp + G clamp: Total Replacement with Existing Design with HSFG (High strength Friction grip) Fasteners system.
   H. Emitting Electrode with stretching device: Total Replacement with Existing Design

K. J. Thakkar
M. S. Suthar

M. Dhara (H.I.P.L)

G. (G. Gunasekar)

G. Sundar (G. SUNDAR)

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1. CE suspension System: CE Suspension Angle Assemblies (Pre-assemble** with verified diagonal) ** *Subject to removal of Trans CE sus. Support beam (1)*
   Note: Critical dimension to be maintain modified design by HIPL: TOS CE suspension Hanger Plane to TOS EE Rectangle sub frame at Top.

2. Following System needs to be changed Optional:
   A. Bearing Support Bracket of CERM system.
   B. Emitting Electrode Rapping System: Grip coupling (Both) to Thrust bearing (1-Bottom most) of vertical shaft system planned for replacement including & Bush bearing.

3. Following System needs to retained*:
   A. Support Bracket Boxes of CERM system.
   B. TR Beams (1 + 1) + LR Beam (1)
   C. CE suspension Support Beam (Linear Direction) (3 + 3)
   D. CERM Gear Motor Outside ESP
   E. EERM Gear motor Outside ESP
   F. Support Insulator and all associated member including suspension bolt + Support Insulator + Washer Plate + Nut + Check Nut.
   G. EE Suspension Arrangement including Insulator Housing including Heater.
   **Subject to visual inspection/ Water Level / straightness (for identification Deformation / Distortion / corrosion etc..)*

   Note-1: Distance from Casing to retained EE Suspension arrangement (EESA) need to be maintained above critical distance for 400 mm pitch design (155 x 1.5 = 235 mm) throughout the EESA periphery throughout the field.

   Note -2: Distance from CE / CE system to retained EE Suspension arrangement (EESA) need to be maintained above critical distance for 400 mm pitch design (155 x 1.5 = 235 mm) throughout the EESA periphery throughout the field except collection/working area.

4. New Drawing sets are need to be prepared by HIPL for following

   (1) For First Field Specific including Orientation-Pass wise.
   (2) For Second Field Specific including Orientation -Pass wise.

   Above is required for
   → For Deriving Proper Bill of Material (BOM).
   → As well as Manufacturing/fabrication Drawing for material procurement/ reference.
   → Erection Assistance drawing + erection Sequence- Procedure.
   → Erection Quality Plan.
   → Erection / Dimensional data sheet/ Critical dimension to be refer/maintain while Erecting.

   HIPL Agrees for the same and shall prepare the required drawing by 15.12.2022

   Draft Part list Based on Discussion attached herewith as Annexure-B

(H.I.P.L)

(G. Sundaram)
G. Sundaram
(G.SUNDAR)

5. M/s HIPL submitted Overall Erection Procedure as a part of EX BHEL expert's recommendations: Refer ANNEXURE-A

6. GIPCL requested to M/s HIPL for supplying all dummy field material (4 Field) which is part of scope of work as a backup for 8 Field Conversion.

7. All Required Material for Conversion will be supplied by GIPCL separately to M/s HIPL excluding material mentioned in table-A which is in HIPL Scope of supply . Material either arranged by GIPCL and if required from dummy field's material on reconciliation / returnable basis.

Description	Code	Material Qty for one Field	for Four Field	for Eight Field	Supply Schedule-A1 Qty
From Schedule A1					
Collecting Electrode	710801038	192	768	1536	2322
Emitting Electrode	710117001	1674	6696	13392	20412
Washer Plates	710801039	576	2304	4608	9288
U Clamps + G Clamps	710801032 + 710801058	320+320	1280+1280	2560+2560	3870+3870
Fasteners	150105020 + 19	192+384	768+1536	1536+3072	2322+4644
Support Insulator	710117002	4*	16*	32*	12
From Schedule A4					A4 Qty
Shock bar with pad	710801034**	32	128	256	129
EE Sub frame- rectangle tube 54 x 36-Single Hook	2710801044	62	248	496	387
EE Sub frame- rectangle tube 54 x 36-Double Hook	2710801045	62	248	496	50 (TBA-for 4F)
EE Sub frame- Round Tube	2710801050	93	372	744	387

** 61 in GIPCL warehouse stock. * replacement is subject to damage

8. Joint Material verification at GIPCL site need to be plan 1 month before execution of field Conversion for verification of complete set of material's availabilities at site. On verification/confirmation by HIPL team (i.e which will be formed by Mr. B. Chaudhary (designer), Mr. Manoj Dhara (Site-In Charge) & Mr. Maity (Execution co- Ordinator) regarding availability of material GIPCL plan unit Outage / Pass Outage.

M. Maity
(H.I.P.L)

G. Gunasekar
(G. Gunasekar)

G. Sundar
(GSUNDAR)

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ANNEXURE-A

Arrangement required before shut down:

1. PTW for ESP job rectification.
2. Scaffolding at hopper outside around.
3. Cleaning of outer roof and canopy as required.
4. Outer roof cutting and shifting to mentioned place.
5. All the new and required spare to sore near the ESP field as possible.
6. To ready all equipment's, tools & tackles (winch machine, Derick, steel rope) etc.
7. Should be barricade by safety tape hole shutdown area before starting the any job.
8. To ready equipment for water/air washing.
9. To ready and keep all required consumable goods for ESP Job.
10. To ready and store all safety PPE.

Dismantling:

1. PTW & Safety
2. Removing hopper insulation as required.
3. Hopper casing plate cutting as required.
4. Inner roof cutting as required.
5. Temporary lock by J bolt of Emitting suspension.
6. Removed all Emitting Electrode.
7. Cutting & removed all shock bars.
8. Cutting & removed all shock bar guides for rapping side & from non-rapping side.
9. Cutting & removed CE rapping shaft and bearings with clutch coupling.
10. Cutting and removed Emitting rapping HZ shaft with big pinwheel & bearings safely.
11. Removed ALI probe safely to reused after rectification completed.
12. Removed all Collecting electrode.
13. Removed all insulators screen tubes (from bottom of support & shaft insulators).
14. Removed the Shaft insulator.

Modification & Erection, Rectification:

1. All the CE hanger assembly with 6 nos. hanger & 7 nos. hanger with alignment to ready at bottom of ESP.
2. All the existing measurement should be taken and note down on separate page & keep safely.
3. Before fixed locking of Emitting frame should be check vertical, HZ, diagonal & also level of EE frame Top, bottom by water level and others.
4. After rectification of EE frame as required fixed locking of frame.
5. Removed all emitting HZ hook frame except casing site 5 row each.
6. Wall grousing required all joint dismantling point to re-fixing on its new spare.
7. Erection of 7 row CE hanger from middle to shifted both casing side.
8. Erection of 6 row CE hanger from middle and to shifter both sides as per drawing.
9. Erection & fixing of 6 row CE hanger at middle section as per drawing.
10. Alignment all the CE hanger and fixing.
11. Erection of Collecting electrode from middle to both side except 5 rows from casing side.

M. Dhebe
(H.I.P.L)

(G. Gunasekaran)

G Sundar
G. SUNDAR)

12. Erection of Emitting hook frame with middle support pipe (25NB for better welding) on middle side of field as per CE row.
13. Cutting of existing HZ emitting hook frame from site casing.
14. Casing patch work should be completed if required.
15. Fixing all existing CE and EE frame.
16. Fixing of all shock bar with proper alignment.
17. Fixing of all shock bar guide and hopper baffle as required with proper alignment.
18. Checking of CE straightening and gauging with fixing of G clamp WRT EE frame properly.
19. Insulator suspension screen tube should be fixing by two half and proper welding without any leakage.
20. A ring should be welded outer side of screen tube with top hot roof and weld it properly to avoided any ash enter to inside of support insulator.
21. An earthing strip should be welded with collecting hanger on one side of casing plate.
22. Fixing Collecting rapping shaft (hole pitch 400mm at 30 degree) on the existing Bearing base chare if found any bearing chare fouled the change it positions as required.
23. Alignment the CE rapping shaft WRT of shock bar & heating pad should be gap 310 MM will present from shaft center to shock pad center.
24. All hammer should be fixing as per require degree.
25. Fixing the Emitting HZ shaft on the existing bearing base angel with big pinwheel.
26. Change the small pin wheel with big & small pad if required.
27. Fixing the all hammers on new shaft WRT 400/800 gap as required.
28. Rapping shaft (CE/EE) trial run by manual and should be run freely.
29. Fixing shaft insulator after satisfactory checking of vertical rapping system.
30. Erection the Emitting electrode from middle side thoroughly with the back value minimum 450mm by stretching device.
31. Removed the fixed locking from EE frame.
32. Checking EE frame alignment.
33. Removed the J hook and re-checked the field alignment and voltage gap rectify if required.
34. Thoroughly checking required to removed any foreign material are present inside the field and ensure not any welding rod to fixing any point of inside the field.
35. Remove the earthing form Emitting frame if any.
36. All rapping system should be check by electrically and also check the rotation of rapping with any jamming & rectify if required.
37. Fixing the Ash Level Indicator on the existing position.
38. Should be checked all Heaters and rectify if required.
39. Charge the all heaters up to 4/5 hours.

Commissioning:

40. Checking the all-electrical system by GIPCL and received clearance for OC, SC & air load test.
41. Air load test and rectify the same if found any spark.
42. Inspection door, Hopper doors, roof door should be closed with proper sealing.
43. House keeping at the ESP job area.

(H.I.P.L)

(G. Gunasekar)

G. Sundar
(G.SUNDAR)

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Minutes of meeting with EX BHEL-expert

GIPCL
M.K. VELU (HOD- BMD)
R.M. PALIWAL (HOD- EMD)
B.G. GAJJAR (AGM-BMD)
B.N. PAREKH (DGM – BMD)
K. J THAKKAR (M- BMD)
M.S. SUTHAR (M-BMD)
AHS Representative
C & I Representatives

Ex BHEL-Expert
G. GUNASEKAR (Ex BHEL)
G. SUNDAR (EX BHEL)

Following Points discussed during visit of ex BHEL-Expert:

- GIPCL informed regarding CE row adjacent to casing may be keep empty for visual access of casing from inside for leakage identification purpose: it is confirmed by ex-BHEL expert to proceed for avoid erecting of last row of CE near casing.
- Regarding incorporation of Teflon washer between CE / shock bar to avoid crevice corrosion : it is confirmed by ex-BHEL expert to proceed to proceed for one field for trail purpose and air load test to be taken as observe electrical parameter.
- Regarding support insulator heater & shaft insulator heater: ex-BHEL expert intimated to maintain availability & healthiness through out the running period and outage of particular heater for long term need to be avoided by verifying the heater circuit regularly. Set point temperature of support insulator & shaft insulator also need to raise 5 degree to avoid cracking of insulator up to the extent possible by electrical system
- Regarding Ash evacuation of Phase-2 Field Post 3rd Field : Ex-BHEL expert recommended to convey ash on daily basis irrespective of fields in service . Hopper heater set point also need to be raised for flowability and to avoid hard settlement of ash. If required initial field parameter / collection need to be moderate to divert ash to subsequent available fields keeping overall SPM below prescribed value and evacuation with this methodology to be reviewed. if required further consultation OEM need to approach for solution.
- Specification of paint system to be incorporated for trail, reviewed in detail and found ok and suggested for in situ test sample for long term performance verification and testing.
- Data regarding flue gas chemical analysis also reviewed along with variation of parameter w.r.t. location in detail. More such analysis along with recording of boiler operating data ,-Fly ash analysis , fuel & lime analysis recommended to verify consistency and correctness of the data. This is required for the mitigation plan corrosion. For such analysis necessary sampling provision shall be made. During the sample collection a stable load is to be maintained
- Such a data also need to share with BHEL boiler process engineering for their review and clarification.
- Capturing of SO_3 for minimizing corrosion and there by leakage point, ex-BHEL suggested for capturing this SO_3 before APH and options may be explored for dosing chemical additives injection or any other suitable techniques through taking assistance of service provider the field or institutional expert.
- Conversion of 300 mm pitch ESP of phase-1 to 400mm pitch : It is confirmed by ex-BHEL expert to proceed for the same.it will result in ease of maintenance without affecting existing

05.08.22

G. Sundar 05/08/2022

6/8/22

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performance . It will also result in to cost saving of approximately 25% by less requirement of internals. It needs to plan with replacement of damaged field internal.

- GIPCL asked about the painting / coating in collecting electrode , ex-BHEL expert informed painting / coating will affect electrical circuit / Voltage development and affect performance of ESP field.

- Physical inspection: The CFBC boiler Unit 1, 125 MW is under shut down for Annual Overhauling during the period of visit.

  The ESP Unit 1, Fields 1B, 2B, 3B & 4B were inspected by BHEL ESP expert and the following are the observations:

  For all fields: The ESP casing and inner roof had been corroded in many locations and needed patching up of openings and strengthening of casing walls / roof panels wherever the thickness is less than 4 mm to avoid air ingress / leakage during boiler / ESP operation. All the man hole doors were found corroded and require repair work / replacement.

  For Fields 1B, 2B & 4B: The ESP internals i.e. Collecting Electrode System and Emitting Electrode System are intact in these fields. The worn out / corroded components of the Collecting Electrode Rapping Mechanism and the Emitting Electrode Rapping Mechanism require to be replaced.

  For Field 3B: The Collecting Electrode System and Emitting Electrode System are being replaced in the field. The CERM and EERM are also replaced.

- Traveling day: 02.08.2022 /06.08.2022.
- Stay period: 03.08.2022- 05.08.2022.
- Further inputs receipts by GIPCL as a result of various test/ methodology proposed also conveyed in future and remaining visit / online meeting also to be plan.

GIPCL 06.08.22

G. Sundaram 06/08/2022

Ex BHEL-Expert

6/8/22

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Helios

Helios Infrapro Private Limited

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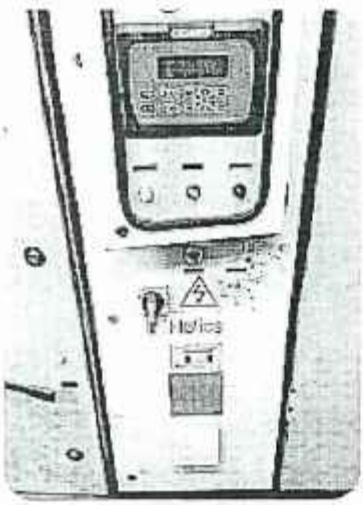
Some of the other plants where the 3 phase TR sets and MK-III Controllers have been successfully installed are as follows: -

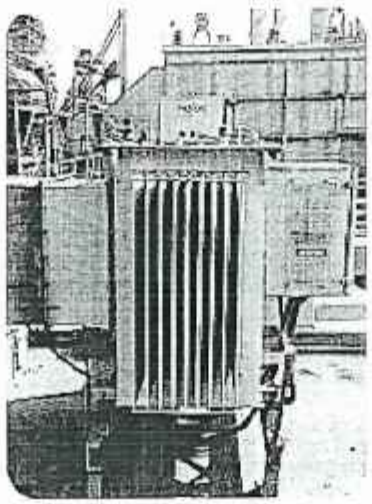
1. **Grasim Nagda:**
   It is a three field ESP of 30 MW unit with emission of 340 mg. By replacing the 2 TR sets on inlet side by 3 Phase, the emission has been reduced to less than 100 mg

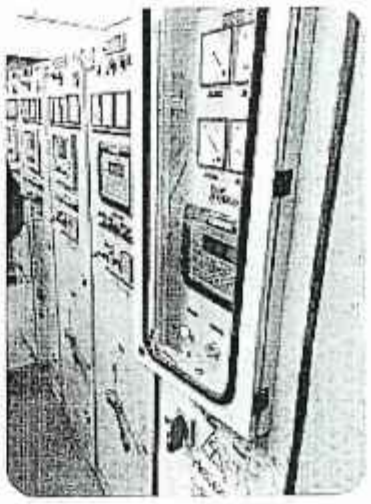
2. **Balco Korba:**
   It is a ESP of 67.5 MW unit with emission level of 260 mg. 50% of TR sets has been replaced by 3 Phase & the emission has brought down to the level of less than 90 mg.

3. **ESSAR Steel:**
   It is a three field ESP of Pelletization Plant with emission of 125 mg. By replacing only one TR (Out of Three), the emission has been reduced to less than 54 mg.

4. **Orient Cement:**
   It is a three field ESP of Clinker Cooler with Emission of 39.70mg. By replacing Two Three Phase TR Sets , the emission has been reduced to 15mg







K J Thakkar - Mechanical Maint.

From:	Helios Infrapro <info@heliosinfrapro.com>
Sent:	20 December 2017 13:16
To:	GIPCL SLPP Kashyap Thakkar
Cc:	HIPL Deepak Tiwari; Agarwal Naresh Kumar
Subject:	3 Phase TR Sets and MK-III/IV Controllers for ESP Performance Improvements
Attachments:	ESP - HIL RPD 3PH TRCC.pdf; ATT00170.htm; ESP TRCC Brief Details .pdf; ATT00173.htm

Dear Sir,

Firstly we wish you the very best for the coming New Year.

As expressed, we are a proven source for manufacture and supply of all internals for ESP and for doing retrofitment jobs.

However, apart from investing in the new field and taking long shutdowns for executing the job, we have an alternate technology to offer to you as well. This is the 3 Phase TR Sets and MK-III Controller. Basic details of the technology is given below: -

We offer you latest technology of 3 Phase TR Sets and Hi-Frequency TR Sets for ESP's which ensures: -

- Cost effective solution as compared to options of revamping or replacement.
- Improvement of ESP Performance.
- No Shutdown required for implementation, thereby no production loss.
- No extra space is required in the plant for implementation.

Sir, we had been entrusted an order no. R07/141539773/Z40 dated 12/01/2015 by Hindalco Industries Limited, Renusagar Unit for 3 Phase TR Sets and MK-III Controllers for one of their ESP's, which has been executed and based on the success of the job, we have received order no. R33/141639941/Z40 dated 18/01/2016 for 3 more ESP's in their plant and order nos. B67/141636856/PS1 and B45/141641450/S20 dated 23/12/2015 and 29/1/2015 for the Alunima Plant ESP and the Boiler and Co-Gen Plant ESP of Hindalco Renukoot Unit, which have also been executed successfully.

By implementing the technology in Renusagar Plant, emission of the ESP came down from 144 mg/Nm3 to near 100 mg/Nm3.

Renusagar job is just one of the examples of many orders executed by us for various clients throughout the country and even globally. In this regard sir, we would like to express that with the modern TRCC technologies, we are by far the most proven source in the country and have implemented the maximum number of projects with 100% success rate and 100% satisfied customer base. Our clients include the following: -

1. Hindalco Industries Limited, Renusagar Power Division
2. Hindalco Industries Limited, Renukoot Boiler and Cogen Plant
3. Hindalco Industries Limited, Renukoot Alumina Plant
4. Ultratech Cement, Jafrabad Unit
5. Ultratech Cement, Rajshree Unit
6. Ultratech Cement, Awarpur Unit
7. Ultratech Cement, Gujarat Unit
8. Ultratech Cement, Rawan Unit
9. Orient Cement, Devapur Unit
10. Kesoram Cement, Gulbarga Unit

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11. ACC Limited, Wadi Unit
12. Prism Cement, Satna Unit
13. Balco, Korba

The above list is only a very small snapshot of all our successful installations.

For Helios Infrapro, ESP business is more than a professional activity; it is our heartfelt passion, which is a perfect marriage of profession with purpose. When we take up a project for any industry, for us the end client is not the Company who has entrusted the project on us. We consider the common people living around these industries as our real clients. They are the ones whose need for fresh air is our end product and focus.

Your unit too, is a large unit and in your production process substantial amount of emissions are generated. We would love to partner you for taking care of the emissions through our proven cost effective technology. Together we can create a cleaner and healthier working and living environment within and around your plants.

Following documents are attached for your ready reference: -

- Details of 3 Phase TR Set Technology implemented in Hindalco, RPD along with some other credentials.
- Brief about the 3 Phase Technology and the MK-III Controllers

Thanking you and assuring you of our dedicated services at all times.

Regards,
Nikunj Agarwal
Director and CEO

HELIOS INFRAPRO PRIVATE LIMITED
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Web: www.heliosinfrapro.com

MK III Controller



TECHNICAL DATA	
Mechanical dimensions(L X W X D)	315mm X 205mm X 45mm
Weight	Approximately 3 kg
Degree of protection	IP 54 at the front side
Ambient temperature	+5° C to +60°C
Power supply	24 V AC ±10%
Inputs	5 analog 12 delta
Outputs	8 digital
Display (integral)	240 x 64 dot matrix LCD

SALIENT FEATURES

- Multilingual operation (more than 10 different languages)
- Basic/intermittent energization modes (Cycle Blocking Operations)
- Manual or automatic back corona control
- In-built controls for rapper motors and heating groups
- Deionisation to restore optimum gas state after sparking
- Voltage reduction through external potential free contact
- Direct interface to opacity sensor
- Comprehensive alarm handling
- Display of V-I Curves
- DC voltage and current waveform available on BNC connector for easy monitoring.

COMPARISION

Single Phase TR set Vs 3 Phase TR set (same rating)

Parameter	Single Phase TR	3 Phase TR
PRIMARY VOLTAGE(V)	415 V, 3 PHASE, 50HZ,(2 Phase)	415 V, 3 PHASE, 50HZ, (3 Phase)
TOPOLOGY	Single phase transformer	Delta Star transformer
KV(P) RATING	110KVp	110KVp
CURRENT RATING	600mA	600mA
KV(avg) RATING	70KV avg	105KV avg
PRIMARY CURRENT (A)	146A	96A
KVA	61 KVA	69KVA
SPARC QUENCHING TIME	10mS	3.33mS
RIPPLE CONTENT (%)	47.20%	4.00%
OPERATING FREQUENCY(Hz)	100Hz	300Hz
SIZE OF TRCC	700 (W) X 650 (D) X 2000 (H)	700 (W) X 650 (D) X 2000 (H)

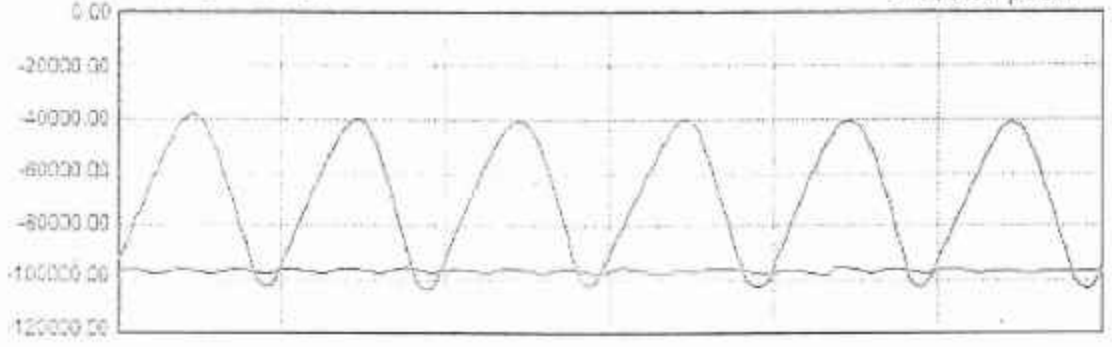
Performance Improvement Solutions

PARTICULARS	CONVENTIONAL SOLUTION (REPLACING OF TR SET)	M/S ELECTROMAG POWERGEN SOLUTION (RETROFITTING WITH EXISTING TR SET)
Cost Saving	Huge Investment Cost	70% as compared to Conventional Solution
Down Time	More than 6 Months	Only 1 day per field
Space	Additional Space Needed	Fits in existing space
Energy Saving	Poor Power Factor results into more Power Consumption	Improved Power Factor Saves 18% power against Conventional Solution

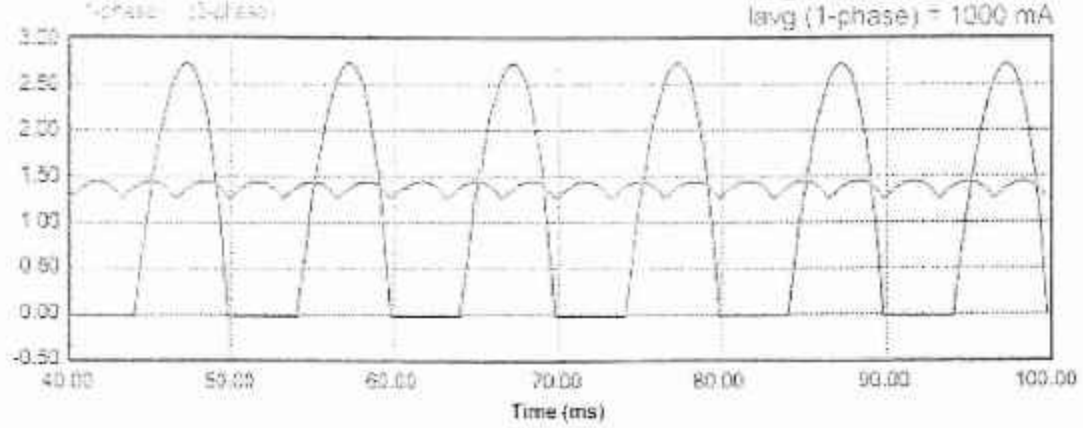
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Wave forms

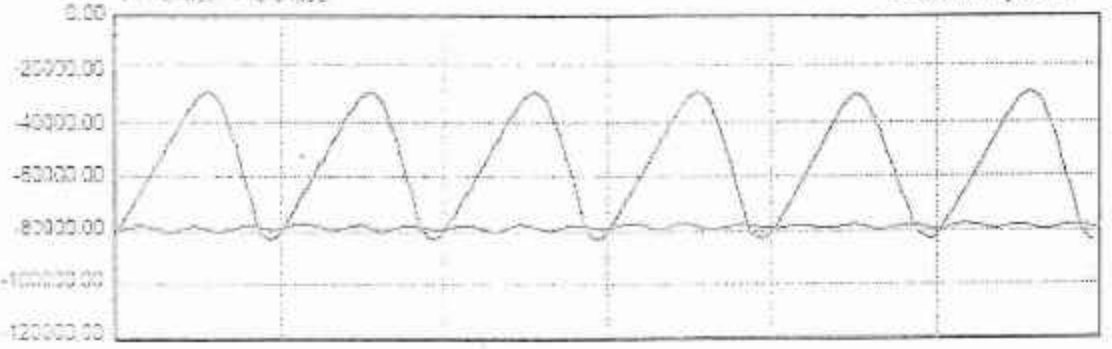
≈100kV peak



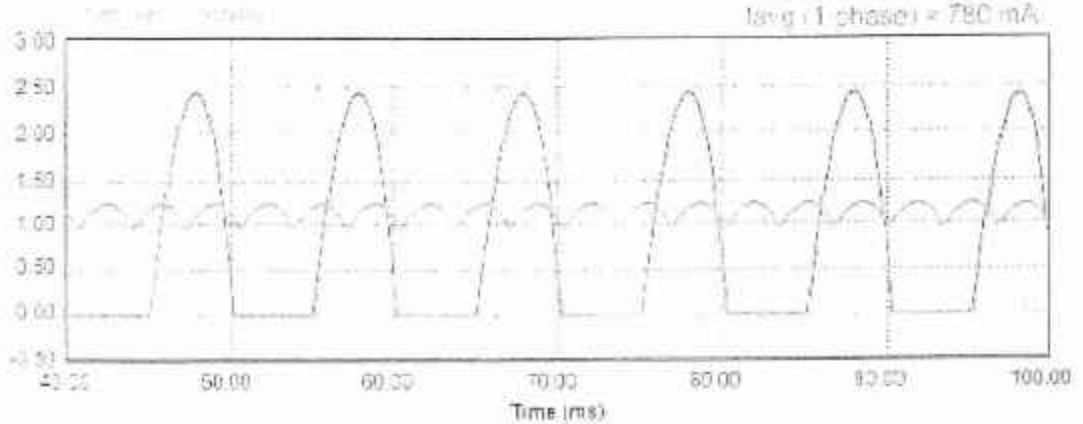
Iavg (3-phase) = 1350 mA
Iavg (1-phase) = 1000 mA



≈80 kV peak



Iavg (3-phase) = 1120 mA
Iavg (1-phase) = 780 mA



Helios

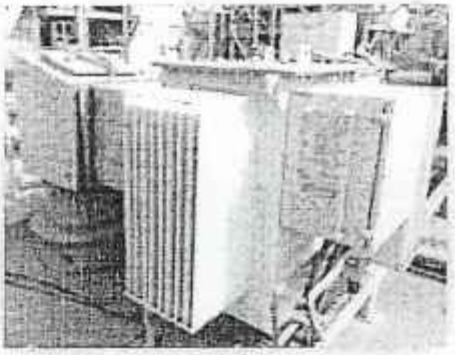
Helios Infrapro Private Limited

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THREE PHASE TR SETS AND MK-III CONTROLLERS

INSTALLED IN HINDALCO, RENUSAGAR POWER DIVISION



M/s Hindalco Industries Limited, Renusagar Power Division (HIL-RPD) has 10 power generating units with an installed capacity of 742 MW. Electrostatic Precipitators are installed in all units for arresting the SPM. ESP Units are very old and due to various factors such as age, fatigue, changes in parameters, changes in the Pollution norms, the ESP's are not giving the desired performance.

Helios Infrapro carried out a study of the plant and based on the findings, suggested the following: -

- Check the physical health and alignments of all the fields of all the ESP's during shut-downs.
- Change the old TR Sets and Controllers with the Three Phase Technology of TR Sets and MK-III Controllers in the first 3 fields of all ESP's, provided that the health of the fields are proper.
- On implementation of the above, the performance of the ESP will improve by 30% - 40%.

HIL-RPD considerd the proposal and on a trial basis implemented the Three Phase TR Sets in the first field of both passes of ESP No. 5 and the MK-III Controllers in the first two fields of both passes of the same ESP.

Following is the result of the project: -

Location	Generation (MW)		Steam Flow (TPH)		Gas Flow (m3/sec)		Temperature (° C)		Average Dust Concentration (mg/Nm^3)	
	Before	After	Before	After	Before	After	Before	After	Before	After
Inlet Duct	72	72	290	299	63.10	-	144	143	51607	-
Outlet Duct	72	72	290	299	58.47	-	134	134	144.16	110.6

The above readings are for pass B, where it can be seen that performance has improved by nearly 24% by implementing the technology in first field only.

Based on the success of the job, we have received order no. R33/141639941/Z40 dated 18/01/2016 for Unit Nos. 6, 7 and 8 of Renusagar Power Division and order nos. B67/141636856/PS1 and B45/141641450/S20 dated 23/12/2015 and 29/1/2015 for the Alunima Plant ESP and the Boiler and Co-Gen Plant ESP of Hindalco Renukoot Unit for the TR Sets and Controllers.

केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

SPEED POST

B-33014/07/2017-18/IPC-II/TPP/15874 December 11, 2017

To

The General Manager
Surat Lignite Power Station
Vill. Nani Naroli, Taluka: Mangrol
Surat- 394110, Gujarat

Sub: **Directions under Section 5 of the Environment (Protection) Act, 1986 regarding compliance of emission limit notified vide notification No.S.O.3305 (E) dated 07.12.2015 – reg.**

WHEREAS, taking into consideration pollution from thermal power plants, Ministry of Environment, Forest & Climate Change had issued notification in the year 1984 laying out standards for thermal power plants. Further, the stack height regulation was notified in the year 1989 and effluent standard for thermal power plants was notified in the year 1986. The revised temperature limit of discharge of cooling water from the plants was notified in the year 1999 and thereafter use of beneficiated coal in the plants was issued in June 2002. The fly ash utilization notification was also issued On 14th September, 1999 and amended in the year 2003 and 2009. Thereafter, MoEF&CC vide Notification No. S.O.3305(E) dated 07.12.2015 has amended emission limit for particulate matter and notified new limits for Sulphur dioxide (SO_2), Oxides of Nitrogen (NO_x) and mercury emission, and water consumption limit for coal/lignite based thermal power plants. As per the notification dated 07.12.2015, thermal power plants are required to achieve the notified limit within two years from the date of the notification i.e. by 07.12.2017;

WHEREAS, with the implementation of the amendment dated 07.12.2015, it is expected that there would be reduction in emission of PM, Sulphur dioxide and oxide of Nitrogen, which in turn will help in improvement in Ambient Air Quality in and around thermal power plants, besides reduction of mercury emission and water use in the thermal power plants will reduce;

WHEREAS, in the meeting on Coal Washeries (Environment & Forest Clearances) and Emission Norms for Thermal Power Plants chaired by the Hon'ble Minister of Environment, Forest & Climate Change and Minister of Power, Coal & Renewable Energy on June 08, 2016, it was decided that a committee comprising representatives from MoEF & CC, Ministry of Power (MoP),Central electricity Authority (CEA), Ministry of Coal (MoC), Power Grid Corporation of India Limited (PGCI) and Central Pollution Control Board (CPCB) may be constituted to look into the all issues related to implementation of norms;

WHEREAS, following decisions were taken in the meeting:

'परिवेश भवन' पूर्वी अर्जुन नगर, दिल्ली-110032 Thermal Power Plant
Parivesh Bhawan, East Arjun Nagar, Delhi-110032

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1. MoP/CEA shall submit action plan by December 2016 for phasing out of the power plants commissioned before December, 2003.
2. MoP / CEA shall submit action plan by December, 2016 in respect of power plants commissioned during January, 2004 to December, 2016 indicating unit wise retrofit / renovation for each power plant. The implementation of action plan shall be taken up in backword manner starting from the plants commissioned in the 2015 and the shall be completed by 15.08.2022
3. MoP and CEA shall coordinate with each State Public Sector Undertakings separately for submission of action plan by December, 2016 for all the power plants.

WHEREAS, it was further decided that MoP shall take action for installation of Flue gas Desulphurisation (FGD) if needed to achieve prescribed SO_2 norms based on the SO_2 emission levels from power plants;

WHEREAS, it was also pointed out that NOx control technology in case of Indian coal is not established. Selective Catalytic Reduction (SCR) technology is used for NOx control, however, its feasibility for Indian coal needs to be established. MoP suggested that Pilot studies may be taken up in two plants and based on the results, further action plan to be drawn regarding retrofitting of SCR in plants to achieve prescribed NOx norms;

WHEREAS, the MoP constituted a committee under the Chairmanship of Chairman, Central Electricity Authority (CEA) on 21.09.2016 to prepare an action plan for implementation of new emission limits;

WHEREAS, to ensure compliance of the new emission norms the MOEF&CC convened a meeting on 23.05.2017 in which CEA, NTPC and the Central Pollution Control Board participated;

WHEREAS, the MOEF&CC received a letter from Secretary Ministry of Power *vide* their D.O. letter No. FU-1/2016-IPC dated 30th June, 2017 indicating the concerns of various thermal power plants in the country with regard to the compliance with the new emission norms for the thermal power plants notified on 7.12.2015 particularly w.r.t. Particulate Matter (PM), Sulphur dioxide (SO_2) & Oxides of Nitrogen (NO_x);

WHEREAS, it was noted that out of present 196667 MW installed capacity, about 60 % capacity (1,15,214 MW) meets the new PM norms with existing ESP installations. Remaining capacity of 64,334 MW which does not meet the new environmental norms regarding PM, requiring retrofitting additional fields in Electrostatic Precipitator (ESP)/replacement of ESP in existing plants to meet the new emission norms of PM;

WHEREAS, Ministry of Power after consultation with Central electricity Authority informed that retrofitting additional fields in ESP/replacement of ESP in existing plants will need complete shutdown of 4-6 months for each unit;

WHEREAS, in order to meet SO_2 emission norms, FGD system shall be required to be installed in all plants. MoP informed that about 30-36 months required for design & engineering, approvals, funds arrangements, tendering, erection and commissioning of FGD. Besides, planned shutdown will be required as all plants cannot be shut down simultaneously. Another challenge highlighted for installation of FGD was availability of technologies/suppliers. In addition, issues relating to availability of good quality lime stone for operation of FGD and disposal of Gypsum to run the FGD in existing plants were also taken note of;

WHEREAS, the standard of 300 & 100 mg/NM^3 would require installation of Selective Non Catalytic Reduction (SNCR) or Selective Non Catalytic Reduction (SCR). While these technologies are established globally, these are not established for Indian Coal, which has high ash content. Therefore, it was decided to engage various technology vendors to run pilots at NTPC stations to validate technology of SNCR/SCR system for Indian coal;

WHEREAS, the Ministry of Power in the letter dated 30.06.2017 enclosed the report outlining the plan of action for implementation of the new norms keeping in mind the techno-economic feasibility and ensuring availability of power to all at affordable cost without any disruption;

WHEREAS, as per the phasing plan proposed by MOP after consultation with CEA and Regional Power Committees, out of the installed capacity of 1, 87,162 MW (as on December, 2016), 8217 MW have been identified for retirement/already retired. Further, 12,974 MW of capacity already have either CFBC boilers or FGDs.

WHEREAS, a phasing plan was proposed for the balance 165971 MW of coal based thermal capacity for achieving compliance with 145977 MW capacity proposing installation of FGDs within a period of 7 years to be undertaken in a phased manner. About 3205 MW of coal based capacity was stated to be compliant with revised norms of SO_2 emission;

WHEREAS, it was further noted that approximately about 16789 MW would not be able to install FGDs due to various constraints which include lack of space, etc.;

WHEREAS, CEA has worked out the requirement of capacity of coal based thermal power plants including hydro, wind, solar, gas based units to meet the estimated peak demand of 225 GW in 2021-22;

WHEREAS, MoP suggested that the compliance period of PM for the plants installing FGD may be kept same as per the FGD phasing plan;

WHEREAS, it was requested that for implementation of NOx norms in the plants installed before 31.12.2003 a period of three years may be permitted to achieve specified standards of 600 mg/Nm^3. For other plants a

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relaxation of 600 mg/Nm³ in place of 300 and 100 mg/Nm³ for a period of 3 years was also requested;

WHEREAS, taking into account the issues/concerns raised by the MoP and the sensitivity involved in the matter as it relates to general public of the country, the Ministry undertook detailed analysis of each of the issues in the meetings held on 06.07.2017, 27.07.2017, 11.08.2017 and 01.09.2017. These meetings were also attended by the various stakeholders including Ministry of Power, CEA, NTPC etc.;

WHEREAS, MOEF & CC in the meeting with MoP, CEA, NTPC & CPCB etc. held on September 1, 2017 decided that the action plan submitted by MoP for 7 years i.e. up to 2024 was too long and it should instead commence from 2018 and implemented by 2022 with respect to all pollutants. It was further suggested that action plan should be revised prioritising the plants located in critically polluted area /close to habitation /urban area. Based on the decisions taken in the meeting Ministry of Power vide letter No. FU-1/2017-IPC dated 13.10.2017 submitted the revised action plan, to implement/phasing FGD installation/ ESP upgradation to meet new emission norms for thermal power plants;

WHEREAS, as per the revised plan submitted by the MoP vide letter dated 13.102.17, 650 units comprising 196667 MW need to meet the new emission limits. Out of 650 units, FGD will be installed to achieve the emission limit of SO_2 by the year 2022 in all 415 units comprising 161522 MW (01 unit by 2018, 08 units by 2019, and 55 units by 2020, 172 units by 2021 and 178 units by 2022, for 01 units with 150 MW capacity plan is not received). Remaining 235 units comprised of 35145 MW either complying with SO2 emission limits or planned for phasing out;

WHEREAS, ESP upgradation to achieve emission limit of particulate matter will be completed by the year 2022 in PM for 231 units comprising of 65925 MW capacity out of 650 units (01 unit by 2018, 02 units by 2019, 28 units by 2020, 97 units by 2021 and 94 units by 2022, for 09 units of 1400 MW capacity plan by 2022);

WHEREAS, with regard to compliance of emission limit of NOx, it is suggested that pre combustion modification such as in situ modification in boiler, installation of Low NOx burners and Over Fire Air shall be adopted besides installation of SCR/SNCR systems wherever needed by the year 2022;

WHEREAS, electricity is cleanest form of energy which helps in mitigating house hold air pollution which is matter of concern;

WHEREAS, there is need to provide electricity supply to people who do not yet have access to it;

WHEREAS, taking into consideration the technical challenges and time requirements for installation of FGD and other technologies to meet the new emission limits, the MoEF&CC vide its letter F. No. Q-15017/40/2007-CPW

dated 07.12.2017 has directed CPCB to direct all the thermal power plants to ensure compliance with the norms laid down in the 07.12.2015 notification in accordance with the revised Plan submitted by the Ministry of Power letter dated 13.10.2017 as well as NOx by 2022;

WHEREAS, the Ministry of Environment, Forest & Climate Change , Government of India, vide Notifications No. S. O. 157 (E) of 27.02.1996 and S. O. 730 (E) dated 10.07.2002, has delegated the powers vested under Section 5 of the Environment (Protection) Act, 1986 (29 of 1986) to the Chairman, Central Pollution Control Board, to issue directions to any industry or any local body or any other authority for violations of the standards and rules notified under the Environment (Protection) Rules, 1986 and amendment thereof.

NOW, THEREFORE, taking into consideration all material facts including environmental concerns and ensuring stability of power supply and need for phasing the implementation, in exercise of powers vested under Section 5 of the Environment (Protection) Act, 1986, following directions are issued to M/s Surat Lignite Power Station, Surat:

i. That plant shall install installing Electrostatic Precipitator (ESP) by September 30, 2020 & December 31, 2020 in unit 3 & 4 respectively so as to comply PM emission limit

ii. That plant shall meet SO_2 emission limit by installing FGD/lime injection as applicable immediately

iii. That plant shall take immediate measure like installation of low NOx burners, providing Over Fire Air (OFA) etc. and achieve progressive reduction so as to comply NOx emission limit by the year 2022

The time line mentioned above (i to iii) for compliance of PM, SO_2 & NOx emission limits shall be reviewed by CPCB within a period of three months and shall be brought down further considering the location specificity of the plant such as critical polluted area/ closeness to habitation/ urban area.

The time line for compliance of water consumption limit shall also be finalised in consultation of plants

M/s Surat Lignite Power Station, Surat shall ensure compliance of directions mentioned above (i to iii) failing which action will be taken under the appropriate provisions of the Environment (Protection) Act, 1986.

(A.K. Mehta)
Chairman

J-1 148

K.H.Chorera
Officer on Special Duty
(Power)

No. GSE-14-2016-111-K
Government of Gujarat,
Energy and Petrochemicals Department,
Block No.5, 5th Floor, Sardar Bhavan,
Sachivalaya, Gandhinagar.
Date: 19th June 2017
FAX 957

To,

1. The Managing Director, GMDC, Ahmedabad.
2. The Managing Director, GIPCL, Vadodara
3. The Managing Director, GSECL, Vadodara.
4. The Managing Director, M/s. Adani Power Ltd, Ahmedabad.
5. The Managing Director, M/s. CGPL, Mundra.
6. The Managing Director, M/s. EPGL, Ahemdabad.
7. The Director, M/s. TPL, Ambavadi, Ahmedabad.

Subject: Compliance with new Environmental standards for thermal power stations- reg.

Sir,

I am directed to refer to the subject noted above and to state that the Ministry of Environment, Forest & Climate Change, Government of India, have issued new Environmental Standards for Thermal Power Stations vide Gazette notification dated 7-12-2016. As per this notification, all existing power stations are required to comply with the new standards within two years (i.e. by 07-12-2017) and the new stations commissioned on and after 01-01-2017 are required to meet the new standards from the date of their commissioning. In order to meet the new norms, the power stations need to install Flue Gas Desulphurisation (FGD). In this regard, the Phasing of Implementation plan for FGD installation in Coal based thermal units, the phasing of implementation plan for ESP upgradation in lignite-based units and a Phasing Out plan prepared by CEA in consultation with respective utility and SLDC, are enclosed.

In view of the above, I am to request you to take further appropriate action, as per the finalized Implementation Plan and Phasing out Plan and communicate to this Department about the confirmation on the same, within a week's time, positively.

This may please be treated as urgent.

Yours faithfully,

(K.H.Chorera)
Officer on Special Duty (Power)
Energy and Petrochemicals Department

MD

Encl: As Above

AGM(BD) / AGM(SLDC)

FROM :EPDCP
FAX NO. :07923250737
20 Jun. 2017 16:29 P 001

20 Jun. 2017 16:29 P 002
FAX NO. :8792325797
FROM :EPDCR

ANNEX-I

Phasing Plan for FGD Implementation-GUJARAT

Sr. No.	Developer	Name of Project	Sector	State	Region	Unit No	Total Capacity	Date of COMMISSIONING month/day/year	Age in years	Type of Fuel	Whether FGD installed	Whether CFBC	Whether FGD space available (Y/N)	Whether FGD planned (Y/N)	Compliance Schedule for Installation of FGD Date/month/yr
1	Torrent Power Generation Ltd	SABARMATI	Private Sector	Gujarat	WR	1	120	10/12/1978	38	COAL	N	N	Y	Y	31/03/2021
2	GSECL	UKAI TPS	State Sector	Gujarat	WR	3	200	1/21/1979	38	COAL	N	N	Y	Y	31/12/2021
3	GSECL	UKAI TPS	State Sector	Gujarat	WR	4	200	3/20/1979	38	COAL	N	N	Y	Y	31/12/2021
4	GSECL	WANAKBORI TPS	State Sector	Gujarat	WR	1	210	1/23/1982	35	COAL	N	N	Y	Y	31/12/2021
5	GSECL	WANAKBORI TPS	State Sector	Gujarat	WR	2	210	1/15/1983	34	COAL	N	N	Y	Y	31/12/2021
6	GSECL	WANAKBORI TPS	State Sector	Gujarat	WR	3	210	3/15/1984	33	COAL	N	N	Y	Y	31/12/2021
7	Torrent Power Generation Ltd	SABARMATI	Private Sector	Gujarat	WR	2	121	12/31/1984	32	COAL	N	N	Y	Y	31/03/2021
8	GSECL	UKAI TPS	State Sector	Gujarat	WR	5	210	1/30/1985	32	COAL	N	N	Y	Y	31/12/2021
9	GSECL	WANAKBORI TPS	State Sector	Gujarat	WR	4	210	3/9/1986	31	COAL	N	N	Y	Y	31/12/2021
10	GSECL	WANAKBORI TPS	State Sector	Gujarat	WR	5	210	9/23/1985	30	COAL	N	N	Y	Y	31/12/2021
11	GSECL	WANAKBORI TPS	State Sector	Gujarat	WR	6	210	11/18/1987	29	COAL	N	N	Y	Y	31/12/2021
12	Torrent Power Generation Ltd	SABARMATI	Private Sector	Gujarat	WR	3	121	9/28/1986	30	COAL	N	N	Y	Y	31/03/2021
13	GSECL	GANDHI NAGAR TPS	State Sector	Gujarat	WR	3	210	3/20/1990	27	COAL	N	N	Y	Y	31/12/2021
14	GSECL	KUTCH LIG TPS	State Sector	Gujarat	WR	1	70	3/25/1990	27	Lignite	N	N	Y	Y	31/12/2021
15	GSECL	KUTCH LIG TPS	State Sector	Gujarat	WR	2	70	2/23/1991	26	Lignite	N	N	Y	Y	31/12/2021
16	GSECL	GANDHI NAGAR TPS	State Sector	Gujarat	WR	4	210	7/20/1991	25	COAL	N	N	Y	Y	31/12/2021
17	GSECL	KUTCH LIG TPS	State Sector	Gujarat	WR	3	75	3/31/1997	20	Lignite	N	N	Y	Y	31/12/2021
18	GSECL	GANDHI NAGAR TPS	State Sector	Gujarat	WR	5	210	3/17/1998	19	COAL	N	N	Y	Y	31/12/2021
19	GSECL	WANAKBORI TPS	State Sector	Gujarat	WR	7	210	12/31/1998	18	COAL	N	N	Y	Y	31/12/2021
20	Adani Power Ltd	MUNDRA TPS	Private Sector	Gujarat	WR	1	330	8/4/2009	7	COAL	N	N	Y	Y	31/03/2022
21	Adani Power Ltd	MUNDRA TPS	Private Sector	Gujarat	WR	2	330	3/17/2010	7	COAL	N	N	Y	Y	31/03/2022
22	Adani Power Ltd	MUNDRA TPS	Private Sector	Gujarat	WR	3	330	8/2/2010	6	COAL	N	N	Y	Y	31/12/2021
23	Adani Power Ltd	MUNDRA TPS	Private Sector	Gujarat	WR	4	330	12/20/2010	6	COAL	N	N	Y	Y	30/09/2021
24	Adani Power Ltd	MUNDRA TPS	Private Sector	Gujarat	WR	5	660	12/26/2010	6	COAL	N	N	Y	Y	30/06/2021
25	Adani Power Ltd	MUNDRA TPS	Private Sector	Gujarat	WR	6	660	7/20/2011	5	COAL	N	N	Y	Y	31/03/2021
26	Essar Gujarat	SALAYA TPP	Private Sector	Gujarat	WR	1	600	1/4/2012	5	COAL	N	N	Y	Y	31/03/2021
27	Tata Power (CGPL)	MUNDRA UMTPP	Private Sector	Gujarat	WR	1	800	3/7/2012	5	COAL	N	N	Y	Y	30/06/2020
28	Essar Gujarat	SALAYA TPP	Private Sector	Gujarat	WR	2	600	8/15/2012	5	COAL	N	N	Y	Y	31/03/2021
29	Tata Power (CGPL)	MUNDRA UMTPP	Private Sector	Gujarat	WR	2	800	7/10/2012	4	COAL	N	N	Y	Y	31/03/2021
30	Tata Power (CGPL)	MUNDRA UMTPP	Private Sector	Gujarat	WR	3	800	10/27/2012	4	COAL	N	N	Y	Y	30/06/2021
31	Tata Power (CGPL)	MUNDRA UMTPP	Private Sector	Gujarat	WR	4	800	1/21/2013	4	COAL	N	N	Y	Y	31/03/2021
32	GSECL	UKAI TPS	State Sector	Gujarat	WR	6	500	3/5/2013	4	COAL	N	N	Y	Y	31/03/2021
33	Tata Power (CGPL)	MUNDRA UMTPP	Private Sector	Gujarat	WR	5	800	3/22/2013	4	COAL	N	N	Y	Y	31/03/2021
34	GSECL	SIKKA REP TPS	State Sector	Gujarat	WR	3	250	3/29/2015	2	COAL	N	N	Y	Y	31/03/2021
35	GSECL	SIKKA REP TPS	State Sector	Gujarat	WR	4	250	3/25/2015	1	COAL	N	N	Y	Y	31/03/2022

12127 MW

J-2 150

GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)
At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 110
Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261073/74 E-mail : gensipp@gipcl.com

No: SLPP/GOG/2017/ 2862 Date:-01st July, 2017

To,
Shri K.H. Chorera
Officer on Special Duty (Power),
Energy & Petrochemical Deptt.,
Government of Gujarat,
Block No.5, 5th Floor, Sardar Bhavan,
Sachivalaya, Gandhinagar – 38 20 10

SUB: Details of Gujarat Industries Power Company Limited (GIPCL) – Surat Lignite Power Plant (SLPP) for compliance of new environment norms.

REF: GoG, EPD letter ref: GSE-14-2016-111-K dated 19 Jun, 2017.

Dear Sir,

With reference to your letter ref: GSE-14-2016-111-K dated 19 Jun, 2017 regarding compliance of new environment norms, we would like to bring to your kind notice that Boilers at SLPP are Environment friendly Circulating Fluidized Bed Combustion (CFBC) technology based. SO_2 emission is effectively controlled by addition of Limestone and remains well within limit of 600 mg/Nm^3 as per new environment norms. Hence, FGD installation is not required at SLPP.

Further, for meeting the new environment norms for PM (Particulate Matter) emission, CEA has given timeline up to year 2020 during the meeting held at WRLDC, Mumbai on 07.02.2017. Accordingly, we have already started ESP fields' replacement, overhauling servicing/ repairing and retrofitting works in phased manner during Annual Overhauling in all four units of SLPP.

This is for kind information please.

Thanking you,

Yours faithfully,
For Gujarat Industries Power Company Limited,

(N.K. Singh)
Addl. General Manager (SLPP)

cc: Managing Director – for kind information please. 4.9

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K.H.Chovera
O.S.D. (Power)

No.CSE-14-2016-111-E
Government of Gujarat,
Energy & Petrochemicals Dept
Sachivalaya, Gandhinagar.
Phone : 079-23250786
Fax No: 079-23250797
Mobile No.97277 60035

SECRET

To,

- 1 MAR 2016 FAX-357

(1) The Executive Director (Technical), GSECL, Vadodara.

(2) The Chief Engineer (Fuel), GSECL, Vadodara.

Sub : Amendment in the Environment (Protection) Rules, 1986.

Sir,

In continuation of this Department's letter of even number dated 26.2.2016 and in pursuance of the discussion held in a meeting taken by the Principal Secretary (EPD) on 29.2.2016 (Monday), I am further directed to request you to send the details about technical feasibility of implementation of revised norms in the Thermal Power Stations under GSECL, cost implication thereof and specific details about the additional cost of generation for each unit of various Plants.

This may please be treated as Urgent.

Yours faithfully,

(K. H. Chovera)
Officer on Special Duty (Power)

Copy forwarded with compliments to :

(1) The Managing Director, GIPCL, Vadodara.

(3) The General Manager (Power), GMDC, Ahmedabad.

....With a request to send necessary details about the Power Plants under GIPCL and GMDC.

cc: AGM(SPP)/AEM(BO)

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GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)
At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 110
Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261073/74 E-mail : genslpp@gipcl.com

No: SLPP/CEA/2015/

31st March, 2016

To,
Chief Engineer,
TPE & CC,
Central Electricity Authority,
Sewa Bhawan, R.K. Puram,
New Delhi – 11 00 66

Kind Attn: - Shri B. K. Sharma

Sub: - Details of Surat Lignite Power Plant for meeting the revised environmental norms as per Environment (Protection) Amendment Rules, 2015.

Ref: - (1) Your letter no. CEA/Th./TPE&CC/ENV/50/2015/63-150 dated 13/01/2016.

(2) Meeting held at CEA on 01.03.2016.

Dear Sir,

With reference to your letter no. CEA/Th./TPE&CC/ENV/50/2015/63-150 dated 13/01/2016 and subsequent discussion held at CEA office, New Delhi on 01.03.2016, following are the details of Surat Lignite Power Plant:

Unit No.	Unit Capacity (MW)	First Synchronization	COD
Unit-1	125	16/01/2000	15/02/2000
Unit-2	125	06/11/1999	15/02/2000
Phase-I	250	---	15/02/2000

Unit No.	Unit Capacity (MW)	First Synchronization	COD
Unit-3	125	29/11/2009	19/04/2010
Unit-4	125	25/03/2010	28/04/2010
Phase-II	250	---	28/04/2010

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We would like to inform that SLPP is having Cooling Towers (Closed Loop) for all four units and owing to several water conservation measures; Plant Specific Water Consumption is well within limit of 3.5 M^3/MWh. Further, zero waste water discharge system is already implemented in the Plant.

SLPP is utilizing environment friendly CFBC (Circulating Fluidized Bed Combustion) technology based Boilers to control NOx and SO_2 emission. Hence, NOx emission remains very low (well below limit of 300 mg/Nm^3 as per new norms) due to low combustion temperature (around 850 deg. C) and stage combustion; whereas SO_2 emission is effectively controlled by addition of Limestone and remains well within limit of 600 mg/Nm^3.

Particulate matter emission:

Parameter	Design	Present norms as per CC&A	New applicable norms	Actual emission at present
Particulate Matter	Phase-I: 150 mg/Nm^3 Phase-II: 100 mg/Nm^3	Phase-I: 150 mg/Nm^3 Phase-II: 150 mg/Nm^3	For Phase-I: 100 mg/Nm^3 For Phase-II: 50 mg/Nm^3	Phase-I: 90 to 120 mg/Nm^3 Phase-II: 70 to 90 mg/Nm^3

In this context, we would like to inform that as there is a major change in applicable norms from Design norms / existing norms, ESP design and retrofitting requirements need to be reviewed thoroughly by OEM/reputed vendors/consultant to comply with new applicable norms.

Further, based on our operation data and experience, dust emission from stack at present is in the range of 70 to 120 mg/Nm^3. To comply with new requirement of MoEF, GIPCL needs to revive dummy ESP fields in all four units. For this, installation of complete internals like Collecting plates, Emitting electrodes, Rectiformers, ERM, CRM, Insulators, Shaft, Collecting & Emitting frames, Rectifier panels, Heaters, RAPCON controller, Verticals for LT switchgear, etc. will be required. Further, complete retrofitting of the existing fields need to be done and ESP casing and ducts need to be revamped totally to fulfill the statutory requirement. This is to be verified and crosschecked with OEM considering design aspects for achieving required parameters.

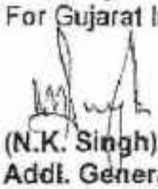
In view of the above and considering the huge requirements, retrofitting and complete revamping of ESP will require time period of approximately five years (i.e. from F.Y. 2016-17 to F.Y. 2020-21) and estimated expenditure for retrofitting

...3

of ESP would be around Rs. 90 crores. The cost needs to be further reviewed based on discussion with OEM/other reputed vendors and detailed analysis in this regard.

Thanking you,

Sincerely Yours,
For Gujarat Industries Power Company Limited,



(N.K. Singh)
Addl. General Manager (SLPP)
(I/C Surat Lignite Power Plant)

Annex: Assessment of implications for Implementation of New emission and water consumption norms

Assessment of Implications for Implementation of New emission and water consumption norms

EXISTING STATIONS

Name of the Power Utility	Gujarat Industries Power Company Limited
Name of Station	Surat Lignite Power Plant
Total Capacity in MW	500 MW
Type of Fuel (Coal/Gas/other (Specify))	Lignite

	GENERAL DATA			SPM			Sox				Nox				
UNITS	Date of Comm	Capacity (MW)	Average PLF during last 2 years	Whether meeting New SPM Norms (Y/N)	If No, Whether ESP retrofits possible (Y/N)	If No, Reasons	Whether meeting New SOx Norms (Y/N)	If No, Whether FGD Required (Y/N)	Whether FGD installation possible (Y/N)	If No, reasons	Whether meeting New NOx Norms (Y/N)	If No, Whether DeNOx system Required (Y/N)	Type of DeNOx system	Whether DeNOx installation possible (Y/N).	If No, reasons
Unit 1	1/16/2000	125	60.51	N	Y	NA	Y	NA	NA	NA	Y	NA	NA	NA	NA
Unit 2	11/5/1999	125	72.50	N	Y	NA	Y	NA	NA	NA	Y	NA	NA	NA	NA
Unit 3	11/29/2009	125	77.75	N	Y	NA	Y	NA	NA	NA	Y	NA	NA	NA	NA
Unit 4	3/25/2010	125	76.15	N	Y	NA	Y	NA	NA	NA	Y	NA	NA	NA	NA

	COOLING SYSTEM			WATER CONSUMPTION			TIME LINE & FUNDS		
UNITS	Type of Cooling (OTC/ CT)	If OTC, whether change to CT possible (Y/N)	If No, reasons	Whether meeting New Norms of 3.5 m3/MWh (Y/N)	If No, whether necessary changes in plant possible to meet new norms (Y/N)	If No, reasons	Time Line required for desired action to meet all Env Norms	Funds required (Rs. In Lack)	Remarks
Unit 1	CT	NA	NA	Y	NA	NA	5 Years (Oct'2020)	2170	Total cost includes expenditure towards revival of dummy ESP fields, replacement and restoration of old ESP fields and TR modification.
Unit 2	CT	NA	NA	Y	NA	NA		2160	
Unit 3	CT	NA	NA	Y	NA	NA		2380	
Unit 4	CT	NA	NA	Y	NA	NA		2290	

By Speed Post

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
सेवा भवन, रामाकृष्णापुरम, नई दिल्ली - 110066
Sewa Bhawan, R.K. Puram, New Delhi-110066
website: www.cea.nic.in

[ISO: 9001-2008]

F.No.CEA/Th./TPE&CC/ENV/50/2015/63-150

Dated: 13.01.2016

Executive Director,
Gujarat Industries Power Company Ltd.
Surat Lignite Power Plant, Village-Nani-Naroli,
Taluk- Mangrol, Distt.-Surat-394110 (Gujarat)
Fax No-02629-261073/74

Subject: Preparation for meeting the revised environmental norms as per Environment (Protection) Amendment Rules, 2015

Sir,

Ministry of Environment, Forest and Climate Change (MoEF&CC) has notified amendments to the Environment (Protection) Rules 1986, and named these rules "Environment (Protection) Amendment Rules, 2015" (Gazette Notification dated 07.12.2015). As per these rules, the standards for the specific water consumption & maximum SPM have been made more stringent. Further standards for maximum limit for SO_2, NOx and mercury emissions by the Thermal Plant have been introduced. The existing as well as new plants are required to meet the above standards by December, 2017 and January 2017 respectively. A copy of the Gazette Notification is enclosed herewith.

It may be seen from Notification that separate emission standards have been prescribed for Thermal Units installed before 31.12.2003 and between 01.01.2004 & 31.12.2016. Further, more stringent emission standards have been formulated for Thermal Units to be installed after 1st January 2017 (including those units which have been accorded environmental clearance and are under construction). All existing Thermal Plants having Once Through Cooling (OTC) would have to install Cooling Towers by December, 2017 meeting maximum specific water consumption of 3.5 m^3/MWh and new plants to be installed from 1st January, 2017 shall meet maximum specific water consumption of 2.5m^3/MWh and zero waste water discharge.

In this context, it is requested to furnish details of preparedness and action plan of Surat Lignite Power Plant for meeting revised water consumption & emission norms by the existing and new thermal units (to be installed from 01.01.2017 onwards). In case of non-feasibility of making any existing/under construction units compliant of above revised norms, the reason thereof may also be informed. The information may be furnished through e-mail & letter at **"cdmcea@yahoo.co.in & Chief Engineer (TPE&CC), CEA, Room No.902 (S), Sewa Bhawan. R.K. Puram, New Delhi-110066".**

An early reply is requested to assess the implications of the revised environment standards on the power sector.

Yours faithfully,

(B.K. Sharma)
Chief Engineer (TPE&CC)

GIPCL - SLPP
BY RPAD/DP/POST/COURIER/HD
INWARD REG.NO 437
DATE 12 JAN 2016
INWARD BY _____

Scan Copy to:
1. C&L
2. BMD
3. EMD
4. C&I
5. Civil
6. AGM(Opn)

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By Speed Post

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
सेवा भवन, रामाकृष्णापुरम, नई दिल्ली - 110066
Sewa Bhawan, R.K. Puram, New Delhi-110066
website: www.cea.nic.in

[ISO: 9001-2008]

F.No.CEA/Th./TPE&CC/ENV/50/2015/67-15

Dated: 13.01.2016

Executive Director,
Gujarat Industries Power Company Ltd.
Surat Lignite Power Plant, Village-Nani-Naroli,
Taluk- Mangrol, Distt.-Surat-394110 (Gujarat)
Fax No-02629-261073/74

Subject: Preparation for meeting the revised environmental norms as per Environment (Protection) Amendment Rules, 2015

Sir,

Ministry of Environment, Forest and Climate Change (MoEF&CC) has notified amendments to the Environment (Protection) Rules 1986, and named these rules "Environment (Protection) Amendment Rules, 2015" (Gazette Notification dated 07.12.2015). As per these rules, the standards for the specific water consumption & maximum SPM have been made more stringent. Further standards for maximum limit for SO_2, NOx and mercury emissions by the Thermal Plant have been introduced. The existing as well as new plants are required to meet the above standards by December, 2017 and January 2017 respectively. A copy of the Gazette Notification is enclosed herewith.

It may be seen from Notification that separate emission standards have been prescribed for Thermal Units installed before 31.12.2003 and between 01.01.2004 & 31.12.2016. Further, more stringent emission standards have been formulated for Thermal Units to be installed after 1st January 2017 (including those units which have been accorded environmental clearance and are under construction). All existing Thermal Plants having Once Through Cooling (OTC) would have to install Cooling Towers by December, 2017 meeting maximum specific water consumption of 3.5 m^3/MWh and new plants to be installed from 1st January, 2017 shall meet maximum specific water consumption of 2.5m^3/MWh and zero waste water discharge.

In this context, it is requested to furnish details of preparedness and action plan of Surat Lignite Power Plant for meeting revised water consumption & emission norms by the existing and new thermal units (to be installed from 01.01.2017 onwards). In case of non-feasibility of making any existing/under construction units compliant of above revised norms, the reason thereof may also be informed. The information may be furnished through e-mail & letter at "cdmcea@yahoo.co.in & Chief Engineer (TPE&CC), CEA, Room No.902 (S), Sewa Bhawan, R.K. Puram, New Delhi-110066".

An early reply is requested to assess the implications of the revised environment standards on the power sector.

Yours faithfully,

(B.K. Sharma) 13/1/16
Chief Engineer (TPE&CC)

Annexure 158

MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 7th December, 2015

S.O. 3305(E).— In exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:–

1. (1) These rules may be called the Environment (Protection) Amendment Rules, 2015.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Environment (Protection) Rules, 1986, in Schedule – I, -

(a) after serial number 5 and entries relating thereto, the following serial number and entries shall be inserted, namely:–

Sr. No.	Industry	Parameter	Standards
1	2	3	4
"5A.	Thermal Power Plant (Water consumption limit)	Water consumption	I. All plants with Once Through Cooling (OTC) shall install Cooling Tower (CT) and achieve specific water consumption upto maximum of 3.5m^3/MWh within a period of two years from the date of publication of this notification. II. All existing CT-based plants reduce specific water consumption upto maximum of 3.5m^3/MWh within a period of two years from the date of publication of this notification. III. New plants to be installed after 1st January, 2017 shall have to meet specific water consumption upto maximum of 2.5 m^3/MWh and achieve zero waste water discharged";

(b) for serial number 25, and the entries related thereto, the following serial number and entries shall be substituted, namely:-

Sr. No.	Industry	Parameter	Standards
1	2	3	4
"25.	Thermal Power Plant	TPPs (units) installed before 31st December, 2003*	
		Particulate Matter	100 mg/Nm^3
		Sulphur Dioxide (SO_2)	600 mg/Nm^3 (Units Smaller than 500MW capacity units) 200 mg/Nm^3 (for units having capacity of 500MW and above)
		Oxides of Nitrogen (NOx)	600 mg/Nm^3
		Mercury (Hg)	0.03 mg/Nm^3(for units having capacity of 500MW and above)
		TPPs (units) installed after 1st January,2003, upto 31st December, 2016*	
		Particulate Matter	50 mg/Nm^3
		Sulphur Dioxide (SO_2)	600 mg/Nm^3 (Units Smaller than 500MW capacity units) 200 mg/Nm^3 (for units having capacity of 500MW and above)
		Oxides of Nitrogen (NOx)	300 mg/Nm^3
		Mercury (Hg)	0.03 mg/Nm^3
		TPPs (units) to be installed from 1st January, 2017**	
		Particulate Matter	30 mg/Nm^3
		Sulphur Dioxide (SO_2)	100 mg/Nm^3
		Oxides of Nitrogen (NOx)	100 mg/Nm^3
		Mercury (Hg)	0.03 mg/Nm^3

*TPPs (units) shall meet the limits within two years from date of publication of this notification.

**Includes all the TPPs (units) which have been accorded environmental clearance and are under construction"

[F. No. Q-15017/40/2007-CPW]

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GUJARAT INDUSTRIES POWER COMPANY LTD.
REGD. OFFICE: P.O. PETROCHEMICAL - 391 346. DIST. BARODA (INDIA)
PHONE: 2232768 FAX: 0265-2230029 E-mail: krmishra@gipcl.com
Website: www.gipcl.com • CIN - L99999GJ1985PLC007868

GIPCL/Comm./2020-21/GERC/ Dtd. 22/05/2020.

To,
The Chairman
Gujarat Electricity Regulatory Commission,
6th floor, GIFT ONE,
Road 5C, Zone 5, Gift City,
Gandhinagar- 382355.

Sub: -Appraisal of the action by GIPCL for its 2 x 250 Surat Lignite Power Plant compliance of the Environment (Protection) Amendment Rules, 2015.

Ref: - Regarding Agenda Item No. 4 of the State Co-ordination forum meeting held on 26.09.2019.

Respected Sir,

We take reference to the deliberations on the issue of compliance of the new environmental norms by Thermal Power Plants in Gujarat during the State Co-ordination Committee Meeting held on 26.09.2019 at GIFT City, Gandhinagar. During the discussion, our representative had briefly appraised the commission regarding the measures being taken by GIPCL at its 2X250 MW Surat Lignite Power Plant to comply with the **Environment (Protection) Amendment Rules, 2015.**

As desired by the Commission, we wish to appraise the honorable commission in detail regarding the actions taken by GIPCL till date for the compliance of the new environmental norms by the SLPP-I & SLPP-2 Plants .

1. **Brief Details of SLPP-1 &2**

The company's Surat Lignite Power Plant comprises of two stages of 250 MW each. Brief details of these Plants are as under:

Plant	Capacity	COD	PPA Duration	**Technology**
SLPP-1 (Units-1 & 2)	250 MW (2 x 125MW) BHEL Make	15/02/2000	30 yrs.	**CFBC**
SLPP-2 (Units-3 & 4)	250 MW (2 x 125 MW) BHEL Make	28/04/2010	30 yrs.	**CFBC**

The Plant has its own captive Lignite Mines operated by GIPCL itself. Any shortfall is met by sourcing from adjacent GMDC Mine or blending with minor quantity of Imported Coal.

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2. Brief summary of the present and new norms applicable for these plants:

Parameter	Present norms	Revised Norms for Plants Installed before 31/12/2003	Revised Norms for Plants Installed between 2004 & 2016
	mg/Nm3	mg/Nm3	mg/Nm3
SO2(<500MW)	None	600	600
Nox	None	600	300
PM	150	100	50
Water cons.	None	<3.5 m3/MWH	<3.5 m3/MWH

SLPP-1 has to comply with norms applicable for the category of plants commissioned before Dec. 2003 while SLPP-2 for plants installed between years 2004 to 2016.

Since our SLPP-1 & 2 Plants are having environment friendly CFBC (Circulating Fluidized Bed Combustion) Boilers, the NOx & SO2 emissions remain below the revised norm of 600 mg/Nm3, achieved primarily due to the low combustion temperature and addition of limestone in the boilers to capture sulphur.

However the amended Particulate Matter (PM) emission norms require ESP up gradation and revival of dummy fields. Limestone handling, milling and conveyer system also requires to be upgraded.

3. PM Emission Status

Plant	Parameter	Design	Present CC & A Norms	Amended Norms	Actual Emissions	Action req.
SLPP-1	Particulate Matter	150 mg/ Nm3	150 mg/ Nm3	100 mg/ Nm3	90-120 mg/ Nm3	ESP Up gradation
SLPP-2	Particulate Matter	100 mg/ Nm3	150 mg/ Nm3	50 mg/ Nm3	70-90 mg/ Nm3	ESP Up gradation

4. Water Consumption & Waste Water Discharge

With regard to the specific water consumption & zero waste water discharge norms, we are complying with the requirements. Both SLPP-1 & 2 have a Closed Loop Cooling Water System fitted with Cooling Towers. Hence our water consumption is well within the limits of 3.5 M3/MwH and a system for zero waste water discharge has already been implemented.

5. Action Plan

We had made a 5 year implementation plan in the year 2015 itself for compliance with the revised norms and presently are confident of completing the up gradation works within the stipulated time frame. The budgeted expenditure is about Rs. 86.34 Crores.

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We have already appraised GUVNL vide our letters dated 19th Feb., 2018 and 26th Oct.2018 about our action plan, budgeted expenditure and also requested their in-principle approval of costs and pass through by way of tariff adjustment as per the terms of our PPA.

6. **Prayer**

Our main prayer has been as under:

1. Capitalization of actual additional expenditure
2. Incremental Aux. Consumption increase due to up gradation of ESP& associated facilities
3. Incremental O & M cost for upgraded ESP and associated facilities.
4. Shutdown (approx. 2 months/ Unit) required for installation and commissioning of upgraded ESP and Limestone facilities, may be allowed as "Deemed Availability" for payment of capacity charges. GIPCL shall try to partly club the up gradation work with the regular shutdown activity; however if any additional shutdown is required to complete the work within the deadline, the same may be allowed under the head of "Deemed Availability".
5. Admittance of costs related to any other up gradation/ modification/retrofitting technically required to meet the norms as approved by CEA.

We wish to appraise the honorable commission that till FY2019- 20, GIPCL has completed up gradation of 40/52 nos. ESP fields & activated 04/08 nos. dummy ESP fields incurring an expenditure of approx. Rs.20.33 crores. The detailed implementation plan is annexed as Annexure-A.

We hope the above information is in line with the requirement and would be glad to provide any other required details in this regard.

With kind regards,

Yours faithfully,

For Gujarat Industries Power Co. Ltd.

(Smt. Kiran R Mishra)
Additional Gen. Manager (Commerce, Finance & Legal)

Encl.:
1. Annexure- A (Implementation Plan)

Cc to: GM (IPP) GUVNL.
Gujarat Urja Vikas Nigam Limited,
Sardar Patel Vidyut Bhawan,
Race Course Circle, Baroda.

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Annexure- A

Five Year Plan for meeting revised environmental norms for refurbishment of Electro Static Precipitators (ESP) fields along with repair/replacement/strengthening of ESP casing /structure:

5 Year Plan for ESP to meet revised norms	2016-17	2017-18	2018-19	2019-20	2020-21	In Lacs	Nos.
	6 Field Replacement	7 Field Replacement	9 Field Replacement + 2 Dummy Field Revival	18 Field Replacement + 2 Dummy Field Revival	12 Field Replacement + 4 Dummy Field Revival	Total Cost	Total Field
Phase-1	0	3	3	12	10	3935	28
Unit-1	0	2	1	7	4		
Unit-2	0	1	2	5	6		
Phase-2	6	4	8	8	6	3573	32
Unit-3	0	0	3	5	6		
Unit-4	6	4	5	3	0		
Total fields	6	7	11	20	16		60
Total planned Cost	545	745	1277	2367	2574	7508	60
Contingency (@15 %)						1126	
Gross Expenditures						8634	

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4463. Approval for Electrostatic Precipitators (ESP) refurbishment at Surat Lignite Power Plant (SLPP) to meet revised Environment norms of Suspended Particulate Matters [SPM] by end of 2020 notified by Ministry of Environment Forest and Climate Change [MoEF & CC], Government of India (GoI) in year 2015.

Managing Director informed the Board that since it is required to emit clean flue gas into the atmosphere, Electrostatic Precipitators (ESP) were installed in the boilers at SLPP to collect and remove the fly ash from flue gas before emission.

The fly ash content in Lignite at SLPP remains around 8 to 10 % and feeding of lime stone is around 8 to 10 %, every day each Boiler generates around 400 to 450 MT of fly ash. In compliance with the norms laid down by the Pollution Control Board, it is necessary to maintain the Suspended Particulate Matter (SPM) below the prescribed limits. Hence it was imperative to ensure healthiness of ESP Fields.

At SLPP the ESP internals and casing plates were badly corroded due to the presence of chlorine and sulfur in the lignite. Heavy air ingress through these casing plates and the subsequent erosion of the collecting electrodes (i.e. internals) aggravated the deterioration of the ESP fields. Also, air ingress through corroded casing plates ultimately resulted in reduction in power generation.

As per the existing pollution control norms prescribed by the Pollution Control Board, SPM in the flue gas was required to be controlled/ maintained below 150 mg /Nm^3 for Phase I and Phase- II Units before emission in to the atmosphere through the chimney.

Arrangement / Specification of the existing ESP and the revised Emission Standards issued vide Notification No. S.O. 3305 (E) dated 07.12.2015 by the Ministry of Environment, Forest and Climate Change (MoEF & CC), were as given below:

Unit No.	Nos. of Pass	Nos. of Field/Pass	Total Nos. of field	Existing Criteria	Equipment Design	Revised Criteria as per notification and Unit of Measurement	
Unit-1	2(A & B)	6 +1(Last dummy)	12 + 2	150	150	**100***	mg/ Nm^3
Unit-2	2(A & B)	6 +1(Last dummy)	12 + 2	150	150	**100 ***	
Unit-3	2(A & B)	7 +1(First dummy)	14 + 2	150	100	**50 ****	
Unit-4	2(A & B)	7 +1(First dummy)	14 + 2	150	100	**50 ****	
Total available field 52 + 8 dummy field			*(Units commissioned before year-2003) **(Units commissioned after year-2003)				

In order to comply with the new environmental norms, it is necessary to ensure the healthiness of ESP fields of Units 1 to 4 of SLPP throughout the year. Further, as per the Notification issued by the MOEF & CC in December -15 and subsequent letters / intimations received from various Government authorities, it is mandatory to maintain emission standards as per the notification. Also, violation of environment norms could result in initiation of stringent actions against the Company by the said authorities.

Managing Director further informed the Board that from 16/06/2017 online monitoring was being carried out by CPCB/GPCB of the emission levels of SPM along with SO_2/NOX in flue gas and on violation of the prescribed norms, an alarm message to take corrective actions was received through SMS from the authorities.

The ESP of SLPP works in hostile and highly corrosive atmosphere due to presence of sulphur and chlorine in the lignite. Also, the damage mechanism is an incessant process and every year six to eight

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fields need to be refurbished as per condition assessment, damage projection and convenience. In the view of the said Notification issued by MoEF & CC, it is essential that the Plant be graithed to comply with the norms by 2020. During the three years i.e from FY 2018-2021, it was proposed to replace around 41 fields and revive 08 dummy fields.

Managing Director proposed that the Annual Overhauling (AOH) would be the ideal time to replace / refurbish / revive the field(s) without causing loss of generation. Also, it would be advisable to refurbish the ESP field(s) in phased manner, as per the opportunity available, to cope up with the quantum of work. Detailed Plan to meet the revised norms till year 2020-21 is as below:

5 YEAR WORK PLAN FOR ESP TO MEET REVISED NORMS	2016-17	2017-18	2018-19	2019-20	2020-21	Rs. In Lakh	Nos.
	6 Field Replace-ment	7 Field Replace-ment	9 Field Replacement + 2 Dummy Field Revival	18 Field Replacement + 2 Dummy Field Revival	12 Field Replacement + 4 Dummy Field Revival	Total Cost	Total Field
Phase-1	**0**	**3**	**3**	**12**	**10**	3935	28
Unit-1	0	2	1	7	4		
Unit-2	0	1	2	5	6		
Phase-2	**6**	**4**	**8**	**8**	**6**	3573	32
Unit-3	0	0	5	5	6		
Unit-4	6	4	3	3	0		
Present Status	Executed		Proposal under consideration	To be proposed			
Total Cost	545	745	1277	2367	2574	7508	60
Contingency (@15 %)						1126	
Gross Expenditures						8634	

Execution history till date was as detailed below:

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21
Present Status	Replacement of **six** Field **Completed** in Unit-4 in 2016-17	Replacement of **Four and Half** Field **Completed** in Unit-4, **One** Field in Unit-2 in 2017-18. Material of Approx. 2 fields are on hand. Installation will be carried out in next opportunity	Proposal is under **consideration** for 9 fields replacement + 2 Dummy field revival	To be planned for 18 Field Replacement + 2 Dummy Field Revival	To be planned for 12 Field Replacement + 4 Dummy Field Revival

The scope of work covered refurbishment of ESP fields (i.e. Replacement of all working internals) along with repair/replacement/strengthening of ESP casing/structure. Refurbishment also included Installation of all internals in two dummy fields in each unit. It was also proposed to incorporate Three Phase transformer in initial fields of ESP. The total estimated expenditure for 5 years would be appx Rs. 86.34 crores, of which the expenditure incurred in the last two financial years was approx. Rs.

14.83 crores and estimated expenditure for 3 years i.e from FY 2018-2021, as per work plan including all taxes/ duties would be Rs. 71.51 crores.

The Board was further informed that the proposal for year wise refurbishment of ESP would be put up to Managing Director / Board of Directors as per applicable Delegation of Power (D.O.P) for award/execution of work for refurbishment of ESP fields along with repair / replacement / strengthening of ESP casing / structure.

The Board suggested that the steps / process followed by other Government of Gujarat (GoG) companies to comply with the new emission norms be checked and the Board be appraised.

The Board of Directors noted the work already under taken in the previous 2 financial years, that to be carried out in 3 financial years from 2018-2021 and the estimated expenditure required to be incurred to comply with new emission standards vide Gazette Notification No. S.O. 3305(E) dated 07.12.2015 for Thermal Power Plant issued by the MoEF & CC, GoI. After detailed discussions and deliberations, the Board passed the following resolution:

"**RESOLVED THAT** 'in principle' approval of Board of Directors be and is hereby accorded for refurbishment of Electro Static Precipitator (ESP) fields along with repair/replacement /strengthening of ESP casing/structure as may be required at an estimated cost (including contingency of 15%) of up to Rs. 71.51 crores over a period of three financial years commencing from FY 2018-19 to ensure compliance with the new Emission Standards notified for the Thermal Power Plants by the Ministry of Environment & Forest and Climate Change (MoEF & CC), Government of India vide Gazette Notification No. S.O. 3305 (E) dated 07.12.2015."

(N) 166

GUJARAT INDUSTRIES POWER COMPANY LTD.
REGD. OFFICE: P.O. PETROCHEMICAL - 391 346. DIST. BARODA (INDIA)
PHONE: 2232768. 2232213. 2230159 FAX: 0265-2231240 E-mail: krmishra@gipcl.com
Website: www.gipcl.com • CIN - L99999GJ1985PLC007868

No: COMM/SLPP/2017/ Date:-19th Feb, 2018

To,
General Manager (IPP)
Gujarat Urja Vikas Nigam Limited,
Sardar Patel Vidyut Bhawan,
Race Course Circle, Baroda.

Sub: - Expenditure to meet revised environmental norms at SLPP as per Environment (Protection) Amendment Rules, 2015.

Ref: - **(i) Power Purchase Agreement dated 15/04/1997.**
(ii) Power Purchase Agreement dated 13/08/2013.

Dear Madam,

This is with reference to "Environment (Protection) Amendment Rules, 2015 notified on 07.12.2015. As per these rules, the standards for the specific water consumption & maximum SPM have been made more stringent. Further, standards for the maximum limit for SO_2, NOx and mercury emissions by the Thermal Plant have been introduced. In this notification there is a separate emission standard for Power Plant commissioned before 31.12.2003 and between 01.01.2004 to 31.12.2016. According to the notification, the specific water consumption norms is also required to be met i.e. maximum up to 3.5 M^3/MWh with zero waste water discharge.

We have received the letter dated 13.01.2016 from CEA, letter dated 01.03.2016 and 19.06.2017 from Gujarat of Gujarat, EPD, as well as letter dated **11.12.2017 from Central Pollution Control Board (CPCB)** for compliance of the Revised Environment Norms.

The COD date of SLPP-I & II are as mentioned herein below:

Unit No.	Unit Capacity (MW)	COD
Phase-I	250	15/02/2000
Phase-II	250	28/04/2010

Since SLPP –I commissioned before 31.12.2003 and SLPP-II before 31.12.2016, in addition to SO_2, NOx and mercury emissions, the specific water consumption norms is also required to be met as maximum up to 3.5 M^3/MWh with zero waste

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water discharge. Here we would like to submit that, as such SLPP is having Cooling Towers (Closed Loop) for all four units and owing to several water conservation measures, Plant Specific Water Consumption is well within limit of 3.5 M^3/MWh. Further, zero waste water discharge system is already implemented in the Plant. Hence the water consumption norms as prescribed are being complied by the Power Plant.

Further, SLPP is having environment friendly CFBC (Circulating Fluidized Bed Combustion) technology based Boilers to control NOx and SO_2 emission. Hence, NOx emission remains very low (well below limit of 600 mg/Nm^3 as per new norms) due to low combustion temperature (around 850 deg. C) and stage combustion; whereas SO_2 emission is effectively controlled by addition of Limestone and remains well within limit of 600 mg/Nm^3. Since there is a change in the emission norms of Particulate Matter (PM), this leads to major modification in the Design norms / existing norms, ESP design and retrofitting requirements.

The details of Particulate Matter (PM) emission at SLPP and requirement as per new environment protection rules are as under:

Parameter	Design	Present norms as per CC&A	New applicable norms	Actual emission at present
Particulate Matter	Phase-I: 150 mg/Nm^3 Phase-II: 100 mg/Nm^3	Phase-I: 150 mg/Nm^3 Phase-II: 150 mg/Nm^3	For Phase-I: 100 mg/Nm^3 For Phase-II: 50 mg/Nm^3	Phase-I: 90 to 120 mg/Nm^3 Phase-II: 70 to 90 mg/Nm^3

As such the new applicable norms is quite stringent, having major changes from Design norms/ existing norms, ESP design and retrofitting requirements have been reviewed thoroughly by our team in consultation with the OEM/ reputed vendors/ consultant to comply with new applicable norms.

Further, based on our operation data and experience, dust emission from stack at present is in the range of 70 to 120 mg/Nm^3. To comply with new requirement of CPCB, GIPCL needs to revive dummy ESP fields in all four units. For this, installation of complete internals like Collecting plates, Emitting electrodes, Rectiformers, ERM, CRM, Insulators, Shaft, Collecting & Emitting frames, Rectifier panels, Heaters, RAPCON controller, Verticals for LT switchgear, etc. will be required. Further, replacement of the existing fields need to be done and ESP casing and ducts need to be revamped totally to fulfill the statutory requirement. This is to be verified and crosschecked with OEM considering design aspects for achieving required parameters.

In view of the above and considering the huge modification requirements, revival of dummy ESP fields, replacement of existing ESP fields and complete revamping of ESP casing and duct during the operational phase, this will require time period of approximately five years (i.e. from F.Y. 2016-17 to F.Y. 2020-21) and estimated expenditure would be around Rs. 90 crores as mentioned herein below.

SLPP UNIT	Additional Expenditure for ESP (Rs. in Lacs)	Additional Cost of Generation (Rs./kWh)
Unit 1	2170	0.050
Unit 2	2160	
Unit 3	2380	0.064
Unit 4	2290	
Total	9000	0.057

The above work had been started during the Shutdown activities in F.Y. 2016-17 and will continue till F.Y. 2020-21, as the time period given by CEA and CPCB. Copy of the CPCB letter dated 11th December,2017 enclosed herewith for your reference.

Since the above expenditure needs to be incurred for compliance of environment norms, we seek your in principle approval as per PPA terms & Conditions Article 10 for SLPP-I and Article 13 for SLPP-II.

You are requested to give in principle approval to enable us to line up the future shutdown activities to achieve the target given by CPCB.

Thanking you,

Yours faithfully,

For Gujarat Industries Power Co. Ltd.

(K.R.Mishra)
Addl. Gen. Mgr. (Comm. & Fin.)

Copy enclosed: (1) CPCB letter dated 11th December,2017
(2)CEA letter dated 13.01.2016
(3) GOG, EPD letter dated 19th June,17

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
सेवा भवन, रामाकृष्णापुरम, नई दिल्ली - 110066
Sewa Bhawan, R.K. Puram, New Delhi-110066
website: www.cea.nic.in

[ISO: 9001-2008]

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F.No.CEA/Th/TPE&CC/ENV/50/2015/67-150

Dated: 13.01.2016

Executive Director,
Gujarat Industries Power Company Ltd.
Surat Lignite Power Plant, Village-Nani-Naroli,
Taluk- Mangrol, Distt.-Surat-394110 (Gujarat)
Fax No-02629-261073/74

Subject: Preparation for meeting the revised environmental norms as per Environment (Protection) Amendment Rules, 2015

Sir,

Ministry of Environment, Forest and Climate Change (MoEF&CC) has notified amendments to the Environment (Protection) Rules 1986, and named these rules "Environment (Protection) Amendment Rules, 2015" (Gazette Notification dated 07.12.2015). As per these rules, the standards for the specific water consumption & maximum SPM have been made more stringent. Further standards for maximum limit for SO_2, NOx and mercury emissions by the Thermal Plant have been introduced. The existing as well as new plants are required to meet the above standards by December, 2017 and January 2017 respectively. A copy of the Gazette Notification is enclosed herewith.

It may be seen from Notification that separate emission standards have been prescribed for Thermal Units installed before 31.12.2003 and between 01.01.2004 & 31.12.2016. Further, more stringent emission standards have been formulated for Thermal Units to be installed after 1st January 2017 (including those units which have been accorded environmental clearance and are under construction). All existing Thermal Plants having Once Through Cooling (OTC) would have to install Cooling Towers by December, 2017 meeting maximum specific water consumption of 3.5 m^3/MWh and new plants to be installed from 1st January, 2017 shall meet maximum specific water consumption of 2.5m^3/MWh and zero waste water discharge.

In this context, it is requested to furnish details of preparedness and action plan of Surat Lignite Power Plant for meeting revised water consumption & emission norms by the existing and new thermal units (to be installed from 01.01.2017 onwards). In case of non-feasibility of making any existing/under construction units compliant of above revised norms, the reason thereof may also be informed. The information may be furnished through e-mail & letter at **"cdmcea@yahoo.co.in & Chief Engineer (TPE&CC), CEA, Room No.902 (S), Sewa Bhawan, R.K. Puram, New Delhi-110066".**

An early reply is requested to assess the implications of the revised environment standards on the power sector.

Yours faithfully,

(B.K. Sharma)
Chief Engineer (TPE&CC)

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MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 7th December, 2015

S.O. 3305(E).— In exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:–

1. (1) These rules may be called the Environment (Protection) Amendment Rules, 2015.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Environment (Protection) Rules, 1986, in Schedule – I, -

(a) after serial number 5 and entries relating thereto, the following serial number and entries shall be inserted, namely:–

Sr. No.	Industry	Parameter	Standards
1	2	3	4
"5A.	Thermal Power Plant (Water consumption limit)	Water consumption	I. All plants with Once Through Cooling (OTC) shall install Cooling Tower (CT) and achieve specific water consumption upto maximum of 3.5m^3/MWh within a period of two years from the date of publication of this notification. II. All existing CT-based plants reduce specific water consumption upto maximum of 3.5m^3/MWh within a period of two years from the date of publication of this notification. III. New plants to be installed after 1st January, 2017 shall have to meet specific water consumption upto maximum of 2.5 m^3/MWh and achieve zero waste water discharged";

(b) for serial number 25, and the entries related thereto, the following serial number and entries shall be substituted, namely:-

Sr. No.	Industry	Parameter	Standards
1	2	3	4
"25.	Thermal Power Plant	TPPs (units) installed before 31st December, 2003*	
		Particulate Matter	100 mg/Nm^3
		Sulphur Dioxide (SO_2)	600 mg/Nm^3 (Units Smaller than 500MW capacity units) 200 mg/Nm^3 (for units having capacity of 500MW and above)
		Oxides of Nitrogen (NOx)	600 mg/Nm^3
		Mercury (Hg)	0.03 mg/Nm^3 (for units having capacity of 500MW and above)
		TPPs (units) installed after 1st January, 2003, upto 31st December, 2016*	
		Particulate Matter	50 mg/Nm^3
		Sulphur Dioxide (SO_2)	600 mg/Nm^3 (Units Smaller than 500MW capacity units) 200 mg/Nm^3 (for units having capacity of 500MW and above)
		Oxides of Nitrogen (NOx)	300 mg/Nm^3
		Mercury (Hg)	0.03 mg/Nm^3
		TPPs (units) to be installed from 1st January, 2017**	
		Particulate Matter	30 mg/Nm^3
		Sulphur Dioxide (SO_2)	100 mg/Nm^3
		Oxides of Nitrogen (NOx)	100 mg/Nm^3
		Mercury (Hg)	0.03 mg/Nm^3

(units) shall meet the limits within two years from date of publication of this notification.

ies all the TPPs (units) which have been accorded environmental clearance and are under

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K.H.Chorera
Officer on Special Duty
(Power)

No. GSE-14-2016-111-K
Government of Gujarat,
Energy and Petrochemicals Department,
Block No.5, 5th Floor, Sardar Bhavan,
Sachivalaya, Gandhinagar.
Date: 19th June 2017

FAX 987

To,

1. The Managing Director, GMDC, Ahmedabad.
2. The Managing Director, GIPCL, Vadodara
3. The Managing Director, GSECL, Vadodara.
4. The Managing Director, M/s. Adani Power Ltd, Ahmedabad.
5. The Managing Director, M/s. CGPL, Mundra.
6. The Managing Director, M/s. EPGL, Ahemdabad.
7. The Director, M/s. TPL, Ambavadi, Ahmedabad.

Subject: Compliance with new Environmental standards for thermal power stations- reg.

Sir,

I am directed to refer to the subject noted above and to state that the Ministry of Environment, Forest & Climate Change, Government of India, have issued new Environmental Standards for Thermal Power Stations vide Gazette notification dated 7-12-2016. As per this notification, all existing power stations are required to comply with the new standards within two years (i.e. by 07-12-2017) and the new stations commissioned on and after 01-01-2017 are required to meet the new standards from the date of their commissioning. In order to meet the new norms, the power stations need to install Flue Gas Desulphurisation (FGD). In this regard, the Phasing of Implementation plan for FGD installation in Coal based thermal units, the phasing of implementation plan for ESP upgradation in lignite-based units and a Phasing Out plan prepared by CEA in consultation with respective utility and SLDC, are enclosed.

In view of the above, I am to request you to take further appropriate action, as per the finalized Implementation Plan and Phasing out Plan and communicate to this Department about the confirmation on the same, within a week's time, positively.

This may please be treated as urgent.

Yours faithfully,

(K.H.Chorera)
Officer on Special Duty (Power)
Energy and Petrochemicals Department

Encl: As Above

AGM(BO) / AGM(SLPP)

ANNEX-I

Phasing Plan for FGD Implementation-GUJARAT

Sr. No.	Developer	Name of Project	Sector	State	Region	Unit No	Total Capacity	Date of COMMISSIONING month/day/year	Age in years	Type of Fuel	Whether FGD installed	Whether CFBC	Whether FGD space available (Y/N)	Whether FGD planned (Y/N)	Compliance Date as per Notification dated 31.12.2015
1	Torrent Power Generation Ltd	SABARMATI	Private Sector	Gujarat	WR	1	120	10/12/1976	38	COAL	N	N	Y	Y	31/03/2021
2	GSECL	UKAI TPS	State Sector	Gujarat	WR	3	200	1/21/1979	38	COAL	N	N	Y	Y	31/12/2021
3	GSECL	UKAI TPS	State Sector	Gujarat	WR	4	200	3/28/1979	38	COAL	N	N	Y	Y	31/12/2021
4	GSECL	WANAKBORI TPS	State Sector	Gujarat	WR	1	210	3/23/1982	35	COAL	N	N	Y	Y	31/12/2021
5	GSECL	WANAKBORI TPS	State Sector	Gujarat	WR	2	210	1/15/1983	34	COAL	N	N	Y	Y	31/12/2021
6	GSECL	WANAKBORI TPS	State Sector	Gujarat	WR	3	210	3/15/1984	33	COAL	N	N	Y	Y	31/12/2021
7	Torrent Power Generation Ltd	SABARMATI	Private Sector	Gujarat	WR	2	121	12/31/1984	32	COAL	N	N	Y	Y	31/03/2021
8	GSECL	UKAI TPS	State Sector	Gujarat	WR	5	210	1/30/1985	32	COAL	N	N	Y	Y	31/12/2021
9	GSECL	WANAKBORI TPS	State Sector	Gujarat	WR	4	210	3/31/1986	31	COAL	N	N	Y	Y	31/12/2021
10	GSECL	WANAKBORI TPS	State Sector	Gujarat	WR	5	210	9/23/1986	30	COAL	N	N	Y	Y	31/12/2021
11	GSECL	WANAKBORI TPS	State Sector	Gujarat	WR	6	210	11/10/1987	29	COAL	N	N	Y	Y	31/12/2021
12	Torrent Power Generation Ltd	SABARMATI	Private Sector	Gujarat	WR	3	121	9/26/1988	28	COAL	N	N	Y	Y	31/03/2021
13	GSECL	GANDHI NAGAR TPS	State Sector	Gujarat	WR	3	210	3/30/1990	27	COAL	N	N	Y	Y	31/12/2021
14	GSECL	KUTCH LIG TPS	State Sector	Gujarat	WR	1	70	3/23/1990	27	Lignite	N	N	Y	Y	31/12/2021
15	GSECL	KUTCH LIG TPS	State Sector	Gujarat	WR	2	70	3/20/1991	26	Lignite	N	N	Y	Y	31/12/2021
16	GSECL	GANDHI NAGAR TPS	State Sector	Gujarat	WR	4	210	7/30/1991	25	COAL	N	N	Y	Y	31/12/2021
17	GSECL	KUTCH LIG TPS	State Sector	Gujarat	WR	3	75	3/31/1997	20	Lignite	N	N	Y	Y	31/12/2021
18	GSECL	GANDHI NAGAR TPS	State Sector	Gujarat	WR	5	210	3/17/1998	19	COAL	N	N	Y	Y	31/12/2021
19	GSECL	WANAKBORI TPS	State Sector	Gujarat	WR	7	210	12/31/1998	18	COAL	N	N	Y	Y	31/12/2021
20	Adani Power Ltd	MUNDRA TPS	Private Sector	Gujarat	WR	1	330	8/1/2009	7	COAL	N	N	Y	Y	31/03/2022
21	Adani Power Ltd	MUNDRA TPS	Private Sector	Gujarat	WR	2	330	3/17/2010	7	COAL	N	N	Y	Y	31/03/2022
22	Adani Power Ltd	MUNDRA TPS	Private Sector	Gujarat	WR	3	330	8/2/2010	6	COAL	N	N	Y	Y	31/12/2021
23	Adani Power Ltd	MUNDRA TPS	Private Sector	Gujarat	WR	4	330	12/20/2010	6	COAL	N	N	Y	Y	30/09/2021
24	Adani Power Ltd	MUNDRA TPS	Private Sector	Gujarat	WR	5	660	12/26/2010	6	COAL	N	N	Y	Y	30/06/2021
25	Adani Power Ltd	MUNDRA TPS	Private Sector	Gujarat	WR	6	660	7/20/2011	5	COAL	N	N	Y	Y	31/03/2021
26	Essar Group	SALAYA TPP	Private Sector	Gujarat	WR	1	600	1/4/2012	5	COAL	N	N	Y	Y	30/06/2021
27	Tata Power (CGPL)	MUNDRA UMTPP	Private Sector	Gujarat	WR	1	800	3/7/2012	5	COAL	N	N	Y	Y	30/06/2020
28	Essar Gujarat	SALAYA TPP	Private Sector	Gujarat	WR	2	600	6/15/2012	5	COAL	N	N	Y	Y	31/03/2021
29	Tata Power (CGPL)	MUNDRA UMTPP	Private Sector	Gujarat	WR	2	800	7/30/2012	4	COAL	N	N	Y	Y	31/03/2021
30	Tata Power (CGPL)	MUNDRA UMTPP	Private Sector	Gujarat	WR	3	800	10/27/2012	4	COAL	N	N	Y	Y	30/06/2021
31	Tata Power (CGPL)	MUNDRA UMTPP	Private Sector	Gujarat	WR	4	800	1/21/2013	4	COAL	N	N	Y	Y	30/09/2021
32	GSECL	UKAI TPS	State Sector	Gujarat	WR	6	500	3/5/2013	4	COAL	N	N	Y	Y	31/03/2022
33	Tata Power (CGPL)	MUNDRA UMTPP	Private Sector	Gujarat	WR	5	800	3/22/2013	4	COAL	N	N	Y	Y	31/03/2022
34	GSECL	SIKKA REP. TPS	State Sector	Gujarat	WR	3	250	3/29/2015	2	COAL	N	N	Y	Y	31/03/2022
35	GSECL	SIKKA REP. TPS	State Sector	Gujarat	WR	4	250	9/25/2015	1	COAL	N	N	Y	Y	31/03/2022

12127 MW

केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

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SPEED POST

B-33014/07/2017-18/IPC-II/TPP/ 15894

December 11, 2017

To

The General Manager
Surat Lignite Power Station
Vill. Nani Naroli, Taluka: Mangrol
Surat- 394110, Gujarat

Sub: Directions under Section 5 of the Environment (Protection) Act, 1986 regarding compliance of emission limit notified vide notification No.S.O.3305 (E) dated 07.12.2015 - reg.

WHEREAS, taking into consideration pollution from thermal power plants, Ministry of Environment, Forest & Climate Change had issued notification in the year 1984 laying out standards for thermal power plants. Further, the stack height regulation was notified in the year 1989 and effluent standard for thermal power plants was notified in the year 1986. The revised temperature limit of discharge of cooling water from the plants was notified in the year 1999 and thereafter use of beneficiated coal in the plants was issued in June 2002. The fly ash utilization notification was also issued On 14th September, 1999 and amended in the year 2003 and 2009. Thereafter, MoEF&CC vide Notification No. S.O.3305(E) dated 07.12.2015 has amended emission limit for particulate matter and notified new limits for Sulphur dioxide (SO_2), Oxides of Nitrogen (NOx) and mercury emission, and water consumption limit for coal/lignite based thermal power plants. As per the notification dated 07.12.2015, thermal power plants are required to achieve the notified limit within two years from the date of the notification i.e. by 07.12.2017;

WHEREAS, with the implementation of the amendment dated 07.12.2015, it is expected that there would be reduction in emission of PM, Sulphur dioxide and oxide of Nitrogen, which in turn will help in improvement in Ambient Air Quality in and around thermal power plants, besides reduction of mercury emission and water use in the thermal power plants will reduce;

WHEREAS, in the meeting on Coal Washeries (Environment & Forest Clearances) and Emission Norms for Thermal Power Plants chaired by the Hon'ble Minister of Environment, Forest & Climate Change and Minister of Power, Coal & Renewable Energy on June 08, 2016, it was decided that a committee comprising representatives from MoEF & CC, Ministry of Power (MoP),Central electricity Authority (CEA), Ministry of Coal (MoC), Power Grid Corporation of India Limited (PGCI) and Central Pollution Control Board (CPCB) may be constituted to look into the all issues related to implementation of norms;

WHEREAS, following decisions were taken in the meeting:

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1. MoP/CEA shall submit action plan by December 2016 for phasing out of the power plants commissioned before December, 2003.
2. MoP / CEA shall submit action plan by December, 2016 in respect of power plants commissioned during January, 2004 to December, 2016 indicating unit wise retrofit / renovation for each power plant. The implementation of action plan shall be taken up in backword manner starting from the plants commissioned in the 2015 and the shall be completed by 15.08.2022
3. MoP and CEA shall coordinate with each State Public Sector Undertakings separately for submission of action plan by December, 2016 for all the power plants.

WHEREAS, it was further decided that MoP shall take action for installation of Flue gas Desulphurisation (FGD) if needed to achieve prescribed SO_2 norms based on the SO_2 emission levels from power plants;

WHEREAS, it was also pointed out that NOx control technology in case of Indian coal is not established. Selective Catalytic Reduction (SCR) technology is used for NOx control, however, its feasibility for Indian coal needs to be established. MoP suggested that Pilot studies may be taken up in two plants and based on the results, further action plan to be drawn regarding retrofitting of SCR in plants to achieve prescribed NOx norms;

WHEREAS, the MoP constituted a committee under the Chairmanship of Chairman, Central Electricity Authority (CEA) on 21.09.2016 to prepare an action plan for implementation of new emission limits;

WHEREAS, to ensure compliance of the new emission norms the MOEF&CC convened a meeting on 23.05.2017 in which CEA, NTPC and the Central Pollution Control Board participated;

WHEREAS, the MOEF&CC received a letter from Secretary Ministry of Power *vide* their D.O. letter No. FU-1/2016-IPC dated 30th June, 2017 indicating the concerns of various thermal power plants in the country with regard to the compliance with the new emission norms for the thermal power plants notified on 7.12.2015 particularly w.r.t. Particulate Matter (PM), Sulphur dioxide (SO_2) & Oxides of Nitrogen (NO_x);

WHEREAS, it was noted that out of present 196667 MW installed capacity, about 60 % capacity (1,15,214 MW) meets the new PM norms with existing ESP installations. Remaining capacity of 64,334 MW which does not meet the new environmental norms regarding PM, requiring retrofitting additional fields in Electrostatic Precipitator (ESP)/replacement of ESP in existing plants to meet the new emission norms of PM;

WHEREAS, Ministry of Power after consultation with Central electricity Authority informed that retrofitting additional fields in ESP/replacement of ESP in existing plants will need complete shutdown of 4-6 months for each unit;

WHEREAS, in order to meet SO_2 emission norms, FGD system shall be required to be installed in all plants. MoP informed that about 30-36 months required for design & engineering, approvals, funds arrangements, tendering, erection and commissioning of FGD. Besides, planned shutdown will be required as all plants cannot be shut down simultaneously. Another challenge highlighted for installation of FGD was availability of technologies/suppliers. In addition, issues relating to availability of good quality lime stone for operation of FGD and disposal of Gypsum to run the FGD in existing plants were also taken note of;

WHEREAS, the standard of 300 & 100 mg/NM^3 would require installation of Selective Non Catalytic Reduction (SNCR) or Selective Non Catalytic Reduction (SCR). While these technologies are established globally, these are not established for Indian Coal, which has high ash content. Therefore, it was decided to engage various technology vendors to run pilots at NTPC stations to validate technology of SNCR/SCR system for Indian coal;

WHEREAS, the Ministry of Power in the letter dated 30.06.2017 enclosed the report outlining the plan of action for implementation of the new norms keeping in mind the techno-economic feasibility and ensuring availability of power to all at affordable cost without any disruption;

WHEREAS, as per the phasing plan proposed by MOP after consultation with CEA and Regional Power Committees, out of the installed capacity of 1, 87,162 MW (as on December, 2016), 8217 MW have been identified for retirement/already retired. Further, 12,974 MW of capacity already have either CFBC boilers or FGDs.

WHEREAS, a phasing plan was proposed for the balance 165971 MW of coal based thermal capacity for achieving compliance with 145977 MW capacity proposing installation of FGDs within a period of 7 years to be undertaken in a phased manner. About 3205 MW of coal based capacity was stated to be compliant with revised norms of SO_2 emission;

WHEREAS, it was further noted that approximately about 16789 MW would not be able to install FGDs due to various constraints which include lack of space, etc.;

WHEREAS, CEA has worked out the requirement of capacity of coal based thermal power plants including hydro, wind, solar, gas based units to meet the estimated peak demand of 225 GW in 2021-22;

WHEREAS, MoP suggested that the compliance period of PM for the plants installing FGD may be kept same as per the FGD phasing plan;

WHEREAS, it was requested that for implementation of NOx norms in the plants installed before 31.12.2003 a period of three years may be permitted to achieve specified standards of 600 mg/Nm^3. For other plants a

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relaxation of 600 mg/Nm³ in place of 300 and 100 mg/Nm³ for a period of 3 years was also requested;

WHEREAS, taking into account the issues/concerns raised by the MoP and the sensitivity involved in the matter as it relates to general public of the country, the Ministry undertook detailed analysis of each of the issues in the meetings held on 06.07.2017, 27.07.2017, 11.08.2017 and 01.09.2017. These meetings were also attended by the various stakeholders including Ministry of Power, CEA, NTPC etc.;

WHEREAS, MOEF & CC in the meeting with MoP, CEA, NTPC & CPCB etc. held on September 1, 2017 decided that the action plan submitted by MoP for 7 years i.e. up to 2024 was too long and it should instead commence from 2018 and implemented by 2022 with respect to all pollutants. It was further suggested that action plan should be revised prioritising the plants located in critically polluted area /close to habitation /urban area. Based on the decisions taken in the meeting Ministry of Power vide letter No. FU-1/2017-IPC dated 13.10.2017 submitted the revised action plan, to implement/phasing FGD installation/ ESP upgradation to meet new emission norms for thermal power plants;

WHEREAS, as per the revised plan submitted by the MoP vide letter dated 13.102.17, 650 units comprising 196667 MW need to meet the new emission limits. Out of 650 units, FGD will be installed to achieve the emission limit of SO_2 by the year 2022 in all 415 units comprising 161522 MW (01 unit by 2018, 08 units by 2019, and 55 units by 2020, 172 units by 2021 and 178 units by 2022, for 01 units with 150 MW capacity plan is not received). Remaining 235 units comprised of 35145 MW either complying with SO2 emission limits or planned for phasing out;

WHEREAS, ESP upgradation to achieve emission limit of particulate matter will be completed by the year 2022 in PM for 231 units comprising of 65925 MW capacity out of 650 units (01 unit by 2018, 02 units by 2019, 28 units by 2020, 97 units by 2021 and 94 units by 2022, for 09 units of 1400 MW capacity plan by 2022);

WHEREAS, with regard to compliance of emission limit of NOx, it is suggested that pre combustion modification such as in situ modification in boiler, installation of Low NOx burners and Over Fire Air shall be adopted besides installation of SCR/SNCR systems wherever needed by the year 2022;

WHEREAS, electricity is cleanest form of energy which helps in mitigating house hold air pollution which is matter of concern;

WHEREAS, there is need to provide electricity supply to people who do not yet have access to it;

WHEREAS, taking into consideration the technical challenges and time requirements for installation of FGD and other technologies to meet the new emission limits, the MoEF&CC vide its letter F. No. Q-15017/40/2007-CPW

dated 07.12.2017 has directed CPCB to direct all the thermal power plants to ensure compliance with the norms laid down in the 07.12.2015 notification in accordance with the revised Plan submitted by the Ministry of Power letter dated 13.10.2017 as well as NOx by 2022;

WHEREAS, the Ministry of Environment, Forest & Climate Change , Government of India, vide Notifications No. S. O. 157 (E) of 27.02.1996 and S. O. 730 (E) dated 10.07.2002, has delegated the powers vested under Section 5 of the Environment (Protection) Act, 1986 (29 of 1986) to the Chairman, Central Pollution Control Board, to issue directions to any industry or any local body or any other authority for violations of the standards and rules notified under the Environment (Protection) Rules, 1986 and amendment thereof.

NOW, THEREFORE, taking into consideration all material facts including environmental concerns and ensuring stability of power supply and need for phasing the implementation, in exercise of powers vested under Section 5 of the Environment (Protection) Act, 1986, following directions are issued to M/s Surat Lignite Power Station, Surat:

i. That plant shall install installing Electrostatic Precipitator (ESP) by September 30, 2020 & December 31, 2020 in unit 3 & 4 respectively so as to comply PM emission limit
ii. That plant shall meet SO_2 emission limit by installing FGD/lime injection as applicable immediately
iii. That plant shall take immediate measure like installation of low NOx burners, providing Over Fire Air (OFA) etc. and achieve progressive reduction so as to comply NOx emission limit by the year 2022

The time line mentioned above (i to iii) for compliance of PM, SO_2 & NOx emission limits shall be reviewed by CPCB within a period of three months and shall be brought down further considering the location specificity of the plant such as critical polluted area/ closeness to habitation/ urban area.

The time line for compliance of water consumption limit shall also be finalised in consultation of plants

M/s Surat Lignite Power Station, Surat shall ensure compliance of directions mentioned above (i to iii) failing which action will be taken under the appropriate provisions of the Environment (Protection) Act, 1986.

(A.K. Mehta)
Chairman

Hand Delivery on 13/11/18.

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GUJARAT INDUSTRIES POWER COMPANY LIMITED

Phone : 0265- 2230186 / 2230664, Fax : 0265 - 2230029, Email : md@gipcl.com
CIN - L99999GJ1985PLC007868

Vatsala Vasudeva, IAS
Managing Director

No. MD/GIPCL/2018

November 13, 2018

The Managing Director,
Gujarat Urja Vikas Nigam Limited,
Sardar Patel Vidyut Bhawan,
Race Course Circle, Baroda.

Sub: Additional Expenditure to meet revised environmental norms at our Surat Lignite Power Project as per Environment (Protection) Amendment Rules, 2015.

Ref: -
1. Our letter No: COMM/SLPP/2017/ dtd. 19/02/2018.
2. Power Purchase Agreement dated 15/04/1997 for SLPP-I.
3. Power Purchase Agreement dated 13/08/2013 for SLPP-2.

Dear Sir,

This is to bring to your kind notice the compliance requirements by our Lignite Power Plants – SLPP-1 (2 X 125 MW Unit 1 & 2) & SLPP-2 (2 X 125 MW Unit 3 & 4) with regard to the new environmental norms specified in 2015 for Thermal Power Plants. As per the amended Environment (Protection) Amendment Rules, 2015 notified on 07.12.2015, the emission norms for SO2, NOx, mercury, particulate emissions and water consumption have been made stringent, with zero waste water discharge from the plants.

In this connection we had received letters from Central Electricity Authority, Energy and Petrochemicals Department of Government of Gujarat and also from the Central Pollution Control Board in the past, copy enclosed. We had also written to GUVNL Commerce Department in this regard detailing our proposal for meeting the new norms.

The brief details of our Lignite Power Plants are as under:

Unit	Capacity	COD	Technology
SLPP-1	250 MW (2 x 125)	15/02/2000	CFBC
SLPP-2	250 MW (2 x 125)	28/04/2010	CFBC

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Since our SLPP-1 & 2 Plants are having environment friendly CFBC (Circulating Fluidized Bed Combustion) Boilers, the NOx & SO2 emissions remain below the revised norm of 600 mg/Nm3, which is achieved primarily due to low combustion temperature and addition of limestone in the boilers, to capture sulphur.

However, the amended Particulate Matter (PM) emission norms are a cause of concern since currently our PM stack emission remains around 70- 120 mg/Nm3 as against the new norm of 100mg/Nm3 for SLPP-1 & 50mg/Nm3 for SLPP-2. Compliance of new norms requires substantial upgrade of ESPs (Electrostatic Precipitators). As per our assessment, the ESPs, associated power equipments, Ducts & Casings need a major upgrade/retrofitting or modification and we are in touch with OEM in this regard. The modification and upgrade of ESPs are planned to be completed in phases before the deadline of 2022. The total estimated expenditure considering both Plants would be approx. Rs.90 crores.

Plant	Parameter	Design	Present CC & A Norms	Amended Norms	Actual Emissions	Action req.
SLPP-1	Particulate Matter	150 mg/ Nm3	150 mg/ Nm3	100 mg/ Nm3	90-120 mg/ Nm3	ESP upgradation
SLPP-2	Particulate Matter	100 mg/ Nm3	150 mg/ Nm3	50 mg/ Nm3	70-90 mg/ Nm3	ESP upgradation

As per the budgetary quote obtained by us, the estimated expenditure unit wise shall be as follows:

Plant	Unit	Additional estimated expenditure (Rs. in Lacs)	Additional generation Cost (Rs. / KWH)
SLPP-1	Unit -1 (125 MW)	2170	0.050
	Unit -2 (125 MW)	2160	
SLPP-2	Unit -3 (125 MW)	2380	0.064
	Unit -4 (125 MW)	2290	
Total		9000	

With regard to the specific water consumption & zero waste water discharge norms we are complying with the requirements. Both SLPP-1 & 2 have a closed loop Cooling Water System and are fitted with Cooling Towers. Hence our water consumption is well within the limits of 3.5 M3/MwH and we have already implemented systems for zero waste water discharge.

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In this connection we would like to draw your kind attention to the recent ruling in July, 2018 on a petition (98/MP/2017) filed by NTPC on this subject wherein CERC has made the following observations which are reproduced below.

1. *The revised standards of emissions of environmental pollutants notified vide Notification dtd. 07/12/2015 is covered under 'Change in Law' in terms of Regulation3 (9)(ii) of the 2014 Tariff Regulations.*

2. *The commission has directed CEA to prepare plant specific guidelines specifying:*

   a. *Suitable technology with model specification for each plant with regard to implementation of new norms.*

   b. *Operational parameters of the thermal power plants such as auxiliary consumption, O & M expenses , Station Heat Rate etc. consequent to the implementation.*

   c. *Norms of consumption of water, limestone, ammonia etc. required for operation of plants after implementation of new emission norms.*

   d. *Any other technical inputs.*

   e. *Shutdown period required for installation and commissioning of equipment*

   In accordance with the directions of CERC in similar cases, we propose to submit our technical proposal to CEA for their approval.

   Similar petition has also been filed by a Lignite Power Plant (JSW's Rajwest Power) in the Rajasthan Electricity Regulatory Commission.

Accordingly, we request you to please take up our following request to GERC for approval and to admit the same to maintain the viability of the power plants.

1. Capitalization of actual additional expenditure.

2. Incremental Aux. Consumption increase due to up gradation of ESP & associated facilities.

3. Incremental O & M cost for upgraded ESP and associated facilities.

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4. Shutdown (approx. 2 months/ Unit) required for installation and commissioning of upgraded ESP may be allowed as "Deemed Availability" for payment of capacity charges. GIPCL will try to complete some part of the up gradation during the regular shutdown activity; however the remaining activities required to be completed to achieve the environment guideline, if any additional period is required to be allowed under the head of "Deemed Availability".

5. Up gradation of Lime Handling, Milling & Conveying System.

6. Costs related to any other up gradation/ modification/retrofitting technically required to meet the norms and approved by CEA.

It is requested to kindly provide in-principle approval of GUVNL with regard to the above.

Thanking you,

Yours faithfully,
For Gujarat Industries Power Co. Ltd.

Vasudeva

(Vatsala Vasudeva)
Managing Director

Copy enclosed: (1) Our letter No: COMM/SLPP/2017/ dtd. 19/02/2018.
(2) CPCB letter dated 11th December, 2017.
(3) CEA letter dated 13.01.2016.
(4) GOG, EPD letter dated 19th June, 17.

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GUJARAT INDUSTRIES POWER COMPANY LTD.

P.O. Petrochemicals, Dist. – Vadodara 391 346 Gujarat - INDIA

GIPCL/Comm./2020-21/GUVNL/ Dtd. 6th Aug, 2020.

To,
The General Manager (IPP),
Gujarat Urja Vikas Nigam Limited,
Sardar Patel Vidyut Bhavan,
Race Course Circle, Baroda- 390 007.

Sub:- Approval of Additional Expenditure to meet revised environmental norms at our Surat Lignite Power Project to comply with Environment (Protection) Amendment Rules, 2015.

Ref:

1. Copy of our letter to GERC dtd. 04/03/2020.
2. Our MD's letter to MD, GUVNL dtd. 26/10/2018
3. Our letter No: COMM/SLPP/2017/ dtd. 19/02/2018
4. PPA dated 15/04/1997 for SLPP-I
5. PPA dated 13/08/2013 for SLPP-2.

Dear Madam,

We take reference to our above correspondences in the past on the subject matter. As per our detailed implementation plan attached as Annexure-A, we are progressively upgrading the ESP fields and also activating the dummy fields to comply with particulate emission norms mandated to all Thermal Power Plant as per the amended Environmental Norms, 2015. We are pleased to inform that as on date we have upgraded / activated around 40% fields. We are confident of completing the balance work by FY 2020-21 and ensure timely compliance.

As on date we have incurred an additional expenditure of around Rs. 20.33 crores on this project out of the budgeted expenditure of around Rs. 90 crores(already communicated earlier). We are making all efforts to minimize the expenditure and keep it well below the budgeted level. We are also clubbing the up-gradation work with the Annual Overhauling activities and thereby reducing the additional implementation cost, avoiding separate outages and the consequently ensuring high availability of the Power Stations.

With regard to a query from GERC in the last State Co-ordination Committee meeting regarding our action plan for compliance, we have already replied on 04/03/2020 with a copy to you. We request your kind intervention and expedite in-principle approval for admittance and capitalization of the additional expenditure incurred on this account vide Article 10 of SLPP-1 PPA and Article 13 of SLPP-2 PPA. GIPCL has incurred substantial amount till date and our budget for current financial year is substantially high to meet the statutory requirement, which is mandatory for uninterrupted continuous operation of the Power Plant. Anticipating your positive response on above matter at the earliest.

With kind regards,

For **Gujarat Industries Power Company Ltd.**

(Kiran R. Mishra)
AGM (Comm., Fin. & Legal)
Encl.: Annexure - A

Regd. Office & Vadodara Plant :
P.O. Petrochemical, Dist. – Vadodara 391 346 Gujarat – INDIA
INDIA
Phone : EPABX (0265) 2212768 / 2213 / 0149, (0) 2284213 Fax : 2230029
Email : krmishra@gipcl.com

AN ISO 9001, 14001, 50001 COMPANY

Surat Lignite Power Plant :
Village : Nani Naroli, Tal. Mangrol, Dist: Surat 394 110, Gujarat –
Phone : EPABX (02628) 261053 to 261072 Fax : 261080
Email : genslpp@gipcl.com

Website : www.gipcl.com

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GUJARAT INDUSTRIES POWER COMPANY LTD.

Post : Ranoli, Dist – Vadodara 391 350 Gujarat - INDIA

Dtd. 13.05.2022.

The General Manager (IPP & RE),
Gujarat Urja Vikas Nigam Ltd.,
Sardar Patel Vidyut Bhavan,
Race Course, Vadodara-39007.

Kind Attn.: Smt. Sailaja Vachharajani

Sub: **In-principle approval of expenditure incurred for SLPP-1 &2 to comply New Environmental Norms 2017**

Ref.: 1. Our letter to GERC dtd. 22.05.2020 (copy to GUVNL)
2. Our letter to GUVNL dtd. 19.02.2018, 06.08.2020 and 17.11.2020
3. Letter from MD GIPCL to MD GUVNL dated 13.11.2018
3. Letter from CPCB dtd. 11.12.2017
4. Letter from OSD, EPD, GoG dtd. 01.03.2016 & 19.06.2017
5. Letter from CEA dtd. 13.01.2016
6. PPAs dtd. 15.04.1997 & 13.08.2013 for SLPP-1 & 2 respectively

Dear Madam,

This is continuation to our discussion on the subject on 21.04.2022 in your office. To recall, we have apprised regarding this issue on numerous occasions in the past vide communication referred above. However, I wish to once again apprise you with an updated summary of the action taken after notification of new environmental norms in Dec. 2015. We have chosen environment friendly Circulating Fluidized Bed Technology for our Boilers and thereby fully complying with New Environment Norms related to SO2 and NOx emission. Thus, we have been able to avoid major cost implication for installation of Flue Gas Desulphurization (FGD) Unit and consequent expenditure in this regard.

As per the MoEF notification issued in Dec-2015 amending the Environment (Protection) Rules,1986, TPPs (Thermal Power Plants) installed before December 31, 2003 have to achieve / maintain SPM – 100 mg/Nm3 and TPPs installed after 2003 have to achieve SPM level of 50 mg/Nm3 within two years of the date of notification.

SLPP Phase-I & II Electrostatic Precipitators (ESP) were designed for outlet dust concentration of 150 mg/Nm3 and 100 mg/Nm3 respectively. To comply with new norms, it is necessary to revive dummy ESP fields in all four units. For this, installation of complete internals like Collecting plates, Emitting electrodes, Rectiformers, ERM, CRM, Insulators, Shaft, Collecting & Emitting frames, Rectifier panels, Heaters, RAPCON controller, Verticals for LT switchgear, etc. is required. Further, complete retrofitting of the existing ESP fields needs to be done and also ESP casing and ducts revamped totally to fulfil the statutory requirement. Considering the major work required, the matter was suitably taken up with CEA to extend the time period for compliance of new environment norms and reimbursement of

incurred expenditure. Subsequently, CEA and CPCB (MoEF) extended timeline up to December, 2020 to achieve / maintain SPM emission as per new norms.

Recently, MoEF vide notification dated 31st March'2021 revised the timeline for compliance of new Environmental norms by Thermal Power Plants on the basis of their location. Based on this notification, timelines for compliance for SLPP Phase-I and Phase-II stands extended up to 31st December, 2024.

GIPCL's Board of Directors have granted approval for refurbishment of ESP fields including installation of all internals in two dummy fields in each Unit along with repair/ replacement/ strengthening of ESP casing/ structure with total estimated expenditure @approx. Rs. 86.34 crores. Year-wise work plan for refurbishment/ revival of total 52 nos. existing ESP fields and 8 nos. dummy fields in Phase-I and Phase-II Units including upgradation of 3-phase transformer/controller in initial fields of ESP was prepared and work is being executed every year in a phased manner during the planned shutdown. Up to March'2022, total 36 nos. existing ESP fields have been refurbished and 4 nos. dummy fields have been revived in Phase-I & Phase-II Units. **Till 31st March, 22, GIPCL has spent approx. Rs.40 Crores plus towards refurbishment of ESP fields and revival of the dummy fields to meet the environmental norms.**

To achieve desired value of SPM emission on sustainable basis, refurbishment of remaining 16 nos. existing ESP fields and revival of 4 nos. dummy ESP fields is planned in a phased manner. Tendering work is under process for refurbishment/ revival of remaining ESP fields. Moreover, ESP casing repair/ replacement works are being done at the available opportunity. Further, it is planned to do major work for replacement of ESP casing for better performance of ESP and sustainable compliance of new environmental norms.

Upon completion of the activity, we shall submit details of actual expenditure incurred and tariff revision required. However, we request an in-principle approval from GUVNL for admittance of this expenditure and initiate the process to obtain regulatory approval as per the Govt. of India guidelines and "Change in Law" provision of our PPAs.

Hon'ble GERC had queried the State Generators regarding compliance of the new environmental norms in the State Co-ordination Forum meeting on 26.09.2019 and subsequently we had apprised the Commission regarding status of our compliance vide a letter dtd. 22.05.2020 with a copy to GUVNL. We note that GERC has been approving New Environmental norms related expenditure for GSECL Power Stations. Also, during a recent discussion with GERC officials, we were informed that since GIPCL is not covered under MYT Regulation, GUVNL can separately consider and initiate the process of approval.

We request a quick in-principle approval on the matter.

With kind regards,

Yours faithfully,
For Gujarat Industries Power Company Ltd.,

(K. R. Mishra)
GM (Comm., Fin. & Legal)

Regd. Office & Vadodara Plant :
Post Ranoli, Dist. – Vadodara 391 350 Gujarat – INDIA
Phone : EPABX (0265) 2232268 / 2213 / 0160, (O) 2234223
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Surat Lignite Power Plant :
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Phone : EPABX (02623) 251053 to 251072
Email : gmslpp@gipcl.com

Website : www.gipcl.com
CIN-L99999GJ1985PLC007566

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GUJARAT INDUSTRIES POWER COMPANY LTD.
REGD. OFFICE: P.O. PETROCHEMICAL - 391 346. DIST. BARODA (INDIA)
PHONE: 2234223 FAX: 0265-2230029 E-mail: krmishra@gipcl.com
Website: www.gipcl.com • CIN - L99999GJ1985PLC007868

GIPCL/Comm./2020-21/GUVNL/ Dtd. 17th November 2020.

To,

The General Manager (IPP),
Gujarat Urja Vikas Nigam Limited,
Sardar Patel Vidyut Bhavan,
Race Course Circle, Baroda- 390 007.

Sub: Approval & admittance of Expenditure to meet revised environmental norms at our Surat Lignite Power Plant Phase-1 & 2 to comply with Environment (Protection) Amendment Rules, 2015.

Ref:

1. Our letter dtd. 06.08.2020
2. Copy of our letter to GERC dtd. 04/03/2020.
3. Our MD's letter to MD, GUVNL dtd. 26/10/2018
4. Our letter No: COMM/SLPP/2017/ dtd. 19/02/2018
5. PPA dated 15/04/1997 for SLPP-I
6. PPA dated 13/08/2013 for SLPP-2.

Dear Madam,

Our Warm Diwali and New Year Greetings.

With reference to above, we request your kind intervention to expedite approval and admittance of costs related to ESP Up gradation for SLPP Units to comply with the revised Particulate Matter emission norms as specified in the Environment (Protection) Amendment Rules, 2015.

We would like to draw your attention towards Ministry of Power (MoP) letter dated 30.08.2018 addressed to CERC (Copy enclosed) to ensure the timely implementation of new environment norms and considered the referred compliance as Change of Law. Further, CERC in the recent tariff regulation dated 7th March,2019 under clause no. 28 has admitted this cost under the head of "Additional Capitalization on account of revised emission standard".

We have noted that recently GERC has also admitted costs of Rs. 377 Crores to GSECL Units for similar ESP Up gradation and FGD installation for their Thermal Power Plant in its Tariff Order dtd. 26.03.2020, to comply with new environmental norms as fixed by Ministry of Environment and Forest (MoEF).

We would like to submit that GIPCL has already spent Rs.20.33 Crores towards this up till 31.03.2020 and our total budgeted expenditure on account new environment norms

would be approx. Rs.90 Crores for 500 MW Power Plant. To achieve the environment norms within the specified time schedule, we need to accomplished all modification work on or before Dec,22.

We would be glad to furnish any further clarification/documents require in this regard. Please give your approval at the earliest, also advise shall we need to approach GERC for further approval of this additional capital expenditure.

We earnestly look forward to your approval to comply with revised environment norms.

With kind regards,

Yours faithfully,

For Gujarat Industries Power Company Ltd.

(Kiran R. Mishra)
GM (Comm., Fin. & Legal)

Registered Office
Gujarat Industries Power Company Ltd.
P.O. Petrochemical - 391346
Dist.: Vadodara
Gujarat - India

Surat Plant
Gujarat Industries Power Company Ltd.
(Surat Lignite Power Plant)
P.O. Nani Naroli-394110
Tal.: Mangrol, Dist.: Surat
Gujarat – India

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No. 23/22/2018-R&R
Government of India
Ministry of Power
***

Shram Shakti Bhawan, Rafi Marg,
New Delhi, 30th May, 2018

To

The Chairperson,
Central Electricity Regulatory Commission,
Chanderlok Building,
Janpath, New Delhi-110001

Subject: Mechanism for Implementation of New Environmental Norms for Thermal Power Plants (TPP) supplying power to distribution licensees under concluded long term and medium term Power Purchase Agreement (PPA).

Sir,

Ministry of Environment, Forest and Climate Change (MoEFCC) has notified the Environment (Protection) Amendment Rules, 2015 on 7th December, 2015 thereby introducing revised emission standards for Thermal Power Plants (TPPs). The revised emission standards are applicable to existing as well as upcoming TPPs. To meet the revised emission standards, the TPPs would have to install or upgrade various emission control systems like Flue-Gas desulfurization (FGD) system, Electro-Static Precipitators (ESP) system etc.

2. As per implementation plan prepared by Central Electricity Authority (CEA), the existing TPPs are required to comply with the new emission standards by the year 2022.

3. Implementation of revised emission standards would face challenges relating to stringent timelines, availability of suppliers and technology, shut down for longer periods, and revenue loss during shutdown. It would also have significant implications on the tariff agreed under the long term and medium term power purchase agreement (PPA) due to additional infrastructure and operational cost on account of large scale installations, renovations & retrofitting of existing plant and machinery to meet revised emission norms.

4. In view of the nature of cost involved in implementation of revised standards of emission and the provisions of Power Purchase Agreement, there is a need to develop the appropriate regulatory framework specifying the mechanism or enabling guidelines for providing regulatory certainty to the TPPs about recovery of such additional costs through tariff. It is important to ensure implementation of the revised standards of emission for TPPs for controlling pollution level in the larger public interest.

...2/-

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5. After considering all aspects and with due regard to the need for safeguards against environmental hazards, and accordingly to ensure timely implementation of new environment norms, the Central Government has decided that –

5.1 The MoEFCC Notification requiring compliance of Environment (Protection) Amendment Rules, 2015 dated 7th December, 2015 is of the nature of Change in Law event except in following cases:

a) Power Purchase Agreements of such TPPs whose tariff is determined under Section 63 of the Electricity Act, 2003 having bid deadline on or after 7th December, 2015; or

b) TPPs where such requirement of pollutions control system was mandated under the environment clearance of the plant or envisaged otherwise before the notification of amendment rules;

5.2 The additional cost implication due to installation or up-gradation of various emission control systems and its operational cost to meet the new environment norms, after award of bid or signing of PPA as the case may be, shall be considered for being made pass through in tariff by Commission in accordance with the law.

5.3 The respective TPPs may approach the Appropriate Commission for approval of additional capital expenditure and compensation for additional cost on account of this Change in Law event in respect of the Power Purchase Agreement entered under Section 62 or Section 63 of the Electricity Act, 2003.

5.4 For the TPPs that are under the purview of the Central Commission, the Commission shall develop appropriate regulatory mechanism to address the impact on tariff, and certainty in cost recovery on account of additional capital and operational cost, under concluded long term and medium term PPAs for this purpose.

6. The Central Government, in exercise of the power conferred under section 107 of the Electricity Act 2003 issues directions to the Central Electricity Regulatory Commission to implement the above decision of the Government. This direction is being issued to facilitate the smooth implementation of revised emission standards of the Environment (Protection) Amendment Rules, 2015 dated 7th December, 2015 for Thermal Power Plants in the larger public interest.

7. This issues with the approval of Minister of State (IC) for Power and NRE.

Yours faithfully,

30/5/16

(Ghanshyam Prasad)
Chief Engineer
Tel: 2371 0389

Copy to:
i) Secretary (MoEFCC), Government of India
ii) Chief Secretaries of all State Governments and Union Territory Administrations
iii) The Principal Secretary/ Secretary (in charge of energy) of all State Governments and UT Administrations.

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GUJARAT URJA VIKAS NIGAM LIMITED

CIN U40109GJ2004SGCO45195 ISO 9001-2008 Certified Company
Sardar Patel Vidyut Bhavan, Race Course, Vadodara (Gujarat) Pin-390007
Phone : Direct (0265) 2340289 PBX-(0265)2310582/83/84/85 86 Fax : (0265)-2344543
E.mail : gmipp.guvnl@gebmail.com

Ref. No.GUVNL-COM-GM(IPP)- 1015	Date : 17/09/2022

To,
G.M. (Comm.,Fin.& Legal),
Gujarat Industries Power Company Ltd,
P.O. Petrochemical,
Vadodara – 391 346 Fax No: 0265 2230029

Sub. : In principle approval of expenditure incurred for SLPP-1 & 2 to comply New Environmental Norms 2017

Ref. : Your letter dated 13-05-2022

Dear Madam,

This has reference to GIPCL's above referred letter wherein GIPCL has sought GUVNL's in-principle approval for admittance of expenditure incurred to comply with new environmental norms and initiate the process to obtain regulatory approval under the Govt. of India guidelines and "Change in Law" provision of the PPAs of SLPP Phase I & II.

In this context, GUVNL hereby conveys its in-principle approval to GIPCL to comply with new environmental norms and to initiate the process to obtain regulatory approval as it involves increase in Capital Cost and resultant increase in cost of power to end consumers.

Thanking You,

Yours faithfully,

(Sailaja Vachhrajani)
General Manager (RE & IPP)

CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

Petition No. 501/MP/2019
Petition No. 502/MP/2019
Petition No. 66/MP/2020
Petition No. 267/MP/2020
Petition No. 414/MP/2020
Petition No. 496/MP/2020
Petition No. 499/MP/2020
Petition No. 501/MP/2020
Petition No. 510/MP/2020
Petition No. 545/MP/2020
and
Petition No. 553/MP/2020

Coram:

Shri P.K. Pujari, Chairperson
Shri I.S. Jha, Member
Shri Arun Goyal, Member
Shri P.K. Singh, Member

Date of Order: 17.11.2021

Petition No. 501/MP/2019

In the matter of:

Petition under Section 79 of the Electricity Act, 2003 read with Regulation 29 of the Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2019 for approval of additional expenditure on account of installation of various Emission Control Systems at Rihand Super Thermal Power Station Stage-II (1000 MW) in compliance with the Ministry of Environment and Forests and Climate Change, Government of India notification dated 7.12.2015.

And in the matter of:

NTPC Limited,
NTPC Bhawan,
Core-7, Scope Complex,
7, Institutional Area, Lodhi Road,
New Delhi-110003. .... **Petitioner**

Vs

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1. Uttar Pradesh Power Corporation Limited,
Shakti Bhawan, 14, Ashok Marg,
Lucknow-226001.

2. Rajasthan Urja Vika Nigam Limited,
{On Behalf of Jaipur Vidyut Vitran Nigam Limited (JVVNL),
Ajmer Vidyut Vitran Nigam Limited (AVVNL) and
Jodhpur Vidyut Vitran Nigam Limited (JdVVNL)}
Vidyut Bhawan, Janpath,
Jaipur-302005.

3. Tata Power Delhi Distribution Limited,
Grid Substation, Hudson Road, Kingsway Camp,
Delhi-110009.

4. BSES Rajdhani Power Limited,
2nd floor, B-Block, BSES Bhawan, Nehru Place,
New Delhi-110019.

5. BSES Yamuna Power Limited,
Shakti Kiran Building, Karkardooma,
Delhi-110092.

6. Haryana Power Purchase Centre,
Shakti Bhawan, Sector-VI, Panchkula,
Haryana-134109.

7. Punjab State Power Corporation Limited,
The Mall,
Patiala-147001.

8. Himachal Pradesh State Electricity Board Limited,
Kumar Housing Complex Building-II, Vidyut Bhawan,
Shimla-171 004.

9. Power Development Department,
Government of J&K, Civil Secretariat,
Srinagar.

10. Electricity Department (Chandigarh),
Union Territory of Chandigarh,
Additional Office Building, Sector-9 D,
Chandigarh.

11. Uttarakhand Power Corporation Limited,
Urja Bhawan, Kanwali Road,
Dehradun-248001, Uttarakhand. .....Respondents

Petition No. 502/MP/2019

In the matter of:

Petition under Section 79 of the Electricity Act, 2003 read with Regulation 29 of the Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2019 for approval of additional expenditure on installation of various Emission Control Systems at Tanda Thermal Power Station (440 MW) in compliance of Ministry of Environment and Forests and Climate Change, Government of India notification dated 7.12.2015.

And in the matter of:

NTPC Limited,
NTPC Bhawan,
Core-7, Scope Complex,
7, Institutional Area, Lodhi Road,
New Delhi-110003. .... Petitioner

Vs

1. Uttar Pradesh Power Corporation Limited,
Shakti Bhawan, 14, Ashok Marg,
Lucknow-226001.

.....Respondents

Petition No. 66/MP/2020

In the matter of:

Petition under Section 79 of the Electricity Act, 2003 read with Regulation 29 of the Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2019 for approval of additional expenditure on installation of various Emission Control Systems at Rihand Super Thermal Power Station Stage-III (1000 MW) in compliance of Ministry of Environment and Forests and Climate Change, Government of India notification dated 7.12.2015.

And in the matter of:
NTPC Limited,
NTPC Bhawan,
Core-7, Scope Complex,

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7, Institutional Area, Lodhi Road,
New Delhi-110003. .... Petitioner

Vs

1. Uttar Pradesh Power Corporation Limited,
Shakti Bhawan, 14, Ashok Marg,
Lucknow-226001.

2. Rajasthan Urja Vika Nigam Limited,
{On Behalf of Jaipur Vidyut Vitran Nigam Limited (JVVNL),
Ajmer Vidyut Vitran Nigam Limited (AVVNL) and
Jodhpur Vidyut Vitran Nigam Limited (JdVVNL)}
Vidyut Bhawan, Janpath,
Jaipur-302005.

3. Tata Power Delhi Distribution Limited,
Grid Sub-station, Hudson Road, Kingsway Camp,
Delhi-110009.

4. BSES Rajdhani Power Limited,
2nd floor, B-Block, BSES Bhawan, Nehru Place,
New Delhi-110019.

5. BSES Yamuna Power Limited,
Shakti Kiran Building, Karkardooma,
Delhi-110092.

6. Haryana Power Purchase Centre,
Shakti Bhawan, Sector-VI, Panchkula,
Haryana-134109.

7. Punjab State Power Corporation Limited,
The Mall,
Patiala-147001.

8. Himachal Pradesh State Electricity Board Limited,
Kumar Housing Complex Building-II, Vidyut Bhawan,
Shimla-171 004.

9. Power Development Department,
Government of J&K, Civil Secretariat,
Srinagar.

10. Electricity Department (Chandigarh),

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5.7 Capital Expenditure and Capitalisation

Petitioner's Submission

GSECL submitted the expected Capital Expenditure of Rs. 315.69 Crore for FY 2021-22 for the existing power stations. This CAPEX includes major and minor Renovation & Modernisation works proposed to be undertaken by GSECL during the year. The following Table shows the Capital Expenditure proposed for FY 2021-22 by GSECL

Table 5.20: Capital Expenditure as submitted by GSECL for FY 2021-22

Sr. No.	Power Station	Projected
1.	Ukai (3-5)	20.80
2.	Gandhinagar (3-4)	23.72
3.	Gandhinagar 5*	-
4.	Wanakbori 1-6 TPS	115.75
5.	Wanakbori 7*	4.77
6.	Sikka Extension (3-4)*	25.97
7.	KLTPS 3	16.13
8.	KLTPS 4	-
9.	BLTPS*	77.15
10.	Dhuvaran CCPP 1*	0.19
11.	Dhuvaran CCPP 2	0.19
12.	Dhuvaran CCPP 3*	-
13.	Utran Extension*	0.51
14.	Ukai 6*	17.33
15.	Wanakbori 8 TPS*	-
16.	Ukai Hydro	8.14
17.	Kadana Hydro	5.05
18.	**TOTAL**	**315.69**

** PPA based stations*

GSECL submitted that it has proposed to take up ESP Retrofitting of 200/210 MW old Units of Wanakbori TPS and Ukai TPS, in order to bring down the ESP emission within limits prescribed by Gujarat Pollution Control Board (GPCB).

GSECL submitted that the old Units were designed as per GPCB norms prevailing at the time of commissioning. In order to meet the present MoEF norms, it is necessary to carry out retrofitting of ESP for old 200/210 MW Units of GSECL. Through ESP retrofitting work, GSECL is looking to meet the requirement of pollution norms and expects to reduce SPM level to 50 mg/NM3.

The following Table shows the capitalisation proposed by GSECL for FY 2021-22. GSECL has proposed capitalization based on the capital expenditure estimated for FY 2020-21 and

FY 2021-22. The funding of capitalisation has been considered through debt-equity ratio of 70:30 in accordance with GERC (MYT) Regulations, 2016.

Table 5.21: Proposed Capitalisation for FY 2021-22 as submitted by GSECL

(Rs. Crore)

Sr. No.	Power Station	Capitalisation	Funding of Capitalisation	
			Debt amount	Equity amount
1.	Ukai (3-5)	20.80	14.56	6.24
2.	Gandhinagar (3-4)	23.72	16.61	7.12
3.	Gandhinagar 5*	-	-	-
4.	Wanakbori 1-6 TPS	177.35	124.15	53.21
5.	Wanakbori 7*	4.77	3.34	1.43
6.	Sikka Extension (3-4)*	25.97	18.18	7.79
7.	KLTPS 3	11.93	8.35	3.58
8.	KLTPS 4	-	-	-
9.	BLTPS*	77.15	54.00	23.14
10.	Dhuvaran CCPP 1*	0.19	0.13	0.06
11.	Dhuvaran CCPP 2	0.19	0.13	0.06
12.	Dhuvaran CCPP 3*	-	-	-
13.	Utran Extension*	0.51	0.36	0.15
14.	Ukai 6*	17.33	12.13	5.20
15.	Wanakbori 8 TPS*	-	-	-
16.	Ukai Hydro	8.14	5.70	2.44
17.	Kadana Hydro	5.05	3.54	1.52
	Total	**373.09**	**261.17**	**111.93**

**PPA based stations*

Commission's Analysis

For approving the capitalisation for FY 2021-22, the Commission has analysed the actual capitalisation incurred by GSECL in the last three years. The following Table shows the actual capitalisation as submitted by GSECL at the time of Truing-up of respective year:

Table 5.22: Actual Capitalisation for FY 2017-18 to FY 2019-20 (Rs. Crore)

Sr. No.	Particulars	FY 2017-18	FY 2018-19	FY 2019-20	Average
1.	Capitalisation	765.34	362.18	226.17*	451.23

**Excluding Capital cost of Wanakbori 8 TPS*

As seen from the Table above, the proposed capitalisation of Rs. 373.09 Crore is within the actual average capitalisation of last three years. Hence, the Commission has considered the capitalisation as proposed by GSECL for FY 2021-22.

Further, it is observed that GSECL has proposed capitalisation for ESP retrofitting works for old Units of Wanakbori TPS and Ukai TPS in order to meet the norms specified by MoEF.

In this regard, it is to be noted that Ministry of Power (MoP) has issued a notification dated 20th January, 2021, wherein it has extended the timelines for installations of ESPs for compliance of SPM norms by two years on account of uncertainties/delays due to COVID-19 pandemic and other issues.

In view of the above, the Commission is of the view that the ESP retrofitting works for old plants of GSECL may not be taken up immediately as the timelines are now shifted to FY 2022-23.

However, considering the nature of the work of ESP retrofitting and the overall proposed capitalisation being within the average capitalisation, the Commission has not disallowed any capitalisation for FY 2021-22 against ESP retrofitting due to extension of timelines.

The Commission provisionally approves the capitalisation of Rs. 373.09 Crore for FY 2021-22, which includes capitalisation of ESP retrofitting works. However, GSECL is directed to assess the work related to ESP retrofitting and take up the work in accordance with the revised timelines notified by MoP. The funding of capitalisation is approved in line with the normative Debt:Equity ratio of 70:30 specified in the GERC (MYT) Regulations, 2016.

5.8 Fixed Charges

As per GERC (MYT) Regulations, 2016, the Annual Fixed Charges of Generating Stations include the Depreciation, Interest and Finance Charges, Return on Equity, Operation and Maintenance Expenses, Interest on Working Capital, Water Charges, SLDC Charges, Income Tax and Non-Tariff Income. The analysis of each component of Annual Fixed Charges is discussed in subsequent Sections of this Order.

5.8.1 Depreciation for FY 2021-22

Petitioner's Submission

GSECL has considered the opening Gross Fixed Assets for FY 2021-22 based on the gross block of FY 2020-21. The capital addition to the fixed asset during the period FY 2021-22 has been considered based on the works which are likely to be capitalized during the year.

GSECL has considered Depreciation rates based on actual rate of depreciation in FY 2019-20 or average depreciation rate of 5.28%, whichever is lower.

GSECL has considered the useful life of 35 years for all thermal and hydro plants. The depreciation has been charged in line with GERC (MYT) Regulations, 2016 for a period of 12

8 Compliance to Directives

8.1 Compliance of Directives issued by the Commission

The Commission, in its MYT Order dated 31st March, 2017 and in subsequent Tariff Orders, had issued certain directives to GSECL. The Commission also issued fresh directives in the Tariff Order dated 26th March, 2020. The Petitioner has submitted the status of compliance of directives issued by the Commission.

The compliance of directives issued by the Commission and issue of new directives are discussed below:

8.2 Compliance of Earlier Directives

Directive 1: Renovation and Modernization of Thermal Plant

GSECL may submit its further plan for Renovation and Modernization of Ukai Units 1 & 2. Further, GSECL may also submit a quarterly progress report of the Renovation and Modernization activities being undertaken for Wanakbori 1-6. Compliance as per current Petition:

- Renovation and Modernization work of Ukai Units 1 & 2 completed on 24.02.2010.
- C & I up-gradation work of Wanakbori TPS Unit 6 is completed on 17.05.2015. So, Unit No.2, 3, 4, 5 & 6 are completed. Work of Unit 1 will be started as per the program of SLDC for Shut Down.

Compliance:

GSECL has submitted the report on Energy Efficiency improvement through Up gradation of C&I system in Unit 1 to 6 at Wanakbori TPS along with the Tariff Petition.

Commission Comments:

The Commission has noted the submission of the Petitioner. GSECL shall continue to submit the report as per the directive.

Directive 2: Actual Performance Parameters

GSECL shall submit month-wise, at quarterly intervals, the actual performance parameters like PAF, PLF, SHR, Aux. Consumption, SFOC, Transit Loss, etc., actual gross generation, actual net generation and coal stock position (both imported and indigenous) for each station to the Commission and place the said information on its website.

8.5 Fresh Directive

Directive 1: Capitalisation of Capital Spares

The Commission directs GSECL to submit details of the capital spares capitalised for FY 2020-21 and onwards along with every MYT/Tariff Petition to be filed subsequently:

GSECL along with the above details should also submit the detailed justification for excess capitalisation of capital spares, if any, with respect to the limit specified in the GERC (MYT) Regulations, 2016, and the actions proposed with respect to the excess capitalisation of capital spares, if any. Non-submission of such details along with the every subsequent MYT/ Tariff Petition may lead to disallowance of capitalisation.

Directive 2: ESP Retrofitting works

The Commission directs GSECL to make a plant-wise assessment of the ESP Retrofitting works necessary to meet the SPM norms specified by MoEF&CC. GSECL is directed to submit station/unit wise cost required for ESP retrofitting and the benefit to be achieved through reduction in SPM norms. GSECL shall also quantify station/unit wise number of years for which the emission shall be within the norms specified by MoEF&CC, and the period of recovery of the additional cost proposed to be incurred.

Further, GSECL shall ensure that the decision to take up ESP Retrofitting works in each of the unit/station shall be after taking into account the remaining useful life of old Units which are planned to be phased out in the near future.

GSECL shall submit the comprehensive assessment report on ESP Retrofitting works covering the above details along with the next MYT/Tariff Petition.

Directive 3: Overview of Power Supply Scenario

It is observed that most of the older stations of GSECL have achieved lower PLF since they are not part of the Merit Order Dispatch (MOD) schedule notified by SLDC and have been asked to backdown. On the other hand, GSECL has been commissioning new stations which qualify for MOD due to their lower energy charges but have higher fixed cost. Overall, the power stations of GSECL pose a significant burden on the consumers of the State. Further, GSECL has been proposing to take up Renovation and Modernisation works for several plants every year under capitalisation.

5.7 Capital Expenditure and Capitalisation

Petitioner's Submission

GSECL submitted the expected Capital Expenditure of Rs. 457.38 Crore for FY 2022-23 for the existing power stations. This CAPEX includes major and minor Renovation & Modernisation works proposed to be undertaken by GSECL during the year. The following Table shows the Capital Expenditure proposed for FY 2022-23 by GSECL

Table 5.22: Capital Expenditure as submitted by GSECL for FY 2022-23

(Rs. Crore)

Sr. No.	Power Station	Projected
1.	Ukai (3-5)	52.90
2.	Gandhinagar (3-4)	3.51
3.	Gandhinagar 5*	-
4.	Wanakbori 1-6 TPS	180.20
5.	Wanakbori 7*	-
6.	Sikka Extension (3-4)*	25.51
7.	KLTPS 3	10.07
8.	KLTPS 4	10.02
9.	BLTPS*	9.70
10.	Dhuvaran CCPP 1*	-
11.	Dhuvaran CCPP 2	-
12.	Dhuvaran CCPP 3*	-
13.	Utran Extension*	0.23
14.	Ukai 6*	15.66
15.	Wanakbori 8 TPS*	149.58
16.	Ukai Hydro	-
17.	Kadana Hydro	-
18.	**Total**	**457.38**

** PPA based stations*

With respect to nature of Capital expenditure to be undertaken, following proposal was submitted by GSECL:

- **ESP Retrofitting of Unit 4, 5 & 6 of Wanakbori TPS and Unit 3 & 4 of KLTPS: -**

GSECL submitted that it has proposed to take up ESP Retrofitting of Unit 4, 5 & 6 of Wanakbori TPS and Unit - 3 & 4 of KLTPS, in order to meet the revised MoEF norms for Particulate Matter (PM) and bring down the ESP emission within limits prescribed by Gujarat Pollution Control Board (GPCB).

- **LMZ Turbine & Boiler modification of WTPS Unit-1 & 2 and UKAI TPS 3 &5: -**

GSECL submitted that at present, there are 6 Nos. 210 MW units with LMZ turbine, whereby majority of these units are more than 30 years old and have completed their service life. Due to poor turbine efficiency, the operating unit heat rate of these units remains in the range of 2600-2750 kcal/kWh and can be improved by retrofitting of old LMZ turbines by newly designed efficiency turbines.

- **Installation of FGD System in Wanakbori Unit - 8, 250 x 2 MW Sikka Unit - 3 & 4 and Ukai - 6: -**

GSECL submitted that for installation of FGD system in Wanakbori-Unit-8, the work order has already been placed and work is also under progress whereas for FGD system of Ukai unit-6 and Sikka Units - 3 & 4, the tenders have already been published and technical bids have been opened. The FGD system is required to be installed to meet revised environmental norms for SOx. Moreover, Reduction in flue gas temperature improves the ESP performance and reduces stack emission also.

Based on the above expected capital expenditure, GSECL has proposed capitalization based on the capital expenditure carried out in past period and additional Capitalisation to be carried out in FY 2022-23.

The following Table shows the capitalisation proposed by GSECL for FY 2022-23. GSECL has proposed capitalization based on the capital expenditure estimated for FY 2020-21. The funding of capitalisation has been considered through debt-equity ratio of 70:30 in accordance with GERC (MYT) Regulations, 2016.

Table 5.23: Proposed Capitalisation for FY 2022-23 as submitted by GSECL

(Rs. Crore)

Sr. No.	Power Stations	Capitalisation	Funding of Capitalisation	
			Debt amount	Equity amount
1.	Ukai (3-5)	24.70	17.29	7.41
2.	Gandhinagar (3-4)	20.63	14.44	6.19
3.	Gandhinagar 5*	-	-	-
4.	Wanakbori 1-6 TPS	213.14	149.20	63.94
5.	Wanakbori 7*	-	-	-
6.	Sikka Extension (3-4)*	41.98	29.38	12.59
7.	KLTPS 3	12.31	8.62	3.69
8.	KLTPS 4	-	-	-
9.	BLTPS*	3.65	2.56	1.10
10.	Dhuvaran CCPP 1*	1.68	1.18	0.50
11.	Dhuvaran CCPP 2	0.32	0.22	0.10
12.	Dhuvaran CCPP 3*	0.55	0.39	0.17

Sr. No.	Power Stations	Capitalisation	Funding of Capitalisation	
			Debt amount	Equity amount
13.	Utran Extension*	0.69	0.49	0.21
14.	Ukai 6*	14.04	9.83	4.21
15.	Wanakbori 8 TPS*	48.90	34.23	14.67
16.	Ukai Hydro	0.06	0.04	0.02
17.	Kadana Hydro	0.19	0.13	0.06
18.	**Total**	**382.81**	**267.97**	**114.84**

** PPA BASED STATIONS*

Commission's Analysis

For approving the capitalisation for FY 2022-23, the Commission has analysed the actual capitalisation incurred by GSECL in the last three years. The following Table shows the actual capitalisation as submitted by GSECL at the time of Truing-up of respective year:

Table 5.24: Actual Capitalisation for FY 2018-19 to FY 2020-21

(Rs. Crore)

Sr. No.	Particulars	FY 2018-19	FY 2020-21	FY 2020-21	Average
1.	Capitalisation	362.18	226.17*	245.92	278.09

**Excluding Capital cost of Wanakbori 8 TPS*

As seen from the Table above, the proposed capitalisation of Rs. 382.81 Crore is higher than the actual average capitalisation of last three years.

Further it was observed that while projecting the capitalisation for FY 2022-23, GSECL has considered the 10% escalation on the actual capitalisation for FY 2020-21 and in addition, has proposed capitalisation of Rs. 112.5 Crores in Wanakbori (1-6) Power Station against ESP Retrofitting of Unit - 4, 5 & 6 to meet the revised MoEF norms.

Since GSECL has not provided any justification on 10% escalation considered on the actual capitalisation for FY 2020-21, the Commission has not considered any escalation while projecting the capitalisation for FY 2022-23. Also, with respect to the proposed capitalisation of Rs. 112.50 Crores in Wanakbori (1-6) Power Station against ESP Retrofitting of Unit - 4,5 & 6, the Commission feels that such expenditure though us required to be undertaken to meet the revised MoEF norms, the same is to be allowed on the basis of actual cost to be incurred at the time of true-up with detail justification and cost benefit analysis to be provided by GSECL. Accordingly, though the same is disallowed at present for the projection purpose, the same may be reconsider by the Commission at the time of true-up of FY 2022-23 based on the detail submission of GSECL during that time.

Accordingly, the Commission provisionally approves the capitalisation of Rs. 245.92 Crore for FY 2022-23, which is equivalent to the approved capitalisation for FY 2020-21.

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Also, GSECL is directed to assess the work related to ESP retrofitting and take up the work in accordance with the revised timelines notified by MoP. The funding of capitalisation is approved in line with the normative Debt:Equity ratio of 70:30 specified in the GERC (MYT) Regulations, 2016.

5.8 Fixed Charges

As per GERC (MYT) Regulations, 2016, the Annual Fixed Charges of Generating Stations include the Depreciation, Interest and Finance Charges, Return on Equity, Operation and Maintenance Expenses, Interest on Working Capital, Water Charges, SLDC Charges, Income Tax and Non-Tariff Income. The analysis of each component of Annual Fixed Charges is discussed in subsequent Sections of this Order.

5.8.1 Depreciation for FY 2022-23

Petitioner's Submission

GSECL has considered the opening Gross Fixed Assets for FY 2022-23 based on the gross block of FY 2021-22. The addition during the FY 2021-22 is considered same as approved by the Commission in the Tariff Order dated 30th March, 2021. The capital addition to the fixed asset during the period FY 2022-23 has been considered based on the works which are likely to be capitalized during the year.

GSECL has considered Depreciation rates based on actual rate of depreciation in FY 2020-21 or average depreciation rate of 5.28%, whichever is lower.

GSECL has considered the useful life of 35 years for all thermal and hydro plants. The depreciation has been charged in line with GERC (MYT) Regulations, 2016 for a period of 12 years from the date of the Transfer Scheme, and thereafter depreciation is spread over the balance useful life of the asset.

The following Table shows the depreciation rates considered by GSECL and the depreciation claimed by GSECL for FY 2022-23

Table 5.25: Depreciation claimed for FY 2022-23

(Rs. Crore)

Sr. No.	Power Station	Depreciation rates (%)	Depreciation
1.	Ukai (3-5)	3.36%	46.33
2.	Gandhinagar (3-4)	2.83%	36.52
3.	Gandhinagar 5*	0.33%	2.16
4.	Wanakbori 1-6 TPS	4.10%	112.04

BEFORE THE GUJARAT ELECTRICITY REGULATORY COMMISSION
GANDHINAGAR

Petition No. 2127 of 2022.

In the Matter of:

Petition under the provisions of the GERC (Multi-Year Tariff) Regulations, 2016 read with the provisions of the GERC (Conduct of Business) Regulations, 2004 and Section 86 of the Electricity Act, 2003, praying for an approval of One-time additional capital expenditure for Akrimota Thermal Power Station of GMDC from the Commission and to direct application, implementation and pass-through of the said additional capital expenditure in tariff in accordance with the mechanism laid down in the PPA dated 19.02.2000 executed by and between the parties as amended in terms of the Supplementary Agreement dated 17.12.2014 and as subsequently amended from time to time.

Petitioner	:	Gujarat Mineral Development Corporation Limited
Represented By	:	Ld. Adv. Mr. Gursharan H. Virk with Mr. Janardhan Dave, Mr. Mehul Dave, Mr. Yaksha Thaker and Mr. Mahesh Ingarodiya
		V/s.
Respondent	:	Gujarat Urja Vikas Nigam Limited
Represented By	:	Ld. Adv. Ms. Srishti Khindaria with Mr. Sanjay Mathur and Mr. Saurabh Mistry

CORAM:

Mehul M. Gandhi, Member
S. R. Pandey, Member

Date: 12/12/2022.

Daily Order

1. The matter was heard on 24.11.2022.

2. Ld. Adv. Mr. Gursharan H. Virk appearing for the Petitioner, at the outset submitted that present matter is not an adversarial Petition against the Respondent but basically a consent Petition with the intent of formalizing the understanding reached between the parties. Accordingly, the Petition seeks an approval from this Commission for

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incurring one-time additional capital expenditure for the lignite based Akrimota Thermal Power Station of the Petitioner and pass-through of the said additional capital expenditure in applicable tariff in accordance with the mechanism laid down in the PPA dated 19.02.2000 executed between the parties as amended from time to time. Recalling the earlier hearing held on 05.08.2022 wherein detailed submissions were advanced by the parties, it is submitted that the Commission after recording the same observed that since no reply had been filed by the Respondent GUVNL, it was directed for filing of same with a liberty granted to the Petitioner for filing rejoinder-in-reply.

2.1. It is submitted that the Respondent GUVNL has thereafter filed its reply and subsequently, rejoinder-in-reply is also filed by the Petitioner. Referring to Minutes of Meeting (MoM) annexed by the Petitioner to its rejoinder-reply for meeting held on 12.08.2022 amongst senior officials of the State Government, the Petitioner and the Respondent, it is submitted that discussions transpired therein are duly encompassed in the said MoM. Referring to para 1.5 of the MoM, it is further submitted that after discussing the request for allowance of one-time capital expenditure of Rs. 293 Crores by the Petitioner in FY 2022-23 and recurring additional expense of Rs. 1 Crore per month with a limit of Rs. 12 Crore per annum from FY 2023-24 onwards, the Petitioner was advised to approach this Commission for the approval of one-time capital expenditure in FY 2022-23. However, with regard to proposal of recurring capital expenditure of 12 crores per annum, it was agreed that there cannot be such recurring capex in cost plus PPAs but since, the Respondent agreed to increase the payment towards O&M expenses substantially, such expenses may be met out of the same by the Petitioner.

2.2. Referring to para 1.6 of the MoM, it is submitted that it has been agreed that the Petitioner shall approach the Commission for approval of additional capital expenditure of 293 Crores. and as far as renegotiation of the PPA with the Petitioner is concerned, the Respondent and the Petitioner will seek approval of Board of Directors and accordingly sign Supplementary Agreement which shall be subject to the approval by this Commission for which the Respondent shall file Petition before the Commission. Thereafter, referring to the table thereunder, it is submitted that the summary of the negotiated parameters agreed during the meeting is recorded.

2.3. Referring to Order dated 10.10.2000 passed by the Commission in Case No. 19 of 1999, it is submitted that directions were given by the Commission to erstwhile GEB to make

a time bound Programme to bring down the fuel related costs alongwith other measures to reduce the expenditure. As such the power project of the Petitioner is cheapest amongst other conventional plants and even the Respondent GUVNL in its reply has stated that the variable energy cost of the Petitioner in FY 2021-22 is Rs. 1.54 per unit, which is lowest amongst lignite-based stations in Gujarat as per merit order dispatch.

2.4. It is submitted that PPA was executed on 19.02.2000 between the parties for supply of power to the Respondent GUVNL from its 2 x 125 MW lignite based Akrimota Thermal Power generating station in Kutch, whereafter, Supplementary PPA was signed on 17.12.2014. Accordingly, around 8 years life of the plant is still left but the availability of the Petitioner's project is low. Hence, a conciliating & consenting understanding between the parties was necessary, which was undertaken during meeting on 12.08.2022 amongst the parties herein, which are both entities of State Government, in presence of senior official from the Government and minutes drawn for discussion and decision during said meeting have been duly signed by the senior officials. It is also submitted that during the previous hearing, the Respondent GUVNL had fairly asked regarding certain details of DPR with break-up of environmental norms, cost benefit analysis & its justification, SHR, auxiliary consumption, other parameters etc., which have been provided by the Petitioner including relevant documents. It is in this backdrop that present Petition has been filed since capital expenditure is required for not only adhering to new emission norms by 31.12.2022 notified by the Ministry of Environment, Forest and Climate Change (MOEFCC) which are even stringent than earlier norms and for improving the performance parameters of the project.

2.5. It is further submitted that the Petitioner had received directions under Section 5 of the Environment (Protection) Act, 1986 from Central Pollution Control Board vide letter dated 11.12.2017 regarding compliance of emission limits notified. Moreover, in case of failure to meet the same, there is provision for penalty also.

2.6. Referring to letter dated 02.08.2019 addressed by the Petitioner to the Respondent GUVNL, it is submitted that the Petitioner after mentioning about the aforesaid 'Direction' of CPCB had conveyed that retrofitting / upgradation of existing Electrostatic Precipitators (ESP) will be required to meet the new norms of particulate matter. Also, the Petitioner has filed O&M manual for the ESPs of the OEM.

2.7. It is submitted that the present PPA is non-flexible and restricts the pass through of the Capital Expenditure which the Petitioner has to incur. Referring to trend of key parameters like SHR, Aux. consumption, availability, actual generation etc. of the Generating Station, it is submitted that the past performance of the Petitioner for said parameters is at variance from what is agreed in the PPA and resultantly, the Petitioner has suffered losses in past years which has constrained the finances of the Petitioner.

2.8. It is submitted that the PPA executed between the parties that are government entities and the Petitioner GMDC has continued to supply power to the Respondent GUVNL even though there was no full recovery of expenditure incurred. It is also submitted that in year 2006, a negotiating committee was constituted by the Government of Gujarat to discuss all issues relating to the PPA and accordingly, the said PPA had been duly amended in terms of the Supplementary Agreement Dated 17.12.2014. It is further submitted that as per the Environment (Protection) Amendment Rules, 2015 and circular dated 10.02.2020 issued by the CEA-MOP the new environment norms are to be complied by 31.12.2022.

2.9. It is submitted that the Petitioner has provided the break-up of CAPEX and being State PSU undertakes to carry out the required work through transparent tendering process and ensure lowest possible cost for same. Regarding the details and documentation sought by the Respondent for the original ESP's, the Petitioner has already submitted the OEM Manual.

2.10. Responding to impact on tariff on account of aforesaid CAPEX, the Petitioner submitted that overall impact of proposed modifications / upgradations on fixed charges shall be around Rs. 0.48 per kWh and details thereof are submitted in tabular form at Annexure-G to the Petition. Responding to query from the Commission about improvement in performance parameters, it is submitted that the availability which was around 25%-30% is expected to improve upto 75-85% in phased manner with consequential increase in PLF. The average auxiliary power consumption of past has been historically remained around 22% which will reduce and reach optimal levels in range of 12-13%. Even, the SHR in the past has remained in the range of 3000-3200 kcal/kWh, which is expected to reduce at levels of 2450-2550 kcal/kWh after Capital Expenditure. Thus, with 75% availability, the Respondent GUVNL will be benefited with 500 MUs more energy and reduced energy charges. Referring to table at para 15 of the Petition it is submitted that although overall impact will be around Rs. 0.48 per

kWh but pursuant to recovery of depreciation over the existing capital cost, the net impact will be only Rs. 0.02 per kWh.

3. Ld. Adv. Ms. Srishti Khindaria appearing on behalf of the Respondent GUVNL objecting to statement made by Ld. counsel for the Petitioner that present matter is a consensus Petition, submitted that it is for the Commission to examine the claim of additional CAPEX and subject to prudence check, the prayers made by the Petitioner can be allowed. Responding to observation made by the Commission that it is for the Respondent GUVNL to critically examine the proposal of the Petitioner, Ld. counsel for GUVNL submitted that the Respondent GUVNL has critically examined the same and detailed check is done.

3.1. It is further submitted that the MoM for meeting held on 12.08.2022 are pending for formal approval at Government level and hence, the same are yet to be finalized. It is submitted that the Petitioner is seeking Debt:Equity ratio of 70:30 but the PPA provides that Debt:Equity ratio as 80:20. Further, as per existing PPA, the SHR is 2400 kCal/kWh but Petitioner is desirous of 2900 kcal/kWh against which as per decision in MoM the same is to revise to a fixed SHR of 2713 kCal/kWh including moisture correction. Similarly, Auxiliary consumption as per PPA is 11% but GMDC wanted the same to be 12%. However, as per MoM, the same is agreed to be revised as 11.50%.

3.2. Referring to table in the MoM, Ld. counsel for the Respondent GUVNL pointed out that the summary of negotiated parameters agreed / decided during the meeting are recorded and hence, the same needs to be considered post approval of the Government as agreed between by the parties.

4. In response to above, Ld. counsel appearing for the Petitioner on instructions, submitted that the Petitioner is also agreeable to parameters agreed / decided during the meeting that are recorded in the MoM.

5. We have considered the submissions made by the parties. We note that the Petitioner has filed MoM for meeting held on 12.08.2022 in presence of senior officials of the (i) the Energy & Petrochemicals Department, (ii) the Petitioner GMDC and (iii) the Respondent GUVNL. During the course of hearing, both parties consented to the negotiated parameters agreed / decided during the meeting on 12.08.2022 as recorded

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in the MoM. Since, the Ld. counsels for the parties after having made their submissions and having concluded the same, we decide to reserve this matter for Orders.

5.1. We also note that the Petitioner has requested for allowing some time for filing its final submissions. Let the same be filed. Also, the parties are at liberty to file their written submissions, if any, within two weeks' time.

6. Order accordingly.

Sd/-
[S.R. Pandey]
Member

Sd/-
[Mehul M. Gandhi]
Member

Place: Gandhinagar.
Date: 12/12/2022.

100772 / e-ropp ca / a1 / 2023

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GUJARAT INDUSTRIES POWER COMPANY LTD.

Post : Ranoli, Dist. – Vadodara 391 350 Gujarat - INDIA

GIPCL/ Comm/ GERC/SLPP-Env/ 2023 / 2248 Dtd. 18th January, 2023.

The Secretary,
Gujarat Electricity Regulatory Commission,
6th Floor, GIFT One, Road 5-C,
Zone-5, GIFT CITY,
Gandhinagar- 382 355.

Sub: Petition No. 2175/2022
Ref: Letter GERC/Legal/2023/57 dtd. 10.01.2023

Respected Sir,

We acknowledge receipt of the referred letter on 13.01.2023. As instructed, GIPCL has delivered a copy of the Petition along with Annexures to the Respondent, GUVNL on 16.01.2023. A copy of the letter GIPCL/Comm/SLPP-Env/GERC/2222 dtd. 16.01.2023 duly acknowledged by GUVNL is annexed for information.

AJ (Legal) Ex (Legal)
Put in relevant files
PDK
20/01/2023

Legal
G.E.R.C.
Inward No - 0324
Date : 19 JAN 2023

With kind regards,

Yours faithfully,
For Gujarat Industries Power Company Ltd.

(Kiran R Mishra)
General Manager (Comm., Fin. & Legal)

Encl.: 1. Copy of letter GIPCL/Comm/SLPP-Env/GERC/2222 dtd. 16.01.2023

Regd. Office & Vadodara Plant :
Post Ranoli , Dist. – Vadodara 391 350 Gujarat – INDIA
INDIA
Phone : EPABX (0265) 2232768 / 2213 / 0159, (D) 2234223 **Fax** : 2230029
Email : krmishra@gipcl.com

Surat Lignite Power Plant :
Village : Nani Naroli, Tal. Mangrol, Dist. Surat 394 110, Gujarat –
Phone : EPABX (02629) 261063 to 261072 **Fax** : 261080
Email : genslpp@gipcl.com

Website : www.gipcl.com

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GUJARAT INDUSTRIES POWER COMPANY LTD.

Post Office Ranoli, Dist. – Vadodara 391 350 Gujarat - INDIA

GIPCL/Comm/SLPP/Env/ GERC/ 2222 Dtd. 16.01.2023.

The General Manager (IPP & RE),
Gujarat Urja Vikas Nigam Ltd.,
Sardar Patel Vidyut Bhavan,
Race Course, Vadodara-390007.

Kind Attn.: Smt. Sailaja Vachhrajani

Ref.: 1. Letter No. GERC/Legal/2023/0057 dtd. 10.01.2023
2. Letter No. GUVNL-COM-GM(IPP)-1018 dtd. 17.09.2022

Sub: GIPCL's Petition No. 2175/2022 dtd. 29.12.2022 filed in GERC

Dear Madam,

GUVNL vide letter ref. no. 2 had communicated in-principle approval for GIPCL's proposed expenditure in SLPP-1 & 2 to comply with the Revised Environmental Norms, 2015 for Thermal Power Plants. GUVNL had also urged GIPCL to initiate the process of regulatory approval for the same.

Accordingly, GIPCL has filed a petition numbered 2175/2022 with GERC on 29.12.2022. We are in receipt of the letter ref. no. 1 from GERC on 13.01.2022(enclosed) informing that GIPCL's Petition seeking pass through of additional capital expenditure and adjustment in tariff, to comply with Environment Protection (Amendment) Rules, 2015 in SLPP Phase-I & 2 under "Change in Law" provision of the respective PPAs has been registered.

As directed by GERC, a copy of the Petition along with Annexures is submitted for your kind perusal and needful action.

With kind regards,

Yours faithfully,

(Kiran R Mishra)
GM (Comm., Fin. & Legal)

GUVNL
REGISTRY BRANCH
16 JAN 2023
INWARD

Encl.: As above

cc.
The Secretary,
Gujarat Electricity Regulatory Commission,
6th Floor, GIFT ONE, Road 5-C, Zone-5,
GIFT CITY,
Gandhinagar-382 355.
Gujarat, India.

BEFORE THE GUJARAT ELECTRICITY REGULATORY COMMISSION

AT GANDHINAGAR

PETITION NO.2175 OF 2022

G.E.R.C.
Inward No. - 4955
Date : 21 OCT 2023

IN THE MATTER OF:

Gujarat Industries Power Company Limited ..Petitioner

Versus

Gujarat Urja Vikas Nigam Limited ..Respondent

REPLY ON BEHALF OF THE RESPONDENT TO THE PETITION

MOST RESPECTFULLY SHOWETH:

Preliminary Submissions:

1. That the Petitioner has filed the instant Petition for approval of Additional Capital Expenditure for Thermal Power Plants of the Petitioner to comply with the Environmental Norms under Environment Protection (Amendment) Rules 2015 as change in law under the Power Purchase Agreement dated 15.04.1997 and Power Purchase Agreement dated 13.08.2013. The Petitioner has sought for approval for scope of work of (a) upgradation/refurbishment of the electrostatic precipitators and (b) limestone storage facility of the generating stations.

2. It is submitted that any claim for additional expenditure and incorporation in tariff has to be considered and approved by the Hon'ble Commission. The Petitioner is required to demonstrate the actual expenditure incurred, the prudency and necessity of such expenditure, other relevant factors namely, following transparent procurement process and efforts taken by the petitioner to minimize such expenditures. Even in cases of change in law, there has to be a prudence check to ensure reasonable costs.

3. It is submitted that the Hon'ble Commission in case of GMDC vice Order dated 17.01.2023 in Petition No. 2127 of 2022 directed GMDC to follow competitive bidding process/tendering while carrying out EPC for different works, allocation of contracts etc in transparent manner:

> *8.42. We direct the Petitioner to follow Competitive Bidding Process/tendering while carrying out EPC for different works, allocation of contracts etc. in transparent manner including through on-line bidding portal wherever possible and ensure that the cost implication for each component is minimum with most competitive rates because the Electricity Act, 2003 emphasis that the power*

procurement be carried out by the licensee at the cheaper and competitive rates in the larger public interest. We are of the view that in the tendering process, specific terms with regard to achieving the guaranteed technical parameters be assured by the Supplier/EPC contractors etc. so that the benefits of Capital Expenditure are available to the Petitioner and the Respondent and in case of non-achievement of same, appropriate provisions regarding 'Non-performance charge' may be suitably incorporated as deemed appropriate. The Petitioner has submitted that currently the procurement of the power by the Respondent GUVNL from its generating station is cheaper than the power procurement carried out by it from other lignite based power plants and same of the coal/gas based power plants seems valid. It is also emphasized by the Petitioner that with improved performance parameters envisaged by it, the Respondent GUVNL is likely to be benefitted. Hence, the Petitioner needs to ensure that necessary steps which are required for meeting Environmental norms notified by MOEF&CC and improvement in power plant performance contemplated by the Petitioner GMDC is undertaken in most economic manner possible not only in the interest of the Petitioner, the Respondent GUVNL and the consumers at large and the same is also accepted by the Respondent GUVNL.

....

8.44. Accordingly, in terms of above, more particularly when the parties are ad-idem and otherwise at liberty to proceed in accordance with the Electricity Act, 2003, Rules & Regulations framed thereunder, provisions of the PPA not inconsistent thereto, as such nothing further survives for our consideration in this matter. Accordingly, we decide to grant 'In-principle' approval for one-time capital expenditure as may be incurred by the Petitioner while complying to the directions of the Commission hereinabove, more particularly transparent & competitive procurement process to minimize expenditure as may be necessary by putting all required efforts, cost benefit analysis, prudence check regarding reasonability & justification cost to be incurred. The Petitioner shall approach the Commission for approval of Capital Cost and its impact in tariff once the works proposed in the Petition are completed and finalized and all equipment's start functioning as envisaged and put in commercial operation for which capital expenditure carried out to enable determination of capital expenditure and its impact on tariff

(Emphasis Supplied)

4. In the present case, the Petitioner has claimed to incur substantial portion of expenditure but has not provided any details of the procurement process. The Petitioner is required to ensure that cost incurred is minimal and reasonable.

5. It is not clear from the Petition whether the Petitioner has assigned task of modification in generating station to meet new environmental norms to BHEL, being OEM, on proprietary basis or they have assigned this task to

different parties who are selected through open tender. Further details of procurement including details of tendering (i.e.details of participation, result of reverse auction etc) may be furnished.

6. The Petitioner has not provided any submission or pleading on the auxiliary consumption and O&M expenses though there is a prayer to this effect. There cannot be any prayer for which there is no pleading. In any case, the Petitioner is required to specify what is the additional Auxiliary Power Consumption and what are the additional O&M expenses and justify with supporting documentation the alleged increase in the above. Further the Petitioner is required to specify the date from which it is seeking to claim both Additional Auxiliary consumption & O&M expenses.

7. The Petitioner has stated in Para 6 that it is in under Category C as per the time schedule for compliance with Environmental norms and the deadline is 31.12.2024 for compliance with Particulate Matter and NO_x emission and 31.12.2026 for SO_2 emissions. However the Petitioner has also in Para 14 that it would meet the revised norm for Particulate matter before 31.12.2024. In this regard it is submitted that Hon'ble Commission in case of GSECL had directed GSECL to assess the work and take up the work in accordance with the revised timelines notified by Ministry of Power (Page 196):

> *"In view of the above, the Commission is of the view that the ESP retrofitting works for old plants of GSECL may not be taken up immediately as the timelines are now shifted to FY 2022-23.*
>
> .....
>
> *The Commission provisionally approved the capitalization of Rs. 373.09 crores for FY 2021-22 which includes capitalisation of ESP retrofitting works. However, GSECL is directed to assess the work related to ESP retrofitting and take up the work in accordance with the revised timelines notified by MoP. The funding of capitalization is approved in line with the normative Debt:Equity Ratio of 70:30 specified in the GERC (MYT) Regulation 2016"*

8. The Hon'ble Commission may consider all such aspects and take a view in public and consumer interest.

9. In light of the above preliminary submissions, the para wise reply to the petition are as under:

Para 1-3: The contents of Paras 1 to 3 deal with the description of the parties and is a matter of record. The generating station which is the subject matter of this Petition is the Surat Lignite Power Project (SLPP) Phase

I and II. The Petitioner and Gujarat Electricity Board (succeeded by GUVNL) had entered into PPAs and further mutually agreed to the amendments and the PPAs have been considered by the Hon'ble Commission.

GUVNL craves reference to the PPAs, Orders of the Hon'ble Commission as well as the provisions of the Electricity Act, 2003 and the Regulations thereunder for their true interpretation and scope.

It is submitted that the approval of the Hon'ble Commission is necessary for consideration of any alleged change in law and for the costs to be allowed. As already submitted, even for change in law, the prudence check is required.

Para 4: The contents of Para 4 deal with performance of the SLPP generating station and the provisions of the PPA and is a matter of record. Both plants of SLPP (i.e. SLPP Phase I & II) are supplying power under the PPAs and performing better than other lignite power plants in the state. The power from the Petitioner's power project is economical power.

Para 5: The contents of Para 5 relate to the clauses in the PPA which are a matter of record. GUVNL craves reference to the PPA for its true interpretation and scope.

It is submitted that the PPA dated 15.04.1997 for SLPP I under Additional Facilities-Modifications (Page 106 of Petition) clearly states that the Petitioner may incur such expenditure which is reasonably required to comply and that any such expenditure is required to be approved by Authority (which is the Hon'ble Commission) i.e. the requirement of prudence check and requirement of approval of the Hon'ble Commission is recognized. Therefore the claim of the Petitioner is subject to prudency check.

With regard to PPA dated 13.08.2013 for SLPP II, the change in law is related to taxes and charges on generation and sale of electricity. Further Article 7 of the PPA is specific in scope and the Petitioner can only be allowed expenditure which is necessary for efficient and successful operation of the power station.

The Petitioner is therefore required to demonstrate the necessity and prudency of the expenditure it is claiming so that the same can be considered by the Hon'ble Commission. In this regard, it is submitted that only reasonable and prudent expenditure can be considered. The Preliminary Submissions are reiterated.

Para 6: With regard to Para 6, it is submitted that Environment (Protection) Amendment Rules is a matter of record and GUVNL craves leave reference to the same for its true interpretation and scope. The Petitioner's SLPP Phase 1 was commissioned prior to 31.12.2003 and is less than 500 MW in capacity. SLPP Phase 2 was commissioned after 31.12.2003 but before 31.12.2016 and is less than 500 MW.

The Petitioner has referred to the norms prior to the Amendment Rules. However it is submitted that there were various consents and clearances such as Environment Clearance and consents from the Pollution Control Board etc which are required and such consents/clearances may also prescribe various conditions. To the extent that such norms are already part of the consents/clearances for the Petitioner's Plant, they cannot be considered new norms. Thus the Petitioner may also be required to disclose the conditions in the Environment Clearances and other consents and clearances in this regard.

The Petitioner has stated that it is in under Category C as per the time schedule and the deadline is 31.12.2024 for compliance with Particulate Matter and NO_x emission and 31.12.2026 for SO_2 emissions. As already submitted in case of the GSECL, the Hon'ble Commission had directed GSECL not to take up the work immediately in the said case as the timelines were extended and to take up the work according to the revised timelines. However it is submitted that it is the obligation of the Petitioner to ensure that the timelines are met and any delay and the consequences of the delay including any penalty imposed are solely attributable to the Petitioner and the same cannot be passed on to GUVNL or consumers at large.

The Preliminary Submissions are reiterated.

Para 7: With regard to Para 7, GUVNL craves reference to the Letter dated 30.05.2018 by Ministry of Power for its true interpretation. However

it is submitted that the said Letter is a direction to Central Electricity Regulatory Commission under Section 107 of the Electricity Act, 2003 (Page 129) and is not binding on the State Commissions including the Hon'ble Commission. Even otherwise, the direction related to tariff are not binding on Regulatory Commissions. Even otherwise, the approval for any expenditure is to be considered as per the law and further requires approval of the Appropriate Commission.
The Preliminary Submissions are reiterated.

Para 8 With regard to Para 8, it is submitted that the Petitioner is required to establish the need for the upgradation/refurbishment and augmentation as claimed by it. The Petitioner has not substantiated its claim by attaching any technical report etc. The Petitioner has not claimed any expenditure in relation to NO_x emissions, mercury emissions and water consumption. The Petitioner has sought to claim in regard to SO_2 emissions and Particulate matter.

As per the Petitioner, the SO_2 emissions remain well within the 600 mg/NM^3 but is claiming that minor upgrade is required to comply with the revised limit. The fact that the SO_2 is within limit is clear from the average emission claimed by the Petitioner in the table at Page 15 of the Petition wherein the emission is much less than 200 mg/NM^3 whereas the limit is 600 mg/NM^3. This has also been admitted by the Petitioner not only in the present Petition but also in Letter dated 31.03.2016 written by GIPCL to CEA (Page 152 and Page 153) and in letter dated 22.05.2020 written by GIPCL to this Hon'ble Commission (Page 159 and 160). If the emissions are already well within the limits, why is any upgrade required. The Petitioner has not produced any document substantiating the need for any upgrade.

It also appears that the Petitioner has already incurred the expenditure and created the capacity without any approval of the Hon'ble Commission and further even though the deadline for norms for SO_2 is 2026 which is contrary to the directions by Hon'ble Commission for GSECL. The Petitioner has to establish that the activity related to limestone is in fact necessary for meeting the emission norms.

With regard to Particulate matter emissions, it is submitted that in terms of the data produced by the Petitioner in Para 8 since April 2022 (Page 16), the actual average is less than 100 mg/NM^3 for all except one instance for Unit I and II whereas the limit for Particulate matter is 100 mg/NM^3 for Unit I and II (SLPP - I). Therefore the Petitioner may explore whether the emissions can be controlled with lesser intervention than proposed.

Further the Petitioner is required to substantiate the basis of its claim for activities to be undertaken to comply with the revised PM limit as well as the technical details sought to be claimed by it. The Petitioner has not produced the study of Corrosion by CSIR - CECRI as referred in sub-Para F. Admittedly, ESPs are already installed in the SLPP units and the maintenance of the same are already part of the O&M expenses.

It also appears that the Petitioner has initiated the activities and incurred expenditure without approval of the Hon'ble Commission. The Petitioner has not also disclosed whether the task has been awarded through competitive bidding. Any tendering/procurement process should be aimed at ensuring economical cost and it is necessary to award the same through competitive bidding. The Petitioner has not provided any details thereto.

The Petitioner needs to submit Detailed Project Report (DPR) along with cost and justification for each of the expenses. At this stage, the Petitioner has not provided any reports or details of the expenditure. The Petitioner has not provided any technical report for the requirement of refurbishment of ESPs etc.

Further it is submitted that the Notification was issued on 07.12.2015 and the Petitioner first raised this issue only in 2018 and further has filed the Petition before the Hon'ble Commission in 2022 without any details or reports even though it is claiming that it has already started the process and incurred expenditure in relation to activities for compliance with revised norms. Further the expenditure has been occurred without approval by the Hon'ble Commission. Any consequences of delay in approaching the Hon'ble Commission including claims of IDC etc cannot be passed on to GUVNL.

The Preliminary Submissions are reiterated. The contentions to the contrary are wrong and denied.

Para 9: With regard to Para 9, it is submitted that the direction dated 11.12.2017 by CPCB is a general direction which is clear from the fact that the direction is to install ESPs (which are already installed in the Petitioner's plant), to install low NO_x burners, OFA etc to meet the NO_x emission limit (which is already being met) and to meet SO_2 emission limits (which is already met). The direction also makes reference to FGD which is not applicable to the Petitioner at all. CPCB letter dated 11.12.2017 is not a direction upgrade ESPs but to install ESP which already exist in the Petitioner's plant. The Petitioner is claiming that ESPs require upgradation but has no produced any report for the same.

The preliminary submissions are reiterated.

Para 10: With regard to Para 10, it is submitted that the necessary approval of claim and expenditure is to be given by the Hon'ble Commission. The Letter dated 17.09.2022 by GUVNL make it clear that since this involves increase in capital cost and resultant increase in cost of power to end consumer, the regulatory approval is necessary.

The Preliminary Submissions are reiterated.

Para 11: With regard to Para 11, it is submitted that the Petitioner is required to establish the need for refurbishment as well as the basis for its claim. Further the Petitioner has to substantiate the actual expenditure based on auditor's report and supporting documentation as well as demonstrate the expenditure was prudent and reasonable. The Petitioner has not produced the contract nor clarified whether the task was awarded under tender process etc. The Petitioner has referred to items being procured as per Company's purchase procedure but has not stated what the procedure is and in any case, it is not sufficient. The Petitioner is required to justify the procurement process for any claim to be considered by the Hon'ble Commission and only reasonable and prudent expenditure can be allowed.

It is submitted that the PM emission are currently within the limits as per table in Para 11, Page 21. However the Petition is claiming that it has yet to finish the upgradation. The Petitioner has to justify why is further upgradation required when the limits are already met.

The Preliminary Submissions and submissions made hereinabove are reiterated.

Para 12: With regard to Para 12, it is reiterated that any claim for costs is to be examined and considered by the Hon'ble Commission in terms of the Electricity Act, 2003 and the applicable Regulations as well as the terms of the Power Purchase Agreement. GUVNL craves reference to the decisions referred to by the Petitioner.

Admittedly the Hon'ble Commission has undertaken due diligence and directed the generators to produce necessary information for the same. The Petitioner is also required to justify the claims.

With regard to Annexure R, it is submitted that the Petitioner has produced the daily order dated 12.12.2022 in Petition No. 2127 of 2022 for which the final order dated 17.01.2023 has been passed. GUVNL craves reference to the Order dated 17.01.2023. It is relevant to point out that in the said Order, the Hon'ble Commission had directed the GMDC to follow competitive bidding process/tendering.

Para 13: With regard to Para 13, it is submitted that the Petitioner has not provided the detailed breakup of the calculation nor the computation of tariff. The table cannot be admitted without the detailed calculation.

(a) Detailed breakup of costs for the work claimed by the Petitioner is required and the basis of the costs.

(b) The Capital Expenditure on ESP upgrade is proposed as Rs. 38.10 for SLPP Phase 1 and Rs. 41.32 crores for Phase 2 (even though both are 250 MW and therefore should be same costs). Further there is no break up of costs. Further any such costs can be considered only after submission of documents as already submitted in Preliminary Submissions and submissions made hereinabove.

(c) The Petitioner has not justified the need for IDC. Further the Petitioner has considered IDC but has not demonstrated the calculation. The Petitioner has not indicated the rate of interest or period considered (commencement date and end date). Such vague calculation cannot be accepted.

(d) The increase in fixed charges claimed is not supported by any calculation. The Petitioner also has to explain how the fixed charges has been spread out - only for balance years until 2030 or considering extended life of the project.

The Petitioner is required to produce detailed calculations and justification.

Para 14: With regard to Para 14, it is submitted that the SLPP Phase 1 PPA is valid at present until February 2030 though GUVNL has in principal approved the extension of term of SLPP Phase 1 by 10 years which has also been in principle agreed to by the Petitioner and which is subject to approval of the Hon'ble Commission. Otherwise, the balance period after the timelines of environment norms would be 6 years (from 2024) and 4 years (from 2026).

It is admitted that the power from the Petitioner's power project is economical power as per the merit order despatch.

The Hon'ble Commission may examine and consider all aspects and take an appropriate view.

Para prayer: With regard to prayer, it is submitted that the Petitioner has to justify the need for the work. Further it is reiterated that the claims for capital expenditure by the Petitioner is to be examined and considered after prudence check as per the objectives and provisions of the Electricity Act, 2003, applicable Regulations, terms of the PPA and the interest of consumers. For such consideration, it is essential for the Petitioner to submit various details, break of up of costs and justification of each cost, cost benefit analysis, documentary proof, audited accounts etc. The Petitioner is also required to justify the claim for IDC.

With regard to Auxiliary consumption and O&M Charges, it is submitted that the Petitioner has not made any reference in thisregard in the pleading. There is no submission on the impact of

environment norms on the auxiliary consumption or O&M expenses. It is submitted that both Auxiliary Consumption and O&M expenses stands approved and the Petitioner is not entitled to any increase without detailed justification and only if the same is directly attributable to any equipment installed. However since the claim is for refurbishment of ESPs, there is no basis for increase in auxiliary consumption or O&M expenses. In any case, no details have been submitted by the Petitioner.

The contents of the Preliminary Submissions are reiterated.

RESPONDENT

GUJARAT URJA VIKAS NIGAM LIMITED

Deputy Engineer
Gujarat Urja Vikas Nigam Limited
Vadodara

PLACE: Vadodara

DATE: 19-10-2023

BEFORE THE GUJARAT ELECTRICITY REGULATORY COMMISSION

AT GANDHINAGAR

PETITION NO. 2175 OF 2022

IN THE MATTER OF:

Gujarat Industries Power Company Limited ..Petitioner

Versus

Gujarat Urja Vikas Nigam Limited ..Respondent

Regd. No.: 21597
Date : 19/10/2023

AFFIDAVIT

I, Hitesh Patel son of Prabhudas Patel, aged about 49 years, residing at Vadodara, do solemnly affirm and state as under:

1. I am the Deputy Engineer of the Respondent in the above matter and am duly authorized by the Respondent to make this affidavit.

2. That the statements made in the Reply are based on information maintained in the records of the Respondent Company and are believed by me to be true and based on legal advice received and believed by me to be true.

DEPONENT

Deputy Engineer (IPP)
Gujarat Urja Vikas Nigam Limited
Vadodara

VERIFICATION

I, the deponent above named, solemnly affirm and verify that the contents of the above affidavit are true to my knowledge, no part of it is false and nothing material has been concealed therefrom.

Verified at Vadodara on this 19th day of October, 2023.

Solemnly Affirmed/Declared
Sworn Before me by H.P.Patel

H. J. ZALA
NOTARY (Govt. of India)

DEPONENT

Deputy Engineer (IPP)
Gujarat Urja Vikas Nigam Limited
Vadodara

GUJARAT INDUSTRIES POWER COMPANY LTD.

P.O. Ranoli – 391 350, Dist. Vadodara, Gujarat – INDIA

GIPCL/ Comm/GERC/2175/ 2024/ 30th March, 2024.

The Secretary,
Gujarat Electricity Regulatory Commission,
6th Floor, GIFT One, Road 5-C,
Zone-5, GIFT CITY,
Gandhinagar- 382 355.

Sub: Petition No. 2175/2022
Ref: Respondent's Rejoinder dtd. 19/10/2023

Respected Sir,

Petitioner, GIPCL is hereby submitting its detailed rejoinder along with additional documents in response to the Respondent's reply dated 19/10/2023 on the subject Petition. It is requested to accept the submission and schedule further hearing at the earliest.

With kind regards,

Yours faithfully,
For Gujarat Industries Power Company Ltd.

(Kiran R Mishra)
General Manager (Comm., Fin. & Legal)

Cc to :
The General Manager (Comm),
Gujarat Urja Vikas Nigam Ltd.,
Sardar Patel Vidyut Bhavan,
Race Course Circle,
Vadodara -390007.

G.E.R.C.
Inward No. - 1650
Date: - 1 APR 2024

Regd. Office & Vadodara Plant :
P.O. Ranoli - 391 350, Dist. Vadodara Gujarat – INDIA
Phone : EPABX (0265) 2232768 / 0182 / 0028, (D) 2234223 **Fax** : 2230029
Email : krmishra@gipcl.com

Surat Lignite Power Plant :
Village : Nani Naroli, Tal. Mangrol, Dist.:Surat 394 110, Gujarat – INDIA
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Email : genslpp@gipcl.com

Website : www.gipcl.com
CIN-L99999GJ1985PLC007868

BEFORE THE GUJARAT ELECTRICITY REGULATORY COMMISSION

GANDHINAGAR

PETITION NO. 2175 OF 2022

IN THE MATTER OF:

Gujarat Industries Power Company Ltd. ***...Petitioner***

Versus

Gujarat Urja Vikas Nigam Ltd. ***...Respondent***

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Place: Vadodara

Date: 30.03.2024

Petitioner

GUJARAT INDUSTRIES POWER CO. LTD. PO. RANOLI 391350 VADODARA

NOTARY H.A.C. PAREKH GOVT. OF INDIA

BEFORE THE GUJARAT ELECTRICITY REGULATORY COMMISSION
AT GANDHINAGAR

PETITION NO. 2175 OF 2022

IN THE MATTER OF:

Gujarat Industries Power Company Limited ...Petitioner

Versus

Gujarat Urja Vikas Nigam Limited ...Respondent

PETITIONER'S RESPONSE TO THE RESPONDENT REPLY DTD. 19.10.2023

MOST RESPECTFULLY SHOWETH:

Chronology of Submissions for this Petition

1. **Petition was filed on 29.12.2022**
2. **GUVNL filed reply on 19.10.2023**

Preliminary Submissions:

1. It is a fact that the 125 MW SLPP Units 1-4 are equipped with Environment Friendly CFBC Boilers and therefore the revised stringent emission norms as per the Environment (Protection) Amendment Rules, 2015 can be complied through: -
   a. Upgradation / Refurbishment of ESPs of CFBC Boiler to bring down the Suspended Particulate Matter (SPM) Emission and
   b. Augmentation of limestone storage to ensure adequate Limestone Injection to be maintained at all times in the Boiler to meet the Sox Emission level.

   Due to the environment friendly CFBC technology adopted, costly and time-consuming upgrades like FGD or SCR are not required in the case of SLPP Units.

NOTARY I.A.C. PAREKH GOVT. OF INDIA

2. It is agreed that the actual additional expenditure claim of the Petitioner has to be scrutinized by the Respondent and approved by the Hon'ble Commission. Petitioner had timely informed Respondent, the sole off taker of power from SLPP about the revised emission norms, proposed action plan in SLPP to comply with the revised norms along with detailed execution plan and projected expenditure. Correspondences in this regard have been annexed as **Page No.166** of the Petition. Further, Petitioner reiterates and assures that only activities necessary for compliance of revised norms have been undertaken at SLPP. Procurement of Items and their Installation has been done by following transparent tendering process and incurring very reasonable cost. Petitioner is a publicly listed company working under the umbrella of Energy and Petrochemicals Deptt., Govt. of Gujarat. As per Petitioner's Procurement/ Work Contract Policy, any procurement above Rs. 25 Lakhs is done through open tender followed by e-reverse Auction to discover the most competitive price. Copy of the Company's Purchase Policy attached at **Annexure-S Page No.247-263**. Procurement Summary is attached in **Annexure-S Page No.264.** The details of major procurement and expenditure incurred till 31.12.2023 duly certified by Petitioner's Concurrent Auditor is attached in **Annexure-S Page No.265-268**.

Petitioner, GIPCL is a publicly listed company with the Board of Directors comprising Senior Govt. officials and professional Independent Directors. The Board was apprised about the impact of revised emission norm on SLPP Units as well as the proposed action plan in its Meeting held on 03/04/2018. The action plan well as the estimated expenditure of Rs. 86.34 Crores was reviewed and approved by the Board vide Resolution No. 4463; the same is annexed as **Page No.163** of the Petition.

3. The activities pertaining to upgrade/ refurbishment to comply with the revised environment norms in SLPP are nearing completion. Majority of the Purchase and Work Orders have been released and firm estimate of expenditure is **Rs.84.71 Cr.** Details of the expenditure of Rs.84.71 Cr is shown in **Annexure-S Page No.264**. Petitioner wishes to assert that only the minimum essential, reasonable and technically justified activity have been undertaken in SLPP Units, following prudent

NOTARY ILA C. PAREKH GOVT. OF INDIA

industry practice with very reasonable expenditure. The activities have been completed in a planned phased manner and within the specified deadline without resorting to any separate shutdown or outage for this purpose. **The final projected expenditure of Rs.84.71 Cr. is lower than the original estimate of Rs.86.34 Cr.**

4. In order to minimize expenditure, Petitioner has not awarded the refurbishment and retrofitting work of ESPs on EPC Basis and procured major items through transparent tendering process and procured only certain proprietary items from the OEM BHEL. Petitioner has tendered and procured all the required items at lowest possible rate without comprising on quality. Petitioner has availed the services of ex-BHEL specialists for supervision and advisory purpose.

5. The **procurement of items costing above Rs.5 Cr. has been done with due approval of the Board of Directors.** Copy of the Board Note with the details of tender process, outcome and award of contract is annexed as **Annexure-S Page No.269-330** to substantiate the Petitioner's claim regarding procurement process.

6. (a) **Increased Auxiliary Consumption due to Two Additional (Revival of Dummy) ESP Fields in SLPP Units 1-4**

To bring down the SPM Emission level from 150 mg/ Nm3 to below 100 mg/Nm3 in Units 1 & 2 of SLPP-I and from 100 mg/Nm3 to below 50 mg/Nm3 in Units-3 & 4 of SLPP-II, it is necessary to retrofit and revive the 02 Dummy Fields available in each Unit's ESP and this has increased Auxiliary Power Consumption in SLPP Units. SLPP O & M team has carried out elaborate exercise to measure the increased Auxiliary Power Consumption due to additional ESP fields in Units 3 & 4 in which Dummy ESP Fields have been revived. Details of this study is annexed as **Annexure–S Page No.493-495**. The average increase in Aux. Power Consumption for each Unit works out 3744 kWh/day which translates to 0.1248% for 250 MW SLPP-II. Since SLPP-I Units are similar, similar increase in Auxiliary Power Consumption would be applicable for SLPP-I also.

NOTARY ILA C. PAREKH GOVT. OF INDIA

It is pertinent to note that the actual Auxiliary Power Consumption of CFBC technology-based Lignite Boilers in SLPP is higher than the Normative Auxiliary Power Consumption allowed as per the PPAs. The average Aux. consumption of SLPP-I in the last 5 years is 13.43% against its PPA Normative level of 10% while in case of SLPP-II it is 12.78% against its PPA Normative level of 11.5%. **Yearly data of Auxiliary Power Consumption in SLPP Stations is as under**:

Particulars	Unit	2018-19	2019-20	2020-21	2021-22	2022-23
SLPP-1	%	12.67	13.07	13.57	14.04	13.80
SLPP-2	%	12.24	12.55	12.74	13.10	13.26

Hence, there is no scope for the Petitioner to absorb this additional Auxiliary Power Consumption. Therefore, Petitioner requests Hon'ble Commission to allow the observed increased Auxiliary Power Consumption in SLPP-I & II due to this "Change in Law" event and allow additional Auxiliary Power Consumption of 0.1248% above the current PPA Normative Auxiliary Power Consumption for SLPP-I & II

(b) **Increased O & M expenditure due to Additional ESP Fields and increased refurbishment of existing ESP fields to comply with Stringent Emission Norms**

There is significant increase in the recurring Annual O&M expenditure on ESP due to the revised emission norm. The increase is mainly due to following reasons:

(i) Additional 2 nos. fields fitted in ESP of each Boiler.

(ii) Increased & more frequent refurbishment of ESPs to comply with revised stringent SPM Emission level all the time. This entails increased cost towards replacement of ESP Internals and Casing/ Duct.

To meet the revised stringent Environment Norm, it is required to award a separate Work Order for the purpose of Repairing / replacement / strengthening of Casing & hoppers of Electro Static Precipitator (ESP) & casing / structure / support / duct

NOTARY ILA C. PAREKH GOVT. OF INDIA

assemblies of flue gas path carries flue gas including ESP maintenance in Unit-1 to 4 Boiler for proper and smooth compliance of Revised Environmental Norms for each year starting from FY 2024-25 onwards. The estimated value for FY 2024-25 is Rs.0.96 Lakhs/MW/ annum for 250 MW SLPP-II, based on expenditure incurred in FY 22-24. Hon'ble Commission is requested to consider increase in the Normative Annual O&M Charges by Rs.0.96 Lakhs/MW/ annum for SLPP-II and for 250 MW SLPP-I as per its PPA terms from F.Y.2024-25 onwards.

7. Petitioner is among the few utilities in the State to have timely initiated activities for compliance of revised emission norms. **GIPCL chalked out a detailed road map for compliance in FY 2016-17 itself with planned phase wise execution of work during Annual / Capital Overhaul of each Units in order to avoid separate** outage **for this activity.** The details of Phase wise activities approved by Petitioner's Board of Directors is shown on **Page No.163.** Details of action being taken for compliance of revised environmental norms was apprised to the Hon'ble Commission on 22/05/2020 with activity timeline and estimated expenditure as under:

Five Year Plan for meeting revised environmental norms for refurbishment of Electro Static Precipitators (ESP) fields along with repair / replacement / strengthening of ESP casing / structure:

5 Year Plan for ESP to meet revised norms	2016-17	2017-18	2018-19	2019-20	2020-21	In Lakhs	Nos.
	6 Field Replacement	7 Field Replacement	9 Field Replacement + 2 Dummy Field Revival	18 Field Replacement + 2 Dummy Field Revival	12 Field Replacement + 4 Dummy Field Revival	Total Cost	Total Field
Phase-1	0	3	3	12	10	3935	28
Unit-1	0	2	1	7	4		
Unit-2	0	1	2	5	6		
Phase-2	6	4	8	8	6	3573	32
Unit-3	0	0	3	5	6		
Unit-4	6	4	5	3	0		
Total fields	6	7	11	20	16		60
Total planned Cost	545	745	1277	2367	2574	7508	60
Contingency (@15 %)						1126	
Gross Expenditure						**8634**	



The Hon'ble Commission has taken on record, GIPCL's timely submission of compliance report on revised environmental norms in the Agenda Note Item No. 4 for the 22nd Meeting of GERC Co-ordination Forum.

8. Central Electricity Authority (CEA) vide letter CEA/Th./TPE & CC/ENV/50/2015/63-15 dated 13/01/2016 attached as **Page No.156** of the Petition apprised the Petitioner about the new environmental norms applicable for SLPP and directed to meet the revised norms by December, 2017. SLPP was also directed to furnish details of preparedness and action plan. Central Pollution Control Board (CPCB) vide letter B-33014/07/2017-18/IPC-II/TPP/15874 dated 11/12/2017 **Annexure-I Page No.143** of the Petition directed that ESP work shall be completed by 30/09/2020 for Unit-3 and 31/12/2020 for Unit-4.

Considering the issues/concerns raised by various stakeholders, the timeline for compliance of revised emission norm was deferred by the Central Govt. so that action was to be started by 2018 and end by 2022. Following table indicates the shift in deadline by the government from time to time for completion of upgradation activities to comply with the revised emission level.

Sr. No.	Remarks	Year of Notification	Deadline for SPM compliance	Deadline for SOx, NOx compliance
1	MoEF & CC notification of Revised Environment Protection Amendment Rules, 2015	Dec-15	Dec-17	Dec-17
2	Extension of 5 years by GoI	Feb-18	Dec-22	Dec-22
3	Central Pollution Control Board directive to SLPP under Section-5 of Environment (Protection) Act, 1986 for SLPP-II Units	Dec-17	Sep/Dec-20	Dec-20
4	Categorization of Power Plants into A, B & C Category for timeline of compliance. SLPP-I & II fall under Category C	Mar-21	Dec-24	Dec-24
5	For Category- C Thermal Power Plants	Sep-22	Dec-24	Dec-26

Petitioner, is a listed Company, as per Section 166 (2) of the Companies Act & therefore duty bound to take adequate and timely measures to protect the environment. It is therefore mandatory for the Petitioner to comply with the Statutory Norms pertaining to Environment Protection for continued operation of the Power

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Plant. Any violation of Statutory Environmental Norms would lead to heavy penalty and probable closure of the Power Plant. Accordingly, SLPP has dutifully responded to CEA, GoG and CPCB/GPCB directives from 2016 onwards by initiating timely action and submitted the status of compliance from time to time. Further to meet the revised emission limits within the stipulated dead line of MOEF & CC, Petitioner has initiated action from FY 2016-17 onwards as per a 5-year Plan. Correspondences are annexed at **Page No.143.**

With the shift in compliance deadline from time to time, GIPCL also suitably shifted its timeline with a view to ensure financial prudence. Currently, work is well on track and slated for completion before the deadline of December, 2024. SOx and NOx emissions are already being complied due to the CFBC technology adopted for the Boilers and augmentation of storage facility for Limestone.

It is to be submitted that this activity has taken substantial **long duration of 6-7 years** since this work has been clubbed with Planned annual overhaul/ shutdown and no separate outage has been availed for this purpose. **This is a significant gain for the State's Power Consumers.**

9. Timely compliance of revised emission norms is in public interest both from environmental and commercial aspect. Non-compliance would lead to continued higher level of harmful pollutants which would adversely affect health of the surrounding population in addition to stringent penalty. Sustained non-compliance may also lead to Plant closure. The Environmental Compensation Mechanism proposed in the MoEF & CC, GoI Notification dated 05.09.2022 for non-compliant units, 1 year post the deadline of 31.12.2024 is 40 p/Kwh. **The penalty is substantial compared to the compliance cost.**

Environmental Compensation as per Environment (Protection) Second Amendment Rules,2022 is as under:

Non-Compliant operation beyond Timeline	Environmental Compensation (Rs. per unit electricity generated)
0-180 days	0.20
181-365days	0.30
366 days and beyond	0.40

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By taking timely action, Petitioner has protected it's as well as public interest in the form of reduced harmful emission and avoided financial liability to Respondent and the State's power consumers.

10. Petitioner has put forth facts of the matter before the Hon'ble Commission so that it can take a decision to protect the interest of all stake holders.

11. Petitioner's Rejoinder to Respondent's para-wise Reply to the Petition is as under:

Para 1-4: Petitioner has nothing to add.

Para 5:

The expenditure incurred for compliance of revised emission levels is permitted under Article 10.1 of SLPP-I PPA dtd. 15.04.1997 pertaining to "Change in Law ", which is annexed as **Page No.106** of the Petition.

In SLPP- II PPA dtd. 13.08.2013 annexed **as Page No.108**, Article-13 read with Article 7.10.2 clearly allows for additional capitalization due to "Change in Law event. Therefore, the SLPP-II PPA's Change in Law provision implicitly covers events other than change in taxes and charges on generation and sale of electricity. Petitioner's SLPP-1 and SLPP-2 PPAs have been approved by the Hon'ble Commission, further as per PPA as well as Regulation, any additional expenditure shall be allowed only after prudence check and approval by the Hon'ble Commission. Hence, the present petition is filed to seek Hon'ble Commission's approval of additional expenditure.

It is pertinent to note that this Hon'ble Commission has allowed reasonable and prudent expenditure to comply with the revised emission norms for a similar CFBC technology-based Lignite Power Plant vide its order dtd. 07.01.2023 in Petition No.2127 of 2022.

This Hon'ble Commission has also allowed expenditure to upgrade the ESPs of GSECL Thermal Power Stations through various Tariff Orders annexed in **Annexure-Q Page No.194** of the Petition. This Hon'ble Commission has clearly acknowledged

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the activities for compliance of revised environmental norms as a **"Change in Law"** event of PPA.

Para 6 :

Sub Para 2:

a. SLPP Phase-I comprising 125 MW Units-1 & 2 was commissioned in Feb. 2000. The SPM emission limit applicable for SLPP-I Units commissioned in Feb. 2000 is 150 **mg/ Nm3** and therefore the Boilers are designed for this level. In this regard, OEM BHEL Operation and Maintenance Manual dtd. 03/05/1998 for SLPP-I ESP is attached as **Annexure-S Page Nos.410-415** and Gujarat Pollution Control Board (GPCB) Consent Order No. AWH104989 dated 13/11/2019 is attached as **Annexure-S Page Nos. 422-428**. The SPM Emission Limit as per the Revised Norm applicable after December, 2024 is 100 mg/Nm3.

b. SLPP Phase-II comprising 125 MW Units-3 & 4 was commissioned in April, 2010. The SPM emission limit applicable for SLPP-II is 100 mg/ Nm3 and therefore the Boilers of Units-3 & 4 are designed for this level. OEM BHEL Operation & Maintenance Manual dtd. 06/11/2008 for SLPP-II ESP is attached at **Annexure-S Page No.416-421** and GPCB Consent Order AWH104989 issued on 13/11/2019 is annexed as **Annexure-S Page Nos.422-428**. The revised SPM Emission Limit as per the Revised Norm applicable after December, 2024 is 50 mg/Nm3.

Sub Para 3:

GIPCL falls in Category- C as per CEA's classification of Thermal Power Plants with regard to the deadline for compliance of SPM, SOx and NOx levels. Hence the current deadline for compliance of revised SPM emission level for SLPP is December, 2024. Initially, the deadline was Dec. 2017, which progressively got extended up to 2024. The details of shift in timeline from time to time is submitted in Para 8. Petitioner has executed the entire exercise in a well-planned manner and timed the completion just

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near to the deadline. **It is also worth noting that the entire exercise has been carried out without availing separate shutdown and therefore avoided additional burden to the State's Power Consumers.** With the shifting of deadline, GIPCL also revised its timeline from time to time. **By timely compliance, GIPCL is avoiding costly penalty of 40 p/kWh.**

The detailed submission on timely execution is made in para 8 of this Rejoinder.

Para 7

This Hon'ble Commission has allowed additional capital expenditure towards compliance of revised environmental norms due to the Environment (Protection) Amendment Rules, 2015 under the "Change in Law" provision of PPA in Petition No.2127 of 2022 (GMDC vs GUVNL). This Petition deals with a similar issue for an identical Power Plant. Para 8.40 of the Hon'ble Commission's Order dated 17.01.2023 is reproduced here: -

"*We also note that the Petitioner is mandated by the Ministry of Environment, Forest& Climate Change notification to improve environmental parameters so that the plant of the Petitioner is able to operate, otherwise the same is restricted from the generation, whose life is not completed and 14-15 of balance years are pending. Therefore, it is necessary to allow the Petitioner to carry out expenditure to meet out environmental parameters. We also note that as stated by the Petitioner that the environmental norms are achievable only with the efficient parameters i.e. SHR, auxiliary consumption, primary fuel consumption etc. so that the boiler, turbine and auxiliary equipment are able to operate efficiently in the plant and reduce the pollution. Thus, expenditure to meet out environmental norms and also to improve performance parameters are interlinked with each other which will be helpful to achieve the stipulated emission norms and desired normative parameters. Hence, we are of the view that the approval for additional capital expenditure sought by the Petitioner as agreed by the Respondent are necessary to carry out works related to 'Change in Law' effect with respect to fulfilment of 62 environmental norms are achievable only by way of efficient utilization of power plant i.e. boiler, turbine, auxiliary equipment etc. seems correct, the same is approved subject to prudence check on competition*

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in works by the Petitioner and filing of the Petition for approval of actual capital expenditure with all necessary documents, details, cost benefit analysis, tendering process and after following necessary process.

The Hon'ble Commission has also acknowledged the Revised Emission Rules, 2015 as a "Change in Law" event while admitting the additional expenditure claim by various GSECL Power Stations under MYT Regulation, 2016 through various Tariff Orders which are annexed as Page No.194 of the Petition.

Para-8

Sub Para-1

SPM emission is normally controlled by installation of Electrostatic Precipitator in Lignite/ Coal fired Boilers of Thermal Power Plant. The simplest and cost-effective way to bring down the SPM emission in an existing Thermal Power Plant fitted with ESP is to augment / upgrade the existing ESP fields and revive the available Dummy fields. CPCB vide letter dtd. 11/12/2017 issued directions under Section 5 of the Environment (Protection) Act, 1986 for SLPP annexed as **Page No.143 of Petition**. Relevant Extract from this directive is reproduced here.

"*WHEREAS, it was noted that out of present 196667 MW installed capacity, about 60% capacity (1,15,214 MW) meets the new PM norms with existing ESP installations.* ***Remaining capacity of 64,334 MW which does not meet the new environmental norms regarding PM, requiring retrofitting additional fields in Electrostatic Precipitator (ESP)/ replacement of ESP in existing plants to meet the new emission norms of PM;***

The technical requirements in SLPP-I Units 1-2 to comply with the revised environmental norms is adequately dealt in the **Detailed Project Report (DPR)** submitted by the consultant, STEAG India engaged by the Petitioner for the purpose of Renovation, Modernization and Life Extension of SLPP-I. The observations and recommendations with regard to action needed and taken for compliance of revised Environmental norm is annexed as **Annexure-S Page Nos.455-492**.

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Sub Para-2

Revised SOx and NOx emission levels as per amended Environment Rules, 2015 are taken care by the CFBC technology adopted for SLPP Boilers. In CFBC Boiler, SOx emission level is maintained by adequate limestone addition in the Combustor while the lower combustion temperature of CFBC Boiler limits the NOx emission levels. In order to maintain SOx level within the revised limit at all times, it is required to continuously inject required quantum of limestone in the CFBC Boilers and therefore it is essential to have adequate limestone storage capacity, especially for the monsoon period. **Hence, limestone storage shed of 55,000 MT capacity has been constructed incurring expenditure of Rs.6.92 Cr.**

Sub Para-3:

As per the PPA and MYT Regulation, 2016, PPA beneficiary's in-principle approval is a pre-requisite prior to approaching the Hon'ble Commission. Any change in Statutory Rules by the Central Government has to be mandatorily complied and there can be no dispute on this point. Therefore, on one hand Petitioner took prompt action to identify the requirement in SLPP for compliance of the Revised Emission level and initiated preliminary action to comply with the revised guidelines in 2016-17 itself. Once some clarity emerged about the compliance requirement for old operating Thermal Power Stations with deadline, Petitioner timely apprised the Respondent with details in 2018 and sought in-principle approval. The matter was followed up with the Respondent in 2019, 2020 & 2022. Respondent conveyed its in-principle approval to the Petitioner's proposal vide letter GUVNL-COM-GM(IPP)-1018 dated 17.09.2022, subject to the approval of Hon'ble Commission. Copy of the correspondences is attached at **Page No.166** onwards of the petition.

To comply within the deadline imposed by MoEF & CC it was necessary to initiate activity well in advance considering the long lead time for procurement of various items and coinciding this work with the planned Annual Overhauling (AOH) of Units.

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As per SLPP-I & II PPAs, it is Petitioner's responsibility to prudently operate and maintain the Power Plant so as to maintain the optimum availability and ensure compliance of all the regulatory norms. Failure to timely comply would result in imposition of heavy penalty, which would have been a burden for the State's consumers. Therefore, Petitioner commenced the activities for mandatory compliance along with Annual Overhaul of Units since 2016-17 as per the directives of CPCB/GPCB, CEA, EPD GoG. Respondent was all along kept in the loop regarding the compliance status and Hon'ble Commission was also apprised in 2020.

Sub Para-4 :

Petitioner commenced refurbishment of ESPs from FY 2016-17 onwards in a planned manner to coincide with annual overhaul/planned outage of Units so that Plant Availability is not adversely affected on this account. **It is heartening to inform that currently the activity is almost complete so that all Units would comply with the Revised Emission Levels by the current deadline of December, 2024. The only pending activity is the revival of 4 Dummy ESP fields in SLPP-I as well as refurbishment of certain ESP fields in SLPP-I Units -1 & 2. This activity will be taken up in the shutdown planned in later part of this year.** SLPP Units are currently able to comply the revised stringent SPM levels most of the time. Without this additional Capital work by the Petitioner, SLPP Units cannot comply with the stringent SPM Emission limit at full load continuously. The SOx, NOx and SPM levels are monitored in real time on continuous basis by GPCB as well as CPCB. The intervention by the Petitioner is adequate and to the essential extent only to ensure environmental compliance at all times. The emission levels for the last few months is presented here for reference. It can be seen that the SPM level of Unit-1 of SLPP-I is comparatively higher since the ESP retrofitting and refurbishment activity is only partially completed for this Unit.



SLPP Emission Data Aug.'23 to Jan.'24				
Month	**Unit**	**SO2 (ppm)**	**NOx (ppm)**	**SPM (mg/Nm³)**
Aug'23	1	19.34	17.92	84.87
	2	158.04	11.89	83.92
	3	33.22	9.23	44.75
	4	48.13	17.08	41.20
	Average	**64.68**	**14.03**	**63.69**
Sep'23	1	118.32	10.46	182.71
	2	187.35	19.86	49.42
	3	71.32	23.99	48.44
	4	40.90	18.19	39.71
	Average	**104.47**	**18.12**	**80.07**
Oct'23	1	90.26	21.07	300.82
	2	27.78	20.94	48.77
	3	56.58	21.76	49.14
	4	21.44	6.30	28.77
	Average	**49.01**	**17.52**	**106.88**
Nov'23	1	52.07	35.36	401.99
	2	82.34	13.11	94.30
	3	52.56	12.80	46.83
	4	49.32	21.37	27.76
	Average	**59.07**	**20.66**	**142.72**
Dec'23	1	87.57	24.85	224.59
	2	59.67	20.20	35.10
	3	49.43	4.56	42.86
	4	44.87	13.26	13.00
	Average	**60.38**	**15.72**	**78.89**
Jan'24	1	65.27	46.71	91.91
	2	90.69	20.46	104.17
	3	46.68	20.08	24.89
	4	47.16	20.25	10.20
	Average	**62.45**	**26.88**	**57.79**

Sub Para 5:

CSIR-CECRI, a Govt. body was specially commissioned by the Petitioner to carry out a detailed study of aggravated corrosion in Boiler and related auxiliaries in SLPP on account of poor fuel quality and suggest remedial measure. Extract of CSIR-CECRI report based on its detailed study of corrosion in SLPP Boilers particularly ESP Section is attached as **Annexure-S Page Nos.429-454**. The deterioration in ESP internals and Casing /Flue Gas Duct is abnormal and primarily due to the deteriorating fuel quality and therefore requires special attention. Huge corrosion in the Flue Gas Duct in ESP Section results in air ingress and affects the efficient performance of ESPs. The rectification is a major activity with considerable expenditure and therefore cannot be considered as part of routine O & M expenditure. The technical requirement is further substantiated in the DPR prepared by consultant STEAG for SLPP-I. Relevant extract is annexed as **Annexure-S Page Nos.455-492**.

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Sub-Para 6:

Petitioner has kept the Respondent informed regarding the activities undertaken and estimated expenditure since the very beginning. Petitioner being a State PSU, all items have been procured through transparent and well laid out procedure for Supply Tenders and Work Contracts. Relevant extract from Works Contract Manual is attached as **Annexure-S Page Nos.247-263**.Summary of the items procured through various tenders / contracts, invoices and expenditure incurred / yet to be incurred is attached as **Annexure-S Page No.264**. CA certificate in this regard is annexed as **Annexure-S Page No.265-268**. This has been dealt in detail in Para 2 above of this Rejoinder. For the sake of brevity, the same has not reproduced here again.

Sub Para 7:

Petitioner has engaged the STEAG India as the consultant to prepare a Detailed Project Report (DPR) for the Renovation**, Modernization and Life Extension of SLPP Phase-I.** In this DPR, the condition of ESP Internals as well as Casing, Electrical and Controls etc., have been exhaustively dealt in the Executive Summary, Chapter 7.8, 9.1 & 11.5. Relevant extract of this DPR is annexed as **Annexure-S Page No.455-492**. SLPP-II ESP construction is almost similar to SLPP-I, there is only minor variation with regard to number of fields and Pitch distance between Electrodes. Therefore, the observations and recommendations of the STEAG DPR equally applies for SLPP-II.

Further, Petitioner has been successfully operating the 500 MW SLPP, Lignite Boiler with CFBC Technology for the past 24 years. Therefore, Petitioner has a good understanding of the technical and operational aspects of CFBC Lignite Fired Boilers. SLPP is acknowledged as the best performing lignite power plant in the State. Further, Petitioner has engaged ex-BHEL(OEM) experts for advice and supervision of this activity. Minutes of the Meeting with ex-BHEL experts is attached as **Annexure-H Page No.130.** In order to avoid unnecessary expenditure, exclusive DPR for this activity has been felt unnecessary and therefore not commissioned.

Sub-Para 8:

Petitioner reiterates that it has followed proper procedure with regard to carrying out activities towards compliance of revised emission norms. Petitioner first approached the Respondent and Beneficiary of SLPP with the details of activities required, execution plan, expenditure estimate for in-principle clearance. Upon obtaining Respondent's in-principle approval in 2022, Petitioner promptly approached the Hon'ble Commission for approval. Hence, there is no delay or violation of procedure on the part of Petitioner. Petitioner has started incurring expenses towards this activity since 2016-17 with a view to complete the activity as per the deadline prescribed by Govt. of India from time to time, hence the IDC claim on additional capital expenditure is justified. The additional capital expenditure needs to be reimbursed by way of adjustment in tariff as per the terms of the PPA. The contention of Respondent to the contrary is strongly refuted.

Para 9

The direction of CPCB dated 11.12.2017 (**Annexure-I Page No.143 of Petition**) is specifically addressed to Petitioner's SLPP Units and the direction was given to install additional fields in ESPs / Replacement and Upgradation of ESPs in existing plant. The extract of referred CPCB letter has been reproduced at Para 8 of this Rejoinder.

Para 10

Based on Respondent's in-principle approval dated 17.09.2022 (**Annexure-O Page No.189**), Petitioner has filed the subject Petition before the Hon'ble Commission for admittance of additional expenditure and adjustment in fixed cost tariff as per the PPA.

Para 11

The requirement for refurbishment has been already reiterated multiple times in the foregoing paras. Details of various tenders and expenditure duly certified by the company's Concurrent Auditor and Declaration by Plant Head is attached as **Annexure-S Page Nos. 265-268** along with this Rejoinder. List of various Purchase/ Work Orders is attached as **Annexure-S Page No.264**. Hence, Petitioner reiterates

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that it has judiciously implemented this activity in a technically and financially prudent manner as per the norms mandated by the Hon'ble Commission. All expenditure has been incurred by following due procurement procedure. Open tendering has been adopted for tender value more than Rs. 25 Lakhs except proprietary items of Original Equipment Manufacturer (OEM).

The emissions from SLPP Units are monitored on real time basis by Gujarat Pollution Control Board. After the ESPs are refurbished during annual overhaul, their efficiency is high and the SPM levels are lower than prescribed limit. However, over a period of time there is deterioration in efficiency and this is particularly severe in case of SLPP due to the poor quality of fuel. Hence there has to be adequate margin in ESP to take care of this deterioration. Unit shutdown cannot be taken just to refurbish ESP and this activity has to be clubbed with planned overhaul. SPM emission is impacted due to various factors like fuel quality, Unit Loading, ESP condition etc. It is therefore not possible to arrive at a conclusion by referring to one or two readings.

Dummy field revival (04 Nos.) as well as refurbishment of some fields is pending for Unit-1 & 2 of SLPP-1 and this is planned to be taken up in the later part of this year. Average SPM Emission of SLPP Units for the past six months is shown in Sub Para (4) of Para (8) of this Rejoinder, which clearly justifies Petitioner's contention.

It can be clearly seen that the SPM Emission level of Unit-1 has remained high for some time. **This data clearly highlights that without extensive intervention undertaken by the Petitioner, SLPP Units cannot comply with the revised SPM emission limit.**

Para 12

Petitioner requests the Hon'ble Commission to review and approve the mandatory additional capital expenditure and IDC thereupon incurred towards compliance of revised Emission limits mandated by the Revised (Environment) Protection Amendment Rules, 2015 for 250 MW SLPP-I and 250 MW SLPP-II due to the "Change in Law" event. It is requested to grant suitable relief in tariff as per the PPAs. Petitioner has carried out the required activity by following prudent technical practices to optimize the cost and followed competitive bidding/ tendering process as

mentioned at Para 2. The technical and financial prudence adopted by the Petitioner has resulted in completion of this activity at reasonable cost, lower than estimated expenditure.

Para 13

Earlier, Petitioner provided details of estimated expenditure for SLPP-I & II and expenditure incurred till that point of time. Approximate impact on tariff of SLPP- I & II considering additional capitalization and IDC was furnished **in Page 22** of the Petition. Currently, major part of the activity has been completed and Purchase/ Work Order issued for most of the pending activities have been issued. Hence, Petitioner is now able to provide a firm estimate of expenditure and impact on tariff of SLPP-I & II. For tariff calculation, the additional Capital Cost considered as on 31.12.2023 duly certified by the Auditor based on actual expenditure on this account with IDC thereon as per the rate of interest prescribed by Hon'ble Commission in MYT Regulation,2016.

a. Detailed expenditure break-up summary year-wise based on Purchase Orders issued for environmental compliance activity for SLPP-I & II and impact on fixed tariff of SLPP-I & SLPP-II is annexed as Annexure-S Page 496-501.

b. With regard to the query of variation in expenditure for SLPP-I & SLPP-II, Petitioner wishes to submit as under:

Phase wise expenditure for compliance of revised emission norms as per Environment (Protection) Amendment Rules, 2015 and amount expended as on 20.12. 2022 is as shown below.

SLPP Station	Expenditure Incurred as on 31.12.2023 (Rs. in Cr.)	Proposed Expenditure by FY 2024-25 (Rs. in Cr.)	Total Additional Capital Cost	Interest During Construction	Total Estimated Expenditure (Rs. in Cr.)
Phase- I	35.10	9.00	**44.10**	8.60	**52.70**
Phase- II	35.54	5.07	**40.62**	12.08	**52.70**
Total	**70.64**	**14.07**	**84.72**	**20.68**	**105.40**

*The proposed expenditure includes pending work order of Rs. 4.25 Crores.

a. IDC Summary is annexed as **Annexure-S Page 502** as per the interest rate notified by the Hon'ble Commission in MYT Regulation,2016 for Deemed Loan due to deployment of funds from 2016-17 onwards.

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b. The fixed cost implication for SLPP-I has been computed for both scenarios:

(i) considering current PPA tenure till 2030 and

(ii) for extended PPA tenure till 2040 with Renovation, Modernization and Life Extension by 10 years as per the attached **Annexure-S Page No.499**.

It is submitted that the increase in 250 MW SLPP-I fixed tariff up to the current PPA tenure of 2030 works out to Rs. 0.117/kWh and considering the Life Extension by 10 years, works out Rs. 0.087 /kWh. The IDC impact on tariff is approx. Rs. 0.013/kWh and Rs. 0.008/kWh respectively.

c. In case of 250 MW SLPP-II, fixed cost increase till PPA duration of 2040 works out Rs. 0.073/kWh including IDC impact of Rs. 0.011/kWh Details are presented in **Annexure–S Page No.501**.

d. Petitioner has already filed Petition No. 2228 of 2023 before Hon'ble Commission seeking approval for Renovation, Modernization and Life Extension of SLPP-I, hence for 250 MW SLPP-I hence it is felt that it would be appropriate to evaluate SLPP-I tariff impact considering extended life up to 2040.

Para 14

Respondent has given in-principle approval for Renovation, Modernization and Life Extension of 250 MW SLPP-I comprising 125 MW Units 1-2 by 10 years till 2040. Petitioner commissioned a Detailed Project Report (DPR) by consultant STEAG India. The Detailed Project Report has concluded that it would be techno-commercially beneficial for the State's consumers. Petitioner has filed Petition No. 2228 of 2023 seeking Hon'ble Commission's approval for Renovation, Modernization and Life Extension of 250 MW SLPP-I. Hence, it is submitted that tariff for additional capitalization may be considered keeping in view the Life Extension of this 250 MW Power Plant up to 2040, which works out to Rs. 0.087/kWh including IDC.

Summary

1. Petitioner wishes to reaffirm that it has undertaken this mandatory environment compliance activity by following prudent technical norms and best financial practice

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in the industry. The upgradation has been done only up to essential extent. Purchase of equipment and services has been done by following transparent procurement norms.

2. The activities required in SLPP-I & II for compliance of revised emission norms as per the Environment (Protection) Amendment Rules, 2015 shall be completed before the current deadline of December, 2024. Petitioner has released most of the Purchase Order for procurement and services. The actual expenditure for SLPP-I is Rs.44.10 Cr. and Rs.40.62 Cr. for SLPP-II . This is well within the estimated expenditure of Rs.86.34 Cr.

3. The additional capitalization for SLPP -I is Rs.44.10 Cr. and IDC is Rs.8.60 Cr. The additional capitalization for SLPP -II is Rs.40.62 Cr. and IDC is Rs.12.08 Cr.

4. Petitioner has submitted details of procurement, additional capitalization with IDC and impact on fixed tariff of SLPP-I & II as desired by the Respondent

5. The impact on the fixed tariff for SLPP-I shall be Rs.0.117/kWh considering the current PPA duration till 2030 and Rs.0.087/kWh considering Life Extension by 10 years till 2040 including IDC.

   The impact on fixed tariff of SLPP-2 shall be Rs.0.073 /kWh for the remainder term of PPA till 2040 including IDC.

6. Details of tariff computation as per PPA norms is attached as Annexure S Page No. 496-501.

Cost Benefit Analysis

1. 250 MW SLPP Phase-I current PPA term is till 2030. However, Petitioner is in the process of carrying out Renovation, Modernization and Life Extension of SLPP-I Units-1 & 2. Respondent has given in-principle approval and Petitioner has already approached the Hon'ble Commission to seek approval vide Petition No.2228/2023. Once approved, the PPA of SLPP-I shall be extended till 2040. 250 MW SLPP-II PPA's term is till 2040. Hence, the remaining life of SLPP Stations is around 16 years and therefore it is techno-commercially prudent to comply with the revised norms to fulfil the PPA obligation.

2. The expenditure for compliance of Revised Environment Norms in case of SLPP Stations is only Rs.0.17 Cr./MW based on additional Capital Cost incurred and considering IDC it would be Rs.0.21 Cr/MW. This compares favorably with the expenditure of around Rs.0.44 Cr./MW required in Thermal Power Plants fitted with Conventional Boilers as per CEA Report, quoted in CERC proceedings. FGD

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installation also involves substantial recurring O & M expenditure, significant increase in Auxiliary Power Consumption and long shutdown. The compliance costs for SLPP Stations is comparatively on the lower side.

Prayer

I. Allow the justified additional capital expenditure incurred/ to be incurred by the Petitioner totaling to Rs.84.71 Cr. to comply with the Revised Environment (Protection) Amendment Rules,2015 which is a "Change in Law" event and also required for prudent Operation of the Power Plant as per the provision of PPAs for 250 MW SLPP-I & 250 MW SLPP-II.

II. Allow Interest During Construction (IDC) of Rs.8.60 Cr. in SLPP -I and Rs.12.08 Cr. in SLPP – II for the upgradation activity from FY 2016-17 to FY 2024-25 as per GERC MYT Regulation, 2016 and the same to be considered for tariff adjustment as claimed in this Petition.

III. Allow the additional expenditure including IDC to be capitalized for SLPP-I & II and adjustment in tariff as per the terms of PPA as claimed in this Petition.

IV. Allow the actual increase in Auxiliary Power Consumption (APC) i.e. 0.125% in SLPP-I and II. Also allow actual recurring Annual O&M expenses @ Rs.0.96 Lakhs/MW/ annum in SLPP-II and as per PPA terms in case of SLPP-I from FY 2024-25 onwards to meet the increased O & M requirement to comply with revised emission norm.

V. Pass such other orders as deemed fit and necessary in the facts and circumstances of the present case.

Declaration

The subject matter of the petition has not been raised by the Petitioner before any other competent forum, and that no other competent forum is currently seized of the matter or has passed any orders in relation thereto.

For Gujarat Industries Power Company Ltd.

Petitioner

Place: Vadodara
Date: 30.03.2024

GUJARAT INDUSTRIES POWER CO. LTD. P.O. RANOLI 391350 VADODARA

NOTARY I.A.C. PAREKH GOVT. OF INDIA

BEFORE THE GUJARAT ELECTRICITY REGULATORY COMMISSION

GANDHINAGAR

PETITION NO. 2175 OF 2022

IN THE MATTER OF:

Gujarat Industries Power Company Ltd. ***...Petitioner***

Versus

Gujarat Urja Vikas Nigam Ltd. ***...Respondent***

Reg No 2023
Date 30/3/24

AFFIDAVIT

I, Kiran R. Mishra, W/o. Shri Rajesh Mishra, aged about 53 years resident of Vadodara hereby solemnly affirm and state as under:

1. I am the General Manager (Legal) of the Petitioner and I am fully conversant with the facts of the case and competent to depose to the present Affidavit.
2. I have gone through the contents of the accompanying Rejoinder and I say that the facts stated therein are based on the records of the Petitioner Company and believed by the deponent to be true.
3. The annexures to the rejoinder are true copies of their originals.



DEPONENT

VERIFICATION:

I, the Deponent, above named do hereby verify that the contents of my above affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.

Verified at Vadodara on this 30th day of March 2024.

SOLEMNLY AFFIRMED/ DECLARED
SWORN BEFORE ME BY ..... Kiran

ILA C. PAREKH
NOTARY
30/03/24

DEPONENT

GUJARAT INDUSTRIES POWER COMPANY LIMITED

WORKS CONTRACT MANUAL
(March 2020)

Regd. Office & Vadodara Plant:
P.O.: Petrochemicals,
Dist.: Vadodara 391346

Surat Lignite Power Plant:
Village: Nani Naroli, Tal.: Mangrol,
Dist.: Surat 394112

GIPCL WORKS CONTRACT MANUAL

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PREAMBLE

For managing any business, it is required to have resources in the form of man power, money, machines, material etc. which are finally converted into finished goods & services as an output.

It is essential that these resources are procured through most appropriate, ethical and transparent IT enabled business process with minimum manual intervention. It is to be used in such a way that resources being provided to the organization are of right quality & of right quantity at right price and from the right and authentic source at right time. Correct identification of all these factors will determine best value for money in terms of most efficient and cost effective material and services.

Policies, Procedures and business processes are meant to reflect the environment that puts in the best possible & ethical effort to get the resources in the form of material, products and services. While making procurement, works and services, it is very much essential that employees involved at every stage of process get complete guideline through properly defined and designed company's policies and procedures.

Whenever bids are obtained for works and services, the activities are to be carried out on fair and transparent way without favoritism, in order to maximize gain to the organization such that interested vendor shall receive fair and impartial consideration.

This policy manual is prepared with an aim to have ethical and transparent IT enabled business process while dealing with vendors for the purpose of procuring products / services.

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GUIDELINE ON MANUAL

The company is required to avail certain services for operation & maintenance jobs, Renovation and Modernization, Repair Works, including dismantling / demolition, additions and alterations, other administrative services from outside contractors. This manual intends to cover the scope, methodology and the procedure to be followed while administrative approval to float tender, Tender Preparation, SOR methodology, tendering, awarding and execution of works from outside agencies. The provisions contained in this manual are to be read with the Sub Delegation of Powers; Master tender, Office Orders / Circulars issued by the Company on the subject from time to time.

The procedure to be followed for approval, award and execution, as indicated in the manual shall be followed to the possible extent as applicable, unless specific approval is obtained from the competent authority as per DOP on justified reasons.

For the operation & maintenance jobs of regular nature, annual rate contract can be tied up. For non-regular repair & maintenance jobs, offers can be invited as & when job is required to be carried out.

The procedure described is limited only for procurement of works and services and it is not applicable for procurement of any material, project contracts, major Mining contracts, Gas/lignite/imported coal/ limestone/other fuel purchase contracts and other associated works and services. .

All values indicated in this manual are as on the date of issue of the manual and require be reviewing and revising, if necessary, from time to time, with the approval of Competent Authority (CA).

The term approving authority wherever mentioned in the Works Contract Manual refers to the authority as per DOP.

****

CHAPTER NO- 01
CLASSIFICATION OF WORKS AND CONTRACTS

The company is required to avail certain services for operation and maintenance jobs, Renovation and Modernization (R & M), Repair Works, including dismantling / demolition, additions and alterations, consultancy/ expert services and other services from outside contractors.

➢ The term **"WORKS"** includes various "services" required for smooth operations of the Company which are broadly classified as:

- Existing/ New Works and Services.
- Repair Works, including dismantling / demolition, additions and alterations. Renovation and Modernization (R&M)
- Operation/Handling and maintenance (O&M) Works and Services of Power Plant & Mines inter alia Annual maintenance contract of Boiler, Turbine, Electrical, C&I, Lignite & Limestone Handling System(LLHS) ,Ash Handling System (AHS), Civil, Balance of Plant(BOP), etc and other rate contracts etc.
- Consultancy/Expert Services.
- Administrative Work Contracts.

➢ Service/ARC/AMC contracts shall be of two categories:

- SERVICE CONTRACT WITH MATERIAL

  Contracts which will include supply of services along with supply of material.

- SERVICE CONTRACT WITHOUT MATERIAL

  Contracts which will be only for providing services as per the requirement.

➢ Further to above two categories, contracts can be sub-bifurcated in terms of activity as well as manpower based. i.e.

- Activity Based Contract (Contract to be performed on activity basis)
- Manpower Based Contract (Supply of Manpower)
- Activity cum Manpower Based Contract

As far as possible, all Contracts shall be converted and derived to activity based contracts.

Category -A (Activity Based Contract)

i. Rates will remain firm throughout the contract period or any extension thereof. There will not be any escalation/compensation to the contractor against any revision in MWR (Minimum Wage Rates). However in case there is a revision in MWR beyond 10%, same can be reimbursed for labour component only subject to approval of Managing Director (MD).

ii. The Contractor shall not pay less than the Minimum Wages notified by the Government from time to time to his employees of corresponding categories.

iii. Contractor shall at his expense comply with all labour and industrial laws and such other acts and statues as may be applicable to the contract in respect to pay etc.

iv. On account of any default in respect of all liabilities and in case of non compliance of the above, the company can withhold their payments from the bills, Security deposit, PBG etc. till all legal liabilities are discharged.

v. Total count of manpower required for the contract shall not be mentioned in the Tender/contract. (Refer Chapter No-07 Point no-14 Site Visit) However, GIPCL will ask contractor to deploy manpower in sufficient numbers and quality to ensure workmanship of the degree specified in the Contract and to the satisfaction of the Company.

Category -B (Manpower Based Contract)

1. Tender shall be floated considering the MWR wherever applicable (except OEM/ Specialised services) on the tender date inclusive of all Statutory payment like PF, Bonus and Leave, on prevailing rate notified by the Government of Gujarat as per Minimum Wage Act, 1948 and other payment/allowances, if any and bidder shall quote accordingly.

2. The increase or decrease in basic rate or special Allowance as per the Minimum Wages Act, notified by the Government will be reimbursed on actual quarterly basis including statutory liabilities, subject to successful compliance for all obligations under this contract. Rates quoted should be firm and final except for statutory variation in MWR - will be separately reimbursed / compensated.

Category -C (Activity cum Manpower Based Contract)

If tender is of activity cum manpower based type, the price schedule shall be divided into two sections. They are:-

1. Activity Type- Rates shall be as per Category-A above.

2. Manpower Type- Where claim of variation in Man wages Rates shall be applicable as per Category-B above.

****

CHAPTER NO- 02
APPROVALS AND SANCTIONS

ADMINISTRATIVE APPROVAL

For requirement of services from outside contractors, the concerned department shall prepare note and put up for administrative approval which contain detail justification of requirement, type of services/nature of services, quantity of services, specifications, past history of services obtained, required details to be furnished as per Template –A and Template-B (specimen attached at sr.no.22 of this Manual), Draft Tender, the Estimated Contract Value / Schedule of Rates (ScR), E-Reverse auction details, Budget Head, Index and shall be put up to Competent authority with Financial concurrence for approval as per DOP.

There will be a separate approval note for each category of work/proposal. There shall not be clubbing of more than one proposal when put up for approval. The proposal shall be put up separately with clear noting about value of financial expenditure/implication involved in it, if any. Time extension of any contract without any financial implication shall be approved by tender approving authority.

Administrative Note shall be put up to CA at least Six Months prior except for OEM and other specialized services to completion of existing contract.

Administrative Approval Note shall also comprise the mode of tendering on the basis of estimation value as follows:-

1. Tender with estimated cost less than Rs.25.00 lakh shall be floated on limited tender basis to GIPCL registered vendors. Open tender may also be floated if resourceful vendors are not available and to have more competition etc.
2. Tender with estimated cost for equal to or more than Rs.25.00 lakh shall be floated on open tender basis along with E-Reverse auction.

Administrative approval shall be complete & clear in all respect

TECHNO- COMMERCIAL APPROVAL:

The number of vendors in Limited Tender /Open Tender should be minimum three. Efforts should be made to identify a higher number of approved vendors to obtain more responsive bids on competitive basis. Technical bids shall be opened if minimum three bids are received and if response is less than three in that case, approval of CA shall be obtained to process the received bids.

Bids received after open/limited tenders shall be technically and commercially vetted/scrutinized by concern user/technical /finance department w.r.t. tender terms and conditions. All the technical clarifications shall be obtained from bidders by respective department, if required and price bids of qualified bidders will be opened only after technical and financial concurrence as per DOP.

Tenders which are in the power of MD, HOM of User department (HOD/ HOM of M&C dept wherever applicable) and HOM of Finance department shall evaluate technical bid, financial bid and e-reverse auction before putting up for final approval to Competent Authority.

FINAL APPROVAL TO PLACE WORK ORDER

Final approval note shall be prepared after opening of price bid, after conducting reverse auction (in case of open tender above Rs.25/- Lakh) and after conducting negotiation (if necessary) only with L1 bidder as approved by Competent Authority as per DOP. Final Approval Note shall be put up to CA as per DOP, details of tendering, table of quoted rates and evaluation, E-Reverse auction details/ negotiation details, table of rates received after reverse auction/negotiation along with estimation and along with previous contract rates. Details shall be put up as per Template-C and Template-D (specimen attached at sr.no.22 of this Manual), Budget provision and index.

- Any other specific approval required for specific works contract, dept shall obtain the same as per DOP.

****

CHAPTER NO- 03
ESTIMATES

The scope of work according to the requirements shall be prepared by the indenter / user department. Estimate is required to be prepared on the basis of guidelines of SOR, updated suitably or based on market rates to give an idea of the approximate expenditure involved in the proposal.

Specifications/Scope of Work incorporated in the detailed estimates shall be precise and comprehensive and shall be carefully drawn. Authority according technical sanction should satisfy that the technical aspects of the proposal and estimates are based on adequate data.

The estimates will be based on specifications/Scope of work and detailed working of quantities and rates with an abstract showing the total estimated cost of each item/activity, for entire contract.

The estimates are to be prepared based on the prevailing guideline of schedule of rates of GIPCL. Activity wise estimate vis-à-vis total cost of manpower for particular activity based on Minimum Wage Rate Basis (as per annexure- III at Sr.no. 23 of this manual) shall be prepared separately by user department, wherever applicable and both should be at par wherever possible. Minimum Wage Rates and Applicable statutory rates shall be furnished by HR & A as and when revised. Factors considered while estimating the rates are also to be recorded. In respect of work of a special nature the estimates so prepared are to be adjusted for extraneous factors and adequately justified.

Detailed estimate to be placed along with administrative approval to competent authority as per DOP before the work is tendered or undertaken for execution. Care shall be taken to ensure that the estimates are realistic and cover all the items of works and services. In case any item is not available in any of the schedules referred to above, that item has to be analyzed as a new item and adopted on the basis of already accepted rates or on the basis of market rate analysis.

It may be noted that estimate shall be prepared by respective vertical head based on with Schedule of Rates (SOR)/without Schedule of Rates (SOR) in consultation with finance and HR department wherever necessary.

In case of emergency works necessitated to be undertaken due to failures resulted in generation loss, fire, breakdown of services/auxiliaries, customer requirements, any force majeure, any other conditions affecting operations, dump failure, insitu bench failure, lignite/limestone production loss etc., work may be commenced without a detailed estimate. In all such cases, an immediate report shall be given to the competent authority accompanied by facts and figures along with preliminary estimate.

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CHAPTER NO- 04
TYPES OF TENDERS

Every authority delegated with the financial powers of procuring services in the company interest shall have the responsibility and accountability to bring efficiency, economy, and transparency in matters relating to fair and equitable treatment to vendors and promotion of competition.

The following general principles should be observed while entering into contracts:—

I. The terms of tender must be precise, definite and without any ambiguities. The terms should not involve an uncertain or indefinite liability, except in the case of price variation clause in the tender.

II. Standard terms and conditions of tender should be adopted wherever possible. And if any modifications are considered necessary in standard terms and conditions in respect of individual tender, such modifications shall be carried out with approval of Competent Authority as per DOP.

Tender: Tender system is adopted to ensure wide publicity for obtaining the most competitive rates and fair award of contracts by giving equal opportunity to all eligible agencies. The type of tender to be invited will depend upon the nature and value of work and the same can be chosen out of the following types.

Types:

- Open Tender.
- Limited Tender.
- Single Tender.

➢ **Open Tender:**
Tender with estimated cost for all works and services of equal or more than Rs.25.00 lakh (Rupees Twenty Five Lakh) shall be floated on open tender basis along with E-Reverse auction through E-Tendering system on two/three part basis by advertising in newspapers and on GIPCL website

➢ **Limited Tender:**
Tender with estimated value less than Rs.25.00 lakh (Rupees Twenty Five Lakh) shall be floated through E-tender system on limited tender basis to GIPCL registered vendors. Open tender may also be floated if resourceful vendors are not available and to have more competition etc.

➢ Works and services through Limited Tender Enquiry may be adopted even where the estimated value of the procurement is more than Rupees twenty-five Lakh, in the following circumstances after approval of

Managing Director for mode of tendering and subsequent apprcval shall be as per DOP.

- If the demand is urgent and any additional expenditure involved by not procuring through advertised/open tender enquiry is justified in view of urgency.
- The sources of Works and services are definitely known/reputed and possibility of fresh source(s) beyond those being tapped is remote.
- Work and services of a specialized nature.
- User Department shall also put on record the nature of the urgency and reasons why the services could not be anticipated.

➢ Sufficient time should be given for submission of bids in Limited Tender Enquiry cases.

➢ **Single Tender:**
Normally single tender should be discouraged. However, in following exceptional cases the need for single tender may arise and may be floated after approval of Competent Authority:

- Case of proprietary works & services.
- To depute OEM expert.
- Work of very urgent nature.
- Work of a specialized nature.
- Adopting new technology.
- Internationally/nationally reputed Technology experts.
- Government Agencies.

The indenter/user department shall mention proper justification as applicable in the file put up for obtaining approval for single tender in any of above cases.

When open tender results in only one effective offer, preferably, if required, it shall be refloated and after refloating also there is a same response, in that case approval shall be accorded considering open tender as per DOP.

When limited tender results in only one effective offer, it shall be treated as single tender and put up for approval as per DOP.

Master tender copy attached at page no-47 is for the purpose of guideline to follow mostly for the open tender. Clauses appeared can be appropriately modified for limited/specialised/OEM tenders.

The powers for issue/acceptance/approval of all tenders viz., open / limited / single tenders shall be as per the Sub-Delegation of Powers.

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CHAPTER NO- 05
TENDER ADVERTISEMENT

Open tenders must be invited in the most open and public manner possible by advertisement as under:

- By advertisement in English and/or, Hindi and/or Regional language newspapers as may be required, considering target locations of bidders based on past experience as well as market scenario.
- On Company's website.

The advertisement released in newspapers shall be brief, giving reference to the website for details. The advertisement on the Company website shall contain all the details of the tender and shall be self-explanatory. Tender document shall be hosted on to the website to enable the agencies to download the same and submit the details.

Whenever possible, Composite advertisement (common advertisement for more than one tender) should be released to minimize expenditure in advertising.

Advertisement shall be done with target location of vendor from where we will get more participation.

Advertising agency should be clearly advised about the date of publication to ensure compliance.

The advertisement may be floated as per standard format and possibly in minimum size of 9 cm x 3 cm i.e.

GUJARAT INDUSTRIES POWER CO. LTD

TENDER FOR PROCUREMENT/WORKS AND SERVICES OF XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX FOR SURAT LIGNITE POWER PLANT (SLPP)

Interested Vendors may submit their Bids on two part basis through (n) Procure(Tender ID is XXXXXX). It can also be viewed from Company's website www.gipcl.com.The last date of submission of bid is XX/XX/XXXX up to XX:XX hrs.

Concern Incharge

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CHAPTER NO- 06

PROCEDURE FOR CONTRACT

I. The tender shall be prepared as per Master Tender (Sr No.24) considering all aspects like instruction to bidders, detailed Scope of Work, Pre-qualification Criteria (In case of open tender), General Conditions of Contract, Special Conditions of Contract, Schedule of Quantities and Rates for all items. Time schedule, Rules & regulation of Company, all commercial terms, arbitration clause, Legal jurisdiction of Contract etc by concern engineering/contract department.

II. Tender terms & conditions for open/press tender shall be as per master tender attached at sr.no.24. if any deviation vis-a-vis master tender terms and conditions, approval shall be obtained in administrative note.

The tender document of service contract, once prepared shall be vetted by the concern user department & finance. If required it will be vetted by HR&A and legal department also. The tender, once approved shall be released to the approved shortlisted/selected vendors or through open/press tender based on administrative approval for particular tender.

Normally, the minimum time to be allowed for submission of bids should be three weeks (21 days) from the date of publication of the tender in case of open/press tender. In the event of specific case of open/press tender, where it is required to give tender submission time less than three weeks, approval of competent authority as per DOP shall be obtained mentioning the reasons/justifications required to do so along with administrative approval note.

III. All the open tenders shall be floated through E-Tendering system. In open tenders, technical Bids along with Prequalification criteria shall required to submit in physical form in sealed cover at least minimum two hours prior to closing of online tender and Price bid shall be submitted through online e-portal only on or before due date. Price bids submitted in physical form shall not be accepted. In the event of late receipt of physical technical bids, same shall be accepted only after approval of Head of Management (HOM). Offers so received shall be routed through inward register (maintained by HR&A) only and inward number shall be written with inward stamp on the envelope. This inward number shall be mentioned on the physical hard copy of the bids of the vendor after opening the tender. Tender shall be opened in presence of representative of Finance only.

IV. Tenders shall be floated based on Schedule of Rates (SoR)/without Schedule of Rates(SOR) prepared by the vertical heads of concerned department in consultation with finance & HR wherever necessary.

V. All open tender shall have clause for submission of Earnest money deposited (EMD) and Tender fee and it shall be as per chapter no.08

VI. As far as possible, it should be attempted that maximum no of bidders shall participate in tender however minimum three eligible bids are required to open the tender. If on due date, for particular tender, response is not satisfactory, due date may be extended after approval of Head of Management (HOM). Even after extension of due date and response is poor, further course of action of either re-extension or opening of technical bids or re-tendering may be appropriately decided by HOM In case of re-tendering, approval of CA may be obtained as per DOP.

VII. Technical Bid and Price Bid shall be opened by executives of concern department and finance department.

VIII. Techno-commercial bids in open tender submitted by bidders shall be evaluated properly along with tender conditions by concern dept/user dept. Any required documents as per tender conditions, if not submitted, then bidder shall be asked to submit the same with defined time frame and financial criteria shall be verified by finance department.

IX. Earnest money and tender fee deposited by all the Bidders shall be submitted to finance department and all other details shall be as per chapter no.08

X. Detail comparative statement shall be prepared based on receipt of documents from all bidders as per tender prequalification criteria and other terms and conditions. Reasons of disqualification of bidder shall be recorded.

XI. Price bid of qualified bidders shall be opened after technical and financial concurrence. In case of two part bids, physical price bids submitted by bidders, sealed price bids shall be kept in custody of finance department after opening of technical bids.

XII. The E-Reverse Auction of qualified bidders for Estimated Value of Rs. 25 lakh and above, shall be conducted after opening the price bid. Prior intimation for e- reverse Auction shall be communicated through email/phone to the qualified Bidders. Refer chapter no.13 for \\e reverse Auction.

XIII. There should be no post tender negotiations with L1, except in certain exceptional situations" if found necessary, negotiation shall be carried out with L1 Bidder only as approved by Competent Authority as per DOP. Negotiation should be recommended if required, recording valid logical reasons justifying the negotiation. The negotiating committee may identify items / issues on which the negotiation is desirable. To achieve desired results, the estimates have to be realistic and the Committee should have a proper perspective of market prices and conditions. The negotiation has to be documented so that, there is a clear audit trail recorded in the file.

If the response to result of negotiation/E-reverse Auction is not satisfactory the committee shall carefully consider and propose retendering. The reasons for retendering shall be recorded.

In case there is a tie for the lowest offers received for the work and none of L1 bidder agreeing to submit their revised offer as per tender condition, the contract may be awarded to bidder having higher average net worth (paid capitals and reserves) of last three financial years as submitted.

XIV. Final approval note to place order on L1 bidder emerged after E-Reverse auction/negotiation shall be prepared and shall be submitted along with templates and all required documents to CA as per DOP for approval. (Refer chapter no 2 for approval & sanction.)

XV. LOI/Work order shall be prepared based on final negotiated prices and terms, conditions as per tender. Same shall be issued to L1 bidder after receipt of approval of proposal from CA as per DOP.

XVI. After release of contract/WO, all subsequent communication with the contractor shall be carried out by the concern user/operating department including compliance of statutory documents. Follow-up with contractor for execution of job, relevant record keeping on the execution of the contract, statutory legal record, verification of job done & certification of invoices, forwarding the same to Finance for release of due payment to the contractor shall be done by the concern user/operating department.

XVII. Final invoice of contract mainly ARC/AMC/long duration contracts where manpower is involved shall be routed through HR&A for verification of statutory labor compliances and clearance. After such clearance Finance Dept. will release final payment.

XVIII. In case of failure of any contractor to meet the requirement even after putting all efforts, after issuing notices to contractors, concern user/operating department shall put up note to terminate the contract and may propose for next competent contractor/ re-tendering and accord approval from competent authority as per DOP. Proposal for termination of contract should indicate reasons for the same.

BILLING & PAYMENT

1. All running account bills and final bills shall be prepared and submitted by the contractor to concern user/operating department.
2. Running / Final bills should be submitted by the contractor based on the joint measurements/verification/certification taken (i.e., contractor / representative and the concern dept representative).
3. User department along with Payment voucher (Annexure-IV, Sr No.25) will send all statutory documents of previous month like PF challan, wage register, ECR statement etc. to HR & A department as per the check list designed by HR&A department. HR&A department will verify the documents and will return covering note duly certified to user department. User department will enclose the HR & A certified covering note along with Invoice and will submit to Finance department for further process. This practice would be applicable for regular AMC/ARC contracts only wherein manpower is deputed to site for full contract period and not for other service contract/Job Contract where contractor's manpower deployment is as per requirement for specific job and not on regular basis.

4. The SOQR (Schedule of Quantities and Rates) item number and nomenclature shall be written correctly in the Running and Final bills.
5. After receipt of original bills, concern department after verification along with all the required documents including HR&A compliance certificate and after generating service entry in SAP with approval/sign of concern HOD/HOM, will forward bills to finance department to release payment as per the terms of Work Order through RTGS/NEFT/Cheque.
6. 100% of monthly RA bill along with 100% taxes shall be released as per agreed terms of payment mentioned in work order and against the work executed duly certified by HOD/HOM of concern user department. Income Tax (IT) will be deducted at source from monthly RA bills as per the rules in force.
7. Detail record shall be maintained by concern engineer in charge for the extent of work done and work certified in the running bills against work order.
8. GST shall be paid along with bills after fulfilment of following terms.
   - Submission of copy of registration certificate issued by GST Authority (to be furnished only once).
   - Citing the GST Registration no, HSN Code and the date of issue of registration certificate on invoices.
   - Claim of GST amount with percentage (%) separately shown on the invoices.
   - Bidder shall inform the GIPCL in the event of its registration certificate is cancelled or discontinued for whatsoever reason.
9. At the time of submission of the first monthly RA Bill, the Contractor shall submit a certificate from Engineer-in-charge regarding availability of tools & tackles, equipments, vehicles etc at site.
10. While making running account payment, the following deductions shall be made:

    i. Cost of materials issued, if any, by the Company and to the extent consumed in the work.
    ii. Security deposit recoverable if any.
    iii. Advance on materials / work progress advance payments, if any.
    iv. LD/Penalty for delayed delivery, penalty for delayed execution of work, recovery of charges for the work done by other contractor due to delay or any other reason, if applicable
    v. Any other dues recoverable by the Company from the contractor under the contract.

11. The Contractor shall submit his Final Bill within a period of Four months of the expiration or earlier termination of the contract or any extensions that may be granted by GIPCL to the Contractor. GIPCL shall not entertain any bill for any work item after expiration of period of Four months from date of completion of contracts/works and Services.

    Before clearing the final bill, the following aspects are to be ensured by the Engineer-in-charge:

i. Reconciliation of materials issued, if any.
ii. Completion Certificate from Engineer-in-change.
iii. Security deposit / performance guarantee towards defects liability etc., if applicable.
iv. If there is any delay in completion, approval of the competent authority for extension of time with or without liquidated damages/penalty.
v. Insurance and other statutory requirements have been met by the agency and if not, appropriate deduction against the same is made.
vi. Whether all the necessary tests have been conducted as per the stipulations in the contract and deductions, if any, are required to be made for non-compliance.

12. The Contractor shall include all his claims in the Final Bill submitted by him and accordingly the final bill submitted by the Contractor shall be deemed to be inclusive of all and whatsoever the claims that the Contractor may have from GIPCL. The Contractor shall not be entitled to claim any amounts which are not mentioned in the Final Bill and the Contractor shall be deemed to have waived any claims not mentioned in the Final Bill and shall not be entitled to recover the same from GIPCL subsequent to the submission of the Final Bill on any account and GIPCL shall stand absolved of all its liabilities in respect of any such claims not raised by the Contractor in his Final Bill.

13. SAP Work Order Contract Value and Actual Approved Contract Value:

Executed contract value should not exceed the approved contract value. The executed contract value being monitored by user department and finance department is already mentioned in standard bill passing format. However, to freeze the contract value in SAP PO, overall approved limit being placed in the SAP PO for better controls and checks and balances through system itself.

The overall limit placed in SAP should be verified by Finance department. All PO generated in SAP should have attached scanned soft copy of LOI, Work Order and approved note.

All the Purchase Orders need to be closed in the system after releasing payment of final invoice and completion of all formalities duly approved by Finance Department. The responsibility to close the PO in the system lies with the User Department.

The extension if any given with the revision in the existing value then SAP PO should be updated with the new line item/change in quantity/time extension as per approval accorded in order to have better control and checks without creating new PO.

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Part-A. Summary of Environment Exp. as per New Environment Norms (Order and Execution details)

Cut-off date 31.12.2023

Sr. No.	Vendor Name	Nature of Work	Order Value with Tax	Order Date	Execution wit With Tax	% Completion	Order Status	Non Capital	To be executed	SLPP 1 Execution Value with Tax	SLPP 2 Execution Value with Tax	Reference No.
1	Yokogawa India Limited, Vadodara (MS)	Online Continuous Emission Monitoring System	3,75,274	27-01-2016	3,75,274	100%	Closed	-	-	-	3,75,274	
2	Helios Infraprs Private Limited	ESP Field Refurbishment	4,41,49,999	19-07-2016	4,07,71,141	92%	Closed	-	-	72,24,316	3,30,96,965	
3	Uppli Balaji Engineering & Construction Company Pvt. Ltd.	ESP Casing Refurbishment	1,38,75,346	03-08-2017	49,25,982	43%	Closed	-	-	23,61,374	27,61,580	
4	Helios Infraprs Private Limited	ESP Field Refurbishment	3,70,79,896	28-09-2017	3,05,17,873	95%	Closed	-	-	1,78,69,567	1,76,48,303	
5	Helios Infraprs Private Limited	ESP Casing Refurbishment	8,70,26,740	15-11-2018	6,15,92,654	92%	Closed	-	-	1,59,75,185	4,56,17,468	BR 4517 03.10.2018
6	Unitech Technocrats Pvt. Ltd., Vadodara(Ind)	Remote Calibration System Of Online Continuous Emission Monitoring System	2,10,69,361	07-08-2019	2,10,50,090	100%	Closed	-	-	97,32,304	1,13,17,886	
7	Associated Engineers, Vallabha (Civil)	Consultancy For New Limestone Shed	4,75,260	27-02-2020	4,75,260	100%	Closed	-	-	-	4,75,260	
8	Helios Infraprs Private Limited	ESP Field Refurbishment	7,13,900	13-03-2020	7,13,900	100%	Closed	-	-	-	7,17,900	
9	Unitech Engineers	ESP Field Refurbishment	9,55,06,193	25-04-2020	5,40,92,477	57%	Closed	-	-	5,40,92,477	-	BR 4672 13.02.2020
10	Power Care Engineers, Vithal Nagar (Engg)	Supply Of 6.6Kv, 1100 Nm3/Hr Air Compressor Motor	6,51,77,028	25-06-2020	6,24,80,432	96%	Closed	-	-	-	8,71,60,432	BR 4672 13.02.2020
11	HELIOS INFRAPRO PRIVATE LTD	Spares Supply	26,80,431	23-07-2020	26,80,431	100%	Closed	-	-	26,80,431	-	
12	M. K. Soil Testing Laboratory, Ahmedabad (Civil)	Soil Investigation For New Limestone Shed	19,60,747	28-09-2020	19,60,747	100%	Closed	-	-	19,60,747	-	
13	Rishikesh Structural Solutions Llp,Vadodara (Civil)	Structure And Sheeting For New Limestone Shed	53,218	28-09-2020	53,218	100%	Closed	-	-	-	53,218	
14	MECHWELL	Work order for Carrying out Computational Fluid Dynamics (CFD) analysis for Boiler No Five gas path.	5,83,45,373	15-03-2021	5,83,45,373	100%	Closed	-	-	-	5,83,45,373	BR 6760 30.01.2021
15	Meena Construction, New Nanak (Civil)	Civil & Electrical For New Limestone Shed	9,84,356	30-03-2021	9,84,356	100%	Closed	-	-	9,84,356	-	
16	D. Sundar	Hiring special services/consultancy of Ex-BHEL Expert including but not limited to ISO Test "Gas Distribution Test" at GIPCL SLPP.	3,13,03,329	17-03-2021	3,02,52,929	91%	Closed	-	-	-	3,02,52,929	BR 4760 30.01.2021
17	MECHWELL	Work order for to carrying out Gas Distribution Test (GD Test) for Boiler 2 for flue gas path	91,410	29-04-2021	48,610	75%	Closed	-	-	48,610	-	
18	Uppli Balaji Engineering & Construction Company Pvt. Ltd	ESP Casing Refurbishment	3,59,500	04-06-2021	3,30,409	92%	Closed	-	-	3,30,409	-	
19	Helios Infraprs Private Limited	ESP Field Refurbishment	2,89,24,002	16-05-2022	2,38,63,269	82%	Running Order	23,71,887	30,94,746	1,08,89,157	1,27,74,233	
20	D. Sundar	Hiring special services/ consultancy (Ex BHEL) to execute for compliance of the revised emission standards & improvement in ESP Performance	23,31,10,000	13-05-2022	21,30,29,055	91%	Running Order	48,58,579	1,92,30,363	16,09,60,799	5,20,62,256	BR 4825 20.05.2022
21	AS G Engineering	Hiring chorry picker (To carry out FGD leakage attending work in ESP	5,24,500	15-06-2022	3,71,290	54%	Running Order	-	1,53,210	-	3,71,290	
22	United Engineers	Work order for application corrosion protection coating on ESP casing and flue gas duct of ESP in Units 3 & 4	6,37,837	15-06-2022	6,37,837	100%	Closed	-	-	6,37,837	-	
23	SSI Stainless	Work order for application corrosion protection coating on ESP casing and flue gas duct of ESP in Units 3 & 4	12,27,200	08-07-2022	12,27,200	100%	Closed	-	-	12,27,200	-	
24	HELIOS INFRAPRO PRIVATE LTD	Spares Supply	1,39,600	23-06-2022	1,39,600	98%	Closed	-	-	-	1,39,600	
25	UNICON ENGINEERS	Spares Supply	10,35,500	23-01-2023	10,35,500	100%	Closed	-	-	10,35,500	-	
26	SHRI HARIKRISHNA ENGINEERING WORKS	Spares Supply	9,33,533	23-06-2022	9,33,533	100%	Closed	-	-	9,33,533	-	
27	HELIOS INFRAPRO	Spares Supply	2,23,529	11-06-2022	2,23,529	100%	Closed	-	-	2,23,529	-	
28	SHRI HARIKRISHNA ENGINEERING WORKS	Spares Supply	3,47,263	26-10-2022	3,47,263	100%	Closed	-	-	3,47,263	-	
29	SHRI HARIKRISHNA ENGINEERING WORKS	Spares Supply	14,01,710	26-10-2022	14,01,710	100%	Closed	-	-	14,01,710	-	
30	S. Logistics	Hiring chorry picker (To carry out FGD leakage attending work in ESP	1,08,716	27-10-2022	1,08,716	100%	Closed	-	-	1,08,716	-	
31	CAPITAL NOTE DTD 31.03.2023 (UM3_2A,2B)	MECHANICAL SUPPLY against MRV issued from stores (Against Capital AUC code)	12,95,840	23-01-2023	12,97,875	100%	Closed	-	-	7,54,255	5,43,620	
32	CAPITAL NOTE DTD 28.07.2023 (UM3_3A & 4A)	MECHANICAL SUPPLY against MRV issued from stores (Against Capital AUC code)	6,77,668	21-09-2023	6,77,668	100%	Closed	-	-	-	6,77,668	
33	CAPITAL NOTE DTD 29.09.2023 (UM3_3A,3A,5A)	MECHANICAL SUPPLY against MRV issued from stores (Against Capital AUC code)	11,24,694	28-02-2024	11,24,694	100%	Closed	-	-	11,24,694	-	
34	FGD MRVs of FY-2018-19	Items through MRVs	14,31,495	29-09-2023	14,31,495	100%	Closed	-	-	14,31,495	-	
35	FGD MRVs of FY-2019-20	Items through MRVs	80,76,300	FY-2019-20	80,76,300	100%	Closed	-	-	34,00,294	24,70,006	
36	FGD MRVs of FY-2020-21	Items through MRVs	1,25,84,115	FY-2019-20	1,25,84,115	100%	Closed	-	-	75,17,022	50,67,094	
37	FGD MRVs of FY-2021-22	Items through MRVs	1,96,71,861	FY-2020-21	1,96,71,861	100%	Closed	-	-	1,07,17,948	89,05,913	
38	FGD MRVs of FY-2022-23	Items through MRVs	1,40,65,866	FY-2021-22	1,40,65,866	100%	Closed	-	-	38,38,707	1,02,29,840	
39	FGD MRVs of FY-2023-24	Items through MRVs	3,00,71,826	FY-2022-23	3,00,71,826	100%	Closed	-	-	1,74,09,407	1,26,84,419	
40		Total Amount	2,24,84,166	FY-2023-24	2,24,84,166	100%	Closed	-	-	1,17,71,184	1,08,72,983	
			77,95,77,698		70,64,35,068				4,24,82,321	35,09,85,447	35,54,49,622	

Part-B. Work Order to be placed for Environment Exp.

Vendor Name	Nature of Work	Order Value with Tax
Work Order to be placed	ESP Internal Refurbishment / Replacement/ Ferrous Work (Supply & Execution)	1,40,00,000
Work Order to be placed	ESP Casing and associated system Refurbishment (Execution Only)	1,80,32,000
Work Order to be placed	ESP Casing and associated system Refurbishment (Supply Only)	3,11,60,600
Work Order to be placed	ESP Auxiliary System refurbishment including casing coating / upgradation of casing material (Supply & Execution)	1,40,00,000
	Total Amount	9,82,32,600

Particulars	Amount
Executed Order Value	70,64,35,068
Order to be executed	4,24,82,321
Order to be placed	9,82,32,600
Total Projected ESP Expenditure	84,71,49,989

CA INDIA
MAHESH P. PATEL
CHARTERED ACCOUNTANTS

128, Ambedkar Shopping Center,
Mann Darwaja Ring Road, Surat
M. +91 93747 21989
e-mail : mppatel8@yahoo.co.in

TO WHOMSOEVER IT MAY CONCERN

We certify that the details of expenditure shown in the ANNEXURE have been incurred for the upgradation of the Electrostatic Precipitator (ESP) in SLPP Units: 1 to 4 and Limestone Storage Shed required for compliance with Environment (Protection) Amendment Rules, 2015. The data verified has been made available through the Company's ERP system i.e. maintained in SAP platform. The Purchase Orders issued for ESP, Limestone Shed and related activities are made available for verification and it is issued mainly to comply with the revised environment norms. This certificate is issued exclusively for submission to GUJARAT URJA VIKAS NIGAM LTD. (GUVNL) & GUJARAT ELECTRICITY REGULATORY COMMISSION (GERC).

PLACE: VADODARA

DATE: 27/03/2024

MAHESH P. PATEL * CHARTERED ACCOUNTANTS * M.NO. 31652

FOR MAHESH P. PATEL
CHARTERED ACCOUNTANTS

MAHESH P. PATEL
PROPRIETOR.

UDIN - 24031652BKAHYV6493

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MAHESH P. PATEL CHARTERED ACCOUNTANTS M.NO. 31652

ANNEXURE

GUJARAT INDUSTRIES POWER COMPANY LIMITED

Part-A. Summary of Environment Exp. as per New Environment Norms (Order and Execution details) Cut-off date 31.12.2023

Sr. No.	Vendor Name	Nature of Work	Order Value with Tax	Order Date	Execution val. With Tax	% Completion	Order Status	SLPP-1 Execution Value with Tax	SLPP-2 Execution Value with Tax
1	Yokogawa India Limited, Vadodara (IMD)	Online Continuous Emission Monitoring System	3,75,274	27-01-2016	3,75,274	100%	Closed	-	3,75,274
2	Helios Infrapro Private Limited	ESP Field Refurbishment	4,41,49,399	09-07-2016	4,03,21,181	91%	Closed	72,24,316	3,30,96,865
3	Uppli Balaji Engineering & Construction Company Pvt. Ltd	ESP Casing Refurbishment	1,18,75,146	02-08-2017	49,25,962	41%	Closed	21,61,374	27,64,588
4	Helios Infrapro Private Limited	ESP Field Refurbishment	3,75,79,696	26-09-2017	3,55,12,871	95%	Closed	1,79,69,567	1,75,43,303
5	Helios Infrapro Private Limited	ESP Field Refurbishment	6,70,26,740	15-11-2018	6,15,92,654	92%	Closed	1,59,75,185	4,56,17,468
6	Helios Infrapro Private Limited	ESP Casing Refurbishment	2,16,69,391	02-08-2019	2,16,60,190	100%	Closed	97,32,304	1,19,27,886
7	Unitech Technocrats Pvt. Ltd., Vadodara(Imd)	Remote Calibration System Of Online Continuous Emission Monitoring System	4,25,260	27-02-2020	4,25,260	100%	Closed	-	4,25,260
8	Associated Engineers, Vadodara (Civil)	Consultancy For New Limestone Shed	7,13,900	13-03-2020	7,13,900	100%	Closed	-	7,13,900
9	Helios Infrapro Private Limited	ESP Field Refurbishment	5,55,09,793	25-04-2020	5,40,92,477	97%	Closed	5,40,92,477	-
10	Unicon Engineers	ESP Field Refurbishment	6,52,77,028	25-04-2020	6,24,60,432	96%	Closed	-	6,24,60,432
11	Power Care Engineers, Udhna, Surat (Emd)	Supply Of 6.6Kv,310Kw Ahs Compressor Motor	26,80,411	24-07-2020	26,80,411	100%	Closed	26,80,411	-
12	HELIOS INFRAPRO PRIVA D	Spares Supply	19,60,747	23-10-2020	19,60,747	100%	Closed	19,60,747	-
13	M. K. Soil Testing Laboratory, Ahmedabad (Civil)	Soil Investigation For New Limestone Shed	53,218	28-10-2020	53,218	100%	Closed	-	53,218
14	Rishikesh Structural Solutions Llp,Vadodara (Civil)	Structure And Sheeting For New Limestone Shed	5,81,45,373	15-03-2021	5,81,45,373	100%	Closed	-	5,81,45,373
15	MECHWELL	Work order for Carrying out Computational Fluid Dynamics (CFD) analysis for Boiler for Flue gas path.	9,84,356	03-03-2021	9,84,356	100%	Closed	9,84,356	-
16	Meena Construction, Nani Naroli (Civil)	Civil & Electrical For New Limestone Shed	1,13,03,320	17-03-2021	1,02,52,929	91%	Closed	-	1,02,52,929
17	G . Sundar	Hiring special services/consultancy of Ex-BHEL Expert including but not limited to GD Test "Gas Distribution Test" at GIPCL-SLPP	91,450	29-04-2021	68,610	75%	Closed	68,610	-
18	MECHWELL	Work order for to carrying out Gas Distribution Test (GD Test) for Boiler 2 for flue gas path.	3,59,900	04-06-2021	3,30,400	92%	Closed	3,30,400	-
19	Uppli Balaji Engineering & Construction Company Pvt. Ltd	ESP Casing Refurbishment	2,89,34,002	16-05-2022	2,36,63,369	82%	Running Order	1,08,89,137	1,27,74,233
20	Helios Infrapro Private Limited	ESP Field Refurbishment	25,51,18,000	13-06-2022	21,10,29,055	83%	Running Order	16,09,66,799	5,00,62,256

MAHESH P. PATEL
CHARTERED ACCOUNTANTS
M.NO.031652

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Sr. No.	Vendor Name	Nature of Work	Order Value with Tax	Order Date	Execution val With Tax	% Completion	Order Status	SLPP-1 Execution Value with Tax	SLPP-2 Execution Value with Tax
21	G . Sundar	Hiring special services/ consultancy (Ex BHEL) to execute for compliance of the revised emission standards & improvement in ESP Performance	3,24,500	15-06-2022	1,71,290	53%	Running Order		1,71,290
22	M. G. Engineering	Hiring cherry picker (to carry out FGD leakage attending work in ESP.	6,37,837	15-06-2022	6,37,837	100%	Closed	6,37,837	
23	United Engineers	Work order for application corrosion protection coating on ESP casing and flue gas duct of ESP in Unit#1 to 4.	12,27,200	08-07-2022	12,27,200	100%	Closed	12,27,200	
24	SAI Stanvac	Work order for application corrosion protection coating on ESP casing and flue gas duct of ESP in Unit#1 to 4.	1,29,800	23-08-2022	1,26,880	98%	Closed		1,26,880
25	HELIOS INFRAPRO PRIVA	Spares Supply	10,15,580	22-03-2023	10,15,580	100%	Closed	10,15,580	-
26	UNICON ENGINEERS	Spares Supply	9,33,541	21-08-2023	9,33,541	100%	Closed	9,33,541	-
27	SHRI HARISIDDHI ENGINEERING WORKS	Spares Supply	2,23,126	11-09-2023	2,23,126	100%	Closed	2,23,126	-
28	HELIOS INFRAPRO	Spares Supply	3,47,263	26-10-2023	3,47,263	100%	Closed	3,47,263	-
29	SHRI HARISIDDHI ENGINEERING WORKS	Spares Supply	14,01,710	26-10-2023	14,01,710	100%	Closed	14,01,710	-
30	SHRI HARISIDDHI ENGINEERING WORKS	Spares Supply	1,08,716	27-10-2023	1,08,716	100%	Closed	1,08,716	-
31	S. Logistics	Hiring cherry picker (to carry out FGD leakage attending work in ESP.	12,95,640	23-02-2024	12,92,875	100%	Closed	7,51,255	5,41,620
32	CAPITAL NOTE DTD 21.09.2023_(U#3_2A,2B)	MECHANICAL SUPPLY against MIV issued from stores (Against Capital AUC code)	6,77,668	21-09-2023	6,77,668	100%	Closed		6,77,668
33	CAPITAL NOTE DTD 28.02.2024 (U#1_1A & 4A)	MECHANICAL SUPPLY against MIV issued from stores (Against Capital AUC code)	11,24,694	28-02-2024	11,24,694	100%	Closed	11,24,694	-
34	CAPITAL NOTE DTD 29.09.2023_(U#2_1A,2A,5A)	MECHANICAL SUPPLY against MIV issued from stores (Against Capital AUC code)	14,31,985	29-09-2023	14,31,985	100%	Closed	14,31,985	
35	FGD (FLUE GAS DUCT) MIVs (MATERIAL INDENT VOUCHERS) of FY-2018-19	Items through MIVs	80,76,380	FY-2018-19	80,76,380	100%	Closed	56,00,294	24,76,086
36	FGD MIVs of FY-2019-20	Items through MIVs	1,25,84,115	FY-2019-20	1,25,84,115	100%	Closed	75,17,022	50,67,094
37	FGD MIVs of FY-2020-21	Items through MIVs	1,66,23,861	FY-2020-21	1,66,23,861	100%	Closed	1,07,17,944	59,05,918
38	FGD MIVs of FY-2021-22	Items through MIVs	1,40,65,666	FY-2021-22	1,40,65,666	100%	Closed	38,36,707	1,02,28,960
39	FGD MIVs of FY-2022-23	Items through MIVs	3,04,71,826	FY-2022-23	3,04,71,826	100%	Closed	1,74,03,407	1,30,68,419
40	FGD MIVs of FY-2023-24	Items through MIVs	2,26,44,186	FY-2023-24	2,26,44,186	100%	Closed	1,17,71,484	1,08,72,703
		Total Amount	**77,95,77,698**		**70,64,35,068**			**35,09,85,447**	**35,54,49,622**

MAHESH P. PATEL * CHARTERED ACCOUNTANTS * M.NO. 31652

MAHESH P. PATEL
CHARTERED ACCOUNTANTS
M.31652

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GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)
At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 112
Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261080 E-mail : genslpp@gipcl.com

REF: GIPCL/SLPP/ESP

Date: 30/03/2024

DECLARATION

I, N. K Singh, Chief General Manager (RE & SLPP), hereby declare that the underneath listed materials and services has been used exclusively for upgradation of ESP and allied systems in PHASE-I & II (Unit No. 1 to 4) in order to meet the revised emission norms as per Environment (Protection) Amendment Rules, 2015 and capitalized through Material Indent Voucher from Inventory.

Fin. Year	SLPP-1	SLPP-2	Total
2018-19	56,00,294	24,76,086	80,76,380
2019-20	75,17,022	50,67,094	1,25,84,116
2020-21	1,07,17,944	59,05,918	1,66,23,862
2021-22	38,36,707	1,02,28,960	1,40,65,667
2022-23	1,74,03,407	1,30,68,419	3,04,71,826
2023-24*	1,43,28,163	1,15,51,371	2,58,79,534
TOTAL	**5,94,03,537**	**4,82,97,848**	**10,77,01,385**

*up to 31/12/2023

30/3/24

FOR GUJARAT INDUSTRIES POWER COMPANY LIMITED

(N. K. SINGH)
CGM (RE & SLPP)

GUJARAT INDUSTRIES POWER CO. LTD. SLPP
AT & PO. NANI NAROLI, TA. MANGROL DIST. SURAT PIN-394110

GUJARAT INDUSTRIES POWER COMPANY LTD.

Regd. Office: P.O. Ranoli – 391 350, Dist. Vadodara, Gujarat – INDIA
CIN: L99999GJ1985PLC007868

EXTRACT OF CERTIFIED TRUE COPY OF RESOLUTION PASSED BY THE BOARD OF DIRECTORS AT ITS 294TH MEETING HELD ON MONDAY, THE 01ST OCTOBER, 2018.

4517. APPROVAL FOR AWARD OF WORK FOR SUPPLY AND EXECUTION OF ESP FIELDS REPLACEMENT, DUMMY FIELD REVIVAL ALONG WITH OVERHAULING FOR COMPLIANCE OF NEW ENVIRONMENTAL NORMS.

"RESOLVED THAT approval of the Board be and is hereby accorded to award of work contract to Helios Infra Pro Private Limited, Kolkata, for Supply and Execution of ESP Field replacement, dummy field revival along with overhauling for compliance of new environmental norms at a total cost of Rs. 5,68,02,370.00 [Five Crore Sixty-Eight Lakh Two Thousand Three Hundred Seventy Rupees only] exclusive of 18% GST. The total contract value with 18% GST amounts to Rs. **6,70,26,796.60** [Six Crore Seventy Lakh Twenty-Six Thousand Seven Hundred Ninety-Six Rupees and Sixty paisa only]."

"FURTHER RESOLVED THAT the Managing Director be and is hereby authorized to do all the things and deeds required to give effect to the above resolution, including but not limited to issue Letter of Intent / Work Orders / Contracts and also to nominate/authorize Sr. Officials of the Company (GIPCL), from time to time, to do any or all acts, things and deeds, which he/she is authorized to do."

CERTIFIED TRUE COPY
FOR GUJARAT INDUSTRIES POWER COMPANY LIMITED

Shalin
Mukesh Patel

DATE : 28/03/2024
PLACE: VADODARA

CS SHALIN PATEL
COMPANY SECRETARY & COMPLIANCE OFFICER
MEM. NO. ACS 22687

ITEM No : 06

GUJARAT INDUSTRIES POWER COMPANY LTD
(SURAT LIGNITE POWER PLANT)

Note to the Board of Directors:
(For The meeting to be held on 01/10/2018)

Subject: Approval for award of work for Supply and Execution of ESP Field replacement, dummy field revival along with overhauling for compliance of new environmental norms.

The open tender was published through N-Procure (gipcl.nprocure.com) along with provision of e-reverse auction for:-

- Supply and Execution of Replacement of internals of nine fields of Unit-1 to Unit-4.
- Supply and Execution of Dummy Field Revival of Unit-4
- Overhauling /servicing of all remaining 43 fields of Unit - 1 to Unit - 4

The open tender was published on N-Procure and GIPCL website on 23.04.2018 and last date of submission was on 15.05.2018.Tender Notice was published on 23.04.2018 for inviting bids in Times of India (for Ahmedabad, Nagpur, Chennai & Kolkata editions) & Sandesh (for Ahmedabad, Surat & Vadodara editions).

Apart from publishing of notice through news paper and on website, intimations were given to prospective and known bidders through e-mail also i.e. M/s. General Electricals (GE), Vadodara/Kolkata, M/s. Bharat Heavy Electricals Limited (BHEL), Vadodara/ Ranipet, M/s. Helios infra pro PVT. LTD, Kolkata, M/s. Ideal Industries Ltd., Trichy, M/s. Enmas, Chennai, M/s. Unicon, Coimbatore.
As specified in the tender that "All the interested bidders should study entire Tender documents carefully & may carry out Plant visit before quoting & submitting their online Bid to understand scope of work and its importance", following interested bidders visited GIPCL-SLPP site to understand detail scope of work and other tender related information:

Sr. No.	Vendor	Date
1	M/s. Helios infra pro PVT. LTD, Kolkata (HIPL)	30.04.2018
2	M/s. General Electricals (GE), Vadodara/Kolkata	08.05.2018
3	M/s. Soil and Enviro Industries PVT. LTD, Kolkata (SEIPL)	15-17.05.2018

Shalin Mukesh Patel

Based on the mail request received from prospective bidders and to have more competition, the last date for bid submission was **extended up to 21.05.2018 initially and later on it was extended up to 28.05.2018**. All the prospective bidders were informed regarding extension of bid submission through mail on 15.05.2018 & 21.05.2018 respectively.

Techno-Commercial bids were opened on 29.05.2018. Technical Bid along with EMD and tender fee of following bidders were received except EMD from M/s. BHEL. M/s. BHEL being PSU had requested to waive off EMD prior to submission of bid i.e. on 25.05.2018. GIPCL had allowed M/s. BHEL for the same being PSU and OEM of ESP.

1. M/s. Helios infra pro PVT. LTD, Kolkata (HIPL)	3. M/s. Soil and Enviro Industries PVT. LTD, Kolkata (SEIPL)
2. M/s. General Electricals (GE), Vadodara/Kolkata	4.M/s. Bharat Heavy Electricals Limited (BHEL), Vadodara/ Ranipet

Evaluation of Pre-Qualification bids/Techno-Commercial Bid:

Bids submitted by all above Four bidders were technically scrutinized and after detail assessment and verification of documents, following Two vendors were found technically qualified (Given in table-A below), where as bids of M/s. GE & M/s. SEIPL were disqualified (for reason mention in table-B below).

Table A:

Sr. No.	Qualified Vendor Detail
1	M/s. BHEL, Vadodara/ Ranipet
2	M/s. Helios Infra Pro PVT. LTD, Kolkata

Table B:

Sr. No.	Vendor Detail	Major Reason
1	M/s. G.E., Vadodar	Not accepted terms & condition of the bid. Also changed the language of annexure Q2 **(Declaration for Contractual Disputes/ Litigations)**
2	**M/s. Soil & Enviro Industries Pvt. Ltd , Kolkata**	Do not meet eligibility criteria of tender specification of executing similar nature of work contract with minimum value of WO between the years 2015-2018.

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Evaluation of Price Bid:

Online Price bid from n-procure website of two (2) qualified bidders namely M/s. BHEL & M/s. Helios Infra Pro PVT LTD. were opened on 06.07.2018 at 09:30 hrs and relative position of each bidder along with quoted percentage & quoted value before tax is as mentioned below:

The Estimated value amounts to Rs. **6,43,40,425.00** (without service charge & GST-18%).

Section	Estimation	M/s. BHEL		M/s. Helios	
		Quote In percentage above or below estimation & **Quoted value**			
Supply	4,05,28,393	- 9.5 %	**3,66,78.195.67**	+ 19.0 %	**4,82,28,787.67**
Execution	2,38,12,032	+ 9.5 %	**2,60,74,175.04**	+ 4.92 %	**2,49,83,583.97**
Total	**6,43,40,425**	**6,27,52,370.71 (L1)**		**7,32,12,371.64 (L2)**	

E-Reverse auction:

In line with Tender condition, post opening of price bid, e-reverse auction was carried out on 06.07.2018 at 11:00 hrs between two qualified bidders and summary of the same is as given below:

- E-reverse auction floated on website "https://e-auction.nprocure.com" with Auction ID :S55-981.
- E-reverse auction began with opening price Rs.6,27,52,370.00/-, Decrement value : Rs 50,000/-
- Total 79 decrement received in multiplication of Rs.50, 000/-, e-reverse auction duration: 05:45 hrs.
- E-reverse auction completed with final value of Rs.5,68,02,370.00/-.

Subsequently, mail was received from representative of M/s. BHEL, regarding e-reverse auction stating that "They (M/s BHEL representative) had clicked for one more decrement reduction in price when there was 10 sec left. However, the message came it is loading, please wait as can be seen in the screen shot .But then it didn't load and time got over."

Based on M/s. BHEL's communication e-reverse auction report was opened and found that last decrement logged at 16:39.57 hrs of 0.5 Lakh by M/s. HIPL, Kolkata and final quoted value was Rs.5,68,02,370.00/- (about 568.02 Lakhs).

Accordingly, M/s. BHEL was informed that e-reverse auction was conducted online on n-procure's e-reverse auction website, started at 11:00 hrs and completed at 16:45 hrs (total 5 hrs 45 minutes) during which total 79 bids were done by the bidders and the process of on line e-reverse auction is duly completed in transparent bidding process.

Shalin Mukesh Patel 

Considering the final quoted value after e-reverse auction, M/s. Helios emerged as lowest bidder for Supply and Execution of ESP fields replacement, dummy field revival along with overhauling works which amounts to Rs. **5,68,02,370.00** without GST, which is **lower** with respect to our estimation by **11.64%**. The total contract value with 18% GST amounts to Rs. **6,70,26,796.60** [Six Crore Seventy Lakh Twenty Six Thousand Seven Hundred Ninety Six Rupees and Sixty paisa only] .

This proposal under consideration is a part of five years plan [2016-2021] for meeting the new Emission Standards notified for the Thermal Power Plants by Ministry of Environment & Forest and Climate Change (MoEF & CC), Government of India vides Gazette Notification No. S.O. 3305 (E) dated 07.12.2015 by the end of 2020 and it is to be executed in the FY 2018-19 during AOH of Unit-1, 3 and 4. As quantum of work for refurbishment of field remains very huge, AOH would be ideal time to carry out such work to minimize loss of generation. The refurbishment work would be done during AOH/ operating one pass in running unit depending upon the work requirement and availability of ESP.

Board vide board resolution No. 4463 in the board meeting dated 03.04.2018 has accorded in principle approval for refurbishment of Electro Static Precipitator (ESP) fields along with repair/replacement/strengthening of ESP casing/structure as may be required at an estimated cost (including contingency of 15%) of up to 71.51 crores over a period of three financial years commencing from FY 2018-19 to ensure compliance with the new Emission Standards notified for the Thermal Power Plants by Ministry of Environment & Forest and Climate Change (MoEF & CC), Government of India vide Gazette Notification No. S.O. 3305 (E) dated 07.12.2015.

Put up for approval of Board for –

1) To award work for Supply and Execution of ESP Field replacement, dummy field revival along with overhauling for compliance of new environmental norms to M/s. Helios Infra Pro PVT. LTD, Kolkata for Rs. 5,68,02,370.00 [Five Crore Sixty Eight Lakh Two Thousand Three Hundred Seventy Rupees only] exclusive of 18% GST.

2) To authorize Managing Director to do all the things and deeds required to give effect to above proposition including but not limited to issue Letter of Intent / Work Orders / Contracts, appoint and / or authorize Senior Executives of the Company to do any or all the acts and deeds.

Shalin
Mukesh
Patel

GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 110

Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261073/74 E-mail : gensipp@gipcl.com

Work Order

BY MAIL/COURIER

Date: 15.11.2018

Reference: GIPCL/SLPP/BLR/ESP/2017/U134/AN/R & OH/WO/ 3982

To

M/s. Helios Infra Pro PVT. LTD.
Ground Floor, 561, Block-N,
New Alipore, Kolkata 700053
West Bangal, India.

(Kind Attention: Shri Nikunj Agrawal)

Subject: Surat Lignite Power Plant - 4X125 MW, Unit # 1 to 4:

Work order for (1) Supply and Execution of Replacement of internals Electrostatic Precipitators [ESP] of nine fields of Unit-1 to Unit-4.(2) Supply and Execution of Dummy Field Revival of ESP of Unit-3/4 [2 Fields](3) Overhauling /servicing of all remaining 43 field of ESP of Unit 1 to Unit 4.

References:

1. E-Tender (N-Procure ID : 305914) for above said work. Floated on 23/04/2018
2. Submission of Bid for Tender ID 305914 and document submitted as a part of tender documents along with EMD & Tender Fees.
3. E-Reverse auction (N-Procure auction ID : S-55-981.), carried out on 06.07.2018 on website https://e-auction.nprocure.com
4. Billing break-up submitted by M/s Helios on dated 03.11.2018 & accepted by GIPCL for clause A1.3 of Tender for "Supply of all required spares for revival of dummy fields[2 Field] including TR set and Panel with all mechanical/ electrical/electronic spares and their accessories in U3/4".

Registered Office & Vadodara Plant :
P.O.Petrochemical, Dist. Vadodara 391 346 Gujarat - INDIA

AN IMS COMPANY

Phone : EPABX (0265) 2232768/2213/0159
Fax : 2231207 **E-mail :** genbaroda@gipcl.com

Website : www.gipcl.com
CIN No : L99999GJ1985PLC007868

Dear Sir,

With reference to the above, We are pleased to place this "Work Order (WO) on you for (1) Supply and Execution of Replacement of internals Electrostatic Precipitators [ESP] of nine fields of Unit-1 to Unit-4.(2) Supply and Execution of Dummy Field Revival of ESP of Unit-3/4 [2 Fields](3) Overhauling /servicing of all remaining 43 field of ESP of Unit 1 to Unit 4." at Surat Lignite Power plant, PO. Nani Naroli, Ta: Mangrol, Dist Surat. The Duration of contract period is 18 Month from placement of WO.

SECTION-A

1. SCOPE OF WORK:

Scope of work

Clause No.	Work Description	UOM
Clause A1.1	Supply of internals for Replacement of all working internals-Phase-1	Lot for 3 Field
Clause A1.2	Supply of internals for Replacement of all working internals- Phase-2	Lot for 6 Field
Clause A1.3	Supply of all required spares for revival of dummy field including TR set and Panel with all mechanical/ electrical/electronic spares and their accessories in U3/4	Lot for 2 Field
Clause A2.11	Execution of erection and commissioning for Replacement of all working internals- Phase1- First Field	Per field
Clause A2.12	Execution of erection and commissioning for Replacement of all working internals- Phase1- Second field onwards	Per field
Clause A2.21	Execution of erection and commissioning for Replacement of all working internals- Phase2- First Field	Per field
Clause A2.22	Execution of erection and commissioning for Replacement of all working internals- Phase2- Second field onwards	Per field
Clause A 2.3	Execution of installation of all required spares for revival of dummy field including TR set and Panel with all mechanical/ electrical/electronic spares and their accessories in U3 along with commissioning	per Two Field
Clause B1.1	Mobilization and minimum prescribed maintenance activity-Phase-1	Per unit
Clause B1.2	Mobilization and minimum prescribed maintenance activity-Phase-2	Per unit
Clause B2.0	Overhauling/Repair / Replacement/ servicing-service clause wise for both phase-1 & 2	Service clause wise

** In case partial field replacement instructed than billing will be governed by "Partial Field replacement billing schedule"

Detail scope of work is given in annexure-A attached separately with WO

2. SYSTEM DESCRIPTION :

ESP Description	Unit 3 & 4-PH-II, Make: BHEL	Unit 1 & 2-PH-I, Make: BHEL
Type of ESP	2xFAA-7x45(45) -132-135-2	2xFAA-7x45(45) -126-135-2
No of passes	2	2
Number of fields per pass	08 including 01 dummy field (First)	07 including 01 dummy field (Last)
Pitch between Two Collecting Electrode	400 mm	300 mm
No of rows for CE	34 per field each row 6 plates	43 per field each row 6 plates.
No of rows for EE	33 rows per field, each row 54(18x3) electrodes.	42 rows per field, each row 54(18x3) electrodes.
Total No. Of fields	14 in each unit,28 in Phase-2	12 in each unit,24 in Phase-1

3. CONTRACT PERIOD , MOBILIZATION PERIOD & TIME SCHEDULE FOR COMPLETION OF WORK:

a. Contract period: 18 Month from the date of placement of WO.
b. Time schedule for completion of job is as below:
c. For Unit-1 ,2, 3 ,4: 15 to 25 Days for each unit tentatively

For each unit from the date of handing over of work front from GIPCL.

d. The pre shut down activity period is excluded from this.
e. The basic considerations and the essence of the 'Contract' shall be the strict adherence to the time schedule for performing the specified 'Works'. The entire works (except the pre shutdown activity) as specified in scope of work shall be completed as above.
f. The work shall be carried out continuously round the clock with **2x12** hours shift working. Separate gangs shall be engaged in each shift without engaging the same manpower including site supervisor.
g. In case of delay in executing the contract by contractor, GIPCL reserves the right to engage another contractor and complete the balance job at the risk and cost of the contractor.
h. The said work shall be carried out in Unit 1, 2, 3 & 4 boiler during annual overhaul /Single pass planned isolation tentatively from march-19 onwards . Here monsoon will be commenced from last week of June and last up to October 1st week. The average rain fall is around **40 inch** and maximum up to **100 inch.** Partly shall plan their resources accordingly to execute the work in time bound period.

Note : **This is not intended to be a detailed scope of work as such all the terms & conditions included in tender specification (Tender ID 305914) & subsequent letters / protocol copy / inspection result/mail will be treat as the part of contract**

4. MOBILIZATION INTIMATION/PERIOD:

i. Intimation will be given through mail& call regarding date of shutdown before 15 days for each unit. The pre shutdown activity, pre shutdown/execution site visit and mobilization of resources should be initiated based on date of intimation

SECTION-B

1. **CONTRACT PERIOD:**
   1. The contract will be for a period of 18 Months from the date of actual commencement of operation of the contract as stated in the Work Order ('Contract Period').
   2. GIPCL reserves the right to extend the Contract **Period up to 3 months** on the same rates and terms and conditions without any price escalation and entering into any new contract.
   3. The said Contract Period can be extended if mutually agreed upon by both the parties up to one year and in such a case a revised work order shall be issued at the same rates and terms & condition or at negotiated rates acceptable by both parties i.e. the Company & the Contractor.
2. **CONTRACT PRICE:**

Price Schedule / Billing Break-up:

PRICE SCHEDULE : TO BE READ ALONG WITH " DETAIL SCOPE OF WORK-Annexure-A"							
Clause. No.	UOM	Qty.	Part	work order Unit rate before T & D per UOM	Total net work order before T & D	For Section in SOR base estimation	Attachment Break-up
Clause A1.1	Lot for 3 Field	1	Part 1 / Section 1 Supply	9748150.44	9748150.44	37418610.72	TABLE-1
Clause A1.2	Lot for 6 Field	1		15449795.76	15449795.76		TABLE-2
Clause A1.3	Lot for 2 Field	1		12220664.52	12220664.52		Refer ANNEXURE-B
Clause A2.11	Per field	2	Part 2 / Section 2 Executio n	1705665.78	3411331.56	19383711.58	
Clause A2.12	Per field	1		1042238.07	1042238.07		
Clause A2.21	Per field	2		1604578.76	3209157.52		
Clause A2.22	Per field	4		941151.05	3764604.20		
Clause A 2.3	per Two Field	1		4686948.7	4686948.70		
Clause B1.1	Per unit	2		281724.29	563448.58		
Clause B1.2	Per unit	2		247532.6	495065.20		
Clause B2.0	Service clause wise			2210917.75	2210917.75		TABLE-3
Grand Total Before GST					56802322.30	56802322.30	
GST : GST will be paid separately as per prevailing GST rates as mention in clause 4 of section B "TERMS OF PAYMENT"							

GUJARAT INDUSTRIES POWER COMPANY LTD.

Regd. Office: P.O. Ranoli – 391 350, Dist. Vadodara, Gujarat – INDIA
CIN: L99999GJ1985PLC007868

EXTRACT OF CERTIFIED TRUE COPY OF RESOLUTION PASSED BY THE BOARD OF DIRECTORS AT ITS 303RD MEETING HELD ON THURSDAY, THE 13TH FEBRUARY, 2020.

4672. TO CONSIDER AND APPROVE REFURBISHMENT OF EXISTING ESP FIELDS, REVIVAL OF DUMMY ESP FIELDS AND OVERHAULING/ SERVICING OF REMAINING ESP FIELDS TO COMPLY WITH NEW ENVIRONMENTAL NORMS AT SLPP.

"**RESOLVED THAT** pursuant to the 'in-principle' approval granted by the Board of Directors vide Resolution No. 4463 dated 03/04/2018 and in compliance with the Emission Standards notified for the Thermal Power Plants by Ministry of Environment & Forest and Climate Change (MoEF & CC), Government of India vide Gazette Notification No. S.O. 3305 (E) dated 07.12.2015, consent of the Board be and is hereby accorded to split the work of supply and execution of refurbishment of existing ESP Fields, Revival of Dummy ESP Fields and Overhauling / Servicing of remaining ESP Fields for the period 2020-21, between M/s. Unicon Engineers, Coimbatore (L1 bidder) for contract value of Rupees 6,52,77,028 [Six Crore Fifty Two Lakh Seventy Seven Thousand Twenty Eight Rupees only]and M/s. Helios Infra Pro Private Limited, Kolkata (L2 bidder) for approximate contract value of Rupees 5,41,22,972 [Rupees Five Crore Forty One Lakh Twenty Two Thousand Nine Hundred Seventy Two Rupees only] (at L1's rate) respectively aggregating to combined Contract Value of Rs.11,94,00,000 [Rupees Eleven Crores Ninety Four Lakh only] including 18% GST".

"**FURTHER RESOLVED THAT** the Managing Director be and is hereby authorized to do all the things and deeds required to implement the above resolution including but not limited to nominate and / or authorize Senior Executives of the Company, from time to time, to do and perform all or any of the acts, things and deeds that the Managing Director is hereby authorized to do and perform.

CERTIFIED TRUE COPY
FOR GUJARAT INDUSTRIES POWER COMPANY LIMITED

Shalin Mukesh Patel

CS SHALIN PATEL
COMPANY SECRETARY & COMPLIANCE OFFICER
MEM. NO. ACS 22687

DATE : 28/03/2024
PLACE: VADODARA

ITEM No :12

GUJARAT INDUSTRIES POWER COMPANY LTD
(SURAT LIGNITE POWER PLANT)

Note to the Board of Directors:
(For its meeting to be held on 13/02/2020)

Sub.: Approval for award of work for supply and execution of ESP fields replacement, dummy field revival along with overhauling for compliance of new environmental norms.

Brief Background:

The Board in its 290th Meeting held on 03.04.2018 vide Board resolution No. 4463 has accorded inprinciple approval for refurbishment of Electro Static Precipitator (ESP) fields along with repairs/replacement/strengthening of ESP casing/structure as may be required at an estimated cost (including contingency of 15%) of up to 71.51 crores over a period of three financial years commencing from FY 2018-19 to ensure compliance with the new Emission Standards notified for the Thermal Power Plants by Ministry of Environment & Forest and Climate Change (MoEF & CC), Government of India vide Gazette Notification No. S.O. 3305 (E) dated 07.12.2015.

The work is undergoing since financial year 2016-17 inline with the five year plan finalized to meet new Emission Standards notified. Since FY 2016-17 till date, total 22 fields out of total 60 fields in all the four units have been replaced along with the revival of two dummy fields in unit – 3 and repair/replacement of ESP casing/ducting / strucutures at total cost of @ Rs. 16.33 Cr. incurred up to Q3 of financial year 2019-20.

Proposal:

The present proposal is for the replacement of another 18 fields in all the four units & incorporation of eight three Phase TR sets along with the revival of two dummy fields in Unit - 4 with an estimated costing of Rs.13.27 Cr. Further in line with the approved five year plan to meet new emission standards, it is planned to replace another 12 fields in all the four units & incorporation of eight 3 phase TR sets along with revival of four dummy fields in the Units 1 & 2 in the next financial year (2020-2021).

Shalin Mukesh Patel

Open e-Tender for the present proposal for supply and execution of Electro Static Precipitator (ESP) Fields was published through portal n-Procure along with provision of e-reverse auction for the first time on 29.04.2019 for:-

- Supply and execution of replacement of internals of eigtheen fields of unit-1 to unit-4.
- Supply and execution of dummy fields'revival of Unit-4.
- Overhauling /servicing of all the remaining fields of Unit -1 to Unit-4.
- Upgradation of one field per pass of all the four Units by installation of eight 3-phase transformers.

The above tender was published on n-Procure and GIPCL websites on 29.04.2019 with the last date of submission as 20.05.2019 and simultaneously Tender Notice was published on 29.04.2019 for inviting bids.

Intimations of publishing of tender notice and floating of tender were also given through various e-mails to following seven prospective and known bidders:-

(1) M/s General Electricals (GE), Vadodara/Kolkata,
(2) M/s Bharat Heavy Electricals Limited (BHEL), Vadodara/ Ranipet,
(3) M/s Helios Infra Pro PrivateLiimted (M/s HIPL), Kolkata,
(4) M/s Soil Enviro Pvt. Ltd (M/s SEIPL), Kolkata,
(5) M/s Ideal Industries Limited, Trichy,
(6) M/s Enmas Limited, Chennai,
(7) M/s Unicon Engineers, Coimbatore.

In order to have healthy competition, the last date for submission of bids was extended up to 31.05.2019 initially and further extended up to 10.06.2019 based on the requests received by emails from prospective bidders. All the prospective bidders were informed of the extension of time period for submission of bid by emails on 20.05.2019 & 01.06.2019.

Techno-Commercial bids were opened on 10.06.2019. Only one bid from M/s Helios Infra Pro Private Liimted (M/s HIPL), Kolkata was received against above tender.

During tendering stage, Ms BHEL and Ms GE have taken deviations in the supply part and after GIPCL's requests for withdrawl of deviations. They have not responded and not participated in the tender.

On enquiring the reasons for not participating in the tender from M/s Unicon Engineers, they have informed that "they were unable to bid in said tender because of criteria in clause 5.4 which specifies that bidder should have executed orders of certain values during the last three years. However, if the eligibility criteria period is extended for past 7 years instead of past 3 years, they will be able to meet all the requirements under clause no.5.4 of eligibility criteria."

Shalin Mukesh Patel

Further, in line with recommendations of the techno-commercial committee comprising of GM (F) & CFO, GM (SLPP) and AGM (MMD&C), meeting with M/s GE was held on 28.08.2019 and all the points were discussed in detail. Based on these discussions, some clauses were reviewed & modified (Mainly like terms of payment, defect liability period, settlement of disputes, Indemnity, penalty and recovery) and some clauses were also added in the tender (like contractor's rights for suspension & termination and Limitation of liability and consequential damage) in order to have more participation.

Further as per request from M/s. Unicon, eligibility criteria Clause no.5.4 "Bidder should have executed orders fo certain value during last 3 years" should be extended for past 7 years instead of past 3 years to seek better competitive price.

The tender was refloated with revised terms & conditions on 12.11.2019. To have more healthy competition, the last date for submission of bids was extended up to 17.12.2019 initially and further extended up to 26.12.2019 based on the requests received by emails from prospective bidders. All the prospective bidders were informed about the extension of time period for submission of bids by emails on 17.12.2019 & 26.12.2019

Intimation mail of publishing of tender was given to following eight known & prospective bidders :-

(1) M/s General Electric (M/s G.E.) ,Vadodara
(2) M/s BHEL, Vadodara/Ranipet
(3) M/s Helios Infra Pro Limited ,Kolkata
(4) M/s Soil Enviro Pvt. Ltd (M/s SEIPL), Kolkata
(5) M/s Enmas Limited (M/s EL), Chennai
(6) M/s Ideal Industries Incorporation, Trichy
(7) M/s Unicon Engineers (M/s UE), Coimbatore
(8) M/s V.T. Corporation, Mumbai

The Techno-Commercial bids were opened on 06.01.2019. Technical bids along with EMD and tender fee of following bidders were received:-

(1) M/s Helios Infra Pro Private Limited, Kolkata (HIPL)
(2) M/s Soil Enviro Pvt. Ltd (M/s SEIPL), Kolkata
(3) M/s Unicon Engineers (M/s UE), Coimbatore
(4) M/s V.T. Corporation, Mumbai (VTC)
(5) M/s General Electricals, Vadodara/ Kolkata (GE)

Evaluation of Pre-Qualification bids/Techno-Commercial Bids:-

Bids submitted by all the above five bidders were technically scrutinized and after detailed assessment and verification of documents, following three vendors were found technically qualified as detailed in table A, whereas bids of M/s. VTC & M/s. SEIPL were disqualified for reasons mentioned in table-B.

Shalin
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Patel

Table A:

Sr. No.	Qualified Vendor Detail
1	Helios Infra Pro Private Limited, Kolkata (HIPL)
2	General Electricals, Vadodara/ Kolkata (GE)
3	Unicon Engineers (UE) , Coimbatore

Table B:

Sr. No.	Vendors not qualified	Major Reason
1	V.T. Corporation, Mumbai (VTC)	Change of design, ABL Lurgi design proposed instead of existing BHEL design. In proposed design working internals as well existing set-up will not remain same.Further while carrying out installation in the existing available set-up, remaining internals are need to be changed to adjust to proposed design and cost involved & time implications during replacement. Operating with two type of designs in long run, will have a long term impact on O & M and R & M of plant.
2	M/s. Soil & Enviro Industries Pvt. Ltd., Kolkata	Didn't meet eligibility criteria of tender specification of executing similar nature of work contract with minimum value of WO during period specified in the tender.

Evaluation of Price Bids:

Online price bidsof above three qualified bidders were opened on 29.01.2020 @ 08:30 hrs and relative position of each bidder along with quoted percentage & quoted value after tax is as mentioned below:-

The estimated value amounts to Rs. **13, 27, 83,046** including GST @18 %.

(In Rs)

Section	Estimation	M/s UNICON	M/s HELIOS	M/s GE POWER
Supply	6,46,39,810	7,27,19,786	7,88,60,568	7,43,35,781
Execution	2,84,60,594	3,20,18,168	2,98,83,623	3,52,91,136
Electrical	1,94,27,600	2,18,56,050	2,09,81,808	2,06,90,394
Total	11,25,28,004	12,65,94,004	12,97,25,999	13,03,17,312
18% GST	2,02,55,040	2,27,86,920	2,33,50,679	2,34,57,116
Total Value	**13,27,83,044**	**14,93,80,925**	**15,30,76,679**	**15,37,74,428**
Relative Postion	BASE	**L1**	**L2**	**L3**
Weighted Average Percentage higher than estimation w.r.t. BASE (Estimation)		12.50 %	15.28 %	15.81 %

Shalin Mukesh Patel

E-Reverse auction:

E–reverse auction was carried out on 29.01.2020 at 10:30 hrs between three qualified bidders and summary of the same is as given below:

- E-reverse auction floated on website "https://e-auction.nprocure.com" with Auction ID: S55-12947.
- E-reverse auction began with opening price Rs.14,93,80,925/-,
- Decrement value : Rs 1,00,000/-
- Total 239 decrements received in multiplication of Rs.1,00,000/-,
- E-reverse auction duration: 16 Hrs.
  Duration - (10:30 hrs on 29.01.2020 to 02:30 hrs on 30.01.2020)
- Net reduction during reverse auction : Rs.2,99,80,925/-
- Summary of relative postion amongst bidder at the end of reverse auction:

Bidder Name	Postion	Value (Cr.)	Bid No.
M/s Unicon Engineers , Coimbatore	L1	11.94	239th (Last bid)
M/s Helios Infra Pro Pvt. Ltd, Kolkata	L2	11.95	238th (2nd last bid)
M/s General Electricals, Vadodara	L3	12.30	215th (25th last bid)

Considering the final quoted value after e-reverse auction, M/s.UNICON ENGINEERS, Coimbatore have emerged as the lowest bidder for Supply and Execution of ESP fields replacement, dummy field revival along with overhauling works & TR set upgradation which amounts to Rs. 10,11,86,441 without GST, which is lower by 10.08% with respect to our estimation of Rs.11,25,28,004. The total contract value with 18% GST works out to Rs.11,94,00,000 [Rs Eleven Crores Ninety Four lakhs only].

However, M/s Unicon Engineers has not executed any major power plant related ESP orders in the past three years. This work is to be executed within the timeline (Mainly during annual shutdown period / single pass outage during running unit to avoid generation loss) to meet the environmental norms. Considering the above factors with respect to compliance of new environmental norms for emissions from stacks of power plants and generation loss due to unit outage/partial loading because of ESP field replacement/retrofitting works, there is need to consider the option of splitting the work between L1 & L2 in accordance with clause No. 5.18 (Eligibility Criteria) of Tender Specification as parallel working is possible and in case of non performance, 2nd party can take up the job on priority for completion of work with in stipulated time to meet the Environmental norms. Further L2 party Ms Helios Infra Pro Private Ltd, Kolkata have already carried out similar job in GIPCL-SLPP during last three years & performance is very good for the works done by the party. L2 party has also agreed to do the job at L1's rate.

Shalin Mukesh Patel

As per Delegation of Powers, Board of Directors is authorized to approve such proposal for award of contracts having value above Rs 500 Lakh as Capital expenditure.

Put up for approval of Board for

1. Splitting of the work between L1 & L2 bidders and award of contract/issue of work order to M/s.Unicon Engineers , Coimbatore(L1) & M/s. Helios Infra Pro Private Limited, Kolkata(L2) for **supply and execution of ESP fields replacement, dummy field revival along with overhauling for compliance of new environmental norms** at SLPP for the period 2020-21 with total combined contract value of Rs.11,94,00,000 [Rs Eleven Crores Ninety Four Lakhs only]including 18% GST (Aproximately Rs.6.52 Crores to L1 bidder & Rs.5.42 Crores to L2 bidder at L1's rate). The total combined contract value remain lower by 10.08 % with respect to GIPCL estimation of Rs. 13,27,83,046 [Rs Thirteen Crores Twenty Seven Lakhs Eighty Three Thousand Forty Six only].

2. Authorizing the Managing Director to do all the things and deeds required to implement the above resolution including but not limited to nominate and / or authorize Senior Executives of the Company, from time to time, to do and perform all or any of the acts, things and deeds that the Managing Director is hereby authorized to do and perform.

xxx

Shalin
Mukesh
Patel

GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 112

Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261080 E-mail : genslpp@gipcl.com

WORK ORDER
BY MAIL/COURIER

Reference: GIPCL/SLPP/BLR/ESP/2020/R&OH/ Date: 25.04.2020

To
M/s. Helios Infra Pro PVT. LTD,
Ground Floor, 561, Block-N,
New Alipore, Kolkata 700053
West Bangal, India.

(Kind Attention: Shri Nikunj Agrawal)

Subject: **Surat Lignite Power Plant - 4X125 MW, Unit # 1 to 4: Work order for**
1. Supply and Execution of Replacement of internals of nine fields of Unit-1 & 2.
2. Overhauling / servicing of all remaining fields of Unit 1 & Unit 2
3. Incorporation of 3-phase transformer up gradation in 1 field per pass of phase-I units (Total 4+1 spare)

REFERENCES:
1. E-Tender (N-Procure ID : 383805) for above said work, Floated on 13/11/2019
2. Submission of Bid for Tender ID 383805 and document submitted as a part of tender documents along with EMD & Tender Fees.
3. E-Reverse auction(N-Procure auction ID : S-55-12947) carried out on 29/02/2020 on website https://e-auction.nprocure.com

Dear Sir,
With reference to the above, we are pleased to place this "Work Order (WO)" on you for
1. Supply and Execution of Replacement of internals of nine fields of Unit-1 & Unit-2.
2. Overhauling / servicing of all remaining fields of Unit 1 & Unit2.
3. Incorporation of 3-phase transformer up gradation in 1 field per pass of phase-I units (Total 4+1 spare)

At Surat Lignite Power plant, PO. Nani Naroli, Ta: Mangrol, Dist Surat. The Duration of contract period is 18 Month from placement of WO.

SECTION - A

1 SCOPE OF WORK:-

Scope broadly covered:

Clause No.	Work Description	UOM
Clause A1.1	Supply of internals for Replacement of all working internals- Phase-1	Lot for 9 Field
Clause A2.11	Execution of erection and commissioning for Replacement of all working internals- Phase1- First Field	Per field
Clause A2.12	Execution of erection and commissioning for Replacement of all working internals- Phase1- Second field onwards	Per field
Clause B1.1	Mobilization and minimum prescribed maintenance activity- Phase-1	Per unit
Clause B2.0	Overhauling/Repair / Replacement/ servicing-service clause wise for both phase-1	Service clause wise
Clause C 1	Up gradation of 3 Phase TR ser from existing single Phase TR set in Phase-I including spare one transformer, one controller and control panels spares etc	Per TR set

** In case partial field replacement is to be carried out than billing will be governed by "Partial Field replacement billing schedule".

2 SCOPE OF WORK:-

ESP Description	Unit 1 & 2-PH-I, Make: BHEL	Unit 3 & 4-PH-II, Make: BHEL
Type of ESP	2xFAA-7x45(45) -126-135-2	2xFAA-7x45(45) -132-135-2
No of passes	2	2
Number of fields per pass	07 including 01 dummy field (Last)	08 including 01 dummy field (First)
Pitch between Two Collecting Electrode	300 mm	400 mm
No of rows for CE	43 per field each row 6 plates.	34 per field each row 6 plates
No of rows for EE	42 rows per field, each row 54(18x3) electrodes.	33 rows per field, each row 54(18x3) electrodes
Total No. Of fields	12 in each unit,24 in Phase-1	14 in each unit,28 in Phase-2

3 CONTRACT PERIOD , MOBILIZATION PERIOD & TIME SCHEDULE FOR COMPLETION OF WORK:-

a) **Contract period:** **Contract period:** 18 Month from the date of WO (i.e.25.04.20).
b) **Time schedule** for completion of job is as below:
c) For Unit-1, 2, 3 &. 4:- 25 to 30 Days for each unit tentatively depending on work planned. Work shall be done with complete unit shutdown.
d) Work may be carried out during single pass outage while unit remain in operation through other pass.

e) **Isolation philosophy:** During running Unit, ESP one pass will be isolated from flue gas side as Inlet gate & outlet of ESP with Electrical isolation for field replacement /Overhauling.
f) Single pass outage will be planned based on requirement and will convey the time period in advance.
g) In case of single pass outage both pass provided in single mobilization simultaneously with maximum 4 to 7days changeover/stabilization period.
h) For each unit from the date of handing over of work front from GIPCL.
i) The pre shut down activity period is excluded from this.
j) The basic considerations and the essence of the 'Contract' shall be the strict adherence to the time schedule for performing the specified 'Works'. The entire works (except the pre shutdown activity) as specified in scope of work shall be completed as above.
k) The work shall be carried out continuously round the clock with **2x12** hours shift working. Separate gangs shall be engaged in each shift without engaging the same manpower including site supervisor.
l) In case of delay in executing the contract by contractor, GIPCL reserves the right to engage another contractor and complete the balance job at the risk and cost of the contractor.
m) The said work shall be carried out in Unit 1,2,3 & 4 boiler during annual overhaul planned tentatively in the month of May to Sept . Here monsoon will be commenced from last week of June and last up to October 1st week. The average rain fall is around **40 inch** and maximum up to **100 inch.** Partly shall plan their resources accordingly to execute the work in time bound period.

4 MOBILIZATION INTIMATION / PERIOD:-

GIPCL shall provide 30 days advance notice for shutdown period for Mobilization intimation and 15 days advance notice as final intimation for shutdown mobilization.

5 SUPPLY SCHEDULE:

- All the material to be supplied under clause A1.1 need to supply within 10-12 weeks from date of WO/LOI whichever is earlier.
- All the material to be supplied under clause C1 need to supply within 12-16 weeks from date of WO/LOI whichever is earlier.
- Billing break-up (BBU) required form C1 need to submit within 2 weeks from date of WO/LOI whichever is earlier for approval to GIPCL

SECTION-B

1. CONTRACT PERIOD:-

a. The contract will be for a period of 18 Month from the date of WO as stated in the Work Order ('Contract Period') Clause No. 3a.

b. GIPCL reserves the right to extend the Contract Period up to 3 months on the same rates and terms and conditions without any price escalation and entering into any new contract.

c. The said Contract Period can be extended if mutually agreed upon by both the parties up to one year without issuing new work order with same rates and terms & conditions and without any escalation.

2. PRICE SCHEDULE:-

Price Schedule / Billing Break-up:-

Clause. No.	UOM	Qty.	Part	Total including 18% GST,
Clause A1.1	Lot for 9 Field	1 Lot	Part 1 Supply	3,10,30,387.00
Clause A2.11	Per field	2	Part 2 Execution	36,19,660.00
Clause A2.12	Per field	7		77,41,207.00
Clause B1.1	Per unit	2		5,97,858.00
Clause B2.0	Service clause wise	1		11,72,968.00
Clause C 1	TR set upgrade Phase-1	4 (+1Spare) (BBU)	Part 3 TR set	99,60,893.00
Total including 18% GST:				5,41,22,972.00
SUPPLY PORTION (WO GST)				3,47,38,372.88
10 % ADVANCE w.r.t. ABG				34,73,837.00

3. FACILITIES TO BE PROVIDED BY GIPCL:-

A. The Company shall provide the following facilities to the Contractor at the site:

(i) Electricity & water at nearest available one point. Further distribution to be done by contractor at their cost.

(ii) Quarter(s) for supervisor/ engineers on chargeable basis in GIPCL's township at discretion of GIPCL if available.

(iii) Workshop facility as available at site only. However contractor may visit the workshop to ensure the existing facility. For the facilities other than available, contractor has to carry out the job outside at their own cost.

(iv) Site office shall be provided at site.

(v) Hydra will provided by GIPCL based on availability on chargeable basis.

(vi) First aid facilities as available on chargeable basis.

Apart from the above, no other facilities shall be provided by GIPCL.

B. Items/services to be provided by GIPCL free of cost.

(i) Spares for overhauling schedule 4.3 / Part 4 Clause A to Z

MKL

GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 112

Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261080 E-mail : genslpp@gipcl.com

Ref.: GIPCL/SLPP/BLR/ESP/2020/R&OH/979/Amend-2/1866

Date: **17.06.2022**

AMENDMENT TO WORK ORDER
By Courier / Mail/ Hand

To,
M/s Helios Infra pro Pvt Ltd,
Ground Floor, 561, Block-N, New Alipore,
Kolkata-700053 West Bangal, India

(Kind attention: Shri Nikunj Agrawal / Shri Naresh Agrawal)

Subject: Amendment Work order for "Work order for Surat Lignite Power Plant - 4X125 MW, Unit# I to IV: (1) Supply and Execution of Replacement of internals of nine fields of Unit-1 & 2. (2) Overhauling/ servicing of all remaining fields of Unit-1 & 2. (3) Incorporation of eight 3- Phase transformer up-gradation in 1 field per pass of Phase-I Units for a period of Eighteen months at SLPP (2019-21).

Reference:

1. GIPCL work order [WO] GIPCL/SLPP/BLR/ESP/2020/R&OH/979 dtd 25.04.2020.
2. GIPCL Amend. WO GIPCL/SLPP/BLR/ESP/2020/R&OH//3037 dtd 15.11.2021.

Dear Sir,

With reference to the above work order and correspondences, GIPCL is pleased to amend Clause No-1 Contract Period (SECTION-B>>Clause no-1 >>Point no-c) & Clause No-2 Price schedule of above work order.

CONTRACT PERIOD :- The existing contract period of the work order is extended six month further (in line with SECTION-B>>Clause 1, Point No.-c, of WO) and hence contract period end date is extended up to 17.12.2022 on same rates and terms and conditions.

PRICE SCHEDULE :- The existing total contract value including 18% GST (i.e. Rs.5,41,22,973 /-) is amended by Rs. 13,86,821/- and accordingly revised total contract value including 18% GST is amounts to Rs.5,55,09,793/- (Rupees Five Crore Fifty-Five Lakh Nine Thousand Seven Hundred Ninety-Three only).

Registered Office & Vadodara Plant :
P.O. RANOLI, Dist. Vadodara 391 350 Gujarat - INDIA

AN IMS COMPANY

Phone : EPABX (0265) 2230182 / 2230028 / 2232768
Fax : 2230029 **E-mail :** genbaroda@gipcl.com

Website : www.gipcl.com
CIN No.: L99999GJ1985PLC007868

Other Terms and condition of our earlier work order remains same.

We are forwarding this work Order in duplicate. You are requested to sign the duplicate copy of work order as a token of your acceptance and forward the same to us.

Yours faithfully,

For GUJARAT INDUSTRIES POWER CO. LTD.

(N.K.Singh)

General Manager (SLPP)

C.C.: DGM (Fin.)

1st Call

GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 110

Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261073/74 E-mail : genslpp@gipcl.com

WORK ORDER

BY MAIL/COURIER

Reference: GIPCL/SLPP/BLR/ESP/2020/R&OH/ **Date:** 25.04.2020

To

M/s Unicon Engineers,
513-A/6 Bharathi Road,
Ganapathy, Coimbatore

(Kind Attention: Shri Ram Shankar)

Subject: Surat Lignite Power Plant - 4X125 MW, Unit # 1 to 4: Work order for

1. Supply and Execution of Replacement of internals of nine fields of Unit-3 & 4.
2. Supply and Execution of Dummy Fields Revival of Unit-4 [2 Fields]
3. Overhauling /servicing of all remaining fields of Unit 3 & Unit 4.
4. Incorporation of 3-phase transformer up gradation in 1 field per pass of phase-II units (Total 4+1spare)

REFERENCES:

1. E-Tender (N-Procure ID : 383805) for above said work, Floated on 13/11/2019
2. Submission of Bid for Tender ID 383805 and document submitted as a part of tender documents along with EMD & Tender Fees.
3. E-Reverse auction (N-Procure auction ID:S-55-12947) carried out on 29/02/2020 on website https://e-auction.nprocure.com

Dear Sir,

With reference to the above, we are pleased to place this "Work Order" on you for

1. Supply and Execution of Replacement of internals of nine fields of Unit-3 & 4.
2. Supply and Execution of Dummy Fields Revival of Unit-4 [2 Fields]
3. Overhauling /servicing of all remaining fields of Unit 3 & Unit 4.
4. Incorporation of 3-phase transformer up gradation in 1 field per pass of phase-II units (Total 4+1spare)

At Surat Lignite Power plant, PO. Nani Naroli, Ta: Mangrol, Dist Surat. The Duration of contract period is 18 Month from placement of WO.

SECTION – A

1 SCOPE OF WORK:-

Scope broadly covered:

Clause No.	Work Description	UOM
Clause A1.2	Supply of internals for Replacement of all working internals- Phase-2	Lot for 9 Field
Clause A1.3	Supply of all required spares for revival of dummy field including TR set and Panel with all mechanical/ electrical/electronic spares and their accessories in U4	Lot for 2 Field
Clause A2.21	Execution of erection and commissioning for Replacement of all working internals- Phase2- First Field	Per field
Clause A2.22	Execution of erection and commissioning for Replacement of all working internals- Phase2- Second field onwards	Per field
Clause A 2.3	Execution of installation of all required spares for revival of dummy field including TR set and Panel with all mechanical/ electrical/electronic spares and their accessories in U4 along with commissioning (Execution Including Mobilization of separate resources)	per Two Field
Clause B1.2	Mobilization and minimum prescribed maintenance activity- Phase-2	Per unit
Clause B2.0	Overhauling/Repair / Replacement/ servicing-service clause wise for both phase- 2	Service clause wise
Clause C 2	Up gradation of 3 Phase TR ser from existing single Phase TR set in Phase-2 including spare one transformer, one controller and control panels spares etc	Per TR set

** In case partial field replacement is to be carried out than billing will be governed by "**Partial Field replacement billing schedule**".

2 SCOPE OF WORK:-

ESP Description	Unit 1 & 2-PH-I, Make: BHEL	Unit 3 & 4-PH-II, Make: BHEL
Type of ESP	2xFAA-7x45(45) -126-135-2	2xFAA-7x45(45) -132-135-2
No of passes	2	2
Number of fields per pass	07 including 01 dummy field (Last)	08 including 01 dummy field (First)
Pitch between Two Collecting Electrode	300 mm	400 mm
No of rows for CE	43 per field each row 6 plates.	34 per field each row 6 plates
No of rows for EE	42 rows per field, each row 54(18x3) electrodes.	33 rows per field, each row 54(18x3) electrodes.
Total No. Of fields	12 in each unit,24 in Phase-1	14 in each unit,28 in Phase-2

3 CONTRACT PERIOD , MOBILIZATION PERIOD & TIME SCHEDULE FOR COMPLETION OF WORK:-

a) **Contract period:** 18 Month from the date of WO (i.e.25.04.20).
b) **Time schedule** for completion of job is as below:
c) For Unit-1, 2, 3 &, 4:- 25 to 30 Days for each unit tentatively depending on work planned. Work shall be done with complete unit shutdown.
d) Work may be carried out during single pass outage while unit remain in operation through other pass.
e) **Isolation philosophy:** During running Unit, ESP one pass will be isolated from flue gas side as Inlet gate & outlet of ESP with Electrical isolation for field replacement /Overhauling.
f) Single pass outage will be planned based on requirement and will convey the time period in advance.
g) In case of single pass outage both pass provided in single mobilization simultaneously with maximum 4 to 7days changeover/stabilization period.
h) For each unit from the date of handing over of work front from GIPCL.
i) The pre shut down activity period is excluded from this.
j) The basic considerations and the essence of the 'Contract' shall be the strict adherence to the time schedule for performing the specified 'Works'. The entire works (except the pre shutdown activity) as specified in scope of work shall be completed as above.
k) The work shall be carried out continuously round the clock with **2x12** hours shift working. Separate gangs shall be engaged in each shift without engaging the same manpower including site supervisor.
l) In case of delay in executing the contract by contractor, GIPCL reserves the right to engage another contractor and complete the balance job at the risk and cost of the contractor.
m) The said work shall be carried out in Unit 1,2,3 & 4 boiler during annual overhaul planned tentatively in the month of May to Sept . Here monsoon will be commenced from last week of June and last up to October 1st week. The average rain fall is around 40 inch and maximum up to 100 inch. Partly shall plan their resources accordingly to execute the work in time bound period.

4 MOBILIZATION INTIMATION / PERIOD:-

GIPCL shall provide 30 days advance notice for shutdown period for Mobilization intimation and 15 days advance notice as final intimation for shutdown mobilization.

5 SUPPLY SCHEDULE:

- All the material to be supplied under clause A1.2 & A1.3 need to supply within 10-12 weeks from date of WO/LOI whichever is earlier.
- All the material to be supplied under clause C2 need to supply within 12-16 weeks from date of WO/LOI whichever is earlier.
- Billing break-up (BBU) required form A1.3 & C2 need to submit within 2 weeks from date of WO/LOI whichever is earlier for approval to GIPCL.

SECTION-B

1. CONTRACT PERIOD:-

a) The contract will be for a period of 18 Month from the date of WO as stated in the Work Order ('Contract Period') Clause No. 3a.

b) GIPCL reserves the right to extend the Contract Period up to 3 months on the same rates and terms and conditions without any price escalation and entering into any new contract.

c) The said Contract Period can be extended if mutually agreed upon by both the parties up to one year without issuing new work order with same rates and terms & conditions and without any escalation.

2. PRICE SCHEDULE:-

Price Schedule / Billing Break-up:-

Clause. No.	UOM	Qty.	Part	Total including 18% GST
Clause A1.2	Lot for 9 Field	1	Part 1 Supply	2,45,89,954.00
Clause A1.3	Lot for 2 Field	1 (BBU)		1,29,66,971.00
Clause A2.21	Per field	2	Part 2 Execution	34,05,138.00
Clause A2.22	Per field	7		69,90,384.00
Clause A 2.3	per Two Field	1		49,73,177.00
Clause B1.2	Per unit	2		5,25,299.00
Clause B2.0	Service clause wise	1		11,72,968.00
Clause C 2	TR set upgrade Phase-2	4 (+1Spare) (BBU)	Part 3 TR set	1,06,53,135.00
Total including 18% GST				**6,52,77,028.00**
SUPPLY PORTION (WO GST)				**4,08,55,983.05**
10 % ADVANCE w.r.t. ABG				40,85,598.00

3. FACILITIES TO BE PROVIDED BY GIPCL:-

A. The Company shall provide the following facilities to the Contractor at the site:

(i) Electricity & water at nearest available one point. Further distribution to be done by contractor at their cost.

(ii) Quarter(s) for supervisor/ engineers on chargeable basis in GIPCL's township at discretion of GIPCL if available.

(iii) Workshop facility as available at site only. However contractor may visit the workshop to ensure the existing facility. For the facilities other than available, contractor has to carry out the job outside at their own cost.

(iv) Site office shall be provided at site.

(v) Hydra will provided by GIPCL based on availability on chargeable basis.

(vi) First aid facilities as available on chargeable basis.

Apart from the above, no other facilities shall be provided by GIPCL.

GUJARAT INDUSTRIES POWER COMPANY LIMITED
Regd. Office: P.O.: RANOLI – 391 350, DISTRICT: VADODARA
Tel. No. 0265 – 2232768 Fax No. 0265 2230029.
Email: asthakkar@gipcl.com Website: www.gipcl.com
CIN – L99999GJ1985PLC007868.

CERTIFIED TRUE COPY OF RESOLUTION PASSED BY THE BOARD OF DIRECTORS AT ITS 307TH MEETING HELD ON 30TH JANUARY, 2021.

4760 TO CONSIDER AND APPROVE CONSTRUCTION OF PRE-ENGINEERING BUILDING STRUCTURE LIMESTONE SHED AT SLPP.

"**RESOLVED THAT** approval of the Board be and is hereby accorded to place Work Order on M/s Rishikesh Structural Solutions LLP, Vadodara for Rs.5,81,45,373.80 for "Turnkey contract for Design, Engineering, Supply & Procurement, and preparation of erection drawings, manufacture, fabrication, transportation, erection and alignment of the Pre - Engineered Building for Construction of Limestone shed at Surat Lignite Power Plant."

"**FURTHER RESOLVED THAT** approval of the Board be and is hereby accorded to place of work order on M/s Meena Construction, Surat for Rs. 1,13,03,351.80 for "Civil & Electrical work for Construction of Limestone Storage Shed at Surat Lignite Power Plant."

"**FURTHER RESOLVED THAT** Managing Director be and is hereby authorized to do all the things and deeds required to give effect to the above resolutions including to issue / amend/ modify Work Order, to nominate and / or authorize Senior Executives of the Company, from time to time, to do and perform all or any of the acts, things and deeds that the Managing Director is hereby authorized to do and perform."

CERTIFIED TRUE COPY
FOR GUJARAT INDUSTRIES POWER COMPANY LIMITED

CS Achal S Thakkar
Company Secretary

Date: 22/02/2021.
Place: Vadodara.

GUJARAT INDUSTRIES POWER CO. LTD. P.O. RANOLI DIST. VADODARA 391 350

ITEM NO.: _____

GUJARAT INDUSTRIES POWER COMPANY LTD

Note to the Board of Directors
(For the meeting to be held on_____'2021)

SUB: Approval for construction of pre-engineering building structure Limestone shed at SLPP

PREAMBLE

Surat Lignite Power Plant 2X125 MW (Unit-I & II) Phase-I is in commercial operation since February 2000 and 2X125 MW (Unit-III & IV) Phase-II is in commercial operation since April 2010. MoEF vide notification No. S.O.3305 (E) dated 07.12.2015 has amended emission limits for particulate matter and notified the new limits for sulphur dioxide (SO2) (Limit of Sox < 600 mg/NM3), Oxide of Nitrogen (NOx), mercury emission, and water consumption limits for coal / lignite based thermal power plants.

For complying with these new environment norms and limits for sulphur dioxide (SO2) less than 100 ppm as per GPCB consent, continuous and smooth feeding of limestone is required in the boiler to control Sox emission.

Limestone handling system at SLPP has one stream with feeding capacity of 200 TPH of limestone. The per day Limestone feeding requirement is @ 8% to 10% of Lignite fed to boilers for controlling the Sox emission. Daily limestone requirement is around 800-1000 MT for 4 x 125 MW units and the consumption varies based on the sulphur content in the lignite fed and the quality of lime stone.

NECCESSITY OF LIME STONE SHED

Mining of Limestone is not possible during monsoon period from mid June to end October. To meet the lime stone requirement during monsoon period, @ 1,10,000 MT of Limestone stock covered by tarpaulin is being maintained. Out of this stock of lime stone, @ 10,000 MT. of Limestone is being stored in the existing covered shed of lignite of Phase-I in available space to meet the requirement of limestone feeding during continuous & heavy rain fall period.

Average rainfall at SLPP is around 1300 mm and sometimes it has been as high as 2000 mm. During heavy and continuous rain fall, limestone is getting wet in spite of being covered by tarpaulin. Feeding of wet Limestone leads to choking problems at unloading hoppers, transfer chutes, screens crushers and Raw Bunkers. To remove these choke ups, additional Manpower has to be deployed at various locations.

Manual removal of chock-up in bunker is very risky from safety point of view due to chances of sudden flow of limestone. Further, due to high moisture content in the Lime Stone, there is frequent issue of Lime Stone Bunker Chock-up. Limestone having clay content absorbs water and takes longer time for drying.

Shalin
Mukesh Patel

Before grinding the Limestone in Ball Mill, moisture is removed by Hot Air Generator (HAG) in which Furnace Oil (FO) is used as a fuel. Consumption of FO is decided by the % moisture in Limestone. Due to higher moisture content in limestone during monsoon period, the specific FO consumption also increases.

Due to flow interruptions from raw bunker, output capacity of Mill also gets reduced leading to more running of mills & increase in auxiliary power consumption. The increase in power consumption is from 30 kWh / MT during dry period to 40 kWh / MT during monsoon period where as the FO consumption increases from 05 Ltr /MT in dry period to 07 Ltr / MT during monsoon period. This increases the auxiliary power and FO consumption cost by @ Rs.20 and Rs.70 respectively per MT of limestone. Considering lime stone consumption of 50000 MT during heavy rain fall period (month of Aug & September) of monsoon season, estimated additional cost due to wet Limestone may be around Rs. 45.00 Lakhs / Annum. {(20 Rs.+70 Rs.) x 50,000 MT)}. In addition to this, expenses of Rs. 5.00 Lakhs / annum also occur for manpower for covering of Limestone by tarpaulin and removal of choke ups.

If a covered shed for storing lime stone is constructed, cost saving of around Rs. 45.00 Lakhs per Annum on account of auxiliary power consumption & FO consumption and Rs. 5.00 Lakhs per annum on account of additional manpower for tarpaulin covering & chock-up removal can be done.

In view of the above, it was discussed & proposed to construct a permanent cover shed having dimensions of 100 Mtr (L) X 55 Mtr (W) X 20 Mtr (H) (clear height) for storage of about 50,000 MT lime stone during monsoon period.

APPROVALS & e-TENDERING

After internal approval, a consultant M/s Associated Engineers, Vadodara has been appointed for "Detailed Design Engineering and Consultancy Services for construction of Limestone shed" with total contract price of Rs 6,50,000/- +GST.

After preparation of detailed technical specifications, preliminary design with bid drawings and detailed cost estimate for PEB (Pre-engineering Building) Structure works as well as Civil & Electrical works for proposed Limestone Shed by M/s Associated Engineers, it was proposed to float separate open online e-tender inquiries with e-Reverse Auction through n-Procure portals by splitting and floating the following two separate tenders:-

Tender -1 :- "Turnkey contract for Design, Engineering, Supply & Procurement, and preparation of erection drawings, manufacture, fabrication, transportation, erection and alignment of the Pre - Engineered Building for Limestone shed"

Tender 2:- "Civil and electrical works for construction of Limestone Shed"

Total estimated cost for the construction of proposed limestone shed construction was Rs. 5,72,54,805+GST as tabulated as under:-

Shalin Mukesh Patel

Sr. No.	Description	Estimated Value
	PART-A	(Rs)
1	Estimated cost for Turnkey contract for Design, Engineering, Supply & Procurement, and preparation of erection drawings, manufacture, fabrication, transportation, erection and alignment of the Pre - Engineered Building for Limestone shed. (A)	4,56,96,750/-
2	Estimated GST@18% (B)	82,25,415/-
3	Total cost for Part A (Including GST) (1+2)	5,39,22,165/-
	PART-B	
4	Estimated cost for Civil works	1,03,04,195/-
5	Estimated cost for Electrical work (Including Supply and erection)	12,53,860/-
6	Total cost for Civil and Electrical work (excluding GST) (4+5)	1,15,58,055/-
7	Estimated GST@18%	20,80,450/-
8	Total cost for Part B (Including GST) (6+7)	1,36,38,505/-
9	Total Estimated Cost for PART A+ PART B (Excluding GST)	5,72,54,805/-
10	Total Estimated Cost for PART A+ PART B (Including 18 % GST) (3+8)	6,75,60,670/-

After due approval, open e-tenders were floated on n-procure website on 21/11/2020 along with publishing of press advertisement of the tender in "Gujarat Samachar" (All Gujarat editions) and "Times of India" (All India edition) to finalize parties for-

(a) Turnkey contract for Design, Engineering, Supply & Procurement, and preparation of erection drawings, manufacture, fabrication, transportation, erection and alignment of the Pre - Engineered Building for Limestone shed" .
(b) Civil & Electrical work for Construction of Limestone Storage Shed.

Last date for on line price bid submission & submission of physical / online documents including Tender Fee and EMD for both the tenders was kept as 11/12/2020 up to 17.30 hours

FOR PART-A : Turnkey contract for Design, Engineering, Supply & Procurement and preparation of erection drawings, manufacture, fabrication, transportation, erection and alignment of the Pre - Engineered Building for Limestone shed

The offers from following seven parties were received-

Sr. No.	Bidder's Name & Address
1	M/s Rishikesh Structural Solutions LLP, Vadodara
2	M/s Shree Prefab Steels Pvt Ltd, Ahmedabad
3	M/s Deepjyot Engineers Pvt Ltd, Rajkot
4	M/s Smith Structures India Pvt Ltd, Gandhidham
5	M/s Arcedges, Ahmedabad
6	M/s Devashish Infrastructure Pvt Ltd,Vadodara
7	M/s Pinax Steel Industries,Patna

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Technical pre-qualification bids of all the above 07 nos. of bidders were opened on 14.12.2020 and evaluated. Out of above seven parties, M/s Pinax Steel Industries (Patna) is not meeting the pre-qualification requirement of tender. Two parties, namely M/s Smith Structures India Pvt Ltd and M/s Arcedges who had taken deviation on terms of payment and were requested to withdraw the deviations have declined to withdraw their deviation on terms of payment.

Since L1 bidder is decided based on e-reverse auction process and for e-reverse auction process, all bidders should be at par & loading is not possible in e-reverse auction, it was decided to disqualify M/s Smith Structures India Pvt Ltd, Gandhidham & M/s Arcedges, Ahmedabad for further tender process.

After evaluation of pre-qualification bid, the following four parties have been qualified for further tender process.

1	M/s Rishikesh Structural Solutions LLP, Vadodara
2	M/s Shree Prefab Steels Pvt Ltd, Ahmedabad
3	M/s Deepjyot Engineers Pvt Ltd, Rajkot
4	M/s Devashish Infrastructure Pvt Ltd, Vadodara

The price bids of above 04 nos. were opened on 04/01/2021 in presence of finance representative.

A detailed price comparison statement is as under:-

TABLE-I

Sr. No.	Name of Agency	Amount	% above estimate	Position (Overall)
1	Total Estimate Amount (including GST) (Rs.) >>>	Rs. 5,39,22,165.00		Base
2	M/s Shree Prefab Steels Pvt Ltd, Ahmedabad	Rs. 6,15,20,373.80	14.09	L1
3	M/s Rishikesh Structural Solutions LLP, Vadodara	Rs. 6,26,58,000.00	16.20	L2
4	M/s Deepjyot Engineers Pvt Ltd, Rajkot	Rs.7,43,40,000.00	37.87	L3
5	M/s Devashish Infrastructure Pvt Ltd, Vadodara	Rs.8,92,37,500.00	65.49	L4

Based on tender condition, L1, L2 & L3 bidders were invited for participation in e-Reverse Auction on 04.01.2021, 11:15 am.

The final position of the L1 bidder, after e-reverse Auction process is as under:-

TABLE-II

Sr. No	Details	Amount (Rs.)
1	Estimated Amount (including GST)	5,39,22,165.00
2	Original Quoted L1 Price by M/s Shree Prefab Steels Pvt Ltd, Ahmedabad (including GST)	6,15,20,373.80
3	Final Offered Price after e-reverse auction by M/s Rishikesh Structural Solutions LLP, Vadodara (including GST)	5,81,45,373.80
4	Rebate offered during e-Reverse auction.(Original Quoted Price by L1 Bidder- Final offered Price)	33,75,000.00
5	% above on Estimate Amount	7.83%

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The final offered price after e-reverse auction by L1 bidder M/s Rishikesh Structural Solutions LLP, Vadodara is Rs. 5,81,45,373.80 (including GST) which is 7.83% above estimate.

The price quoted by L1 bidder is 7.83% above estimate and is reasonable considering following:-

(i) The estimated price is prepared considering minimum quantity of steel as 490 MT. However, actual design quantity may be higher than minimum quantity.
(ii) The estimated price is prepared considering steel price @ Rs.47,000/- per MT. However, the present steel price in market is around Rs.58,000/- per MT.

FOR PART-B : Civil & Electrical work for Construction of Limestone Storage Shed

The offer from following 08 (Eight) parties received -

Sr. No	Bidder's Name & Address
1	M/s Ramesh N. Patel, Surat
2	M/s Dhiraj Construction, Surat
3	M/s Shripad Conchem Pvt Ltd, Surat
4	M/s Shree Ganesh Construction, Surat
5	M/s Tirupati Narayanay, Surat
6	M/s Orient builders, Surat
7	M/s Meena Construction, Nani Naroli, Surat
8	M/s Monica Roofing, Ankleswar

The technical pre-qualification bids of all the above 08 nos. of bidders were opened on 14.12.2020, evaluated and all eight parties were qualified for further tender process.

The price bid of above 08 nos. were opened on 04/01/2021 in presence of finance representative.

A detail price comparison statement is as under:-

TABLE-III

Sr. No.	Name of Agency	Amount	% above/ Below estimate	Position (Overall)
1	Total Estimate Amount (including GST) (Rs.) >>>	Rs.1,36,38,505.00		Base
2	M/s Dhiraj Construction, Surat	Rs.1,26,63,351.80	-7.15	L1
3	M/s Meena Construction, Surat	Rs.1,40,65,390.10	+3.13	L2
4	M/s Tirupati Narayanay, Surat	Rs.1,43.20,430.14	+5.00	L3
5	M/s Shree Ganesh Construction, Surat	Rs.1,47,43,223.79	+8.10	L4
6	M/s Orient Builders,Surat	Rs.1,48,65,970.34	+9.00	L5
7	M/s Shripad Conchem Pvt Ltd, Surat	Rs.1,48,65,970.34	+9.00	L5
8	M/s Ramesh N. Patel, Surat	Rs.1,54,08,782.84	+12.98	L6
9	M/s Monica Roofing, Ankleswar	Rs.1,97,75,832.10	+45.00	L7

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Based on the tender condition, L1, L2, L3 & L4 bidders were invited for participation in e-Reverse Auction on 04.01.2021, 15:15 hours.

The final position of the L1 bidder, after e-reverse Auction process is as under :-

TABLE-IV

Sr. No	Details	Amount (Rs.)
1	Estimated Amount (including GST)	1,36,38,505.00
2	Original Quoted L1 Price by Dhiraj Construction, Surat (including GST)	1,26,63,351.80
3	Final Offered Price after e-reverse auction by M/s Meena Construction, Surat (including GST)	1,13,03,351.80
4	Rebate offered during e-Reverse auction.(Original Quoted Price by L1 Bidder- Final offered Price)	13,60,000
5	% below on Estimate Amount	(-)17.12

The final offered price by L1 bidder M/s Meena Construction, Surat through e-reverse auction is Rs. 1,13,03,351.80 (including GST) which is 17.12% below estimate.

The price quoted by L1 bidders seems to be competitive and reasonable considering that the party is already mobilized at site for the work of ARC Civil & Structure in plant.

Final offered price (including GST) offered by both the L1 bidders are as under:_

TABLE-V

The Final offered Price by M/s Rishikesh Structural Solutions LLP, Vadodara for "Turnkey contract for Design, Engineering, Supply & Procurement, and preparation of erection drawings, manufacture, fabrication, transportation, erection and alignment of the Pre - Engineered Building for Construction of Limestone shed"	Rs.5,81,45,373.80
The Final offered Price by M/s Meena Construction, Surat for "Civil & Electrical work for Construction of Limestone Storage Shed"	Rs. 1,13,03,351.80
Total cost of construction of Limestone storage shed (including GST)	Rs 6,94,48,725.60

Final offered price Rs 6,94,48,725.60 for both packages is 2.79% above estimated price of Rs. 6,75,60,670.00 for construction of Limestone Shed.

Above cost would be booked in Capital cost / booked under expense to meet environment norms.

Shalin Mukesh Patel

Put up for approval for

(i) Placement of work order to M/s Rishikesh Structural Solutions LLP, Vadodara for Rs.5,81,45,373.80 for "Turnkey contract for Design, Engineering, Supply & Procurement, and preparation of erection drawings, manufacture, fabrication, transportation, erection and alignment of the Pre - Engineered Building for Construction of Limestone shed.

(ii) Placement of work order to M/s Meena Construction, Surat for Rs. 1,13,03,351.80 for "Civil & Electrical work for Construction of Limestone Storage Shed.

Put-up for Approval of Board for Placement of work order for construction of Limestone Shed and to authorize Managing Director to do all the things and deeds required to give effect to the above propositions including but not limited to nominate and / or authorize Senior Executives of the Company, from time to time, to do and perform all or any of the acts, things and deeds that the Managing Director is hereby authorized to do and perform.

Shalin
Mukesh
Patel

O/c.

GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 112
Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261080 E-mail : genslpp@gipcl.com

Ref.No.:SLPP/Structure/Limestone shed/2021/ 668 Date: 15.03.2021

WORK ORDER

To,
M/s.Rishikesh Structural Solutions LLP,
37 Shivanshu Bungalows,
301 Indra Residency, Behind Axis Bank, Vasna Road
Vadodara, Gujarat -390007

Dear Sir,

SUB: Surat Lignite Power Plant - 4X125 MW, Unit # I to IV: "Turnkey contract for Design, Engineering, Supply & Procurement, and preparation of erection drawings, manufacture, fabrication, transportation, erection and alignment of the Pre - Engineered Building for Limestone shed".

REF: (1) Our online e-tender inquiry No.: SLPP/PEB/EPC/Limestone Shed/2020 (nProcure E-Tender ID: 435860) dated 21.11.2020.
(2) Your online offer for above e-tender inquiry along with letter dated 09.12.2020.
(3) Your final offer through nProcure e-Reverse Auction (ID: 14111) dated 04.01.2021.
(4) Our LOI No :- SLPP/Structure/Limestone shed/2021/500 dated 25.02.2021

With reference to the above, we are pleased to issue this "Work Order" to you (hereinafter called "Contractor") for "Turnkey contract for Design, Engineering, Supply & Procurement, and preparation of erection drawings, manufacture, fabrication, transportation, erection and alignment of the Pre - Engineered Building for Limestone shed" at GIPCL (SLPP), Village: Vastan, Taluka: Mangrol, Dist.: Surat, on the following terms and conditions:

01. BROAD SCOPE OF WORK

The scope of work includes the Turnkey contract for Design, Engineering, Supply & Procurement, preparation of erection drawings, manufacture, fabrication, transportation, erection and alignment of the Pre - Engineered Building for Limestone shed at Surat Lignite Power Plant, Village : Nani Naroli, Dist. Surat. The Work shall be executed in conformity with the relevant applicable latest Indian standard codes, rules/ordinances & regulations. The overall design & engineering of the plant shall be based on latest available technology.

NANINAROLI GIPCL SLPP

The scope of the Contractor shall be deemed to include all such items which although are not specifically mentioned in the Bid documents and/or in Contractor proposal but are needed to make the Lime Stone Storage Shed complete in all respects for its safe, reliable and trouble free use. Scope of Supply & Work includes all design, engineering, approval of design & drawings from GIPCL/consultant preparation and approval of fabrication drawings from GIPCL/Consultant, procurement, fabrication and manufacture & supply of materials, testing at manufacturers works, inspection, testing at works, packing and forwarding, transportation, receipt, unloading and storage at site (indoor and outdoor), security, permits, licenses, insurance, erection, alignments, testing and handing over of Pre - Engineered Building for Limestone storage shed with associated equipments, manpower, tools, tackles, equipments, consumable and materials on Turnkey basis at Surat Lignite Power Plant, Village : Nani Naroli, Dist. Surat.

The detailed Scope of Work in accordance with this specification is elaborated below:-

1) Design & engineering for Pre - Engineered Building for Limestone shed having size of minimum 100m x 55 m & 20m clear minimum height at end, considering all loads using applicable latest Indian standards codes, rules/ordinances & regulations applicable, preparation & submission of PEB design drawing using Latest licensed version of STAAD Pro software with 3DModel Concept in line with tender specification & specific requirements, detail scope of work and as per detailed technical specification. The scope of work also includes taking approval of OWNER/Consultants after incorporation of all observation & comments before execution. However, the total tonnage of Structure Steel of Pre-engineering structure of Limestone Storage Shed after detail design should not be less than **490.00 MT**. (Primary, Secondary, Fasteners, foundation bolts, cage ladders Roofing/Cladding and all other accessories)
2) Submission of following documents, drawings, data design, and engineering information to GIPCL or its authorized representative for review and approval in two hard copies and soft copy from time to time as per project schedule
   - GA drawings of the entire PEB of lime stone shed of given size and specifications including sheeting works, expansion join etc.
   - Design basis criteria, Report along with relevant standards
   - Design calculations and sheets
   - Detailed inputs and moments for design of civil foundation drawings.
   - Detailed shop fabrication drawings
   - Quality assurance plans and field quality plans
   - Test reports (for type, acceptance, and routine tests)
   - As – built drawings / documents and deviation list from good for construction
3) After approval of design drawings, scope of work shall be includes preparation of shop Drawings & submit to client/consultant for approval.
4) Bid drawing is only for primary reference only. Contractor shall carry out the work as per approved design methodology and approved design drawing. No claim is admissible, if any variation with bid drawings with approved design drawing.
5) Procurements of materials approved by OWNER/Consultant make in line with detailed specification and approved drawings.
6) Fabrication and manufacture of structural members of PEB structure at fabrication yard, inspection & testing of materials, Shop painting and coating of fabricated members, inspection & testing after fabrication and approval by OWNER/Consultant.
7) Supply of materials and fabricated structural members with proper packing & forwarding, loading, transportation from the manufacturer's works to the site including receipt, unloading and forwarding, storage, testing of all supplied material

including coordination with statutory authorities for all requisite approvals, proper and safe storage at site (indoor and outdoor).

8) The Contractor shall arrange deployment of qualified and suitable manpower and required necessary consumables and also Mobilization of all required manpower, materials, consumables, equipments, machinery, tools & tackles, testing teguments etc. complete at site to complete the erection and alignments and handing over of PEB for lime stone storage shed work in given schedule time.
9) Erection & alignments of PEB structure as per approved Drawing and detailed specification using suitable crane.
10) Supply of approved quality & make paint materials and final painting of PEB structure having thickness of members above 2.0 mm using approved method as per detailed technical specifications and as directed by Engineer in charge.
11) Galvanizing of PEB structural members and accessories made from steel strips structure up to 2.0 mm thick as per detailed technical specifications.
12) Providing & supplying of OWNER/Consultants approved make and quality Colour Galvalume "0.58 mm TCT sheet, Standing Seam type with SMP finish for roofing" and "0.50 mm TCT for cladding with SMP finish" and also approved quality and make for bolts/hooks for fixing of sheets.
13) Providing, supplying, erection, alignments and painting/coating of 02 nos Monkey/Cage ladder from ground level up to roof top.
14) Providing, supplying & erection of lifelines on roof top through DISH (Directorate of Industrial Safety & Health) approved vendors.
15) Providing, supplying and erection of Gutter & Rain water pipe as per detailed specification, approved drawings and as directed by Engineer in charge.
16) Supply of 8.8 grade foundation bolts of approved make with hot-deep galvanizing minimum 275 mm GSM as per approved design drawings & specifications.
17) All approvals, equipment, item and works which are not specifically mentioned in this document but are required for completion of work including fabrication, erection and alignment of PEB for Lime stone storage shed in every respect and for safe and efficient erection, alignments and guaranteed performance are included in the scope of this bid.
18) Insurance coverage during Execution up to the completion of the given scope of works to cater all risks related to awarded PEB works of Lime stone storage shed to indemnify the OWNER/employer.
19) Safety of manpower, plant and equipment shall be ensured by contractor during execution.
20) Proper housekeeping shall be maintained by the Contractor during site execution periods.
21) Submission of daily / monthly / yearly report to GIPCL
22) The structural stability certificate shall be provided along with completion certificate with signed and stamp of Govt. authorized Registered Structural Designer with the renewed license no.
23) Handing over of PEB structure with joint inspection of OWNER/Consultants.

For detailed scope of work, please refer clause no. 1 & 2 of special condition of contract.

All item and works which are not specifically mentioned in this document but are required for completion of work including supply, manufacturing, erection and alignment of PEB for Lime Stone Storage Shed in every respect and for safe and efficient erection & alignment and guaranteed performance are included in the scope of this bid. Detail scope of work shall be specified in special condition of contract.



02. CONTRACT PERIOD

Contract period for given scope of work shall be as under:-

The contract period for given scope of works shall be 07 (Seven) Months and 15 days from the date of LOI , which is as mentioned below with milestone.

A. Design, Engineering, preparation of GA drawings and submission of design report with supporting calculations & drawings with support reaction for civil foundation design including Anchor/foundation bolt layout shall be within 15 days from the date of issue of LOI/Work Order.
B. Submission of Fabrication/Erection drawings and erection methodology with bar chart schedule shall be within 15 days after approval of design and GA drawings.
C. Procurements & fabrication of structure materials within 2.5 month (Two & half Months from the date of approval of Fabrication/Erection drawings and erection methodology by GIPCL/Consultant.
D. Supply of all materials, erection, alignment and painting of Pre-fabricated Structure, Sheeting works (Roof & wall cladding) and all other associated activities for given complete scope of works including handing over of Lime Stone Shed to GIPCL shall be within 04 (Four) Months after releasing civil front (only civil foundation/Pedestal with foundation bolts) by GIPCL.

The Contractor should prepare a detailed activity wise detail time schedule jointly with the Engineer-in-Charge within 07 days of receipt of LOI/Work Order as per contract period with each milestone. The WORK shall be executed strictly as per the time schedule which includes the time required for mobilization, testing, rectification, if any, retesting and completion in all respects in accordance with Contract Document to the entire satisfaction of the Engineer-in-Charge.

The above detail time schedule (PERT/BAR network) shall be reviewed periodically and reports shall be submitted by the Contractor as directed by the Owner/Consultant.

In any case, contractor shall not be eligible to claim any compensation or reimbursement or price escalation which attributed to poor progress, poor quality work, rework, holding the work by GIPCL in case of decision or modification in proposed layout or due to any whatsoever reason.

Contractor shall not have any right for time extension or compensation or price escalation on account of delay due to late handing over of particular front by the GIPCL or any other reason whatsoever. However, GIPCL at its sole discretion may grant time extension only against the justifications submitted by the contractor in writing.

GIPCL reserve the right to short close the contract at any time by giving one month notice period without assigning any reason and without any compensation.

In order to complete the works timely as per approved completion schedule, contractor shall mobilize sufficient nos. of manpower & required material, resources, tools & tackles etc at locations simultaneously, including independent site supervisors.

03. LIQUIDATED DAMAGES FOR DELAY

3.1 In the event of the contractor failing to comply with the approved time schedule and if the contractor failing to complete the work within 04 months from date of handing over of civil foundations (Refer Contract

Period clause no. 2 (D), he shall be liable to pay as compensation, a sum equal to half percent (1/2%) of the "Contract Value" per week of delay as Liquidated Damages (LD). However, the above amount of LD will be subject to maximum of 10% of the Contract Value. The L.D from R.A bill will be deducted based on contract value. However at the end of contract, the L.D will be calculated based on the executed value as per final bill & excess amount of L.D deduction, if any, will be refunded back to the contractor.

3.2 The OWNER may without prejudice to any other method of recovery, deduct the amount of such damages from any money due or which may become due to the CONTRACTOR. In the event of extension of time being granted by the OWNER in writing for completion of work, this penalty clause will be applicable after the expiry of such extension period.

3.3 All sums payable by way of Liquidated Damages shall be considered as reasonable compensation to be applied to the use of the OWNER without reference to the actual loss or damage sustained and whether or not any damage has been sustained.

04. CONTRACT PRICE

The total contract price for the given scope of work shall be Rs. 4,92,75,740.50 (Rupees Four Crores Ninety Two Lakhs Seventy Five Thousand Seven Hundred Forty and Fifty Paisa only) as per SoR (enclosed as Section-C) excluding GST.

The lump sum offered price shall include all cost of designing, detailing, survey, site inspection, field data collection, preparation of shop drawings, fabrication drawings, erection drawings, construction drawings, as built drawings, submission of two sets of design reports (A4 size paper with spiral binding) & six sets of drawings (A0 size paper), all required approved materials, **manpower,** labour, supervision, testing, third party testing, consumables, safe storage of materials, **equipments**, machinery like Heavy duty crane, Hydra, Farana, Derrick, winch machine, JCB, **vehicles, consumables, Safety statutory compliance, mobilization** etc., wastage, experience applicators/operators, helpers, supervision, cost of safety supervisor, shifting, transportation, loading, unloading, equipment, all tools & tackles, standard approved MS scaffolding materials, approved safety "Zula", scaffolding arrangement at work site as per approval of GIPCL's Safety Officer, safety equipments & PPEs, site safety arrangements, legal & statutory compliances, Royalties, Rents, Stamp Duties, Central or State Government or Local body or Municipal Taxes or Duties (excluding GST as applicable GST shall be quoted separately in online price bid which will be paid extra accordingly) or any other duty / tax levied by the Central, State Government or other Public bodies, overheads, profit etc...and such other costs that are not specifically mentioned herein but will be incurred by the contractor for the satisfactory and timely completion of the given scope of works for PEB Lime Stone Storage Shed work.

The Lump sum offered price shall be deemed to include for everything mentioned in the specification, all leads & lifts, contractor's overheads & profits for due performance of the work under this contract and such other costs that are not specifically mentioned herein but will be incurred by the contractor for the satisfactory and timely completion of the work. The rates shall also include cost for mobilization / demobilization of manpower, equipments, materials, etc...

Any statutory changes in taxes & duties will be to GIPCL's account. In case of any reduction and/or removal of taxes, the same shall be passed on to GIPCL.

GIPCL - SLPD NANINAROLI

SECTION-C
PRICE SCHEDULE

Sr. No.	Item Description	Quantity	UNIT	Rate (In Rs.)	Amount (In Rs.)
1	Design, Engineering, Supply & Procurement, preparation of erection drawings, manufacture, fabrication, transportation, assembly, erection, tests/examinations, alignment, painting and also including Galvalume roof sheeting, wall cladding, trims and flashings, cage ladders, gutter, life line etc. with all the accessories as required for the completion of the Pre - Engineered Building for Limestone shed of 100 m x 55 m x 20 m height at eaves (approx.) etc. complete as per detailed scope of work, technical specification and as directed by engineer in charge.	1	Lump-sum	4,92,75,740.50 (Rupees Four Crores Ninety Two Lakhs Seventy Five Thousand Seven Hundred Forty and Fifty Paisa only)	4,92,75,740.50
	TOTAL PRICE :-				4,92,75,740.50
	GST @ 18%				88,69,633.30
	TOTAL PRICE WITH GST				5,81,45,373.80

(Rupees Five Crores Eighty One Lakhs Forty Five Thousand Three Hundred Seventy Three and Eighty Paisa only)

Note: - The rates/Price shall be inclusive of all Materials, labour cost, equipments, transportation, supervision, consumables, tools, tackles, all taxes & duties (excluding GST), profit & overheads etc complete for given scope of woks as per detailed specifications. Lump sum rate/price shall be firm for entire duration of contract period.

GIPCL - SLPP NANINAROLI

GUJARAT INDUSTRIES POWER COMPANY LTD.

Regd. Office: P.O. Ranoli – 391 350, Dist. Vadodara, Gujarat – INDIA
CIN: L99999GJ1985PLC007868

EXTRACT OF CERTIFIED TRUE COPY OF RESOLUTION PASSED BY THE BOARD OF DIRECTORS AT ITS 312TH MEETING HELD ON FRIDAY, THE 20TH MAY, 2022.

4875. APPROVAL FOR AWARD OF WORK FOR SUPPLY AND EXECUTION OF ESP FIELDS REPLACEMENT, DUMMY FIELD REVIVAL, UPGRADATION OF ESP PANEL/CONTROLLER/TRANSFORMER ALONG WITH OVERHAULING FOR COMPLIANCE OF NEW ENVIRONMENTAL NORMS.

"RESOLVED THAT in compliance with the new Emission Standards notified for the Thermal Power Plants by the Ministry of Environment & Forest and Climate Change (MoEF & CC), Government of India vide Gazette Notification No. S.O. 3305 (E) dated 07.12.2015, and as approved by the Board vide Resolution No. 4463 dated 03/04/2018, consent of the Board be and is hereby accorded for award of contract to M/s Helios Infra Pro Pvt. Ltd., Kolkata for Supply and Execution of Electro Static Precipitator (ESP) fields replacement of 12 fields, in all the four Units of Surat Lignite Power Plant along with the revival of two dummy fields in each Unit – 1 & 2, incorporation of eight 3-Phase transformer (TR) sets including upgradation of 36 panel / controller in all the four units, and overhauling works, etc. as per Tender of Rs. 25,51,18,000/- (Rupees Twenty-Five Crore Fifty-One Lakh Eighteen Thousand only) including 18% GST."

"FURTHER RESOLVED THAT Managing Director be and is hereby authorized to do all the things and deeds required to implement the above resolution including but not limited to nominate and / or authorize Senior Executives of the Company, from time to time, to do and perform all or any of the acts, things and deeds that the Managing Director is hereby authorized to do and perform."

CERTIFIED TRUE COPY
FOR GUJARAT INDUSTRIES POWER COMPANY LIMITED

Shalin
Mukesh Patel

CS SHALIN PATEL
COMPANY SECRETARY & COMPLIANCE OFFICER
MEM. NO. ACS 22687

DATE : 28/03/2024
PLACE: VADODARA

ITEM No : ____

GUJARAT INDUSTRIES POWER COMPANY LTD
(SURAT LIGNITE POWER PLANT)

NOTE TO THE BOARD OF DIRECTORS :
(For The meeting to be held on _____)

Subject: Approval for award of work for supply and execution of ESP fields replacement, dummy field revival, upgradation of ESP panel/Controller/transformer along with overhauling for compliance of new Environmental norms.

Background:

The Board in its 290th meeting held on 03.04.2018 vide Board resolution No. 4463 has accorded in principle approval for refurbishment of Electro Static Precipitator (ESP) fields along with repairs / replacement / strengthening of ESP casing / structure as may be required at an estimated cost of up to 71.51 crores over a period of three financial years commencing from FY 2018-19 to ensure compliance with the new Emission Standards notified for the Thermal Power Plants by Ministry of Environment & Forest and Climate Change (MoEF & CC), Government of India vide Gazette Notification No. S.O. 3305 (E) dated 07.12.2015.

The scope of work covered refurbishment of ESP fields (i.e. Replacement of all working internals) along with repair / replacement / strengthening of ESP casing / structure. Refurbishment also included installation of all internals in two dummy fields in each unit. It was also proposed to incorporate Three Phase Transformer in initial field of ESP.The total estimated expenditure for five year would be approximately Rs. 86.34 Crore and estimated expenditure for 3 years i.e. 2018-2021, as per work plan including all taxes and duties would be 71.51 crore. Detail plan submitted to meet the revised norms to the Board was as below:

5 Year Plan for ESP to meet revised norms	2016-17	2017-18	2018-19	2019-20	2020-21	In Lakh	Nos.
	6 Field Replacement	7 Field Replacement	9 Field Replacement + 2 Dummy Field Revival	16 Field Replacement + 2 Dummy Field Revival	12 Field Replacement + 4 Dummy Field Revival	Total Cost	Total Field
Phase-1	0	3	3	12	10	3935	28
Unit-1	0	2	1	7	4		
Unit-2	0	1	2	5	6		
Phase-2	6	4	8	8	6	3573	32
Unit-3	0	0	3	5	6		
Unit-4	6	4	5	3	0		
Total Cost	545	745	1277	2367	2574	7508	60
Contingency (@15 %)						1126	
Gross Expenditures						8634	

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New Environmental Norms as per Gazette Notification No. S.O. 3305 (E) dated 07.12.2015:

Parameter	Standard	Condition
Suspended Perticulate Matter (SPM)	100 mg/NM^3	Unit commissioned before 2003 **(Applicable to SLP1)**
Sulphur Dioxide (Unit < 500 MW)	600 mg/NM^3	
Sulphur Dioxide (Unit >= 500 MW)	200 mg/NM^3	
Oxides of nitrogen	600 mg/NM^3	
Suspended Perticulate Matter (SPM)	50 mg/NM^3	Unit commissioned during 2004-2016 **(Applicable to SLP2)**
Sulphur Dioxide (Unit < 500 MW)	600 mg/NM^3	
Sulphur Dioxide (Unit >= 500 MW)	200 mg/NM^3	
Oxides of nitrogen	300 mg/NM^3	
Suspended Perticulate Matter (SPM)	30 mg/NM^3	Unit Commsioned after 2016
Sulphur Dioxide	100 mg/NM^3	
Oxides of nitrogen	100 mg/NM^3	
As per notification, Power Plant shall comply the limits within two years from date of publication of said notification		

Later on, as per CPCB letter dated 11.12.2017 regarding compliance of new environmental norms, timeline prescribed for compliance for SLPP units was 31.12.2020. Further, as per latest Gazette notification G.S.R. 243 (E) dated 31.03.2021, timeline prescribed for compliance of revised environmental norms for non-retiring units applicable to SLPP units is **31.12.2024**. There is also provision of penalty of 5 Paisa per Unit (KWh) generation for non-compliance of norms till 180 days from 31.12.2024, 7.5 paisa per unit from 181-365 days of non-compliance and 10 paisa per unit beyond 365 days of non-compliance.

Compliance Status:

- **SO_2:** GIPCL-SLPP Plant was designed to capture SOx at the source by adding limestone as an additive (8-10%) of the fuel (Lignite). Accordingly, GIPCL-SLPP Units are complying with new environmental norms and the SOx generation remains well within limit of new environmental norms of 600 mg/NM^3. SO_2 emmission of SLPP units are in the range of **100-280** mg/NM^3 on monthly average basis.
- **NO_x:** Due to low combustion temperature (around 800 - 850 deg. C) and stage combustion in CFBC Boiler. It remains well below prescribed value (i.e. 450 mg/NM^3). Prescribed value as per notification of MOEF & CC dated 07.12.2015 was further revised to 450 mg/NM^3 from existing 300 mg/NM^3 as per MoEF notification G.S.R. 662 (E) dated 19.10.2020 for the Units commissioned during year 20004-2016 (applicable to SLP-2). NO_x emmission of SLPP units are in the range of **25-75** mg/NM^3 on monthly average basis.
- ESPs were designed for 150 mg / NM^3 SPM for SLP1 and 100 mg / NM^3 SPM for SLP2 inline with earlier norms where as new environment norms prescribed limit is 100 mg / NM^3 SPM for SLP1 & 50 mg / NM^3 SPM for SLP2.Hence to meet revised emission norms as per Gazette Notification, Refurbishment/Replacement of equipment controlling SPM (i.e. Electroststic Precipitators (ESP)) need to be done.

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Existing ESP Arrangement / Specification:

ESPs were installed in the boilers at SLPP to collect and remove the Suspended Particulate Matter (SPM) (mainly fly ash) from fluegas before emission. The fly ash content in lignite at SLPP remains around 8 to 10% and feeding of lime stone is around 8 to 10% too, every day each boiler generates around 400 to 450 MT of fly ash.

Arrangement / Specification of the existing ESP and the revised Emission Standard issued vide notification No. S.O. 3305 (E) dated 07.12.2015 by the Ministry of Environment, Forest and Climate Change (MOEF & CC), were as given below:

Unit No.	Nos. of Pass	Nos. of Field/Pass	Total Nos. of field	Earlier Norms	Equipment Design	Revised Norms as per MOEF &CC notification	
Unit-1	2(A & B)	6 +1(Last dummy)	12 + 2	150 SPM	150 SPM	100 SPM	Mg/ NM^3 Unit of Measur--ement
Unit-2	2(A & B)	6 +1(Last dummy)	12 + 2				
Unit-3	2(A & B)	7 +1(First dummy)	14 + 2	100 SPM	100 SPM	50 SPM	
Unit-4	2(A & B)	7 +1(First dummy)	14 + 2				
Total available field 52 + 8 dummy field							

To comply with the norms laid down by the MOEF & CC / pollution control board, it is necessary to maintain the SPM below the prescribed limits. Hence, it is imperative to ensure healthiness of ESP fields.

At SLPP the ESP internals and casing were badly corroded due to the presence of chlorine and sulfur in the lignite. Heavy air ingress through these casing leakages and subsequent erosion of the internals (i.e. Collecting Electrodes, Emmitting Electrodes, frame etc.) aggravated the deterioration of the ESP fields. Also, air ingresses through corroded casing ultimately resulated in reduction in power generation due to overloading of ID fans. Further ESP works in hostile atmosphere which is highly corrosive due to presence of sulpher and chlorine in the lignite. The damage mechanism is a continuous process at SLPP and every year we have to refurbish six to eight field as per condition assessment, damage projection and convenience.

Online monitoring is being carriedout by Central Pollution Control Board / Gujarat Pollution Control Board (CPCB/GPCB) of the emission levels of SPM along with SO_2 / NO_x (Sulfur dioxide / Nitorgen oxides) in the flue gas and on violation of prescribed norms, a communication to take corrective action also initiated from the Pollution Control authorities.

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Present Status:

The proposed work of ESP refurbishment had been undergoing since year 2016 inline with the five-year plan finalized to meet new Emission Standards notified. Since FY 2016-17 till date, total 40 fields out of total 60 fields in all the four units have been replaced along with the revival of total four dummy fields, two in each unit – 3 & 4 and repair/replacement of ESP casing/ducting/strucutures.Material equivalent to four fields are available at site through last Work order. The total cost of Rs. 38.27 Crore (out of 86.34 Crore) incurred up to financial year 2021-22 as summarized below:

Station	Year	2016 -17	17-18	18-19	19-20	20-21 + 21-22-Q1	21-22 Q2-Q4	Present Status	22-23/ 24-25
SLP1	Total	0	1	2	3	7	0	13	15
SLP2	Total	6	4	3	5	4	5	27	5
Station	Total	6	5	5	8	11	5	40	20
Cost	In Cr.	5.20	4.76	4.06	6.74	9.35	8.16	Total 38.27 Cr.	

Present Tender:

The present Tender is for the replacement of another 12 fields in all the four units along with the revival of two dummy fields in each unit – 1 & 2 and incorporation of eight 3-Phase) transformer (TR) sets including upgradation of 36 panel / controller in all the four units.

Open e-Tender for the present proposal for supply and execution of Electro Static Precipitator (ESP) Fields was published for: -

- Supply and Execution of Replacement of internals of twelve fields of Unit-1 to 4.
- Supply and Execution of 4 Dummy Field Revival of Unit-1 & 2 (two in each).
- Overhauling /servicing of all remaining fields of Unit 1 to 4.
- Incorporation of 8 Nos. 3-phase (TR) transformer up gradation of one field in each pass for Unit 1 to 4.
- Retrofitting / up gradation of controller & panel of 36 Field for Phase-1 & 2 (16+20).

The Tender was published on n-Procure and GIPCL websites on 24.01.2022 with the last date of submission as 14.02.2022 and simultaneous publication of Tender notice was published on 24.01.2022 for inviting bids in Times of India (for all India edition-colour print), Sandesh (for all Gujarat edition), Gujarat Samachar (Vadodara, Surat, Bhavnagar, Bhuj, Rajkot, Ahmedabad & Mumbai). To have better competition, the last date for submission of bids was extended up to 24.02.2022 & 07.03.2022 initially and further extended up to 16.03.2022 based on the requests received by emails from prospective bidders.

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All the prospective & known bidders were informed of the extension of time period for submission of bids by emails. Intimations of publishing of Tender notice and floating of Tender were also given to the following bidders:

(1) M/s General Electric (M/s G.E.), Vadodara
(2) M/s BHEL, Noida
(3) M/s Helios Infra Pro Limited, Kolkata
(4) M/s Soil Enviro Pvt. Ltd (M/s SEIPL), Kolkata
(5) M/s Enmas Limited (M/s EL), Chennai
(6) M/s Ideal Industries Incorporation Trichy
(7) M/s Unicon Engineers (M/s UE), Coimbatore
(8) M/s V.T. Corporation, Mumbai
(9) M/s Thermax, Pune
(10) M/s ISGEC, Noida
(11) M/s KC Kotrell, Gurugram

Following bidders have submitted bids along with EMD and Tender fee.

(1) M/s BHEL, Noida
(2) M/s Helios Infra Pro Limited, Kolkata
(3) M/s Thermax, Pune
(4) M/s Unicon Engineers (M/s UE), Coimbatore
(5) M/s ISGEC, Noida

Evaluation of Pre-Qualification bids / Techno-Commercial Bids: -

The Techno-Commercial bids were opened on 21.03.2022. Bids submitted by all the above five bidders were technically scrutinized and after detailed assessment and verification of documents, following four vendors were found qualified as details given in table-A and bid submitted by M/s. BHEL was not considered for deviation in supply schedule with repect to Tender requirements as details mentioned in table-B.

Table A:

Sr. No.	Qualified Vendor Detail
1	M/s Helios Infra Pro Private Limited, Kolkata (HIPL)
2	M/s Thermax, Pune
3	M/s Unicon Engineers (UE), Coimbatore
4	M/s ISGEC, Noida

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Table B:

Sr. No.	Name	Major Reason
1	M/s BHEL, Noida	M/s BHEL, Noida submitted deviation cum clarification regarding Scope of Work & Supply Schedule. Clarifications given to M/s BHEL, Noida from 22nd to 30th March-2022 and ask them to withdraw deviation taken. M/s BHEL, Noida withdrew deviation taken regarding scope of work, However M/s BHEL submitted revised supply schedule which is not inline with Tender specification. As per Tender first four field material need to be supplied within 8 weeks whereas M/s BHEL submitted schedule that supply shall commence from 3rd month and complete till 6th month. Requested M/s BHEL, Noida for submission of concurrence pertaining to withdrawal of deviation w.r.t. supply schedule many times. M/s BHEL, Noida failed to submit the aforesaid concurrence/confirmation regarding supply schedule besides repeated mail request. Hence M/s BHEL bid was not considered for further evaluation due to major deviation regarding supply schedule with respect to Tender specification.

Evaluation of Price Bids:

Online price bids of above four qualified bidders were opened on 12.04.2022 at 10:30 hrs and relative position of each bidder along with quoted value including 18% GST is as mentioned below: -

Rank.	Bidder Detail	Quoted value including GST tax
L1	M/s Helios Infra Pro Pvt.Ltd., Kolkata	Rs. 27.265 Cr.
L2	M/s Unicon Engineers, Coimbatore	Rs. 27.826 Cr.
L3	M/s ISGEC, Noida	Rs. 43.114 Cr.
L4	M/s Thermax, Pune	Rs. 50.311 Cr.

As per Tender condition, Reverse auction required to be conducted amongst (a) the lowest 50% eligible bidders (rounded to the next higher whole number) from the total bids received OR (b) Minimum three (03) lowest bidders, whichever is higher. Accordingly, three lowest bidders were invited for participation in e-Reverse Auction. As per relative position in price bid, L1 (M/s Helios Infra Pro Pvt.Ltd), L2 (M/s Unicon Engineers) & L3 (M/s ISGEC) were approved for participation in auction.

E-Reverse auction:

E–reverse auction was carried out on 12.04.2022 at 12:00 hrs between three qualified & eligible bidders and summary of the same is as given below:

- E-reverse auction floated on website "https://e-auction.nprocure.com" with Auction ID: S55-66326.
- E-reverse auction began with opening price Rs.27.265 Cr.
- Decrement value: Rs 1,00,000/-

- **Total No. of bids/ decrements receipt during e-Reverse auction: 54**
- **Actuai e-reverse auction duration: 09:30 HRS.**
- **Reverse Auction duration: - (1200 HRS to 2130 HRS on 12.04.2022)**
- **Net reduction during reverse auction: Rs.162.50 Lakh.**
- Summary of relative postion amongst bidder at the end of reverse auction:

Bidder Name	Postion	Value (Cr.)	Bid No.
M/s Helios Infra Pro Pvt.Ltd., Kolkata	L1	25.64	54th (Last bid)
M/s ISGEC, Noida		25.65	53rd
M/s Unicon Engineers, Coimbatore		26.08	33rd

Considering the final quoted value after e-reverse auction, M/s Helios Infra Pro Pvt.Ltd., Kolkata has emerged as the lowest bidder for Supply and Execution of ESP fields replacement, dummy field revival along with overhauling works and TR set & controller upgradation which amounts to Rs. Rs.25,64, 00,000 [Rs Twenty-Five Crores Sixty-four lakhs only] with 18% GST. There is reduction of Rs 162.50 lakh during e-reverse auction. Which is equivalent to 5.96 % below the original quoated bid before auction. Further negotiation was done with L1 bidder on 25.04.2022 on the quoted price. Subsequent to negotiation, L1 bidder vide their e-mail/letter dated 29.04.2022 stated the following major reasons for their final quoated value post auction:

- Escalations in dominant input cost factors (i.e. price of steel & its alloys and Copper).
- Recent escalation in fuel cost and their effect on transportation of material (freight), deputation of manpower & mobilization of resources.
- Escalation in minimum wages & future outstanding escalations during contract execution and its effect on hiring special skilled labour.
- Continuation of rising trend in recent week for input cost factors.
- Final discovered price is market driven, which is passed through well designed Tendering process including reverse auction there after.
- Being MSME organization, they are working with limited resourses/finance, reducing quote further may lead to losses & difficult to sustain.

Considering all above factors bidder offer further 0.5 % discount on post reverse auction price of Rs 25.64 Crore., the final offered price is Rs. 25,51,18,000/- (Rupees Twenty-Five Crore Fifty-One Lakh Eighteen Thousand only) including 18% GST, which was less Rs.12,82,000/- of Quoated value after auction. The total reduction is 175.32 Lakh, which is 6.43% lower with reference to the original quoated rate of L1 bidder before auction (Rs.27.265 Cr.)

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The initial estimation was Rs. 2178.16 Lakh based on prevailing market condition & primary assessment which was derived from various budgetary offers as well as past orders. Later on, it is reviewed and optimized to Rs 1886.30 Lakh considering escalations till preparation of estimation (i.e. August-September-2021) w.r.t. last order of 2019-20. Following factors were not considered in estimation namely.

1. Profit / service Charge
2. Working Capital cost
3. Administartive & Overhead Charges
4. Future escalation in input cost post estimation (like minimum wage rate, Steel/Copper rate, fuel rate etc.)

Further considering the increases in steel price / Copper price / fuel prices from estimation (i.e. August/September-2021) and present (i.e. April-2022) & impact of fluctiation of commodity prices due to geo political scneriao and firm contract price for 2 years, the final negotiated price offered by Ms Helios Infra Pro Pvt.Ltd., Kolkata appears to be reasonable.

Proposal:

As per D.O.P. (Delegation of Power), Board of Directors is authorized to approve this proposal for award of contract above 500 Lakh.

Put up for approval of the Board for award of contract to M/s Helios Infra Pro Pvt.Ltd., Kolkata for Supply and Execution of ESP fields replacement, dummy field revival along with overhauling works and TR set & controller upgradation with contract value of Rs. 25,51,18,000/- (Rupees Twenty-Five Crore Fifty-One Lakh Eighteen Thousand only) including 18% GST.

Further to authorize Managing Director to do all the things and deeds required to implement the above resolution including but not limited to nominate and / or authorize Senior Executives of the Company, from time to time, to do and perform all or any of the acts, things and deeds that the Managing Director is hereby authorized to do and perform.

Shalin Mukesh Patel

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GIPCL/SLPP/MECH/BLR/ESP/REPL.& REPAIR/2022-24

GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)
At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 112
Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261080 E-mail : gensipp@gipcl.com

WORK ORDER
BY MAIL / COURIER

Ref: GIPCL/SLPP/MECH/BLR/ESP/REPL.&REPAIR/2022-24/ 1819

Date: - 13.06.2022

To,
M/s. Helios Infra Pro PVT. LTD,
Ground Floor, 561, Block-N,
New Alipore, Kolkata-700053
West Bengal, India,

(Kind Attention: Shri Naresh Agraval / Nikunj Agraval)

Sub:- 4 X 125 MW Surat Lignite Power Plant; Unit # I to IV: Work order for **(1)** Supply and Execution of Replacement of internals of twelve ESP fields of Unit-1 to 4. **(2)** Supply and Execution of 4 Dummy ESP Field Revival of Unit-1 & 2. **(3)** Overhauling /servicing of all remaining ESP Fields of Unit 1 to 4 along with **(4)** Incorporation of 8 Nos. 3-phase (TR) ESP transformer up gradation of one field in each pass for Unit 1 to 4 & **(5)** Retrofitting / up gradation of ESP controller & panel of 36 Field for Phase-1 & 2 (16+20) during annual overhauling/single pass outage of Year-2022-24.

References:-

1. N-Procure Tender ID No. 489088 dtd 24.01.2022.
2. Submission of bid for tender ID 489088 and document submitted by you as a part of tender requirement.
3. E-Reverse Auction ID No. 66326 dtd 12.04.2022
4. Your mail regarding Discount dated 29.04.2022.

Dear Sir,

With reference to the above, we are pleased to place this work order on you for **(1)** Supply and Execution of Replacement of internals of twelve ESP fields of Unit-1 to 4. **(2)** Supply and Execution of 4 Dummy ESP Field Revival of Unit-1 & 2. **(3)** Overhauling /servicing of all remaining ESP Fields of Unit 1 to 4 along with **(4)** Incorporation of 8 Nos. 3-phase (TR) ESP

Registered Office & Vadodara Plant :
P.O. RANOLI, Dist. Vadodara 391 350 Gujarat - INDIA
AN IMS COMPANY
Phone : EPABX (0265) 2230182 / 2230028 / 2232768
Fax : 2230029 **E-mail :** genbaroda@gipcl.com
Website : www.gipcl.com
CIN No.: L99999GJ1985PLC007868

transformer up gradation of one field in each pass for Unit 1 to 4 & **(5)** Retrofitting / up gradation of ESP controller & panel of 36 Field for Phase-1 & 2 (16+20) during annual overhauling / single pass outage of Year-2022-24 at Surat Lignite Power plant, PO. Nani Naroli, Ta Mangrol, Dist Surat for two year.

SECTION-A

1. SCOPE OF WORK / AOH Period (Pre AOH – AOH-Post AOH):-

SCOPE OF WORK: Detail scope of work given in Annexure – A of Work Order

SPECIFICATION: ESP Description	Unit 1 & 2-PH-I, Make: BHEL	Unit 3 & 4-PH-II, Make: BHEL
Type of ESP	2xFAA-7x45(45) -126-135-2	2xFAA-7x45(45) -132-135-2
No of passes	2	2
Number of fields per pass	07 including 01 dummy field (Last)	08 including 01 dummy field (First)
Pitch between Two Collecting Electrode	300 mm	400 mm
No of rows for CE	43 per field each row 6 plates.	34 per field each row 6 plates
No of rows for EE	42 rows per field, each row 54 (18 x 3) electrodes.	33 rows per field, each row 54 (18 x 3) electrodes.
Total No. Of fields	12 in each unit,24 in Phase-1 excluding dummy Fields	14 in each unit,28 in Phase-2 excluding dummy Fields
Dummy Field Status	Last Dummy Fields are to be revived in Present Tender. Total Field to be revived: 4 Nos. with 400 mm pitch design.	First Dummy Fields were revived. Total Revived Field: 4 Nos.
Total No. of Working Field at Present	12 in each unit,24 in Phase-1 excluding dummy Fields	16 in each unit, 32 in Phase-1 including dummy Fields

Scope broadly covers in four parts Detail Scope of work given in Annexure – A of Work Order:

Clause No.	Work Description	UOM
Clause A1	Supply of internals for Replacement of all working internals- Phase-1	Lot for 9 Field
Clause A2	Supply of internals for Replacement of all working internals- Phase-2	Lot for 3 Field
Clause A3	Supply of all required spares for revival of dummy field including TR set and Panel with all mechanical/ electrical / electronic spares and their accessories in U1 & U2 (2 Field in each unit)	4Lot for 4 Field 1lot for 1 Field
Clause A4	Supply Additional Spare for Phase#1 & Phase # 2	Lot
Clause B1	Execution of erection and commissioning for Field Replacement of all working internals- Phase # 1	Per field
Clause B2	Execution of erection and commissioning for Field Replacement of all working internals- Phase # 2	Per field

Clause B3	Mobilization for Field Replacement	Per Mobilization Per Unit
Clause B4	Execution of installation of all required spares for revival of dummy field including TR set and Panel with all mechanical/ electrical/electronic spares and their accessories in U4 along with commissioning (Execution Including Mobilization of separate & additional resources)	Per Field
Clause B5	Execution for Inner Roof Replacement Work	Per Field
Clause C1	Prescribed minimum maintenance activity-Phase-1 during shutdown	Per unit
Clause C2	Prescribed minimum maintenance activity-Phase-2 during shutdown	Per unit
Clause C3	Mobilization Charges for Prescribed minimum maintenance activity & Clause wise Overhauling activity covered in Clause C4 / C5	Per Mobilization Per Unit
Clause C4	Overhauling/Repair / Replacement/ servicing-service clause wise for both phase-1 & 2	Service clause wise (25 Clauses)
Clause C5	Repair / Replacement / Overhauling for GD screen / Ridge Plate / Dust Guard including their supply for both phase-1 & 2	Service clause wise (10 Clauses)
Clause D1.1	Supply of 4 Nos. 3-Phase Transformer for each Phase;Phase-1	Clause wise
Clause D1.2	Erection & Commissioning of 4 Nos. 3-Phase Transformer for each Phase; Phase-1	Per Transformer
Clause D2.1	Supply of 4 Nos. 3-Phase Transformers for each Phase; Phase-2.	Clause wise
Clause D2.2	Erection & Commissioning of 4 Nos. 3-Phase Transformer for each Phase; Phase-2.	Per Transformer
Clause E1.1	Supply of Controller/Panel's Retrofitting/Up gradation; 16 Nos. For Phase-1.	Clause wise
Clause E1.2	Erection & Commissioning of Controller/Panel's Retrofitting/Up gradation; 16 Nos. For Phase-1.	Per Controller
Clause E2.1	Supply of Controller/Panel's Retrofitting/Up gradation; 20 Nos. For Phase-2.	Clause wise
Clause E2.2	Erection & Commissioning of Controller/Panel's Retrofitting/Up gradation 20 For Phase-2.	Per Controller

** In case partial field replacement instructed/required than billing will be governed by "Partial Field replacement billing schedule-Given in Annexure – A of Work Order:"

1. For detail scope of work refer **ANNEXURE-A** (Part of work order) attached herewith separately.
2. Quantum of job mentioned against all items in the price bid are indicative only & may vary as per site requirement & not to be construed as maximum or guaranteed quantity. The quantities shown in the price bid are approximate quantities for the contract period and they may vary as per job requirements.
3. All the miscellaneous activities pertaining to specific work to be executed for satisfactory performance is in the scope of contractor in final price schedule..

4. Servicing / Repairing of above ESP and its' auxiliaries - equipments shall be done as per best practices & checklist provided by GIPCL if required.
5. The scope also includes all works necessary, which are not specifically mentioned here but required, for effective execution of entire work in all respect within time bound period and are deemed to be included in the scope of the CONTRACTOR. All works shall conform to the specifications, safety norms, legal & statutory requirements.

WORK EXECUTION:-

Permit to work system (including the LOTO system, as applicable) in vogue shall be followed strictly and accordingly, workers of contractor shall start any work only after all the necessary isolations, issuance of PTW and clearance / instructions including daily safety briefing (Tool Box Talk) to the contractual workers.

2. CONTRACT PERIOD, MOBILIZATION PERIOD & TIME SCHEDULE FOR COMPLETION OF WORK:-

A. **Contract period: 24 Month** from the date of placement of WO.

B. **Time schedule** for completion of job is as below:

C. For Unit-1, 2, 3, 4: 25 to 30 Days for each unit tentatively depending on work planned. Work shall be done with complete unit shutdown.

D. Work may be carried out during single pass outage while unit remain in operation through other pass.

E. **Isolation philosophy:** During running Unit, ESP one pass will be isolated from flue gas side as Inlet gate & outlet of ESP with Electrical isolation for field replacement / Overhauling.

F. Single pass outage will be planned based on requirement and will convey the time period in advance.

G. In case of single pass outage both pass provided in single mobilization simultaneously with maximum 4 to 7days changeover/stabilization period.

H. For each unit from the date of handing over of work front from GIPCL.

I. The pre shut down activity period is excluded from this.

J. The basic considerations and the essence of the 'Contract' shall be the strict adherence to the time schedule for performing the specified 'Works'. The entire works (except the pre shutdown activity) as specified in scope of work shall be completed as above.

K. The work shall be carried out continuously round the clock with **2x12** hours shift working. Separate gangs shall be engaged in each shift without engaging the same manpower including site supervisor.

L. In case of delay in executing the contract by contractor, GIPCL reserves the right to engage another contractor and complete the balance job at the risk and cost of the contractor.

M. The said work shall be carried out in Unit 1,2,3 & 4 boiler during annual overhaul planned tentatively in the month of May to Sept . Here monsoon will be commenced from last week of June and last up to October 1st week. The average rain fall is

around **40 inch** and maximum up to **100 inch.** Partly shall plan their resources accordingly to execute the work in time bound period.

3. MOBILIZATION INTIMATION / PERIOD:

GIPCL shall provide **30 days** advance notice for shutdown period for Mobilization intimation and 15 days advance notice as final intimation for shutdown mobilization.

4. SUPPLY SCHEDULE:-

- All the material to be supplied under clause A1 need to supply: Minimum 4 Fields supply within in maximum 8 weeks from date of WO / LOI whichever is earlier. Remaining in line with GIPCL's intimation as and when basis.
- All the material to be supplied under clause A2 need to supply: All 3 Field supply within maximum 10 weeks from date of WO / LOI whichever is earlier.
- All the material to be supplied under clause A4 need to supply: All Part C Field supply within maximum 10 weeks from date of WO / LOI whichever is earlier. Remaining in line with GIPCL s intimation as and when basis.
- All the material to be supplied under clause D1.1 / D2.1 need to supply: within maximum 12 weeks from date of WO / LOI whichever is earlier.
- All the material to be supplied under clause E1.1 / E2.1 need to supply: within maximum 12 weeks from date of WO / LOI whichever is earlier.
- Billing break-up (BBU) required form A3 need to submit within 2 weeks from date of WO / LOI whichever is earlier for approval to GIPCL. Supply will be in line with GIPCL's intimation as and when basis.
- Advance will be release according to supply schedule. ABG need to submit accordingly.

SECTION-B

1. CONTRACT PERIOD:-

A. The contract will be for a period of 02 years from the date of actual commencement of operation of the contract as stated in the Work Order ('Contract Period').

B. GIPCL reserves the right to extend the Contract Period up to 3 months on the same rates and terms and conditions without any price escalation and entering into any new contract.

C. The said Contract Period can be extended if mutually agreed upon by both the parties up to one year and in such a case a revised work order shall be issued at the same rates and terms & condition or at negotiated rates acceptable by both parties i.e. the Company & the Contractor.

D. The basic considerations and the essence of the 'contract' shall be the strict adherence to the time schedule for performing the specified 'works'. Contractor has to mobilize required number of manpower along with necessary tools, tackles, PPEs.

E. The work shall be carried out continuously round the clock with 2x12 hours shift working. Separate gangs shall be engaged in each shift without engaging the same manpower.

F. In case of delay in executing the contract by contractor, GIPCL reserves the right to engage another contractor and complete the balance job at the risk and cost of the contractor.

2. PRICE SCHEDULE:-

Clause No.	Work Description	UOM
Clause A1	Supply of internals for Replacement of all working internals-Phase-1	Lot for 9 Field
Clause A2	Supply of internals for Replacement of all working internals- Phase-2	Lot for 3 Field
Clause A3	Supply of all required spares for revival of dummy field including TR set and Panel with all mechanical/ electrical/electronic spares and their accessories in U1 & U2 (2 Field in each unit)	Lot for 4 Field 1lot for 1 Field
Clause A4	Supply Additional Spare for Phase#1 & Phase # 2	Lot
Clause B1	Execution of erection and commissioning for Field Replacement of all working internals- Phase # 1	Per field
Clause B2	Execution of erection and commissioning for Field Replacement of all working internals- Phase # 2	Per field
Clause B3	Mobilization for Field Replacement	Per Mobilization Per Unit
Clause B4	Execution of installation of all required spares for revival of dummy field including TR set and Panel with all mechanical/ electrical/electronic spares and their accessories in U4 along with commissioning (Execution	Per Field

	Including Mobilization of separate & additional resources)	
Clause B5	Execution for Inner Roof Replacement Work	Per Field
Clause C1	Prescribed minimum maintenance activity-Phase-1 during shutdown	Per unit
Clause C2	Prescribed minimum maintenance activity-Phase-2 during shutdown	Per unit
Clause C3	Mobilization Charges for Prescribed minimum maintenance activity & Clause wise Overhauling activity covered in Clause C4	Per Mobilization Per Unit
Clause C4	Overhauling/Repair / Replacement/ servicing-service clause wise for both phase-1 & 2	Service clause wise (25 Clauses)
Clause C5	Repair / Replacement / Overhauling for GD screen / Ridge Plate / Dust Guard for both phase-1 & 2	Service clause wise (10 Clauses)
Clause D1.1	Supply of 4 No. 3-Phase Transformer for each Phase;Phase-1	Clause wise
Clause D1.2	Erection & Commissioning—of 4 No. 3-Phase Transformer for each Phase; Phase-1	Per Transformer
Clause D2.1	Supply of 4 No. 3-Phase Transformer for each Phase; Phase-2	Clause wise
Clause D2.2	Erection & Commissioning—of 4 No. 3-Phase Transformer for each Phase; Phase-2	Per Transformer
Clause E1.1	Supply of Controller/Panel's Retrofitting/Up gradation; 16 For Phase-1.	Clause wise
Clause E1.2	Erection & Commissioning of Controller/Panel's Retrofitting/Up gradation ; 16 For Phase-1	Per Controller
Clause E2.1	Supply of Controller/Panel's Retrofitting/Up gradation ; 20 For Phase-2	Clause wise
Clause E2.2	Erection & Commissioning of Controller/Panel's Retrofitting/Up gradation ; 20 For Phase-2	Per Controller

Combined Supply Schedule| A1 | A2 | A3 | A4 | Mechanical Supply Portion

NOMENCLATURE:

Clause No.	Work Description	UOM
Clause A1	Supply of internals for Replacement of all working internals-Phase-1	Lot for 9 Field
Clause A2	Supply of internals for Replacement of all working internals-Phase-2	Lot for 3 Field
Clause A3	Supply of all required spares for revival of dummy field including TR set and Panel with all mechanical/ electrical/electronic spares and their accessories in U1 & U2 (2 Field in each unit)	Lot for 4 Field 1lot for 1 Field
Clause A4	Supply Additional Spare for Phase#1 & Phase # 2	Lot

Serial No.	Item Code	Quantity Schedule A1	Quantity Schedule A2	Quantity Schedule A4 Part B	Quantity Schedule A4 Part C	Quantity Schedule A4 Part A	Quantity Schedule A3	Total	UOM
1	710802038	2322	612	258	204	Not Applicable	Not Applicable	3396	Nos.
2	710801032	3870	1020	430	340			5660	Nos.
3	710801039	9288	2448	1032	816			13584	Nos.
4.1	150105020	2322	612	258	204			3396	Nos.
4.2	150105019	4644	1224	516	408			6792	Nos.
5	710117001	20412	5346	2268	1782			29808	Nos.
6	710117002	12	4	1	1			18	Nos.
7	710801058	3870	1020	430	340			5660	Nos.
A	2710801044	Not Applicable				387		387	Nos.
B	2710801045					50		50	Nos.
C	2710801050					387		387	Nos.
D	2710802002					68		68	Nos.
E	710801034					129		129	Nos.
F	710801014					8		8	Nos.
Supply of Dummy field revival (Refer Scope of supply Clause A3 Mechanical + Electrical)							4 Field	4 Field	Set / lot

GIPCL/SLPP/MECH/BLR/ESP/REPL.& REPAIR /2022-24

Supply Portion Price Schedule format for mechanical Items-
Price bid (Mechanical Supply Portion + Supply of dummy field inc. Electrical accessories as mentioned in scope of work A3) for reference only :
Table Q1.1 & Table Q1.2

Sr. No.	Item Code	Total to be Supply (A)	UoM	Unit Rate Per UOM, (B)	Total (C = A x B)
1	710802038	3396	Nos.	16430.9	55799336.40
2	710801032	5660	Nos.	25.3	143198.00
3	710801039	13584	Nos.	42.1	571886.40
4.1	150105020	3396	Nos.	25.3	85918.80
4.2	150105019	6792	Nos.	25.3	171837.60
5	710117001	29808	Nos.	454.7	13553697.60
6	710117002	18	Nos.	10477.35	188592.30
7	710801058	5660	Nos.	42.1	238286.00
A(8)	2710801044	387	Nos.	2443.2	945518.40
B(9)	2710801045	50	Nos.	2560.1	128005.00
C(10)	2710801050	387	Nos.	1145.3	443231.10
D(11)	2710802002	68	Nos.	9768.7	664271.60
E(12)	710801034	129	Nos.	9768.7	1260162.30
F(13)	710801014	8	Nos.	5162.2	41297.60
14	Supply of Dummy field revival (Refer Scope of supply Clause A1.3 Mechanical + Electrical)	4	Nos. (BBU BASIS) Q1.2	19368949	77475794.40
TOTAL BEFORE GST (Supply Portion Mechanical (Q1.1+Q1.2)					**151711033.50**
18% GST					**27307986.03**
TOTAL WITH 18% GST					**179019019.53**

Section-2 Supply Portion-Electrical Supply Portion Break-up for mechanical Items- in Detail]
NOMENCLATURE:

Clause No.	Work Description	UOM
Clause D1.1	Supply of 4 No. 3-Phase Transformer for each Phase;Phase-1	Clause wise
Clause D2.1	Supply of 4 No. 3-Phase Transformer for each Phase; Phase-2	Clause wise
Clause E1.1	Supply of Controller/Panel's Retrofitting/Up gradation; 16 For Phase-1.	Clause wise
Clause E2.1	Supply of Controller/Panel's Retrofitting/Up gradation ; 20 For Phase-2	Clause wise

TABLE # Q2 Price Schedule (Electrical Supply Portion)

Serial No.	Item Description	Total Qty. to be Supply	UOM
I	Supply of 3 Phase HV Transformer (rectiformer) with suitable External Disconnecting Switch	8	No.
II	Field controller panel (TRCC Panel) along with latest Controller for 3PH TR set having local & remote control facility & ERM/CRM motor control	8	No.
III	PH-1 LT Module (Complete Switch fuse Unit) at LT MCC 400A Siemens make including supply of fixed contact at vertical dropper bus bar and incoming /outgoing copper bus bar assembly inside module, doors, outgoing assembly at Cable vault for connecting outgoing cable etc suitable for 3 phase supply	4	No.
IV	Ph-2 LT Module (Complete Switch fuse Unit) at LT MCC 400A C&S make including supply of fixed contact at vertical dropper bus bar and incoming /outgoing copper bus bar assembly inside module, doors, outgoing assembly at Cable vault for connecting outgoing cable etc suitable for 3 phase supply	4	Set
V	Armoured LT PVC insulated FRLS Cable between LT MCC & controller panel and between Controller panel & rectifier transformer - for PH-1 as per list attahced	4	Set
VI	Armoured LT PVC insulated FRLS Cable between LT MCC & controller panel and between Controller panel & rectifier transformer - for PH-2 as per list attahced	4	Set
VII	Supply of Various networking items for Remote controlling from Main plant control room (with extisitng controlling ESP system) along with change in software and hardwares, cabling.	4	Set
VIII	Supply of necessary earthing material (25X3 GI flat and 50X6 GI flat), channels, angles, cable trays etc.	2	Lot
IX	One no. Additional spare item like controller/contactor / fuse / relay / electronic cards / switches / meter / display / communication cables / resistors / LED / switch fuse unit / auxiliary relays / diodes / protective devices etc. of each type / make / rating which is part of new field control panel for 3ph transformer	2	Set
X	Supply of Field controller panel (TRCC Panel) along with latest Controller	36	No.

	having local & remote control facility & ERM/CRM motor control for control of existing 2 phase transformer (replacement of existing TRCC)		
XI	One no. Additional spare item like contactor / fuse / relay / electronic cards / switches / meter / display / communication cables / resistors / LED / switch fuse unit / auxiliary relays / diodes / protective devices etc. of each type / make / rating which is part of supplied field control panels for 2 phase transformers	4	No.
XII	Fire proof ceiling type -A under the control panels in sq. meter	90	Sqm
XIII	Supply & installation of entire Remote Monitoring and control system to control each and every ESP field from main plant control room in Phase-II which includes supply of latest version computer with LED monitor (23 inch), required software / hardware and networking components, network switches of D-Link make, other components of reputed make, cabling (for all 8 fields x 2 Pass x 2 Unit (Unit 3 &4), communication cable is 4P x 0.5 twisted pair armoured screened copper cable (tentative communication cable requirement 400 + 400 + 250 = 1050M plus communication cable required in between panels 4 x 10M = 40M hence total requirement is 1090M) of reputed make	1	No.

Supply Portion Price Schedule format for Electrical Items | TABLE # Q2

Sr. No.	Item Description	Total to be Supply (Qty) (A)	UoM	Unit Rate Per UOM (B)	Total (C = A x B)
I	Elect Item I	8	NO	581068.50	4648548.00
II	Elect Item II	8	NO	368431.10	2947448.80
III	Elect Item III	4	NO	75791.50	303166.00
IV	Elect Item IV	4	Set	70738.80	282955.20
V	Elect Item V	4	Set	477486.70	1909946.80
VI	Elect Item VI	4	Set	477486.70	1909946.80
VII	Elect Item VII	4	Set	254996.40	1019985.60
VIII	Elect Item VIII	2	Lot	130361.40	260722.80
IX	Elect Item IX	2	Set	558667.80	1117335.60
X	Elect Item X	36	NO	368262.70	13257457.20
XI	Elect Item XI	4	NO	417106.10	1668424.40
XII	Elect Item XII	90	Sqm	1515.80	136422.00
XIII	Elect Item XIII	1	NO	293753.00	293753.00
TOTAL BEFORE GST (Supply Portion Electrical (Q2)					**29756112.20**
18% GST					**5356100.20**
TOTAL WITH 18% GST					**35112212.40**

Section-3 Execution Portion-Mechanical + Electrical | TABLE # Q3

NOMENCLATURE:

Clause No.	Work Description	UOM
Clause B1	Execution of erection and commissioning for Field Replacement of all working internals- Phase # 1	Per field
Clause B2	Execution of erection and commissioning for Field Replacement of all working internals- Phase # 2	Per field
Clause B3	Mobilization for Field Replacement	Per Mobilization Per Unit
Clause B4	Execution of installation of all required spares for revival of dummy field including TR set and Panel with all mechanical/ electrical/electronic spares and their accessories in U4 along with commissioning (Execution Including Mobilization of separate & additional resources)	Per Field
Clause B5	Execution for Inner Roof Replacement Work	Per Field
Clause C1	Prescribed minimum maintenance activity-Phase-1 during shutdown	Per unit
Clause C2	Prescribed minimum maintenance activity-Phase-2 during shutdown	Per unit
Clause C3	Mobilization Charges for Prescribed minimum maintenance activity & Clause wise Overhauling activity covered in Clause C4	Per Mobilization Per Unit
Clause C4	Overhauling/Repair / Replacement/ servicing-service clause wise for both phase-1 & 2	Service clause wise (25 Clauses)
Clause C5	Repair / Replacement / Overhauling for GD screen / Ridge Plate / Dust Guard for both phase-1 & 2	Service clause wise (10 Clauses)
Clause D1.2	Erection & Commissioning-of 4 No. 3-Phase Transformer for each Phase; Phase-1	Per Transformer
Clause D2.2	Erection & Commissioning-of 4 No. 3-Phase Transformer for each Phase; Phase-2	Per Transformer
Clause E1.2	Erection & Commissioning of Controller/Panel's Retrofitting/Up gradation ; 16 For Phase-1	Per Controller
Clause E2.2	Erection & Commissioning of Controller/Panel's Retrofitting/Up gradation ; 20 For Phase-2	Per Controller

Section-3 Execution Portion-Mechanical + Electrical Break-up | TABLE # Q3

Clause. No.	UOM	Qty.	Part	Unit Rate Per UOM (B)	Total (C = A x B)	Part wise Total
Clause B1	Per field	9	Part 2 Execution Mechanical Portion	1071692.30	9645230.70	Part 2 Execution Mechanical Portion 32016571.20
Clause B2	Per field	3		966791.20	2900373.60	
Clause B3	Per mobilization per unit	5		682329.70	3411648.50	
Clause B4	per Field	4		2408945.10	9635780.40	
Clause B5	per Field	12		131362.60	1576351.20	
Clause C1	Per Unit	3		147428.60	442285.80	
Clause C2	per Unit	3		113406.60	340219.80	
Clause C3	Per mobilization per unit	6		141758.20	850549.20	
Clause C4	Service clause wise	1		2272857.20	2272857.20	
Clause C5		1		941274.80	941274.80	
Clause D1.2	Per Transformer	4	Part 2 Execution Electrical Portion	154989.00	619956.00	Part 2 Execution Electrical Portion 2717978.00
Clause D2.2		4		151208.80	604835.20	
Clause E1.2	Per Controller	16		40164.80	642636.80	
Clause E2.2		20		42527.50	850550.00	
TOTAL BEFORE GST (Execution Portion- Mech + Ele Q3)						34734549.20
18% GST						6252218.86
TOTAL WITH 18% GST						40986768.06

SUMMARY

Sr. No	Table Reference	Description	Total amount without GST (Rs.)	Total amount with GST (Rs.)
1	Table Q1.1	Section-1 Supply Portion-Mechanical	151711033.50	179019019.55
2	Table Q1.2	Section-1 Supply Portion for Dummy field revival		
3	Table Q2	Section-2 Supply Portion Electrical	29756112.20	35112212.40
4	Table Q3	Section-3 Execution Portion (Mechanical + Electrical	34734549.20	40986768.06
Total Amount			**216201694.90**	**255118000.00**
Total amount without GST : Rs. Twenty One Crore Sixty Two Lakh One Thousand Six Hundred Ninety Four & Ninety Paisa Only				
Total amount with GST : Rs. Twenty Five Crore Fifty One Lakh Eighteen Thousand Only				

GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 110

Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261073/74 E-mail : genslpp@gipcl.com

Date: 09.07.2016

SLPP/MECH/BLR/ESP/REPL. & REPAIR /2016-17/EXECUTION/3566

Work Order

By courier

To,

M/s Helios Infrapro Private Limited

Ground Floor,561, Block "N" New Alipore,

Kolkata-700053,West Bengal, India.

(Kind Attention : Shri Nikunj Agrawal)

Subject : 4 x 125 MW Surat Lignite Power Plant : Work order for Execution of replacement of (1) all internals for 4 fields (U4-5B,6B,7B,8B) & (2) partial replacement for another 4 fields(U4-4B,5A,6A & 7A) ESP pass-B & pass-A of Unit 4 and overhauling of all remaining 44 fields of Phase-I & II (Unit- 1, 2 , 3 & 4) boilers.

Reference:

1. E- Tender No 1600015 (SLPP/MECH/BLR/ESP/REPL. & REPAIR /2016-17) dated 19.04.2016.
2. Your Pre-Qualification bid, Techno commercial bid without price bid & price bid through GIPCL e-tender portal against e-tender No. 1600015.
3. MOM regarding Price Negotiation meeting dated 02.07.2016
4. SLPP/MECH/BLR/ESP/REPL. & REPAIR /2016-17/SUPPLY/3561

Registered Office & Vadodara Plant :
P.O. Petrochemical, Dist. Vadodara 391 346 Gujarat - INDIA

AN IMS COMPANY

Phone : EPABX (0265) 2232768/2213/0159
Fax : 2231207 **E-mail :** genbaroda@gipcl.com

Website : www.gipcl.com

Part-1:Price schedule

Execution of replacement of 4 fields in Unit 4-Pass B-Field No. 5B, 6B, 7B & 8B & partial replacement of other 4 fields 5A, 6A, 7A & 4B (Refer scope of work part 1)

Sr. No.	Item Description	UOM	Quantity	Unit Price	Total Cost
1	CLAUSE B1 :Lump sum price for mobilization of manpower tools & tackles, special tools, hoist ,crane of suitable size/boom length/radius as per plant/ESP layout for U4	time	1	2970000	2970000
2	CLAUSE B2:Lump sum price for replacement of internals per Field as mention in scope of work. Numbers of fields to ber eplace Unit4 Pass B 5B,6B,7B,8B	No. of Field	4	866250	3465000
3	CLAUSE B3: External casing plate replacement/Repair/patch up around Field to be replaced, excluding scaffolding /insulation work	MT	8	34650	277200
4	CLAUSE B4: Removal of 16 rows of CE (1 row = 6CEs) from ESP U4 field 5A and replace it with new CEs. It includes maximum 800 Emitting electrode replacements if required.	SET	1	990000	990000
5	CLAUSE B5:Removal of 9 rows of CE (1 row = 6CEs) from ESP U4 field 6A and replace it with new CEs. It includes maximum 450 Emitting electrode replacements if required.	SET	1	693000	693000
6	CLAUSE B6:Removal of 13 rows of CE (1 row = 6CEs) from ESP U4 field 7A and replace it with new CEs. It includes maximum 700 Emitting electrode replacements if required.	SET	1	891000	891000
7	CLAUSE B7A:Removal of 70 CEs (out of affected from 21 rows) of ESP U4 field 4B.	SET	1	297000	297000
8	CLAUSE B7B: Installation of 70 CEs (out of affected from 21 rows) of ESP U4 field 4B. It includes maximum 700 Emitting electrode replacements if required.	SET	1	990000	990000
9	Sub total			1,05,73,200	
10	Service tax @ prevailing rate 15%			15,85,980	
10	Final Price including Service tax			1,21,59,180	

Part-2:Price schedule

Overhauling of remaining 44 ESP fields of Unit 1, 2, 3 & 4.(refer scope of work part 2)					
Sr. No.	Item Description	UOM	Quantity	Unit Price	Total Cost
1	Clause C1:Lump sum price for mobilization of manpower tools & tackles, special tools for 12/14 field servicing Unit 1,2,3 (U1/U2-12 fields,U3-14 fields)	time	3	132000	396000
2	Clause C2:lump sum price for complete Water washing and cleaning of total internals U1,2,3 &4	No.	4	49500	198000
3	Clause C3: Replacement of new Emitting electrode	No.	600	495	297000
4	Clause C4:Whole field realignment from top support insulator	No.	6	59400	356400
5	Clause C5: Replacement of shock pad	No.	600	206	123748
6	Clause C6:Replacement of shock bar or Shock bar angle	No.	60	1320	79200
7	Clause C7: Repair of shock bar guide rapping or non rapping side	No.	4	9900	39600
8	Clause C8:Replacement/Re-erection detached of shock bar guide rapping or non rapping side	No.	4	9900	39600
9	Clause C9:Scapholding in per M3	M3	1000	198	198000
10	Clause C10: Replacement of clamp bolt	No.	800	49.50	39600
11	Clause C11:Replacement of screen tubes (Shaft insulator)	No.	10	1980	19800
12	Clause C12: Replacement of screen tubes (Support insulator)	No.	10	1980	19800
13	Clause C13:Replacement of plain / fixed bearing of horizontal shafts & thrust bearing, support bearing of vertical shaft	No.	280	707	197998
14	Clause C14: Replacement of emitting rapping horizontal shafts or vertical shafts or Gas distribution or collecting rapping shaft complete assembly including plain bearing/fixed bearing inner& outer arms. (If partially replaced proportional length to be consider)	No.	5	45540	227700
15	Clause C15: Identify defected hammers (inner arms & outer arms) and repair/replace of hammers.	Set	500	198	99000

7.07.16

Sr. No.	Item Description	UOM	Quantity	Unit Price	Total Cost
16	Clause C16.Identify defected outer and repair/replace of outer arm	No.	300	198	59400
17	Clause C17:Identify defect and Servicing/replacement of Pinion wheel set arrangement	Set	8	2475	19800
18	Clause C18:Removing (through MHD) of full length Collecting electrode from the fields individuals	No.	50	1485	74250
19	Clause C19:Removing (through roof) of full length Collecting electrodes row (1 row = 6 CE) from the fields Including Removal of FE	No.	8	2970	23760
20	Clause C20:Installation (through roof) of full length Collecting electrodes row (1 row = 6 CE) from the fields including installation of FE	Row	5	2970	14850
21	Clause C21:Collecting electrode straightening	No.	110	450	49499
22	Clause C22:Replacement of E.E. sub frame 36 x 54 square tube (1 No. = 3.2 M Long)	No.	30	1980	59400
23	Clause C23:Identify defect and replacement of Support insulator	No.	5	29700	148500
24	Clause C24:Identify defect and replacement of shaft insulator	No.	5	29700	148500
25	Clause C25:U clamp correction of CE (only re-clamping)	No.	300	198	59400
26	Sub total				29,88,805.60
27	Service tax @ prevailing rate 15%				04,48,320.84
27	Final Price including Service tax				34,37,126.44

Summary :

Part	Description	Price with T & D
1	Execution of replacement of 4 fields in Unit 4-Pass B-Field No. 5B, 6B, 7B & 8B & partial replacement of other 4 fields 5A, 6A, 7A & 8B	1,21,59,180
2	Overhauling of remaining 44 ESP fields of Unit 1, 2, 3 & 4.	34,37,126.44
Total		1,55,96,306.44

In wards : Rupees One Crore Fifty Five Lakh Ninety Six Thousand Three Hundred Six and Forty Four Paisa

(viii) **GIPCL** is an ISO 9001, ISO 14001, OHSAS 18001 & ISO 50001:2011 (EnMS) certified company, and GIPCL gives extreme importance to maintain these global standards. Contractor shall be required to observe these standards while working with GIPCL. Contractor should ensure that his workmen work in accordance with them.

(ix) **SUNDAY/HOLIDAY SHIFT/NIGHT SHIFT**

The contractor shall depute required manpower in Sunday/holidays and in Night Shifts consisting of supervisor, technicians, helpers, other requisite manpower, etc. for requirement of job.

This is not intended to be a detail work order as such all terms and condition included in the tender specification TENDER NO. SLPP/MECH/BLR/ESP/REPL. & REPAIR /2016-17" and subsequent letters/mails will be treated as the part of contract.

We are forwarding this work order in duplicate. You are requested to sign the duplicate copy of work order as a token of your acceptance and forward the same with us

Thanking you,

Yours faithfully,
For Gujarat Industries Power Company Limited.

N.K.Singh
(Additional General Manager-SLPP)

CC: AGM, Finance

GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)
At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 110
Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261073/74 E-mail : genslpp@gipcl.com

Date: 16.06.2017

SLPP/MECH/BLR/ESP/REPL. & REPAIR /2016-17/EXECUTION/3566/Amendment1/2648

Work Order

By courier

To,
M/s Helios Infrapro Private Limited

Ground Floor,561, Block "N" New Alipore,

Kolkata-700053,West Bengal, India.

(Kind Attention : Shri Nikunj Agrawal)

Subject: 4 x 125 MW Surat Lignite Power Plant: Amendment Work order for Execution of replacement of (1) all internals for 1 field (U2-5B) & (2) overhauling of all remaining 11 fields of Unit- 2 boiler.

Reference:

1. E- Tender No 1600015 (SLPP/MECH/BLR/ESP/REPL. & REPAIR /2016-17) dated 19.04.2016.
2. Your Pre-Qualification bid, Techno commercial bid without price bid & price bid through GIPCL e-tender portal against e-tender No. 1600015.
3. MOM regarding Price Negotiation meeting dated 02.07.2016

Registered Office & Vadodara Plant :
P.O. Petrochemical, Dist. Vadodara 391 346 Gujarat - INDIA

AN IMS COMPANY

Phone : EPABX (0265) 2232768/2213/0159
Fax : 2231207 **E-mail :** genbaroda@gipcl.com

Website : www.gipcl.com
CIN No.: L99999GJ1985PLC007868

4. SLPP/MECH/BLR/ESP/REPL. & REPAIR /2016-17/EXECUTION/3566 Dated 09.07.16
   "4 x 125 MW Surat Lignite Power Plant : Work order for Execution of replacement of (1) all internals for 4 fields (U4-5B,6B,7B,8B) & (2) partial replacement for another 4 fields(U4- 4B,5A,6A & 7A) ESP pass-B & pass-A of Unit 4 and overhauling of all remaining 44 fields of Phase-I & II (Unit- 1, 2 , 3 & 4) boilers."
5. SLPP/MECH/BLR/ESP/REPL. & REPAIR /2016-17/SUPPLY/3567 Dated 09.07.16
   "Subject : 4 x 125 MW Surat Lignite Power Plant : Work order of Supply of spares for (1) all internals for 4 fields (U4-5B,6B,7B,8B) & (2) partial replacement for another 4 fields(U4- 4B,5A,6A & 7A) ESP pass-B & pass-A of Unit 4."
6. Our request mail to M/s Helios on date 24.05.2017
7. Reply mail from M/s Helios on date 25.05.2017

Dear sir,

With reference to the subject and reference above, GIPCL is pleased to issue "4 x 125 MW Surat Lignite Power Plant: Amendment Work order for Execution of replacement of (1) all internals for 1 field (U2-5B) & (2) overhauling of all remaining 11 fields of Unit- 2 boiler". All other terms and condition including guarantee clause will remain as per work order mention under reference 3 & 4.

SCOPE OF WORK

ESP Description	Unit 3 & 4-PH-II, Make: BHEL	Unit 1 & 2-PH-I, Make: BHEL
Type of ESP	2xFAA-7x45(45) -132-135-2	2xFAA-7x45(45) -126-135-2
No of passes	2	2
Number of fields per pass	08 including 01 dummy field (First)	07 including 01 dummy field (Last)
Pitch between Two Collecting Electrode	400 mm	300 mm
No of rows for CE	34 per field each row 6 plates	43 per field each row 6 plates.
No of rows for EE	33 rows per field, each row 54(18x3) electrodes.	42 rows per field, each row 54(18x3) electrodes.
Total No. Of fields	14 in each unit,28 in Phase-2	12 in each unit,14 in Phase-1

Scope broadly covers in two parts:

(2) **Part 1:** Execution of work for replacement all internals for 1 field (U2-5B) of Unit- 2 boiler

(3) **Part 2:** Overhauling of remaining **11 ESP fields** of Unit 2, service clause wise

Part 1

Execution of replacement of 4 fields in Unit 4-Pass B-Field No. 5,6,7,8

Clause No. B1: Mobilization of Resources for Unit 1, 2 & 3 ESP Overhauling Work:

Mobilize the necessary manpower (include Skilled/unskilled workmen , Execution supervisors, Store in charge, site in charge) along with necessary tools ,tackles etc to carry out the ESP field replacement work in unit 4 separately . It include mobilization of all materials (except specified free issue materials by GIPCL), consumables, Special tools for ESP Field Alignment (i.e. J Bolts , Support insulator nut spanner, Emitting Electrode stretching tool....) equipments, tools & tackles, machineries(includes Welding machine, Gas cutting set , Cutting torch, Heating torch) safety parts/sub part of manpower & materials, standard industrial safety PPEs. It also consisting skilled supervisor, skilled technicians, skilled riggers, Welders, gas cutters and helper in sufficient quantity to carry out the work. Mobilizations of resources also include telescopic crane (of suitable load bearing capacity, suitable boom length and suitable radius as per site requirement), crane, pulley block, Winch machine. The route for travelling of crane within plant should be predefined and corrective action to clear the path will be carry out before mobilization of plant.

Clause No. B2: ESP FIELD INTERNALS REPLACEMENT WORK :

Fields to be replaced: Unit 2 Fields 5B

The work should be divided in two activities

(1) Pre-Shut down activities including (1a) Pre execution/shutdown visit

(2) Shut down activity

(1) Pre-Shut down activities including Pre execution/shutdown visit:

It broadly includes arrangement for replacement of collecting electrode of ESP fields. For this you have to remove the top shed of ESP, removal of top cover plate

of ESP penthouse. Making and arrangement for material handling i.e. making derrick for iifting oid plates and inserting new plates on ESP top roof, shifting of new collecting electrode (CE) to place, from where vertical shifting of bundle of CE initiated. Shifting of CE from ground to ESP roof plate, stacking CE to roof properly. Fixing of U clamp on CE plates. It also includes preparation of CE straightening frame for verification if required. Contractor must send their site representative / site in-charge /site supervisor for Pre execution/shutdown site visit before shutdown to assist preparation work at site.

(2) Shutdown activity:

- Ensure the mechanical and electrical isolation of ESP fields.
- Open all manhole door and earth all the fields
- Carry out the water washing as per **Clause No. C2**
- Cut the ESP top roof plate (both layer) as per requirement of appropriate size.
- Remove T/R set, ERM gearbox if required.
- Check and verify the pitch of affected collecting electrode suspension frame (hook to hook).If found defected, rectify the same.
- Remove all emitting electrode from the fields and shift removed EE to scrap yard immediately.
- Remove all collecting electrode from the fields and shift removed CE to scrap yard.
- Inspect the shock bar against any defect and replace/repair it if required.
- Inspect the shock bar guide against any defect and replace/repair it if required.
- Erect scaffolding in both the hopper of field for approaching the shock bar, shock bar guide. If required for replacement of internals.. (Scaffolding material will be in the scope of contractor) Size of hopper is 6.8m x 6.6m at top and 0.4m x 0.4m of conical shape and height is 8 m.
- Check collecting shaft, inner arms, outer arms plain bearing & fix bearing, Repair/ replace the damaged parts if required (in case of replacement ,it will be carried out against separate execution/billing Clause No. C3 to C25 whichever applicable.)

- Check emitting electrode horizontal shaft (at two elevation), inner arms, outer arms plain bearing & fix bearing, Repair/ replace the damaged parts if required (in case of replacement required, it will carried out against separate execution/billing Clause No. C3 to C25 whichever applicable.
- Check emitting electrode vertical shaft arrangement, pin wheel-1, pin wheel-2 ,bearings, thrust bearings, screen tube , shaft insulator , grip coupling ,carbon bush, Repair/ replace the damaged parts if required (in case of replacement required, it will carried out against separate execution /Clause No. C3 to C25 whichever applicable.)
- Check the emitting electrode frame/sub frame & repair the damages if any
- Put the new collecting plates in position. Fit the shock bar. Fix the collecting plates in each row in U clamp. Tighten the fasteners between shock bar & collecting plate by Torque wrench and tag weld its nut with bolts.
- Fix the new emitting electrode only by stretching tool.
- After complete replacement of emitting electrode & collecting plate do alignment of field for gap. Ensure that the gap between collecting plate and emitting electrode for each row should be equal to critical dimension allowed by Go/No go gauge.
- Clean the shaft insulators & support insulators. Replace; if required. The lifting tools required for support insulator removal is in Contractor's scope.
- Joint inspection carried out for checking gap between CE & EE at all points of field. If defect observed regarding critical gap between CE & EE, will be rectifying immediately. External casing plate inspection also need to be carry out by contractor and if external casing plate found defective for air ingress it need to be attend immediately against billing/service clause B3.
- Contractor shall cover combine guarantee for material of spare supplied, execution of field erection & commissioning all eight fields.
- Close all manhole door opened earlier.
- Normalize the ESP top roof.
- Complete weld the welding joint by E 7018 A1 grade electrode.
- Welding is to be done by certified welders or approved welder by GIPCL only.

- As verification of quality of welding, DP test need to be carry out for 5% of length of weld randomly. If found unsatisfactory corrective action need to be taken by contractor. DP kit to be arrange by contractor
- Replacement of manhole door's rope of CRM, ERM, penthouse & hopper.
- Remove the foreign material accumulated in hopper after rectification work
- Clean the area. Remove the scrap & transfer it to scrap yard as per instructions of E-I/C.
- Assist for Field test charge & Ensure that all the fields develop required Voltage & ampere after repair/replacement / rectification.
- Normalize the top shed of ESP.
- Following spares compulsory need to be replaced in field replacement.

SR No.	Description of parts	GIPCL Mat. Code	For 1 field
1	Collecting electrodes Carton steel (1.25 mm Carton steel)	710802038	258
2	U clamp	710801032	430
3	Washer plate 8 x 70 x 100	710801039	1032
4	Emitting Electrodes	710117001	2268
5	Screen tube Support Insulator	710801038	4
6	Support Insulator	710117002	4

- <u>Electrical scope of work</u>

<u>For Geared motors:</u> Ensure that

- Correct lubrication oil level is maintained (level to be 50% of the viewing glass).
- Cables are terminated properly with crimped lugs and glands and terminal box covers are watertight.
- Cable armor and two earth points of motor are earthed.
- Winding resistance across RY, YB and BR phase is equal.
- IR value of windings should be above 2Mohm.

- Trail run of geared motor systems.

For Transformer unit and Electronic controllers:

- Check IR value of transformer from primary to earth. It should not be less than 50Mohm at 30 degree centigrade.
- Check IR value of transformer from secondary to the earth after removing connection to positive bushing and shorting positive and negative terminals. It should not be less than 750Mohm at 30 degree centigrade.
- Reconnect earth connections to the positive bushing.
- Check oil level and top up if found necessary. Oil will be provided by GIPCL.
- Check condition of silica gel in breather and reactivate if found necessary.
- Carry out no load test by applying rated primary voltage. Note the no load current. This voltage should be applied for at least 10 minutes in which time the input current should not rise nor there be any unusual noise.

For disconnecting switches: Ensure that

- Insulators are healthy, clean and rigid.
- HV bus terminals and earth connections inside are tight.
- Operation of moving blade with HV and earth contacts is smooth and proper.
- Copper cable between moving arm and insulator head is properly connected. Each disconnecting switch is provided with danger plate and two external earth connections to earth grid.

For Insulator housings: Ensure that

- Insulators are clean, healthy and rigid.
- Copper tubes are straight, tight and have sufficient electrical clearance with respect to earth and other components such as thermostats and heating elements etc.
- Heating elements are properly fixed.
- Earthling is proper.
- Each insulator housing is provided with danger plate and two external earth connections to earth grid.
- Insulator housing is insulated with thermal insulation.

For high voltage bus ducts: Ensure that

- Flanged joints are provided with gaskets and earthing cables.
- Copper tubes are straight and tightly connected.

For Heating Elements: Ensure that

- IR value is above 2Mohm (use 500V megger only).
- Continuity is ascertained.

- Cables are terminated properly with crimped lugs and glands and terminal box cover is watertight.
- Cable armor and earth points are connected to the earth.

For Thermostats: Ensure that

- Cables are terminated properly.
- Cover is watertight.
- Setting of thermostat is 120 degree centigrade for hopper heaters and 140 degree centigrade for support insulator heaters.
- Contact continuity is verified.

- Supply of electrical spares if any shall be in GIPCL scope.
- Removal of all electrical items related to field. Contractor to remove all such items safely without any damage to these items.
- Checking and testing of electrical items as per above check list
- Re-installation of all electrical items related to field after proper checking. Contractor to re-install all such items safely without any damage to these items.
- Supervision of all electrical activities under Contractor's qualified & well experienced electrical supervisor
- GIPCL will provide single phase power supply points in ESP area as per requirement. All temporary light fittings required for proper illumination in ESP field replacement activity are in Contractor's scope. Contractor to provide list of locations where there is a requirement of power supply at-least 15 days in advance before commencement of work.

Part 2

As per Work order under reference 4

3. Contract Price:

Total Contract price for carrying out the work as mentioned in scope of work is Rs. 29,91, 018.87 (Rupees Twenty Nine Lakh Ninety One Thousand Eighteen and Eighty Seven Paisa) Including service tax at prevailing rate of 15 %. The price break up is below.

- Payment shall be made as per actual execution of work.

Part-1:Price schedule

Sr. No.	Item Description	UOM	Quantity	Discounted Unit rate	Final Landed Cost
1	CLAUSE B1 :Lump sum price for mobilization of manpower tools & tackles, special tools, hoist ,crane of suitable size/boom length/radius as per plant/ESP layout for U4	time	0.25	2970000	742500
2	CLAUSE B2:Lump sum price for replacement of internals per Field as mention in scope of work. Numbers of fields to be replace Unit1 Pass B 5B,	No. of Field	1	866250	866250
	TOTAL				16,08,750
	15 % SERVICE TAX				2,41,312
	FINAL TOTAL				18,50,063

Part-2: Price schedule

Title of a file is Part 2: Overhauling of remaining 11 ESP fields of Unit 2

Sr. No.	Item Description	UOM	Quantity	Discounted Unit Price	Final Landed Cost
1	Clause C1:Lump sum price for mobilization manpower tools & tackles, special tools fo 12/14 field servicing Unit 1,2,3 (U1/U2-12 fields,U3-14 fields)	time	0	131999.997	0
2	Clause C2:lump sum price for complete Water washing and cleaning of total internals U1,2,3 &4	No.	1	49500	49500
3	Clause C3: Replacement of new Emitting electrode	No.	150	495	74250
4	Clause C4:Whole field realignment from to support insulator	No.	3	59400	178200
5	Clause C5: Replacement of shock pad	No.	150	206	30900
6	Clause C6:Replacement of shock bar or Shock bar angle	No.	20	1320	26400
7	Clause C7: Repair of shock bar guide rappi or non rapping side	No.	2	9900	19800
8	Clause C8:Replacement/Re-erection detached of shock bar guide rapping or no rapping side	No.	2	9900	19800

17.06.17

Sr. No.	Item Description	UOM	Quantity	Discounted Unit Price	Final Landed Cost
9	Clause C9:Scapholding in per M3	M3	250	198	49500
10	Clause C10: Replacement of clamp bolt	No.	200	49.5	9900
11	Clause C11:Replacement of screen tubes (Shaft insulator)	No.	2	1980	3960
12	Clause C12: Replacement of screen tubes (Support insulator)	No.	2	1980	3960
13	Clause C13:Replacement of plain / fixed bearing of horizontal shafts & thrust bearing, support bearing of vertical shaft	No.	80	707.1372	56570.976
14	Clause C14:Replacement of emitting rapping horizontal shafts or vertical shafts or Gas distribution or collecting rapping shaft complete assembly including plain bearing/fixed bearing inner& outer arms. (If partially replaced proportional length to be consider)	No.	3	45540	136620
15	Clause C15:Identify defected hammers (inner arms & outer arms) and repair/replace of hammers.	Set	125	198	24750
16	Clause C16:Identify defected outer and repair/replace of outer arm	No.	80	198	15840
17	Clause C17:Identify defect and Servicing/replacement of Pinion wheel set arrangement	Set	2	2475	4950
18	Clause C18:Removing (through MHD) of full length Collecting electrode from the fields individuals	No.	25	1485	37125
19	Clause C19:Removing (through roof) of full length Collecting electrodes row (1 row = 6 CE) from the fields including Removal of EE	No.	3	2970	8910
20	Clause C20:Installation (through roof) of full length Collecting electrodes row (1 row = 6 CE) from the fields including installation of EE	Row	2	2970	5940
21	Clause C21:Collecting electrode straightening	No.	30	449.9946	13500
22	Clause C22:Replacement of F.E. sub frame 36 x 54 square tube (1 No. = 3.2 M Long)	No.	10	1980	19800
23	Clause C23:identify defect and replacement of Support insulator	No.	3	29700	89100
24	Clause C24:identify defect and replacement of shaft insulator	No.	3	29700	89100

Sr. No.	Item Description	UOM	Quantity	Discounted Unit Price	Final Landed Cost
25	Clause C25:U clamp correction of CE (only re-clamping)	No.	120	198	23760
Net Total					992136
15% service tax					148820
Final Value					1140956

Summary Sheet:

Cost Description	Amount Including Tax & Duties
1. Execution- Part 1: Field Replacement	18,50,062.50
2. Execution- Part 2: Field Overhauling	11,40,956.37
Final Total	29,91,018.87

4. CONTRACT PERIOD , MOBILIZATION PERIOD & TIME SCHEDULE FOR COMPLITION OF WORK

- **Contract period:** 6 months from the date of placement of order **Time schedule** for completion of job is as below:
- For Unit-2– **25 calendar Days**

For each unit from the date of handing over of work front from GIPCL.

- The pre shut down activity period is excluded from this.
- The basic considerations and the essence of the 'Contract' shall be the strict adherence to the time schedule for performing the specified 'Works'. The entire works (except the pre shutdown activity) as specified in scope of work shall be completed as above.
- The work shall be carried out continuously round the clock with **2x12** hours shift working. Separate gangs shall be engaged in each shift without engaging the same manpower including site supervisor.
- In case of delay in executing the contract by contractor, GIPCL reserves the right to engage another contractor and complete the balance job at the risk and cost of the contractor.
- The said work shall be carried out in Unit 1,2,3 & 4 boiler during annual overhaul planned tentatively in the month of July to December-16

17.06.17

MOBILIZATION INTIMATION/PERIOD:

- Intimation will be given through mail& call regarding date of shutdown before 15 days for each unit. The pre shutdown activity, pre shutdown/execution site visit and mobilization of resources should be initiated based on date of intimation

This Work Order is not exhaustive and all the General / Technical and commercial conditions in the GIPCL Tender ID: 160015, subsequent minutes of meeting, techno-commercial discussions, clarifications, negotiations, and communications shall form a part of this contract. In case of conflict arises between the contents of this work order and tender specification, the work order prevails on the later except scope of work

We are forwarding this Work Order in duplicate. You are requested to return the duplicatecopy of this Work Order duly signed and stamped as a token of your acceptance.

Thanking you,

Yours faithfully,
For Gujarat Industries Power Company Limited.

N.K.Singh
(Additional General Manager-SLPP)

GUJARAT INDUSTRIES POWER COMPANY LIMITED
(SURAT LIGNITE POWER PLANT)
At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 110
Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261073/74 E-mail : genslpp@gipcl.com

Date: 09.07.2016

SLPP/MECH/BLR/ESP/REPL. & REPAIR /2016-17/SUPPLY/3567

Work Order
By courier

To,
M/s Helios Infrapro Private Limited

Ground Floor,561, Block "N"New Alipore,

Kolkata-700053,West Bengal, India.

(Kind Attention . Shri Nikunj Agrawal)

Subject : 4 x 125 MW Surat Lignite Power Plant : Work order of Supply of spares for (1) all internals for 4 fields (U4-5B,6B,7B,8B) & (2) partial replacement for another 4 fields(U4-4B,5A,6A & 7A) ESP pass-B & pass-A of Unit 4.

Reference :

1. E- Tender No 1600015 (SLPP/MECH/BLR/ESP/REPL. & REPAIR /2016-17) dated 19.04.2016.
2. Your Pre-Qualification bid, Techno commercial bid without price bid & price bid through GIPCL e-tender portal against e-tender No. 1600015.
3. MOM regarding Price Negotiation meeting dated 02.07.2016
4. SLPP/MECH/BLR/ESP/REPL. & REPAIR /2016-17/EXECUTION/ 3566

Registered Office & Vadodara Plant :
P.O. Petrochemical, Dist. Vadodara 391 346 Gujarat - INDIA
AN IMS COMPANY
Phone : EPABX (0265) 2232768/2213/0159
Fax : 2231207 E-mail : genbaroda@gipcl.com
Website : www.gipcl.com

Dear sir,

With reference to the subject and reference above, GIPCL is pleased to issue Work order of supply for (1) all internals for 4 fields (U4-5B,6B,7B,8B) & (2) partial replacement for another 4 fields(U4-4B,5A,6A & 7A) ESP pass-B & pass-A of Unit 4.

1. SCOPE OF WORK :

ESP Description	Unit 3 & 4-PH-II, Make: BHEL	Unit 1 & 2-PH-I, Make: BHEL
Type of ESP	2xFAA-7x45(45) -132-135-2	2xFAA-7x45(45) -126-135-2
No of passes	2	2
Number of fields per pass	08 including 01 dummy field (First)	07 including 01 dummy field (Last)
Pitch between Two Collecting Electrode	400 mm	300 mm
No of rows for CE	34 per field each row 6 plates	43 per field each row 6 plates.
No of rows for EE	33 rows per field, each row 54(18x3) electrodes.	42 rows per field, each row 54(18x3) electrodes.
Total No. Of fields	14 in each unit,28 in Phase-2	12 in each unit,14 in Phase-1

Scope broadly covers:

Supply of spares against replacement of (1) all internals for 4 fields (U4-5B, 6B, 7B, 8B) & (2) partial replacement for another 4 fields (U4-4B, 5A, 6A & 7A) ESP pass-B & pass-A of Unit 4 as per Table-1.

⇨ Supply of spare to GIPCL site: Vendor will supply all internals spare parts required for replacement of the field as mentioned in the Table given below. Supply of spare also including transportation from their works to GIPCL as per standard transportation procedure.

Total Contract price for carrying out the work as mentioned in scope of work is Rs. 2,03,10,783 (Rs. Two Crore Three Lakh Ten Thousand Seven Hundred Eighty Three only) including all taxes, duties and including all other charges. The price break up is below.

Sr. No.	Item Description	UOM	Quantity	Unit Price	Final Cost
1	Collecting electrodes Carton steel 1.25 mm Carton steel	No	1221	12127.5	14807677.5
2	U clamp	No	2500	20.79	51975
3	Washer plate 8 x 70 x 100	No	3000	39.6	118800
4	Emitting Electrodes 2.7mm dia Mat. 904l	No	10560	413.82	4369939.2
5	Screen tube Support Insulator	No	16	2960.1	47361.6
6	Support Insulator	No	18	28710	516780
7	Sub Total	(Including All cost excluding sales tax)			19912533.3
8	Sales Tax @ 2 %				398250.67
9	Final total cost				20310783

In words: Rs. Two Crore Three Lakh Ten Thousand Seven Hundred Eighty Three only.

3. TERMS OF PAYMENT

A. **Conditions of Payment:**

The contractor shall raise the invoice in duplicate every month in respect of the work performed or completed during the month along with the documents as hereinafter provided. On receipt of the invoice complete in all respects and with all the said documents, the payment in respect of the same shall be made within 21 days of such receipt of a complete invoice as per the following terms of payment.

- 80 % payment within 21 days from the date of receipt of material & invoice along with test certificate of material on pro rata basis.
- Balance 20% will be released within 30 days after completion of installation work in each unit. Payment shall be made unit wise.

B. **Validity and Uniformity of Rates**

The rates shall be valid for a period of one year or the Contract Period and shall remain unaltered during the entire Contract Period.

Item rates quoted shall include cost of all consumables,(except free issue materials by GIPCL) labour, supervision, tools & tackles, transport and any such other costs excluding statutory taxes as are not specifically mentioned herein, but may be incurred by the contractor for the satisfactory and timely completion of the work

C. **Deductions from Contract Price**

This is not intended to be a detail work order as such all terms and condition included in the tender specification TENDER NO. SLPP/MECH/BLR/ESP/REPL. & REPAIR /2016-17" and subsequent letters/mails will be treated as the part of contract.

We are forwarding this work order in duplicate. You are requested to sign the duplicate copy of work order as a token of your acceptance and forward the same with us

Thanking you,

Yours faithfully,
For Gujarat Industries Power Company Limited.

N.K. Singh
(Additional General Manager-SLPP)

CC: AGM, Finance

GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

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Date: 16.06.2017

SLPP/MECH/BLR/ESP/REPL. & REPAIR /2016-17/SUPPLY/3567/Amendment1

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(Kind Attention : Shri Nikunj Agrawal)

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AN IMS COMPANY

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CIN No.: L99999GJ1985PLC007868

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7. Reply mail from M/s Helios on date 25.05.2017

Dear sir,

With reference to the subject and reference above, GIPCL is pleased to issue "4 x 125 MW Surat Lignite Power Plant: Amendment Work order for Execution of replacement of all internals for 1 field (U2-5B). All other terms and condition including guarantee clause will remain as per work order mention under reference 3 & 4.

1. SCOPE OF WORK

ESP Description	Unit 3 & 4-PH-II, Make: BHEL	Unit 1 & 2-PH-I, Make: BHEL
Type of ESP	2xFAA-7x45(45) -132-135-2	2xFAA-7x45(45) -126-135-2
No of passes	2	2
Number of fields per pass	08 including 01 dummy field (First)	07 including 01 dummy field (Last)
Pitch between Two Collecting Electrode	400 mm	300 mm
No of rows for CE	34 per field each row 6 plates	43 per field each row 6 plates.
No of rows for EE	33 rows per field, each row 54(18x3) electrodes.	42 rows per field, each row 54(18x3) electrodes.
Total No. Of fields	14 in each unit,28 in Phase-2	12 in each unit,14 in Phase-1

Scope broadly covers

Supply for replacement all internals for 1 field (U2-5B) of Unit- 2 boiler as per Table-1.

- ⇨ Supply of spare to GIPCL site: Vendor will supply all internals spare parts required for replacement of the field as mentioned in the Table given below. Supply of spare also including transportation from their works to GIPCL as per standard transportation procedure.
- ⇨ inspections need to carry out by GIPCL engineer in charge at contractor's workshop. Contractor need to intimate progress of production at each stage of process to GIPCL. GIPCL will depute their representative for inspection.
- ⇨ Joint Inspection at site after receipt of spare: Joint inspection of spares received at site will be carried out and if any parts observed defective will be rejected.
- ⇨ Post execution of complete contract all remaining item which are not erected may shift to storage area as instructed by GIPCL Engineer in charge.
- ⇨ Internal's shifting within plant: Will be in the scope of contractor.
- ⇨ **Table-1:**

SR No.	Description of parts	GIPCL Mat. Code	Quantity to be supply by vendor
1	Collecting electrodes Carton steel 1.25 mm thick	710802038	270
2	U clamp	710801032	460
3	Washer plate 8 x 70 x 100	710801039	1100
4	Emitting Electrodes	710117001	2400
5	Screen tube Support Insulator	710801038	0
6	Support Insulator	710117002	4

Technical Specification

Item Sr. No. 1 :

Technical specifications for collecting electrode FOR ESP TYPE FAA-6 X 45 (45)-132-135-2:

(1) Nominal height of Collecting electrode plate : 13.5 meter

(2) Nominal width of collecting electrode : 750 mm

(3) Material: Carton steel Grade-"A"

(4) Collecting electrode thickness: 1.25 mm

(5) Cross sectional shape for collecting electrode:



SECTION–NN

Item Sr. No. 4:

Technical specification for Emitting electrode FOR ESP TYPE FAA-6 X 45 (45)-132-135-2:

(1) Emitting electrode type: Spiral with hooks

(2) Emitting electrode size: 2.7 mm dia.

(3) Emitting electrode material: 904 L

Item Sr. No. 2: U clamp: Standard accessories as suitable with supplied Collecting Electrode

Item Sr. No. 3: Length: 100MM, Width 70MM, Thk: 6MM, Centre Hole: 15.5 mm

2. Contract Price:

Total Contract price for carrying out the work as mentioned in scope of work is Rs. 45,24,267 (Rs. Forty Five Lakh Twenty four Thousand Two Hundred Sixty Seven only) including all taxes, duties and including all other charges. The price break up is below.

Sr. No.	Item Description	UOM	Quantity	Unit Price	Final Cost
1	Collecting electrodes Carton steel 1.25 mm Carton steel	No	270	12127.5	3274425
2	U clamp	No	460	20.79	9563.40
3	Washer plate 8 x 70 x 100	No	1100	39.6	43560
4	Emitting Electrodes 2.7mm dia Mat. 904L	No	2400	413.82	993168
5	Screen tube Support Insulator	No	0	2960.1	0
6	Support Insulator	No	4	28710	114840
7	Sub Total	(Including All cost excluding sales tax)			4435556
8	Sales Tax @ 2 %				88711
9	Final total cost				4524267

MOBILIZATION INTIMATION/PERIOD:

- Contractor need to supply all spare well in advance by 21 days before date of shutdown Unit-2.

This Work Order is not exhaustive and all the General / Technical and commercial conditions in the GIPCL Tender ID: 160015, subsequent minutes of meeting, techno-commercial discussions, clarifications, negotiations, and communications shall form a part of this contract. In case of conflict arises between the contents of this work order and tender specification, the work order prevails on the later except scope of work

We are forwarding this Work Order in duplicate. You are requested to return the duplicate copy of this Work Order duly signed and stamped as a token of your acceptance.

Thanking you,

Yours faithfully,
For Gujarat Industries Power Company Limited.

N.K.Singh
(Additional General Manager-SLPP)

Ref: GIPCL/SLPP/BMD/FGD/2017 /04 Dated 25.07.17

Approval for awarding LOI/Work order to M/s UBECCPL for Tender ID 265803

GUJARAT INDUSTRIES POWER COMPANY LIMITED

SURAT LIGNITE POWER PLANT

Date: 25.07.2017

Note. : GIPCL/SLPP/BMD/FGD/2017 /04

Subject: Administrative approval for awarding LOI/Work order for open N-Procure e tender No. 265803 for Annual Rate Contract for repairing of duct carries flue gas, casing & hoppers of Electro Static Precipitator (ESP) and Installation of NMEJs over existing MEJ of flue gas duct of flue gas path in unit-1 to4 Boiler. (2017-18).

Reference:

1. Approval note "GIPCL/SLPP/BMD/FGD/2017" for floating an open e tender dated 21.04.17.
2. E-tender(N-Procure -265803) for Annual Rate Contract for repairing of duct carries flue gas, casing & hoppers of Electro Static Precipitator (ESP) and Installation of NMEJs over existing MEJ of flue gas duct of flue gas path in unit-1 to4 Boiler. Floated on 23.06.17 for 21 days (Due date: 13.07.17)
3. News paper advertisement dated 24.06.17
4. Intimation through mail to vendors dated 24.06.17 (Initial Intimation).
5. Intimation through mail to vendors dated 29.06.17 (Intermediate Intimation)
6. Intimation through mail to vendors dated 05.07.17 (Final Intimation)
7. Administrative approval for opening of Techno-commercial Bid and Price bid for open N-Procure e tender No. 265803 dated 17.07.2017
8. Administrative approval to call bidder for negotiation for open N-Procure e tender No. 265803 dated 19.07.2017

Approval was accorded by Competent Authority vide note dated 21.04.17, to publish open e-tender through N-Procure (gipcl.nprocure.com) for Annual Rate Contract for repairing of duct carries flue gas, casing & hoppers of Electro Static Precipitator (ESP) and Installation of NMEJs over existing MEJ of flue gas duct of flue gas path in unit-1 to4 Boiler.

Details of tendering process are as below:

Published "gipcl. nprocure. com"	Published in news paper	Brief tender notice uploaded on GIPCL website	Last date of submission of bid	Last date for submission of EMD & Bid fee in physical form
23.06.17	24.06.17	24.06.17	13.07.17	15.07.17

Ref: GIPCL/SLPP/BMD/FGD/2017 /04 Dated 25.07.17

Approval for awarding LOI/Work order to M/s UBECCPL for Tender ID 265803

We have published the notice on dated 24.06.17 for inviting bids in following news papers:

Sr. No.	Press Name	Editions
1	Times of India	Ahmedabad , Nagpur
2	Gujarat Samachar	Ahmedabad, Surat, Vadodara, Rajkot

As this was an open e tender and news paper advertisement was given to intimate the vendor regarding open e tender for above said work, we also sent intimation mail to following known vendor which execute similar type of work for informing them regarding floated tender as mention below.

Vendor Serial No	1st Intimation on 24.06.17	2nd Intimation on 29.06.17	Final Intimation on 05.07.17
1	M/s Encotech Energy	M/s Encotech Energy	M/s Encotech Energy
2	M/s BEEL	M/s BEEL	M/s BEEL
3	M/s UBECCPL	M/s UBECCPL	M/s UBECCPL
4	M/s Jeyes	M/s Jeyes	M/s Jeyes
5	M/s A.M. Erector	M/s A.M. Erector	M/s A.M. Erector
6	M/s GIMS	M/s GIMS	M/s GIMS
7	M/s Power Mech	M/s Power Mech	M/s Power Mech
8	M/s Sunil Hi-Tech	M/s Sunil Hi-Tech	M/s Sunil Hi-Tech
9	M/s Helios	M/s Helios	M/s Helios
10	M/s Unicon	M/s Unicon	M/s Unicon
11	M/s Rita	M/s Rita	M/s Rita
12	M/s Power Max	M/s Power Max	M/s Power Max

In response tour tender notice, only M/s UBECCPL, Vadodara have submitted relevant document in physical form as a part of technical bid (Document for Technical Bid Inward No. 3068, in warded on 14.07.17). It may please be noted that M/s UBECCPL, Vadodara also executed previous ARC of 2016-17.

Note is put up for approval for opening of Techno-commercial Bid and Price bid for open N-Procure e tender No. 265803 dated 17.07.2017 to the committee .Approval accorded by committee on 18.07.2017.

Evaluation of technical bid:

Document submitted by M/s UBECCPL opened along with technical bid for Tender ID 265803 through n-procure and evaluation of technical bid is as given below:

1. EMD : Amount 1,00,000 , BG : 0506317BG0000626, Validity : 01.07.17 to 31.12.17, Bank : SBI
2. Tender Fess : 3000, DD 710900 dated 04.07.17
3. Tender terms and condition acceptance : Yes, accepted
4. Eligibility Criteria : Verified , Vendor Qualified Technical bid

Ref: GIPCL/SLPP/BMD/FGD/2017 /04 Dated 25.07.17

Approval for awarding LOI/Work order to M/s UBECCPL for Tender ID 265803

5. Deviation taken by Vendor along with clarification given by us through mail dated 19.7.17 :
   Deviation 1: Two rooms at your GIPCL colony to accommodate our staff and engineers on chargeable basis
   Clarification 1: Rooms at GIPCL colony to accommodate your staff and engineers on chargeable basis given subject to availability
   Deviation 2: Two rooms at your plant premises to accommodate our labour and workers on free of charge.
   Clarification 2: Rooms at plant premises to accommodate your labour and workers on free of charge basis provided subject to availability and prevailing policy at respective time.
   Party has withdrawn the deviation taken vide mail dated 25.07.2017 in response to our mail.
6. We also mail vendor to (1) provide annual audited financial statement for year 2016-17 as a part of eligibility criteria point No 2 & 3 and (2) waive off deviation taken against clarification given by us. However, Bidder executed previous work order at GIPCL site during 09.07.16 to 08.07.17 amounting Rs. 94 Lakh hence it is considered that vendor's annual turnover is above 28 Lakh (Eligibility Criteria (2).M/s UBECCPL submitted the document required vide their mail dated 20.07.2017 and it is in line with our requirement.
7. Based on Above, Vendor is Technically Qualified.

Evaluation of Price Bid:

	M/s UBECCPL	Our Estimation
Net SOR Estimation/Price	85,66,295.00	
Profit/Service charges	8.2 %	10.0 %(Assumed)
Equivalent Quoted Amount	7,02,436.19	8,56,629.50 (Assumed)
Gross Total Price	**92,68,731.19**	**94,22,924.50**
Including 15% Ser. Tax (For Comparison only)	**1,06,59,040.87**	**1,08,36,363.18**
Relative position Detail	M/s UBECCPL remain 1.63% **lower** w.r.t. our Estimation	
With 10 % Provision	1,01,95,604.31 (**92,68,731.19+ 9,26,873.12**)	
GST @ 18 % on Gross price	18,35,208.77 (18 % of 1,01,95,604.31)	
Final Price inc. GST	12,030,813.08 (1,01,95,604.31+18,35,208.77)	

As per table above, M/s UBECCPL, Vadodara remain below 1.63 % with respect to our estimation.

Note is was also put up for approval from committee to call bidder for negotiation for open N-Procure e tender No. 265803 for Annual Rate Contract for repairing of duct carries flue gas, casing & hoppers of Electro Static Precipitator (ESP) and Installation of NMEJs over existing MEJ of flue gas duct of flue gas path in unit-1 to4 Boiler (2017-18) on 19.07.2017.Committee accorded an approval for the same and negotiation meeting arranged on 21.07.2017 with M/s UBECCPL. After Negotiation meeting M/s UBECCPL vide their mail dated 22.07.2017 Provided 01.40 % Discount on Net Estimation price, Hence effective Service charge on net estimate is 8.2 % -1.4 % =6.8 % and final Gross price before GST is

Ref: GIPCL/SLPP/BMD/FGD/2017 /04 Dated 25.07.17

Approval for awarding LOI/Work order to M/s UBECCPL for Tender ID 265803

91,48,803.06 Rs. . Final Price including 10 % Provision and 18 % GST amounting **Rs 1,18,75,146.37 /- (91,48,803 + 9,14,880.3[10%] + 18,11,463.06 [18%GST]).**Hence Final Price Schedule clause wise is as given below:

Sr. No	Clause No.	UOM	Qty. (A)	Estimated Unit Rate (B)	Revised Unit Rate with 6.8% SC	Total
1	Scaffolding Outside ESP	M^3	20240	55	58.740	11,88,897.6
2	Scaffolding in side ESP CRM floor	M^3	4600	59	63.012	2,89,855.2
3	Scaffolding inside Flue gas duct	M^3	1380	61.5	65.682	90,641.16
4	Scaffolding outside Flue gas duct/ NMEJ	M^3	13800	55	58.740	8,10,612.00
5	Insulation Removal & Application	M^2	4692	308.88	329.884	15,47,815.73
6	Plate replacement / patch up / Repair	MT	184	23340	24,927.12	45,86,590.08
7	Installation of NMEJs over existing MEJ	Mtr	180	3300	3524.40	6,34,392.00
					Gross Total Price	91,48,803.06
					10 % Provision	9,14,880.3
					Total Including 10 % Provision	1,00,63,683.4
					18 % GST	18,11,463.06
					Final Contract Value	1,18,75,146.4

Hence, Note is put-up for approval from Competent Authority to place LOI/Work order for Rs. 1,18,75,146.37 /- including GST to M/s UBECCPL, Vadodara. As per delegation of power D.4, MD is Competent Authority to accord and approval for service contract (Without material) for the value up to 500 Lakh.

25.7.17

Kashyap Thakkar(AM-BMD)

26.07.2017

M-BMD

GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 110

Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261073/74 E-mail : gensipp@gipcl.com

GIPCL/SLPP/BMD/FGD/2017/WO/Amendment/ 2416

Work Order
BY MAIL/COURIER

Date: 26.06.2018

Reference: GIPCL/SLPP/BMD/FGD/2017/WO/

To
M/s. Uppli Balaji Engg. Construction Company Pvt. Ltd.,
Office: 55, Freedom Fighter Colony,
Nr. Samta, Subhanpura,
Vadodara — 390 023.

(Kind Attention: Shri A. Srinivasan)

Subject: Work order for Annual Rate Contract for repairing of duct carries flue gas, casing & hoppers of Electro Static Precipitator (ESP) and Installation of NMEJs over existing MEJ of flue gas duct of flue gas path in unit-1 to 4 Boiler.

Reference:

1. Work Order No. **Reference: GIPCL/SLPP/BMD/FGD/2017/WO/4031 dated 25.09.17.**
2. Letter of Intent for Annual Rate Contract for above said work dated 02.08.17 **"GIPCL/SLPP/BMD/FGD/2017/LOI/3303"**
3. E-tender (N-Procure ID 265803) for Annual Rate Contract for repairing of duct carries flue gas, casing & hoppers of Electro Static Precipitator (ESP) and Installation of NMEJs over existing MEJ of flue gas duct. Floated on 23.06.2017.

Dear Sir,
With reference to the above work order and correspondences, GIPCL is pleased to amend the clause no. 4 Contract Period and clause no. 5 contract price of above work order.

4. CONTRACT PERIOD:

The contract period of the above work order is extended from 01.08.18 to 31.10.18 for the period of three month , hence now it is valid up to 31.10.18.

27.06.18

5. CONTRACT PRICE :

"Annual Rate Contract for repairing of duct carries flue gas, casing & hoppers of Electro Static Precipitator (ESP) and Installation of NMEJs over existing MEJ of flue gas duct" at Surat Lignite Power plant, PO. Nani Naroli, Ta : Mangrol, Dist Surat for an order value for one year, of **Rs. 1,00,63,683.40 (Rupees One Crore Ninety One Lakh Sixty Three Thousand Six Hundred Eighty Three and Forty Paisa only)** and GST extra as applicable. Total Contract price including 18 % GST is 1,18,75,146.46 **(Rupees One crore Eighteen Lakh**

Seventy Five Thousand One Hundred Forty Six and Forty Six Paisa only). Break-up of the same is as given below:

Price Schedule/Break-up:

Sr. No	Clause No.	UOM	Qty. (A)	Unit Rate	Total
1	Scaffolding Outside ESP	M^2	20240	58.740	11,88,897.6
2	Scaffolding in side ESP CRM floor	M^2	4600	63.012	2,89,855.2
3	Scaffolding inside Flue gas duct	M^3	1380	65.682	90,641.16
4	Scaffolding outside Flue gas duct/ NMEJ	M^2	13800	58.740	8,10,612.00
5	Insulation Removal & Application	M^2	4692	329.884	15,47,815.73
6	Plate replacement / patch up / Repair	MT	184	24,927.12	45,86,590.08
7	Installation of NMEJs over existing MEJ	Mtr	180	3524.40	6,34,392.00
	Gross Total Price				91,48,803.06
	10 % Provision				9,14,880.3
	Total Including 10 % Provision				1,00,63,683.4
	18 % GST				18,11,463.06
	Final Contract Value				1,18,75,146.4

Other Terms and condition of our earlier work order remains same

We are forwarding this work Order in duplicate. You are requested to sign the duplicate copy of work order as a token of your acceptance and forward the same to us.

Thanking you,

24.06.16

Yours faithfully,
For GUJARAT INDUSTRIES POWER CO. LTD.

(N.K.Singh)
General Manager (SLPP)

C.C.: DGM (Fin.) along with copy of approval note

SLPP/MECH/BLR/ESP/2017/U134/AN/Replacement & overhauling/03

GUJARAT INDUSTRIES POWER COMPANY LIMITED
SURAT LIGNITE POWER PLANT

Date: 05.08.2017

SLPP/MECH/BLR/ESP/2017/U134/AN/Replacement & overhauling/03

Subject: Administrative approval for placing Work order/ LOI on M/s Helios infra Pro for (1) replacement of internals for six fields of Unit-1(3 Field) & Unit-4 (3 Field) (2) overhauling /servicing of all remaining 35 field of Unit 1 , Unit 3 and Unit 4 (3) Supply & installation new safety interlocking key mechanism along with removal of existing damaged key mechanism in all 4 unit's ESP during annual overhauling of Year- 2017 for open tender (n)-procure ID 267144.

Reference:

1. Approval note "SLPP/MECH/BLIVESP/2017/U134/AN/Replacement & overhauling" for floating an open e tender dated 17.06.17.
2. E-tender(N-Procure ID -267144) for (1) replacement of internals for five fields of Unit-1(3 Field) & Unit-4 (3 Field) (2) overhauling /servicing of all remaining 35 field of Unit 1 , Unit 3 and Unit 4 (3) Supply & installation new safety interlocking key mechanism along with removal of existing damaged key mechanism in all 4 unit's ESP during annual overhauling of Year- 2017 on open tender basis through (n)-procure. Floated on 07.07.17 for 21 days (Due date: 27.07.17)
3. News paper advertisement dated 08.07.17
4. Intimation through mail to prospective bidder dated 07.07.17(Initial Intimation).
5. Intimation through mail to prospective bidder dated 18.07.17 (Intermediate Intimation)
6. Intimation through mail to prospective bidder dated 25.07.17 (Final Intimation)
7. Opening of Technical Bid dated 28.07.17
8. Approval for opening of Price bid and call bidder for negotiation dated 29.06.2017
9. Negotiation meeting with M/s Helios on 04.08.17 at GIPCL HO.

SLPP/MECH/BLR/ESP/2017/U134/AN/Replacement & overhauling/03

Approval was accorded by Competent Authority vide note dated 17.06.17, to publish open e-tender through N-Procure (gipcl.nprocure.com) for (1) repiacement of internals for five fields of Unit-1(3 Field) & Unit-4 (3 Field) (2) overhauling /servicing of all remaining 35 field of Unit 1 , Unit 3 and Unit 4 (3) Supply & installation new safety interlocking key mechanism along with removal of existing damaged key mechanism in all 4 unit's ESP during annual overhauling of Year- 2017.

Details of tendering process are as below:

Published "gipcl. nprocure. com"	Published in news paper	Brief tender notice uploaded on GIPCL website	Last date of submission of bid	Last date for submission of EMD & Bid fee in physical form
07.07.17	08.07.17	10.07.17	27.07.17	27.07.17

We have published the notice on dated 24.06.17 for inviting bids in following news papers:

Sr. No.	Press Name	Editions
1	Times of India	Ahmedabad ,Chennai, Nagpur, Kolkata
2	Sandesh	Ahmedabad, Surat, Vadodara

This was an open e tender and news paper advertisement was given to intimate the vendor regarding open e tender for above said work. We also sent intimation mail to following known vendor which execute similar type of work for informing them regarding floated tender as mention below.

Vendor Serial No	1st Intimation on 07.07.17	2nd Intimation on 18.07.17	Final Intimation on 25.07.17
1	M/s Unicon, Coimbatore	M/s Unicon	M/s Unicon
2	M/s Alstom, Vadodara	M/s Alstom	M/s Alstom
3	M/s BHEL,SSBG, Vadodara	M/s BHEL	M/s BHEL
4	M/s Enmas, Tamilnadu	M/s Enmas	M/s Enmas
5	M/s Ideal, Trichy	M/s Ideal	M/s Ideal
6	M/s Helios, Kolkata	M/s Helios	M/s Helios

SLPP/MECH/BLR/ESP/2017/U134/AN/Replacement & overhauling/03

In response to our tender notice and intimation mail, Representatives of two vendors visited GIPCL-SLPP as mentioned bellow:

- Representative of M/s Alstom visited the site on 20.07.17 to understand brief scope of work and procedure of e-reverse auction. Clarification given regarding brief scope of work in line with tender specification and also inform that E-reverse auction will be executed through www.nprocure.com and as per standard procedure.
- Representative of M/s Arunn Enterprise visited the site (Group of Ex BHEL) on 20.07.17 to understand the scope of work. Clarification given regarding brief scope of work in line with tender specification.

In response to our tender notice and intimation mail, M/s Helios, Kolkata have submitted relevant document in physical form as a part of technical bid through their mail on 27.7.17. It may please be noted that M/s Helios, Kolkata had also executed identical nature of work in previous AOH along with supply/ replacement of five complete field and two partial field in Unit 1 to 4 during AOH-16. Right now work of supply/replacement of one Field in Unit-2 AOH is also under execution by M/s Helios at GIPCL,SLPP.

Technical bid of Tender ID 267144 opened on 28.07.17 and detail is as given below:

Evaluation of technical bid:

Document submitted by M/s Helios via email are also treated a part of technical bid for Tender ID 267144 through n-procure and evaluation of technical bid is as given below:

1. EMD : Transferred 2,70,000 through RTGS in GIPCL's SBI Account, Account statement attached dated 27.7.17
2. Tender Fess : Transferred 3,000 through NEFT in GIPCL's SBI Account, Account statement attached dated 27.7.17
3. Tender terms and condition acceptance : Yes, accepted
4. Eligibility Criteria : Annexure-A
5. No Deviation taken by bidder
6. Based on Above, Vendor is Technically Qualified.

SLPP/MECH/BLR/ESP/2017/U134/AN/Replacement & overhauling/03

Further note was put-up for opening of price bid and call bidder for negotiation 29.06.2017.Price bid was opened on 01.08.2017 and Evaluation of price bid is as following:

Evaluation of Price bid:

Net SOR Estimation	% Service charge	Gross Price before Taxes
2,71,91,889	10.00 % (Assumed)	2,99,11,078
2,71,91,889	**15.58 % quoted by party**	3,14,28385

We have evaluated the price bid further with respect to previous work order in three section (i.e. [A] Supply of spare ,[B] Execution of Field replacement and Overhauling of fields and [C] Key Mechanism) and following are our observation.

1. As given in principal approval note dated 17.06.17 and Tender specification, SOR rates were derived for supply items after **deducting** 10 % profit (Assumed) from item rates of previous year's Work order. Vendor has quoted 15.58 % on that SOR rate and hence effective rise in supply part is **5.07** % with respect to previous WO. [Supply portion in total estimation 66.79 %- 1,81,63,170 out of 2,71,91,889]
2. SOR rates for the Execution of Field replacement and overhauling were rationalized considering actual consumption of resources as mention in principal approval note dated 17.06.17. The SOR rates are rationalized up to approximately 25 % less than Previous WO rates for execution of field replacement and approximately 10 % less than Previous WO rates for overhauling of fields. Vendor has quoted 15.58 % on SOR rates; hence the effective quoted rates for the execution of field replacement and overhauling of ESP fields are still below 20.48 % and 5.6 % respectively.
3. For Key mechanism, we have taken 10 Lakh rupees as SOR for supply and installation for all 4 units against actual cost of around 12.5 lakh (Rate Reference: RFQ for PR 1542463). Party has quoted 15.58 % above and hence quoted price is below 7.5 % with respect to RFQ.

We have compared the rates quoted by party with the rates of previous work order considering equivalent quantity of previous work order. It is found that party has quoted 3.87 % below our rates of the previous work order. Annexure B with all above detail is attached here with.

SLPP/MECH/BLR/ESP/2017/U134/AN/Replacement & overhauling/03

With above observation, rates quoted by the party seem reasonable. Moreover unit-3 is under AOH from 26.07.2017 onwards and it is to be brought back to the bar by 15.08.2017.Subsequently Unit 4 and Unit-1 will be under AOH from 26.08.2017 and 21.09.2017 respectively. In both the units we have to refurbish 3 ESP fields in each unit.

Above observation were conveyed to committee and negotiation meeting with M/s Helios infra pro, Kolkata were carried out on 03.08.2017.M/s Helios gave 2 % discount on Gross quoted price and final price for the work after considering discount and before taxes and duties amounts to Rs. 3,08,00,000 (Rounded off) . Final price with 18 % GST amounts to Rs. 3,63,44,000. M/s Helios has also submitted billing break-up for supply and execution through separate mail. The total agreed rate is 13.27 % higher than SOR rates; however our overall SOR rate estimate is lower by 17 % with respect to previous work order rate due to rationalization of SOR estimation and SOR estimation is without any service charge. Now agreed final rate (i.e. 3,08,00,000) given by M/s Helios is remain 5.8 % below our rate of previous order.

In order to ensure the healthiness of ESP field throughout the year, It is required to address the ESP fields of Unit-3, 4 & 1 invariably so that we can comply environmental norms. Further as per the notification issued by ministry of Environment, Forest and Climate Change (MOEF) in April-15 and subsequent letter / intimation received from various government authorities (i.e. CPCB , CEA , Energy and Petro chemical Department-EPD on 22.12.2016 , 05.10.2016 and 19.06.2017 respectively), it is mandatory to maintain emission standard instantaneously as per notification and shall display and feed online data to CPCB/GPCB authority as an evidence. If value feed to CPCB/GPCB is above prescribed value then they will ask to reduce it below prescribed value and we need to reduce load till next opportunity to rectify the field otherwise we may face the punitive action as per the policy of CPCB/GPCB. Frequent violation of environment norms may provoke the authority to initiate stringent actions inclusive of issue of closure notice of the plant.

ESP of SLPP works in hostile atmosphere which is highly corrosive due to presence of sulpher and chlorine in the lignite. The damage mechanism is a continuous

process at SLPP and every year we have to refurbish six to eight fields as per the condition assessment and convenience. In the wake of notification issued by MOEF ,we have to be prepared to comply the norms by 2020.During this three years we have to refurbish 50 field and revive four dummy fields.AOH is the ideal time to refurbish/revive field without causing loss of generation. So it is advisable to refurbish the ESP field in phase manner as per the opportunity available to cope up with the quantum of work.

Moreover if field with damage internal remains inattentive for prolonged time it fall down in the hopper from suspension system and may result in to collapsing of ESP casing as evacuation system fails due chocking of ESP hoppers. Thus long unplanned outage of the pass or unit and may lead to huge generation loss. Hence in view of above, it is recommended to carry out work in ensuing AOH.
It may also please be noted that our plant is located in densely populated area .High emission level in flue gas will affect the environment adversely and will be detrimental to the health of the surrounding populations.

Note is put for approval of competent for placement of work order on M/s Helios for above said work with final price of Rs.3,63,44,000 . As per DOP clause A.1, MD is empowered to approve proposal up to Rs. 500 Lakh

Note is put up for approval of Managing Director.

05.08.17

Kashyap Thakkar
(AM-BMD)

GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 110

Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261073/74 E-mail : genslpp@gipcl.com

GI PCL/SLPP/BLR/ESP/2017/U 134/AN/R & OH/W0/Amendment/3216 **Date: 06.09.2018**

Amendment To Work Order
By Courier/Mail

To,
M/s. Helios Infra Pro PVT. LTD,
Ground Floor,561, Block-N,New Alipore,
Kolkata 700053,West Bangal , India .

(Kind Attention: Shri Nikunj Agrawal)

Subject: Amendment in Work order for (1) Supply and replacement of internals for Six fields of Unit-1 (3 Field) & Unit-4 (3 Field) (2) overhauling /servicing of all remaining 35 field of Unit 1 , Unit 3 and Unit 4 (3) Supply & installation new safety interlocking key mechanism along with removal of existing damaged key mechanism in all 4 unit's ESP during annual overhauling of Year- 2017.

Reference:

1. Work Order No. GIPCL/SLPP/BLR/ESP/2017/U 134/AN/R & OH/W0/4030dated 26.09.17
2. Letter of Intent for above said work dated 06.08.2017 "GIPCL/SLPP/BLR/ESP/2017/U134/AN/R & OH/L01/3405"
3. Billing Break-up finalize during meeting on 18.08.17.
4. E-tender (N-Procure ID 267144) for above said work. Floated on 07.07.17.

Dear Sir,

With reference to the above work order and correspondences, GIPCL is pleased to amend the clause no. 2 of section B (Page 32 of 64) Contract Price/unit rate of above work order.

CONTRACT PRICE:

Work order for replacement of internals for Six fields of Unit-1(3 Field) & Unit-4 (3 Field) (2) overhauling /servicing of all remaining 35 field of Unit 1 , Unit 3 and Unit 4 (3) Supply & installation new safety interlocking key mechanism along with removal of existing damaged key mechanism in all 4 unit's ESP during annual overhauling of Year- 2017" at Surat Lignite Power plant, PO. Nani Naroli, Ta : Mangrol, Dist Surat for an order value for 15 month of Rs. 3,18,47,200 (3,08,00,000 + 3.40 % of contract 3,08,00,000-10,47,200) and GST extra as applicable. Total Contract price including 18 % GST is 3,75,79,696 (Rupees Three Crore Seventy Five Lakh Seventy Nine Thousand Six Hundred Ninety six only).As per WO mentioned in reference, Two part billing break-up accepted by GIPCL and Helios during meeting held at GIPCL-SLPP on 18.08.17 up to 100 % billing. Additional cost, if any incurred during execution, the unit rate derived based on overall percentage (i.e. 13.27 % as per WO mentioned in reference-1). Revised price schedule/Billing break-up attached here with as annexure-A.

We are forwarding this Work Order in duplicate. You are requested to sign the duplicate copy of work order as a token of your acceptance and forward the same to us.

Thanking you,

6.09.2018

Yours faithfully,
For GUJARAT INDUSTRIES POWER CO. LTD.

(N.K.Singh)
General Manager (SLPP)
C.C.: DGM (Fin.) along with copy of approval note

Registered Office & Vadodara Plant :
P.O. Petrochemical, Dist. Vadodara 391 346 Gujarat - INDIA

AN IMS COMPANY

Phone : EPABX (0265) 2232768/2213/0159
Fax : 2231207 **E-mail :** genbaroda@gipcl.com

Website : www.gipcl.com

To be Put up During Final Proposal Note

Tender Details	e-tender for "repair/replacement /strengthening of casing & hoppers of Electro Static Precipitator (ESP) & casing / structure /support /duct assemblies of Flue gas path carries flue gas and installation of NMEs over existing MEs of flue gas duct of flue gas path in unit-1 to 4 Boiler for compliance of Revised Environmental Norms for year 2019-20		
Department	Boiler Maintenance Department	Name of HOD	M. Kumarvelu
Current contract details		Proposed/Fresh Tender	
Type of tender:-	Open	Type of Tender:-	Open
Total Estimated value	85.66 Lacs	Total Estimated value	191.48 Lacs
Final total contract value (without taxes & duties)	Rs. 91.48 Lacs (Exclusive of Tax) Rs. 100.63 Lacs (Inclusive 10 % Amendment ,Exclusive of Tax)	Final total contract value (without taxes & duties)	184.09 Lacs
Difference of estimate vis a vis final value in %(percentage)	6.8 %	Difference of estimate vis a vis final value in %(percentage)	3.85 % (below)
Contract period	From:- 02.08.2017 To:-01.08.2018 Total Year:- 1 Extended up to :31.10.18	Contract period	From:- 01.07.2019 To:-30.06.2020 Total Year:- 1
Total Number of Bidders Participated with name	1. M/s Uppli Balaji Engineering and Construction Company Pvt. LTD (M/s UBECCPL), Vadodara	Total Number of Bidders Participated with name	1. M/s Gupta Industrial Maintenance Service Pvt ltd Nadiad 2. M/s Helios Infra Pro. Pvt. LTD Kolkata 3. M/s A. M. Erector, Ahmedabad 4. M/s UBECCPL Vadodara
Total Number of Technically Qualified Bidders with name	1. M/s Uppli Balaji Engineering and Construction Company Pvt. LTD, Vadodara	Total Number of Technically Qualified Bidders with name	1. M/s Gupta Industrial Maintenance Service Pvt ltd Nadiad 2. M/s Helios Infra Pro. Pvt. LTD, Kolkata 3. M/s A. M. Erector Ahmedabad
Name of successful bidder	M/s Uppli Balaji Engineering and Construction Company Pvt. LTD, Vadodara	Name of successful bidder	M/s Helios Infra Pro. Pvt. LTD Kolkata

If yes, E-Reverse Auction Details:-			
E-Reverse auction was conducted on	NA	E-Reverse auction was conducted on	19.06.2019
No of bidders participated	NA	No of bidders participated	3
L1 price considered as a base price in Rs.	NA	L1 price considered as a base price in Rs.	2,50,23,700
Decrement value in Rs.	NA	Decrement value in Rs.	1,00,000
Nos. of hits	NA	Nos. of hits	33
Initial duration of E-Reverse Auction	NA	Initial duration of E-Reverse Auction	From 10:30 HRS for 30 Minutes
Auction Extended for	NA	Auction Extended for	12:45 HRS
Total duration of E-Reverse Auction	NA	Total duration of E-Reverse Auction	02:15 HRS
Final price received at the end of Auction	NA	Final price received at the end of Auction	2,17,23,700
Difference in Percentage(%) of L1 Bidder w.r.t L2 bidder	NA	Difference in Percentage(%) of L1 Bidder w.r.t L2 bidder	1,00,000 (0.46%)
Difference in Percentage(%) of L1 Bidder w.r.t previous contract	+6.8	Difference in Percentage(%) of L1 Bidder w.r.t current contract.	Scope of work added w.r.t. current contract

B

To be Put up During Final Proposal Note

Previous tender/Contract details		Proposed/Fresh Tender	
Administration Approval Note Put up date	21.04.2017	Administration Approval Note Put up date	30.01.2019
Administrative Approval Note Approved On	21.06.2017	Administrative Approval Note Approved On	16.04.2019
Tender Floated	From:- 24.06.2017 Due Date:- 13.07.2017	Tender Floated	From:- 29.04.19 Due Date:- 20.05.19
If any extension of tender due date	Extension-I: Extension-II	If any extension of tender due date	Extension-I Extension-II
Tender Opening Date	13.07.2017	Tender Opening Date	20.05.19
Technical Evaluation/Price Bid Opening Note Put Up date	17.07.2017	Technical Evaluation/Price Bid Opening Note Put Up date	21.05.19
Technical Evaluation/Price Bid Opening Note Approved on		Technical Evaluation/Price Bid Opening Note Approved on	03.06.19
Technical Evaluation/Price Bid Opening Note Put Up date		Technical Evaluation/Price Bid Opening Note Put Up date	07.06.19
Technical Evaluation/Price Bid Opening Note Approved on		Technical Evaluation/Price Bid Opening Note Approved on	18.06.19
Price Bid Opening date	18.07.2017	Price Bid Opening date	19.06.19

GIPCL/SLPP/BMD/FGD/2019-20/ Award of contract /03

GUJARAT INDUSTRIES POWER COMPANY LTD
(SURAT LIGNITE POWER PLANT)

Note.: GIPCL/SLPP/BMD/FGD/2019-20/ Award of contract /03 Date: 19.06.2019

Subject: Administrative approval for award of work to lowest bidder (After e-Reverse Auction) M/s Helios Infra Pro. Pvt. LTD, Kolkata for "repair/replacement /strengthening of casing & hoppers of Electro Static Precipitator (ESP) & casing / structure /support /duct assemblies of Flue gas path carries flue gas and Installation of NMEJs over existing MEJ of flue gas duct of flue gas path in unit-1 to 4 Boiler for compliance of Revised Environmental Norms for year 2019-20" uploaded through N-Procure portal along with provision of e-Reverse auction.

Reference:

1. Office note dated 21.05.2019/29.05.2019 for opening of techno commercial bids.
2. Office note dated 07.06.2019 for opening of price bid and further to carryout e-Reverse auction of qualified bidder
3. Telecommunications and intimations through mail to vendors dated 04.05.19, 09.05.19 & 17.05.19
4. E-tender (N-Procure -358685) for said work for compliance of Revised Environmental Norms for year 2019-20 uploaded through N-Procure portal." Floated on 29.04.2019 for 21 days (Due date: 20.05.2019)
5. News paper advertisement dated 29.04.2019
6. Approval note for Open e-tender of Tender for said work "GIPCL/SLPP/BMD/FGD/2019-20" dated 30.01.2019.

Evaluation of Pre-Qualification bids/Techno-commercial & Price Bid:

Approval was accorded by competent authority vide note dated 30.01.2019, to publish open e-tender through N-Procure (gipcl.nprocure.com) with provision of e-Reverse auction for said work

GIPCL/SLPP/BMD/PCD/2019-20/ Award of contract /03

Details of tendering process are as below:

Published on GIPCL website and (n)-procure website (Tender Id 358665)	29.04.19
Published in News paper	29.04.19
Brief tender notice uploaded on GIPCL website	29.04.19
Last date of bid submission	20.05.19
Last date for submission of tender fees / EMD in physical form	20.05.19

We have published the notice on dated 29.04.2019 for inviting bids in following news papers:

Sr. No.	Press Name	Editions
1	Times of India	All India
2	Gujarat Samachar	Vadodara, Surat, Bhavnagar, Rajkot, Bhuj & Mumbai
3	Gujarat Samachar	Ahmedabad (full edition)
4	Lokmat	Nagpur
5	Nav Bharat	Raipur + Vilashpur
6	Panjab Keshri	Chandigarh (full edition)
7	Anand Bajar Patrika	Kolkata
8	ENNADU (supplement)	Vijayawada

As this was an open e tender and news paper advertisement was given to intimate the vendor regarding open e tender for above said work, we also send intimation mail to following known & prospective bidder (Total 12 Nos.) which execute similar type of work for informing them regarding floated tender as mention in tabulated form in Annexure-A

The last date for submission of physical documents, EMD and tender fee was 20.05.2019. Following bidders submitted bids in physical form at GIPCL-SLPP and confirm their participation in said tender.

Serial No.	Vendor Detail	Inward Detail	Date
1	M/s Gupta Industrial Maintenance services, Nadiad	1876	20.05.19
2	M/s Uppli Balaji Engineering and Construction Company Pvt. LTD, Vadodara	1889	20.05.19
3	M/s Helios Infra Pro. Pvt. LTD, Kolkata	1902	21.05.19
4	M/s A.M. Erector, Ahmedabad	1911	21.05.19

GIPCL/SLPP/BMD/FGD/2019-20/ Award of contract /03

Approval was put forward to competent authority for opening of part-1 bid (techno commercial bid/ pre qualification bid) vide approval note dated 21.05.2019/29.05.2019 (reference-1) for above 4 parties.

On the basis of approval from Committee on 03.06.2019, part-1 bid (techno commercial bid/ pre qualification bid) opened on 05.06.2019 in presence of finance department. After opening of technical bid (part 1 bid), we found only three parties are quoted online except M/s Uppli Balaji Engineering and Construction Company Pvt. LTD, Vadodara, Vadodara.

Serial No.	Bidder Detail	Remark
1	M/s Gupta Industrial Maintenance Service Pvt.ltd, Nadiad	Qualified
2	M/s Helios Infra Pro. Pvt. LTD, Kolkata	Qualified
3.	M/s A. M. Erector, Ahmedabad	Qualified
4.	M/s Uppli Balaji Engineering and Construction Company Pvt. LTD, Vadodara	Not Considered

M/s Uppli Balaji Engineering and Construction Company Pvt. LTD, Vadodara not submitted their bid through n-procure website till last date & time of submission of bid. Further request was received after last date & time of submission of bid hence bid was unable to extend as no provision for extension in n-procure system after the due date & time. Hence not considered for further evaluation.

Administrative approval for opening of price bid and further to carryout e-Reverse auction amongst qualified bidder in line with methodology specified in tender for e-Reverse auction was put forward dated 07.06.2019

After obtaining approval on 17.06.2019, based on approval we have opened price bid and further carried out e-Reverse auction as below:

- E-Reverse auction intimation mail given to all three qualified bidder for
  1. Proposed E-Reverse auction on 19.06.2019 1030 HRS
  2. Confirming login ID for E-Reverse auction.
  3. Confirm availability on proposed E-Reverse auction time recommended by GIPCL along with methodology for e-Reverse Auction along with E-Reverse auction hand book.
- Received confirmation from all bidders along with login ID on 18.06.2019 required for e-reverse auction (that to be carried out 19.06.2019 1030 HRS)
- e-Reverse auction created on website https://e-auction.nprocure.com

GIPCL/SLPP/BMD/PGD/2019-20/ Award of contract /03

- Price bid of above 3 qualified bidder was opened on 19.06.2019 at 09:30AM and relative position of each bidder along with quoted percentage & contract value including GST is as mention below:

Estimation is **2,25,94,759.30.** (Including 18% GST)

Rank	Bidder Detail	Below/ Above	% age	Quoted value including GST tax as per Quote.
L1	M/s Gupta Industrial Maintenance Service Pvt.ltd, Nadiad	Above	10.75 %	2,50,23,700
L2	M/s Helios Infra Pro. Pvt. LTD, Kolkata (M/s HIPL)	Above	11.00 %	2,50,80,137
L3	M/s A. M. Erector, Ahmedabad	Above	17.10 %	2,64,58,467

Based on opening of Price bid, rate of L1 bidder put up for opening price for E-Reverse auction as Rs. 2,50,23,700 /- including GST and E-reverse auction approved and floated on website "https://e-auction.nprocure.com" with Auction ID :SS5-12111 at 10:00 HRS.

Intimation mail given to bidder and conveyed them Auction ID generated on 19.06.2019

E-Reverse auction's summary of the same is as below:

- E-Reverse auction Begin at 1030 HRS 19.06.2019, with opening price : Rs. 2,50,23,700 /-, Decrement value : Rs. 1,00,000/- (1 Lakh)
- Total 33 decrements received in multiplication of 1 Lakh.
- Second last decrement worth 1 Lakh logged at 12:32:52 HRS by undisclosed bidder. Value proposed: Rs. 2,18,23,700/-
- Last decrement worth 1 Lakh logged at 12:37:59 HRS by undisclosed bidder. Value proposed: Rs. 2,17,23,700/-
- E-Reverse auction completed at 12:45 HRS, Total Duration : 02:15 HRS.
- Overall reduction from L1 bidder after opening of price bid (i.e. 2,50,23,700) to final quoted value by L1 bidder after completion of e-Reverse auction (2,17,23,700) amount to Rs. 33,00,000/- (13.18 % below)

M/s Helios Infra Pro. Pvt. LTD, Kolkata stood L1, as they quoted (-) minus/below 3.85 % (after completion of e-Reverse auction) from our base estimation (i.e. 2,25,94,759.30 including 18 % GST) and Final quoted price is remain below our estimation by 3.85 %, equivalent to Rs. 8, 71, 063 /- Final quoted amount is Rs. 2, 17, 23,700 with 18 % GST (1, 84,09,915.25/- without GST)

Further as per tender clause, After e-Reverse Auction process, the original rates quoted by the final L1 bidder for individual items/packages shall be reduced proportionately based on total % reduction from their original quoted gross price v/s price derived after

GIPCL/SLPP/BMD/FGD/2019-20/WO

GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)
At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 110
Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261073/74 E-mail : genslpp@gipcl.com

Work Order
BY MAIL/COURIER

Date: 02.08.2019

Reference: GIPCL/SLPP/BMD/FGD/2019-20/WO/ 2479

To
M/s.
HELIOS INFRAPRO PRIVATE LIMITED
Ground Floor, 561, Block N,
New Alipore, Kolkata 700 053.
West Bengal, India

(Kind Attention: Nikunj Agrawal)

Sub: Work Order for "repair/replacement /strengthening of casing & hoppers of Electro Static Precipitator (ESP) & casing / structure /support /duct assemblies of Flue gas path carries flue gas and Installation of NMEJs over existing MEJ of flue gas duct of flue gas path in unit-1 to 4 Boiler for compliance of Revised Environmental Norms for year 2019-20".

References:
1 N-Procure Tender ID No.. 358685, published on 29.04.19
2 Submission of bid for tender ID 358685 and document submitted by you as a part of tender requirement.
3 E-Reverse Auction ID No. S55-12111 dated 19.06.2019.
4 Your mail Regarding Discount cated 20.07.2019
5 Letter of Intent for Annual Rate Contract for above said work dated 23.07.2019 "GIPCL/SLPP/BMD/FGD/2019-20/LOI/ 2311"

Dear Sir,
With reference to the above, We are pleased to place this work order on you for "Annual Rate Contract for repair/replacement /strengthening of casing & hoppers of Electro Static Precipitator (ESP) & casing / structure /support /duct assemblies of Flue gas path carries flue gas and Installation of NMEJs over existing MEJ of flue gas duct of flue gas path" at Surat Lignite Power plant, PO. Nani Naroli, Ta Mangrol, Dist Surat for one year.

Registered Office & Vadodara Plant :
P.O. Petrochemical, Dist. Vadodara 391 346 Gujarat - INDIA
AN IMS COMPANY
Phone : EPABX (0265) 2232768/2213/0159
Fax : 2231207 **E-mail :** genbaroda@gipcl.com
Website : www.gipcl.com

SECTION-A

1 DETAIL SCOPE OF WORK:-

This Work order is for four Boilers (Unit-1, 2, 3 & 4).

The scope of work broadly covers

MOBALIZATION TO SITE:

Mobilization of sufficient manpower with required tools & tackles to site prior to the shutdown to take care of pre-shut down activities, shut down activities and post shut down activities.

Party to mobilize sufficient quantity of rectifiers and welding transformer, all the cutting electrodes, gases, cutting sets, welding cables (copper / aluminum), lugs, cutting machine ,etc., lifting hoist, winch, wire rope, pulleys, chain blocks, manila rope, sleepers, jacks etc. for completing the work. Party should mobilize expert fabrication gang, Scaffolding gang, skilled scaffolder and insulation gang to site.

PRE SHUT DOWN ACTIVITIES:

Pre-shutdown activities includes,

1. Supply and shifting of sufficient quantity of scaffolding material like pipes, gratings, jack, clamps etc to site. All required scaffolding material will be in the scope of contractor.
2. Erection of safe scaffolding at different locations as per instruction of Engineer i/c and safety guidelines of GIPCL.
3. Removal of insulation from duct wall.

SHUTDOWN ACTIVITIES:

Carry out inspection of ESP side casing plate, roof, hoppers and entire flue gas duct from Air pre-heater outlet duct to chimney inlet duct in Unit-1 to 4 Boilers with GIPCL Engineer in charge. Identify the damaged ducts. Remove the cladding sheet/insulation wherever required. Fabricate the plate/assembly/pre assembly in suitable size and patching up/repair the fabricated plate on damaged plate or cut the damaged plate & erect the fabricated plate. In the ESP area plate can be replaced from outside, where already scaffolding being erected during pre shut down time. In other area, if required erect suitable scaffolding in ducts / hoppers and replace the damaged plate. After replacement/Patch-up of the plate, re-apply insulation and cladding sheet. Installation of NMEJs over existing MEJ.

DETAIL SCOPE OF WORK [Clause Wise]:

1. Provide scaffolding material , Erect and dismantle scaffolding for attending air ingress / air leakage to identify and/or to repair flue gas path including outer side of APH to ESP duct , Inlet funnels ,ESP casing wall , outlet funnels, ESP to ID fan and Id fan to Chimney, etc.

i. Maximum Height: From ground level up to 26 meter elevation as per instruction given by engineer in charge.
ii. Maximum Length: Length of ESP is approximately 52 meter for Phase-2 and 46 meter for Phase-1.
iii. Width: Width to be select considering safe aspect of scaffolding unit required for working at height and location of work.
iv. Platform: Safe Platform to be provided including railing for attending air ingress / air leakage to identify or to repair flue gas path. For ESP Platform to be provided at 10 meter elevation, then after every 2 meter elevation with proper hand railing.
v. Unit of measurement: Based on cubic meter of scaffolding. Additional railing height is to be considered based on actual height of safety railing above close cube for measurement , Projection of pipe outside close cube will not consider in measurement.
vi. Scaffolding retention period is as per work requirement/work progress in each unit.
vii. Scaffolding material along with required accessories will be in the scope of contractor

2. Provide scaffolding material ,Erect and dismantle scaffolding for attending air ingress / air leakage to identify and/or to repair flue gas path at inner side ESP casing wall [CRM Floor].

I. Maximum Height: From ground level up to 26 meter elevation from CRM floor as per instruction given by engineer in charge.
II Maximum Length: Length of ESP is approximately 52 meter for Phase-2 and 46 meter for Phase-1.
III. Width: Width to be select considering safe aspect of scaffolding unit required for working at height and location of work.
IV. Platform: Safe Platform to be provided including railing for attending air ingress / air leakage to identify or to repair flue gas path. For ESP Platform to be provided at 10 meter elevation, then after every 2 meter elevation with proper hand railing.
V. Unit of measurement: Based on cubic meter of scaffolding . Additional railing height is to be considered based on actual height of safety railing above close cube for measurement , Projection of pipe outside close cube will not consider in measurement
VI Scaffolding retention period is as per work requirement in each unit.
VII. Scaffolding material along with required accessories will be in the scope of contractor

3. Provide scaffolding material, erection and dismantling of scaffolding inside ducts and hoppers in all four units:

i. Erection of scaffolding inside flue gas ducts (i.e. inside of APH to ESP duct, inside of ESP hoppers, inside air path of Primary & secondary air system, inside of ESP to ID fan duct, inside ID fan to chimney duct etc.)
ii. Unit of measurement: Based on cubic meter of scaffolding. Additional railing height is to be considered based on actual height of safety railing above close cube for measurement , Projection of pipe outside close cube will not consider in measurement.
iii. Platform: Safe Platform to be provided including railing for attending air ingress / air leakage to identify or to repair flue gas path.
iv. Scaffolding retention period is as per work requirement in each unit.
v. Work to be executed inside Flue gas path and ESP shall be carried out by the party within prescribed time limit of AOH.
vi. Scaffolding material along with required accessories will be in the scope of contractor.

4. Provide scaffolding material, erection and dismantling of scaffolding for MEJ/NMEJ and miscellaneous work at outside area in all four units:

I. Erection of scaffolding outside flue gas ducts (i.e. outside of APH to ESP duct, outside of ESP hoppers, outside air path of Primary & secondary air system, outside of ESP to ID fan duct, outside ID fan to chimney duct, installation of NMEJ over MEJ in flue gas path etc.)

II. Unit of measurement: Based on cubic meter of scaffolding. Additional railing height is to be considered based on actual height of safety railing above close cube for measurement , Projection of pipe outside close cube will not consider in measurement.

III. Platform: Safe Platform to be provided including railing for attending air ingress / air leakage to identify or to repair flue gas path.

IV. Scaffolding material along with required accessories will be in the scope of contractor.

Common Note for Scaffolding: *Party shall maintain scaffolding material to cover minimum 3000 M ^{2} area at site at any time during contract period. Party shall arrange additional scaffolding material required to meet the requirement of site within 1 week period from the date of assignment of job in specific area.*

5. Removal & re-application of hot insulation with cladding sheet on ducting / ESP casing etc.:

i. Remove the insulation cladding & mineral wool.

ii. After repair / replacement of duct or casing, re-apply the insulation with accessories like holding rod along with washers, aluminum strips for holding of insulation, self tapping screw etc. Fit the insulation cladding & fix the screws on it. New insulation must be air tight.

iii. Thickness of insulation is 50 mm having density 150 kg/cu. Meter.

6. Fabrication and replacement of damaged flue Gas Duct / ESP casing wall:
It includes shifting of plates and structure/stiffener from stores, fabrication of plate/ pre-assembly/ assembly and cut the damaged duct plates / pre-assembly / assembly & erection of new plate / pre-assembly / assembly.

Open the manholes of duct as per clause 13.

1. Carryout joint inspection with GIPCL-EIC of the casing wall plate for any damage and other abnormalities. If required, make proper platform for checking these duct plates though thickness measurement also. Contractor has to clear ash accumulation on duct surfaces by manually either by hammering the duct plate or scrapping the duct plate by wire brush or scrapper plate.

2. Fabricate the steel plate with proper edge preparation. As per instructions of Engineer I/C, cut the damaged duct plates & erection of new plate
3. Carry out the welding on all four sides of the new plate.
4. Welding is to be done by certified welders or approved welder by GIPCL only.
5. If required cut the beam of the casing wall for the replacement of plate as per the instruction of EIC. After welding of new plate, erect the beam and re-weld.
6. Fabrication and erection of Manhole doors of duct/ hoppers.
7. Welding electrodes of pre heated AWS 7018 electrodes to be used for fabrication and erection work (ADOR, L&T, ESSAB, D&H MAKE and ADVANI only). Approval of electrode taken before use.
8. If required, stitch welds the corners of duct plate by ISA 50 / 75 / stiffener of appropriate size as per instruction of Engineer in-charge or as per drawing given..
9. Fabricated plates are properly clean by wire brush / buffing before painting. One coat of red oxide primer with two coats of synthetic paint to be applied as per instruction of GIPCL engineer. Paint shall be provided by GIPCL.
10. If required, replace the duct stiffeners of ISMC.
11. Replace the manhole door rope, close the all manholes & tighten it as per clause 12.
12. Carry out the air test; rectify the defects noted in air test & reapply mineral wool & sheeting.
13. The duct plate, bracing pipe, ISA, ISMC or ISMB material is of standard make.
14. Area supervisor has to ensure that work area is free of fire hazard during and after completion of work.
15. Fire blanket to be used where ever required, while welding at erection front to avoid fire. (Fire blanket shall be provided by GIPCL on chargeable basis).
16. Safety net to be used wherever required, while erection to avoid fall of person / object. (Safety net shall be in the scope of contractor).
17. All safety measures are to be followed while erection of the structures/ plates /assembly / pre assembly.

7. Fabrication and repair/Patch up of damaged flue Gas Duct / ESP casing wall

It includes shifting of plates and structure/stiffener from stores, fabrication of plate, erection and fit-up the new plate on damaged portion (patching up) of duct plate.

1. Open the manholes of duct as per clause 13.
2. Carryout joint inspection with GIPCL-EIC of the casing wall plate for any damage and other abnormalities. If required, make proper platform for checking these duct plates though thickness measurement also. Contractor has to clear ash accumulation on duct surfaces by manually either by hammering the duct plate or scrapping the duct plate by wire brush or scrapper plate.
3. Fabricate the steel plate with proper edge preparation. As per instructions of Engineer I/C; fit the new plate on damaged portion (patching up) of duct plate.
4. Carry out the welding on all four sides of the new plate.
5. Welding is to be done by certified welders or approved welder by GIPCL only.
6. If required cut the beam of the casing wall for the replacement of plate as per the instruction of EIC. After welding of new plate, erect the beam and re-weld.
7. Fabrication and erection of Manhole doors of duct/ hoppers.
8. Welding electrodes of pre heated AWS 7018 electrodes to be used for fabrication and erection work (ADOR, L&T, ESSAB, D&H MAKE and ADVANI only). Approval of electrode taken before use.

9. If required; stitch welds the corners of duct plate by ISA 50 / 75 / stiffener of appropriate size as per instruction of Engineer in-charge.
10. Fabricated plates are properly clean by wire brush / buffing before painting. One coat of red oxide primer with two coats of synthetic paint to be applied as per instruction of GIPCL engineer. Paint shall be provided by GIPCL.
11. If required, replace the duct stiffeners of ISMC.
12. Replace the manhole door rope; close the all manholes & tighten it as per clause 12.
13. Carry out the air test; rectify the defects noted in air test & reapply mineral wool & sheeting.
14. The duct plate, bracing pipe, ISA, ISMC or ISMB material is of standard make.
15. Area supervisor has to ensure that work area is free of fire hazard during and after completion of work.
16. Fire blanket to be used where ever required, while welding at erection front to avoid fire. (Fire blanket shall be provided by GIPCL on chargeable basis).
17. Safety net to be used wherever required, while erection to avoid fall of person / object (Safety net shall be in the scope of contractor).
18. All safety measures are to be followed while erection of the structures/ plates /assembly / pre assembly.

8. Installation of non-metallic expansion joints (NMEJ) on existing metallic expansion joints (MEJ):

1. Removal of insulation and cladding sheet from MEJ & nearby area of MEJ. Removal of insulation is around 3 meter width in four sides of duct.
2. Cleaning of MEJ and ceramic wool stuffing in the corrugation of MEJ from inside as well as outside.
3. Fabrication & Erection of flange (back-up bar) for NMEJ installation.
4. Welding of back-up bar as per the instruction of EIC. Welding electrodes of AWS 7018low hydrogen electrodes to be used for fabrication and erection work.
5. Erection of NMEJ i.e bolster and fabric clothes above the MEJ.
6. Punching of holes in the bolster and fabric clothes and fixing with fasteners on the back-up bar.
7. Tighten the fasteners in sequential manner.
8. Jointing the bolster, fabric clothes with electric heating machine as per E-I-C.
9. Carry out air test and rectify, if air is leaking from NMEJ. Ensure that, there should not be air ingress through flanges and NMEJ. Ingress of air causing effect on casing plate towards corrosion. Hence, give at most quality control towards this job.
10. Hot tightening of fasteners as per the instruction of EIC after the boiler is put on load.
11. Apply insulation and cladding sheet on NMEJ and duct.
12. Note: Width of NMEJ fabric is 400 mm to 700 mm.
13. Payment shall be made based on running meter of the NMEJ installed, which includes the cost all the activities mentioned in the above scope of work.
14. Example:
    Suppose Size of the Duct is 3052 X 6852 mm2 and flange projection is 348 mm.
15. Hence, peripheral duct length = 2 X [(3052 +348) + (6852 +348)] = 21200 mm (21.2 meter).
16. Payment for NMEJ replacement = Quoted price in Rs. per meter length of NMEJ X Total length of NMEJ used for above duct (21.2 meter).

9. Scaffolding erection charges-GIPCL scaffolding Material

- Erect and dismantle scaffolding for attending air ingress / air leakage to identify and/or to repair flue gas path at outer side /inner side of APH to ESP duct , Inlet funnels ,ESP casing wall , outlet funnels, ESP to ID fan and id fan to Chimney.
- Erection and dismantling of scaffolding for MEJ/NMEJ and miscellaneous work at outside/inside area in all four units.
- Scaffolding materials (like base pipe, scaffolding pipe & jallies) in the scope of GIPCL.
- Scaffolding material will be issued subject to availability of the material and decision of Engineer-In-Charge.
- Unit of measurement: Based on cubic meter of scaffolding, Additional railing height is to be considered based on actual height of safety railing above close cube for measurement . Projection of pipe outside close cube will not consider in measurement.
- Platform: Safe Platform to be provided including railing for attending air ingress / air leakage to identify or to repair flue gas path.

10. Critical sealing patch-up / Repair :

It includes shifting of plates and structure/stiffener from stores, fabrication of plate, erection and fit-up the new plate on damaged portion (patching up) of duct plate.

1. Open the manholes of duct as per clause 13.
2. Carryout joint inspection with GIPCL-EIC of the casing wall plate for any damage and other abnormalities. If required, make proper platform for checking these duct plates though thickness measurement also. Contractor has to clear ash accumulation on duct surfaces by manually either by hammering the duct plate or scrapping the duct plate by wire brush or scrapper plate.
3. Fabricate the steel plate / casing element with proper edge preparation As per instructions of Engineer I/C; fit the new plate on damaged portion (patching up) of duct plate.
4. Carry out the welding on all four sides of the new plate / casing element.
5. Welding is to be done by certified welders or approved welder by GIPCL only.
6. If required cut the beam of the casing wall for the replacement of plate as per the instruction of EIC. After welding of new plate, erect the beam and re-weld.
7. Fabrication and erection of Manhole doors of duct/ hoppers.
8. Welding electrodes of pre heated AWS 7018 electrodes to be used for fabrication and erection work (ADOR, L&T, ESSAB, D&H MAKE and ADVANI only) Approval of electrode taken before use.
9. If required, stitch welds the corners of duct plate by ISA 50 / 75 / stiffener of appropriate size as per instruction of Engineer in-charge.
10. Fabricated plates are properly clean by wire brush / bulling before painting. One coat of red oxide primer with two coats of synthetic paint to be applied as per instruction of GIPCL engineer. Paint shall be provided by GIPCL.
11. If required, replace the duct stiffeners of ISMC.
12. Replace the manhole door rope; close the all manholes & tighten it as per clause 13.
13. Carry out the air test; rectify the defects noted in air test & reapply mineral wool & sheeting.
14. The duct plate, bracing pipe, ISA, ISMC or ISMB material is of standard make.
15. Area supervisor has to ensure that work area is free of fire hazard during and after completion of work.

16. Fire blanket to be used where ever required, while welding at erection front to avoid fire. (Fire blanket shall be provided by GIPCL on chargeable basis).
17. Safety net to be used wherever required, while erection to avoid fall of person / object. (Safety net shall be in the scope of contractor).
18. All safety measures are to be followed while erection of the structures/ plates /assembly / pre assembly.
19. This clause is only applicable in case if weight of single piece (which is not a part of any assembly/pre assembly) of plate/structure/FGD element to be repair/patch up is less than 25 kg and welding/peripheral length to install/weld the same is more than 2.5 meter than this clause is applicable.

11. Critical sealing replacement :

It includes shifting of plates and structure/stiffener from stores, fabrication of plate/ pre-assembly/ assembly and cut the damaged duct plates / pre-assembly / assembly & erection of new plate / pre-assembly / assembly.

1. Open the manholes of duct as per clause 13.
2. Carryout joint inspection with GIPCL-EIC of the casing wall plate/ casing element for any damage and other abnormalities. If required, make proper platform for checking these duct plates though thickness measurement also. Contractor has to clear ash accumulation on duct surfaces by manually either by hammering the duct plate or scrapping the duct plate by wire brush or scrapper plate.
3. Fabricate the steel plate / casing element with proper edge preparation. As per instructions of Engineer I/C; cut the damaged duct plates / casing element & erection of new plate / casing element
4. Carry out the welding on all four sides of the new plate
5. Welding is to be done by certified welders or approved welder by GIPCL only
6. If required cut the beam of the casing wall for the replacement of plate as per the instruction of EIC. After welding of new plate, erect the beam and re-weld.
7. Fabrication and erection of Manhole doors of duct/ hoppers
8. Welding electrodes of pre heated AWS 7018 electrodes to be used for fabrication and erection work (ADOR, L&T, ESSAB, D&H MAKE and ADVANI only). Approval of electrode taken before use.
9. If required, stitch welds the corners of duct plate by ISA 50 / 75 / stiffener of appropriate size as per instruction of Engineer in-charge.
10. Fabricated plates are properly clean by wire brush / buffing before painting. One coat of red oxide primer with two coats of synthetic paint to be applied as per instruction of GIPCL engineer. Paint shall be provided by GIPCL.
11. If required, replace the duct stiffeners of ISMC.
12. Replace the manhole door rope; close the all manholes & tighten it as per clause 12.
13. Carry out the air test; rectify the defects noted in air test & reapply mineral wool & sheeting.
14. The duct plate, bracing pipe, ISA, ISMC or ISMB material is of standard make
15. Area supervisor has to ensure that work area is free of fire hazard during and after completion of work.
16. Fire blanket to be used where ever required, while welding at erection front to avoid fire. (Fire blanket shall be provided by GIPCL on chargeable basis).
17. Safety net to be used wherever required, while erection to avoid fall of person / object. (Safety net shall be in the scope of contractor).

18. All safety measures are to be followed while erection of the structures/ plates /assembly / pre assembly.
19. This clause is only applicable In case if weight of single piece (which is not a part of any assembly/pre assembly)of plate/structure/FGD element to be repair/patch up is less than 25 kg welding/peripheral length to install/weld the same is more than 2.5 meter than this clause is applicable.

12. Hopper Full/Partial replacement including stiffener / structure Fabrication & Replacement :

It includes shifting of plates and structure/stiffener from stores, fabrication of plate/ pre-assembly/ assembly and cut the damaged / instructed duct plates / pre-assembly / assembly / Hopper & erection of new plate Hopper assembly / pre-assembly / assembly.

1. Open the manholes of duct as per clause 13
2. Carryout joint inspection with GIPCL-EIC of the casing wall plate of hopper for any damage and other abnormalities. If required, make proper platform for checking these duct plates though thickness measurement also. Contractor has to clear ash accumulation on duct surfaces by manualy either by hammering the duct / Hopper plate or scrapping the duct plate by wire brush or scrapper plate.
3. Fabricate the steel plate with proper edge preparation. As per instructions of Engineer I/C, cut the damaged duct/hopper plates & erection of new plate.
4. Carry out the welding on all sides of the new plate / hopper assembly / pre assembly.
5. Welding is to be done by certified welders or approved welder by GIPCL only.
6. If required cut the beam of the casing wall / hopper surrounding structure for the replacement of plate as per the instruction of EIC. After welding of new plate, erect the beam / hopper surrounding structure and re-weld.
7. Fabrication and erection of Manhole doors of duct/ hoppers.
8. Welding electrodes of pre heated AWS 7018 electrodes to be used for fabrication and erection work (ADOR, L&T, ESSAB, D&H MAKE and ADVANI only). Approval of electrode taken before use.
9. If required, stitch welds the corners of duct plate by ISA 50 / 75 / stiffener of appropriate size as per instruction of Engineer in-charge or as per drawing given.
10. Fabricated plates /assembly / pre-assembly are properly clean by wire brush / buffing before painting. One coat of red oxide primer with two coats of synthetic paint to be applied as per instruction of GIPCL engineer. Paint shall be provided by GIPCL.
11. If required, replace the duct / hopper stiffeners of ISMC.
12. Replace the manhole door rope; close the all manholes & tighten it as per clause 13.
13. Carry out the air test; rectify the defects noted in air test & reapply mineral wool & sheeting.
14. The duct plate, bracing pipe, ISA, ISMC or ISMB material is of standard make.
15. Area supervisor has to ensure that work area is free of fire hazard during and after completion of work.
16. Fire blanket to be used where ever required, while welding at erection front to avoid fire. (Fire blanket shall be provided by GIPCL on chargeable basis).
17. Safety net to be used wherever required, while erection to avoid fall of person / object. (Safety net shall be in the scope of contractor).
18. All safety measures are to be followed while erection of the structures/ plates /assembly / pre assembly.

19. This clause is only applicable for replacement in hopper in case of path up in hopper clause No.12 is applicable.

13. Opening & Closing of various Man Hole Door[MHD] Bolted/ clamped of flue gas path / ESP inner-Outer roof or casing/ hopper MHD :

1. Open mannole door. Replace rope with new one and jointly inspect the FGD duct / ESP with as per instruction of engineer in-charge. Box up then after.

14. Anti corrosive painting/epoxy to plate / structure :

1. Fabricated plates are properly clean by wire brush / buffing before painting.
2. One coat of red oxide primer with two coats of synthetic paint/epoxy to be applied as per instruction of GIPCL engineer.
3. Paint shall be provided by GIPCL.

2 GENERAL INSTRUCTION FOR SCOPE OF WORK:-

1. Scaffolding erection is to be started 15 days prior to start of shutdown as per instructions of Engineer in charge.
2. Take a permit to work at height.
3. Proper approach of ladder is to be made on each scaffolding for inspection & repairing work. Also side hand railings are to be provided.
4. Structure of scaffolding should be erected by a competent person only.
5. Material of construction (i.e. struts, ledger, putlog, coupler, base plate, wooden plank, gangway, ladder etc) is to be inspected to ensure they are free from defect.
6. Any damaged or defected component should be removed immediately to avoid use in installation of scaffolding.
7. Scaffolding structure should be installed on solid foundation.
8. Diagonal braces should be used to avoid displacement.
9. Whole scaffolding structure should be secured with permanent structure.
10. Ladder should be extended above platform up to top guard rail.
11. Any modification or alteration of existing scaffolding should not be carried out without permission.
12. Worker with height phobia or vertigo should not be allowed to access scaffolding.
13. Working in extreme bad weather (dusty, windy or rainy), working on scaffolding should be restricted.
14. Safety harness should be used by one and all working on scaffolding.
15. Only permitted number of workers should be allowed work. Ensure it is not overloaded.
16. Tools for working should be carried in a box.
17. Scaffolding structure should be inspected at least on weekly basis.
18. Any damaged components should be replaced by competent person only.
19. Fabrication / Dismantling /Erection of structure to be carried out at different elevation from ground level to 30 meter.
20. Before starting of the work, required HOT, HEIGHT & Equipment clearance permit are to be taken. After issuing all the permits by concern department, work shall be started.
21. Execution of the work is round the clock and in all the days.
22. Arrangement for lighting at the work spot while carrying out fabrication, removal, erection activities has to be made by the contractor. He has to arrange all lighting equipments such as power cable, hand lamps etc. The contractor has to take prior approval for taking electrical power supply.

23. Before starting the work all tools & tackles to be verified with GIPCL representative and certificates of lifting tools/tackles, vehicle license along with other legal & statuary requirement is to be verified with GIPCL safely after submitting required documents and checking.
24. Necessary gate-pass for manpower from our HR & A dept and security dept. is to be taken during mobilization.
25. The contractor shall have to submit daily reports showing fabrication / erection work carried out including material / consumables etc. used.
26. You have to deploy site-in-charge who will co-ordinate day to day activities with GIPCL and submit job-card daily.
27. The contractor has to do quality job. GIPCL shall not compromise in quality. In case of poor quality of work the contractor may be asked to rework the job at his own cost.
28. Steel Material shall be issued in MT on measurement basis from our warehouse.
29. Shifting of raw material from GIPCL store will be in your scope. However Hydra shall be provided on chargeable basis subject to availability for loading / unloading.
30. Watch and ward of steel is in your scope.
31. Actual work will be checked in MT on measurement basis and accordingly steel will be reconciled.
32. At the end of every month, you have to submit steel reconciliation statement while submitting monthly R A bill. The monthly bill will be processed on the basis of daily job cards and steel reconciliation statement.
33. It is a pre-condition that the contractor and the persons deployed by him are for a Contractual period only.
34. Contractor has to prepare job card for each work permit which is to be filled & verified immediately after completion of work. This payment of each work will be verified based upon job card only.
35. If any damage occurs due to negligence of contractor, he has to bear the entire cost of repair / replacement of equipment /machinery to the satisfaction of GIPCL.
36. Contractor shall make their own arrangement for transportation of manpower, T&P & consumables.
37. It is the responsibility of site in charge / supervisor to segregate and remove the scrap from site regularly. Work will be certified by GIPCL engineer only after removal of scrap to the scrap yard. In case of heavy weight items, Hydra shall be provided on chargeable basis. If the scrap removal is not done within the stipulated time given by GIPCL Engineer, the scrap will be removed by GIPCL at the Contractor's cost with penalty and it will be deducted in the RA bill.
38. Insulation removal is to be started immediate after completion of scaffolding work prior to start of shutdown as per instructions of Engineer in charge.
39. Contractor has to dump the insulation wool in scrap yard immediately after removal, as per instructions of Engineer I/C. The insulation scrap wool is to be collected in Gunny Bags & bags are to be packed so that wool scrap will not spread. This is an environmental hazard.
40. Contractor has to arrange vehicle at their cost for transfer of steel structure, insulation from warehouse to site and scrap to scrap yard.
41. Contractor shall depute the safety officer for looking after the safe condition of scaffolding, work carried out on height etc.
42. It is the contractor's responsibility to clean up the entire work area after completion of the job, by removing all scrap, used/discarded material, etc. to designated locations in consultation / co-ordination with EIC.
43. In case, the housekeeping quality is not up to the satisfaction, the EIC get the area cleaned through other contractors and debit the expense incurred towards the same.

44. Daily manpower report need to be submit by contractor on daily basis as per jointly decided / predefine format in soft as well as hard copy
45. Subject to instruction of GIPCL engineer in-charge, future allocation/mobilization of manpower, work front available, progress of work and future planning of execution/deputation/mobilization of resources Contractor need to intimate draft estimated list of material required from GIPCL to execute definite work at respective time well in advance by 1 month.

3 SCOPE OF GIPCL:-

Scope of GIPCL includes,
Free issue of structural steel like M.S. Plate, chequered plate, angles, channels, beam etc., Metallic and non-metallic expansion joints, Insulation material like mineral wool, ceramic wool, aluminum cladding sheet & other ancillary material, fasteners, paints etc.

The Contractor has to collect above items from GIPCL stores/warehouse and shifting arrangement has to be made by Contractor at his own cost. Contractor shall give report/reconciliation of the issue of materials drawn.

4 PERIOD OF COMPLETION:-

Time period during running units

The scope of work against this work order will be continued throughout the contract period for repair / replacement of flue gas duct in running units.

Time period during shutdown of Units

The completion period for the pre shutdown activities shall be 15 days for erection of scaffolding at different locations as mentioned in the scope of work and insulation removal of ESP side casing, which do not require shut down of Boiler. Shutdown period is tentatively 15 to 21 days for Unit-1 to 4 for repair / replacement of damaged flue gas duct and MEJs/NMEJs replacement & normalizing of the system and post shutdown period is 15 days for removal of scaffolding, site cleaning etc.

5 EXPECTED DATE OF COMMENCEMENT:-

- Time schedule for completion of job is as below:
- Contractor need to mobilize required resource within 15 days from the date of WO for running unit job
- For shutdown Contractor need to mobilize required additional resource within 7 days from the date of intimation.
- Shutdown period :For Unit-1, to ,4: 15 to 21 Days for each unit tentatively
- For each unit from the date of handing over of work front from GIPCL.
- The pre shut down activity period is excluded from this.
- The basic considerations and the essence of the 'Contract' shall be the strict adherence to the time schedule for performing the specified 'Works'. The entire works (except the pre shutdown activity) as specified in scope of work shall be completed as above.

- The work shall be carried out continuously round the clock with 2x12 hours shift working. Separate gangs shall be engaged in each shift without engaging the same manpower including site supervisor.
- In case of delay in executing the contract by contractor, GIPCL reserves the right to engage another contractor and complete the balance job at the risk and cost of the contractor.
- Part of the work shall be carried out in Unit 1,2,3 & 4 boiler during annual overhaul planned tentatively in the month of June to Sept . Here monsoon will be commenced from 16 june and last up to October 1st week. The average rain fall is around 40 inch and maximum up to 100 inch. Partly shall plan their resources accordingly to execute the work in time bound period.

- Mobilization of site:-
  The requisite men / material / equipment / T&P etc. have to be mobilized immediately on placement of our letter of intent and getting the confirmation from us. GIPCL shall initiate to party seven days in advance.

6 TIME SCHEDULE:-

The basic considerations and the essence of the 'Contract' shall be the strict adherence to the time schedule for performing the specified 'Works'.

7 MEASUREMENT & DAILY REPORTS:-

The measurement will be as per specified in respective item description.

- Contractor should maintain one computer, printer and internet connection for keeping daily records and maintain the data. Contractor must provide separate site e mail ID to M/s GIPCL for day to day site communication and instruction.
- The Contractor shall be required to furnish satisfactory job completion report to GIPCL. The submission of report should be on daily basis in physical form and soft form/pdf (on next day for whole day against applicable service clause code), the monthly bill payment shall be released based on the certified reports of the works.
- Inspection of work will be done by Engineer in Charge or his authorized representative. If the work is not found satisfactory engineer in charge reserves the right to take suitable action and shall be binding to the contractor.
- Contractor should maintain proper documentation for all activities against execution of contract as per instruction of engineer in-charge and submit report in prescribed / pre define format (like material issued report: yearly/monthly , oil top-up matrix , scrap note report , material return report , break down report , summary / extract data from report, AOH planning, BTL planning , short shutdown planning, forced outage planning, resource planning , AOH/BTL/SSD/FSD report, Work execution history against each equipment etc..) as per operating frequency of report or as and when required by GIPCL Engineer in charge.
- Wherever any dispute regarding mode of measurement arise, the decision of the Engineer-in-charge shall be final and binding to the contractor.

8 CONTRACT PERIOD:-

8.1 The contract will be for a period of 12 Months from the date of actual commencement of operation of the contract as stated in the Work Order ('Contract Period').

8.2 GIPCL reserves the right to extend the Contract Period up to 6 months on the same rates and terms and conditions without any price escalation and entering into any new contract.

8.3 The said Contract Period can be extended if mutually agreed upon by both the parties up to one year and in such a case a revised work order shall be issued at the same rates and terms & condition or at negotiated rates acceptable by both parties i.e. the Company & the Contractor.

9 CONTRACT PRICE:-

"Annual Rate Contract for repair/replacement /strengthening of casing & hoppers of Electro Static Precipitator (ESP) & casing / structure /support /duct assemblies of Flue gas path carries flue gas and Installation of NMEJs over existing MEJ of flue gas duct of flue gas path in unit-1 to 4 Boiler for compliance of Revised Environmental Norms for year 2019-20" at Surat Lignite Power plant, PO. Nani Naroli, Ta Mangrol, Dist Surat of Rs.2,16,69,390.75 (Rupees Two Crore Sixteen Lakh Sixty Nine Thousand Three Hundred Ninety and Seventy Five paisa only) including 18% GST. The duration of contract period is one year

Sr. No.	Description	UOM	Qty. (A)	Unit Rate (B)	Total cost (C = A X B)
1	Provide scaffolding material , Erect and dismantle scaffolding for attending air ingress / air leakage to identify and/or to repair flue gas path at outer side of APH to ESP duct , Inlet funnels ,ESP casing wall , outlet funnels, ESP to ID fan and Id fan to Chimney.	M^2	34408	52.75	1814934.82
2	Provide scaffolding material ,Erect and dismantle scaffolding for attending air ingress / air leakage to identify and/or to repair flue gas path at inner side ESP casing wall (CRM Floor).	M^2	7820	56.58	442484.11
3	Provide scaffolding material, erection and dismantling of scaffolding inside ducts and hoppers in all four units.	M^3	2346	58.98	138370.03
4	Provide scaffolding material, erection and dismantling of scaffolding for MEJ/NMEJ and miscellaneous work at outside area in all four units:	M^3	23460	52.75	1237455.50
5	Removal & re-application of hot insulation with cladding sheet on ducting / ESP casing / hoppers etc. in Unit-1 to 4	Square Meter	11520	296.23	3412569.96

Sr. No.	Description	UOM	Qty. (A)	Unit Rate (B)	Total cost (C = A X B)
6	Fabrication and repair / replacement of damaged flue Gas Duct / ESP casing	Metric Ton	136	22384.11	3044238.50
7	Fabrication and repair / replacement of damaged flue Gas Duct / ESP casing wall of 6 mm thickness:	Metric Ton	162	14549.67	2357046.43
8	Installation of non-metallic expansion joints (NMEJ) on existing metallic expansion joints (MEJ):	Per Meter	306	3164.85	968443.48
9	Scaffolding erection charges-GIPCL scaffolding Material	M^2	19125	19.47	372337.17
10	Critical sealing patch-up / Repair :	Meter	1020	191.81	195645.15
11	Critical sealing replacement :	Meter	510	287.71	146733.86
12	Hopper Full/Partial replacement including stiffener / structure Fabrication & Replacement	Metric Ton	164	23906.11	3920602.17
13	Opening & Closing of various Man Hole Door[MHD] Bolted/ clamped of flue gas path / ESP inner-Outer roof or casing/ hopper MHD :	No.	204	95.90	19564.51
14	Anti corrosive painting/epoxy to plate / structure / assembly :	M^2	2550	115.09	293467.72
15	Work Order Total before GST	Rs.			18363890.47
16	GST @ 18%	Rs.			3305500.28
17	Work Order Total before GST	Rs.			21669390.75

10 QUANTITIES:-

The quantities specified are estimated and for tendering purpose only. Payment will be made, based on actual work done as certified by Engineer-in-charge of GIPCL.

Quantities of individual items may be revised during the course of contract period based on site requirement. Contractor shall not be entitled for any compensation on ground of such alteration in scope of work. GIPCL reserves the right to operate or increase/decrease quantities in each item or omit any item included in Schedule of Quantity at his discretion. Contractor shall have no claim, whatsoever, on grounds of loss of anticipated profit etc. on account of the same.

After commencement of the work, GIPCL, for any reason may not require to be carried out the whole/part of the work as specified in the tender, the ENGINEER-in-charge shall inform the fact for thereof to the CONTRACTOR and contractor shall have no claim for any payment or compensation whatsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of the full amount of the work not having been carried out nor shall he have any claim for compensation by reason of any change having been made in the original

GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 112

Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261080 E-mail : genslpp@gipcl.com

Ref. No.: SLPP/Civil/ Limestone shed/2021/ 687 Date: 15.03.2021

WORK ORDER

To,
M/s. Meena Construction,
At & Post : Naninaroli, Near Bus stand,
Taluka:-Mangrol, Dist: - Surat Gujarat -394112

Dear Sir,

SUB: Surat Lignite Power Plant - 4X125 MW, Unit # I to IV: **Civil and Electrical Works for Construction of Limestone Shed**

REF: (1) Our online e-tender inquiry No.: SLPP/Civil/Limestone Shed/2020 (nProcure E-Tender ID: 435862) dated 21.11.2020.
(2) Your online offer for above e-tender inquiry along with letter dated 11.12.2020.
(3) Your final offer through nProcure e-Reverse Auction (ID: 14112) dated 04.01.2021.
(4) Our LOI No SLPP/Civil/ Limestone shed/2021/501 dated 25/02/2021

With reference to the above, we are pleased to issue this "Work Order" to you (hereinafter called "Contractor") for "Civil and Electrical works for Construction of Limestone Shed" at GIPCL (SLPP), Village: Vastan, Taluka: Mangrol, Dist.: Surat, on the following terms and conditions:

01. SCOPE OF WORK

1) Dismantling of existing structure work.
2) Site cleaning & levelling of area
3) Lay Out and Excavation for foundation up to required depth, Stacking of good soil, disposal of black cotton soil as per directive.
4) Backfilling with bed ash /stack soil for foundation.
5) Lime & sand mixture filling work below foundation.
6) Rubble soiling work below foundation.
7) PCC for foundation.
8) RCC for foundation, pedestal, plinth beam,lintel beam, drain, coping, column etc.
9) Reinforcement & shuttering work for foundation, pedestal, plinth beam, lintel beam, drain, coping ,column etc
10) Foundation bolt fixing.
11) Non shrink Grouting work.

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12) Anchor fastening work.
13) Expansion joint work.
14) Brickwork upto 3.0meter level.
15) Internal & external Plaster work.
16) Electrification work.
17) All Misc work as per direction of GIPCL engineer.

For detailed scope of work, please refer clause no. 1 of special condition of contract.

02. CONTRACT PRICE

The total contract price for the given scope of work shall be Rs. 95,79,084.82 (Rupees Ninety Five Lakhs Seventy Nine Thousand Eighty Four and Eighty Two Paisa only), excluding GST as per SoR (enclosed as Section-C).

The item rates shall be inclusive of cost of all materials, labour, supervision, setting out, machinery and equipment, transport charges, loading, unloading, equipment, machinery, Road Roller, AJAX Machine with weighment printing facilities, water tanker, Standby arrangement of Weigh batcher Mixer machine capacity minimum 02 bags, JCB, vibrator, Hydra, plate compactor etc. all the required tools and tackles, wastage of material, all consumables such as, but not limited to petrol, oil, diesel, lubricants, all required, , storage of materials/equipments/consumables, preparation & submission of report, office establishment, safety equipments & PPEs, Legal & Statutory requirements, Royalties, Rents, Excise duty, Sales Tax, Stamp Duties, Central or State Government or Local body or Municipal Taxes or Duties, Turn over Tax, Work Contract Tax, VAT, Octroi duty and / or any other duty / tax (except GST), levied by the Central, State Government or other Public bodies, overheads, profit etc...and such other costs that are not specifically mentioned herein but will be incurred by the contractor for the satisfactory and timely completion of the work. The whole item rates shall be deemed to include for everything mentioned in the specification, all leads & lifts, contractor's overheads & profits for due performance of the work under this contract and such other costs that are not specifically mentioned herein but will be incurred by the contractor for the satisfactory and timely completion of the work. The rates shall also include cost for mobilization / demobilization of manpower, equipments, materials, etc... as per work requirement.

The prices /item rates shall remain firm till completion of the contract period and any agreed extensions thereafter and shall not be subject to any other escalation, idle charges for labour, machinery, overhead expenses etc. No price escalation / idle charges shall be payable due to delay in work by contractor or due to non-availability of work front by GIPCL or any reason whatsoever.

The price/rate quoted by CONTRACTOR shall be considering mobilization of all required manpower, tools & tackles, materials, equipment for timely and satisfactory completion of all scope of work.

The value and/or quantum of work may be increased or decreased depending upon day to day requirement. However, item rates remains unchanged and

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SECTION-C
PRICE SCHEDULE

Name of work:-Civil and Electrical works for Construction of Limestone Shed.					
Sr. No	Item Description	Quantity	UNIT	Rate (Rs)	Amount (Rs)
1	Breaking, dismantling and removing existing RCC / PCC / brick work with plaster including disposing outside the premises within 3-5 km (One way Radial distance) the material and making the site clear as directed by Engineer-in-charge.				
	A) For PCC	10	M3	875	8750
	B) For R.C.C	10	M3	1275	12750
	C) For Brick masonry with plaster	10	M3	360	3600
2	Earthwork in excavation in all kinds of soil for foundations, plinth beam, forming drains, culvert,trenches, pile lines, etc (excluding hard rock requiring chiseling or blasting) including all lift, in both wet and dry conditions, dewatering of surface and subsurface water, shoring, planking and strutting (if required), disposal of black/unwanted excavated soil, debris, stones, limestone waste etc within lead of 3.5 KM (One-way radial distance) at designated location as per specifications and directions of the engineer in charge. (The measurement for payment shall be the theoretical excavation volume only as per drawing i.e. for the volume of the block of the bottom excavation having the depth and maximum dimensions of the foundation structures including mud mat as per drawing). The contractor shall take into account in his rate the provision for any excess excavation for necessary working space, steps, sloping etc. required for excavation safely and other & re-filling the side slope/working space etc.) Depth of excavation is to be measured from existing ground level. Plan dimension of PCC as per drawing shall be considered for measurement of excavation for payment. **For depth up to 1.5 meter.**	1442	M3	175	252350
3	Earthwork in excavation in all kinds of soil for foundations, plinth beam, forming drains, culvert, excavation in trenches, pile lines, etc (excluding hard rock requiring chiseling or blasting) including all lift, in both wet and dry conditions, dewatering of surface and subsurface water, shoring, planking and strutting (if required), stacking of good excavated soil within lead of 100 meter at designated location as per specifications and directions of the engineer in charge. The contractor shall take into account in				

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Sr. No	Item Description	Quantity	UNIT	Rate (Rs)	Amount (Rs)
	his rate the provision for any excess backfilling for excavated area for necessary working space, steps, sloping etc. required for excavation safely and other & re-filling the side slope/working space etc. (The measurement for payment shall be the theoretical excavation volume only as per drawing i.e. for the volume of the block of the bottom excavation having the depth and maximum dimensions of the foundation structures including mud mat as per drawing). The contractor shall take into account in his rate the provision for any excess excavation for necessary working space, steps, sloping etc. required for excavation safely and other & re-filling the side slope/working space etc.) Depth of excavation is to be measured from existing ground level. Plan dimension of PCC as per drawing shall be considered for measurement of excavation for payment. For depth 1.5 meter to 3.0 meter	1200	M3	205	246000
4	Same as above item number 3 but for depth 3.0 meter to 6.0 meter	242	M3	215	52030
5	Earthwork in backfilling around foundation, pits, trenches, pipe lines, filling under floors and other substructures with selected excavated material compacting the backfilling in layers of 15 cm to achieve dry density of 95% modified proctor density including carting of the backfill material from areas where it is stacked, spreading evenly the unused excavated material in the stacking yard after backfilling complete as per specifications and directed by engineer. (The measurement for payment shall be the theoretical excavation volume paid in item no.2 less volume of concrete as per drawing. The contractor shall take into account in his rate the provision for any excess backfilling for excavated area for necessary working space, steps, sloping etc. required for excavation safely and other & re-filling the side slope/working space etc)	1442	M3	100	144200
6	Filling of fly ash or bed material or mixture of the both, in foundations, plinth beam, under floors, trenches and other places, at all lead, depth, lift and locations including watering and compacting or flooding with water, dressing & leveling etc.complete as per drawing, specification and instruction of the engineer (Fly ash and bed material of required quantity shall be free issue from fly ash/bed ash silos, however, necessary transportation by fully covered dumper/truck shall be in the scope of contractor and the remained/unused quantity of fly ash shall be removed from site by the contractor as directed).				

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Sr. No	Item Description	Quantity	UNIT	Rate (Rs)	Amount (Rs)
	The measurement for payment shall be the theoretical excavation volume paid in item no.2 less volume of concrete & backfilling quantity under item no. 4 as per drawing. The contractor shall take into account in his rate the provision for any excess backfilling for excavated area for necessary working space, steps, sloping etc. required for excavation safely and other & re-filling the side slope/working space etc)	1000	M3	200	200000
7	Providing, Supplying, loading, unloading, shifting and filling in foundation trenches and in basement under floors with mixture of 50% river sand and 50% GIPCL approved quality lime in layers of 100mm and consolidating all complete as directed by Engineer in charge including shuttering.	125	M3	3500	437500
8	Providing and laying 230mm thick rubble soling to proper line, level and slope below foundations, beam, drains including hand packing, wedging, binding/filling all joints using bed materials, watering, ramming, manually compacting, dressing, etc. complete as per drawing, specification and instruction of the engineer in charge (Bed material of required quantity shall be free issue from fly ash/bed ash silos, however, necessary transportation by fully covered dumper/truck shall be in the scope of contractor and the remained/unused quantity of fly ash shall be removed from site by the contractor as directed).	100	M3	475	47500
9	Providing and laying in position plain cement concrete as levelling course under foundations, Plinth Beam, trenches, concrete bedding, plinth protection etc., at any depth and at elevation as per drawing including preparing and ramming the base before placing the concrete, curing, compacting, dewatering (if required), including form work etc. all complete as per drawing and as directed by Engineer in charge for the following Mix. (A) 1:4:8 (1 cement : 4 sand : 8 graded stone aggregates 20 mm nominal size)	105	M3	3650	383250
10	Same as above item number 9 but for mix 1:3:6 (1 cement : 3 sand :6 graded stone aggregates 20 mm nominal size)	10	M3	3750	37500
11	Providing and placing plum concrete consisting of PCC and rubble pieces of size between 150mm to 200mm including necessary formwork, ramming, levelling, curing, etc. complete as per drawings, and as directed by the Engineer. a) 70:30 ratio with 70% PCC 1:4:8 and 30% plum	5	M3	3500	17500

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Sr. No	Item Description	Quantity	UNIT	Rate (Rs)	Amount (Rs)
12	Providing laying & placing in position approved mix design reinforced cement concrete using concrete grade M25 (minimum cement content 390 kg) with 20mm downgraded black trap coarse aggregates at all levels including mixing and placing concrete in position, vibrating, curing, de-watering, embedment, edge angles, insert plates, pipe sleeves, anchor bolts etc.. wherever necessary, providing construction joints, leaving cut-outs / pockets, weep holes in retaining wall/ counter fort, etc., complete, including cost of providing ply formwork including coating form work with approved quality of non-staining mineral oil for all RCC elements for any shapes & size, scaffolding, centering and also including all labours, supervision, materials, equipments, tools & tackles etc. all complete as per detail technical specifications, drawings and as directed by Engineer-in-Charge for the structural elements with following grade of concrete: (Reinforcement will be paid separately)				
	A) For Foundation & Columns/pedestals below G.L.	610	M3	6000	3660000
13	B) Same as item no. 12 for Column / pedestal Above G.L.	27	M3	6000	162000
14	C) Same as item no. 12 For Ground beam/Plinth beam.	52	M3	6200	322400
15	D)Same as item no. 12 For storm water drains.	42.75	M3	6200	265050
16	E) Same as item no. 12For Ground Floor Beam.	10	M3	6200	62000
17	F) Same as item no. 12 For lintels, bands, coping.	20.7	M3	6200	128340
18	Providing, supplying, cleaning TMT/HYSD Bar reinforcement conforming to IS:1786 of approved make for RCC work including supplying of bars of required diameter, straighten, handle, cutting, bending, crank, fixing and tie in position as per approved drawings at all locations & levels as directed by engineer in charge with the using of PVC cover blocks for all grade of concrete in all RCC items including cost of GI binding wire 18SWG double strand etc complete including cost of all required labours, supervision, materials and equipments, tools & tackles, transportation, loading, unloading, shifting etc all complete as directed by engineer in charge. (Payment shall be made on actual length measurements of fabricated steel work as per drawing including authorized laps only for theoretical weight for different sections. No payment shall be paid for reinforcement used for chairs, spacers & fixing bolts. No payment shall be made for binding wires.)	51620	KG	60	3097200

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Sr. No	Item Description	Quantity	UNIT	Rate (Rs)	Amount (Rs)
19	Providing, laying & constructing brick masonry of any thickness in superstructure (from Plinth beam top upto 3.0 meter height) in cement mortar 1:5 using approved quality fly ash bricks in true line & level, including scaffolding wherever necessary, curing, raking joints, etc. complete for all lead & lift as per specifications and as directed by Engineer in charge. **NOTE: The rate includes supply of approved quality fly ash bricks by contractor.**	110	M3	3125	343750
20	Providing & Laying plaster with CM 1:5 (1cement, 5 sand), 12mm minimum thick to interior/exterior faces of walls, beams, stairs, columns, pardis, bends, moulds, pattas including providing and applying lime punning with properly slaked fat lime @ 2.2kg/sq.m to the plaster work when it is still green and finishing the area to a smooth and even finish. Rate should also include provision of grooves, scaffolding to any height, curing and finishing smooth complete. Rate also includes hacking of RCC surfaces and providing and fixing chicken mesh at junction of RCC and masonry and for electrical conduits.(for purpose of measurement actual treated area shall be measured)	730	M2	210	153300
21	Providing and filling expansion joints in between RCC ELEMENTS by 25 mm thickness SILFEX pre molded compressible filler board in black color, of approved make (Supreme industries or equivalent) confirming MORTH specification (Clause 1015), having minimum density of 95 Kg/ Cum, non staining with less than 1% water absorption & compression recovery of 93% minimum as per the specifications and filling with bitumen tar and sand mixture to finish the top surface including all material, labour, transportation, tools & tackles etc complete as directed by Engineer-in-charge.	10	M2	1065	10650
22	Labour charge for placing, aligning, fixing in position to correct lines and levels all types of mild steel embedments such as plate inserts, pipe sleeves, foundation bolt/foundation bolt assemblies, edge protection angles etc, in reinforced concrete works all as per specifications and as shown in construction drawings and as directed by the Engineer using steel templates, etc. as required. (templates used for fixing inserts will not be measured and paid for). Threaded part of bolt shall be protect by using greece & solid plastic bags. Transportation of Foundation bolt form warehouse/godown etc. shall be in the scope of contractor.	4100	KG	45	184500

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Sr. No	Item Description	Quantity	UNIT	Rate (Rs)	Amount (Rs)
23	Grouting of the bases of equipment/stanchions including anchor bolt pocket/ pipe sleeves etc. with using ready mix approved make non shrinkage free flow grout (CONBEXTRA GP2 ready mix grout) as per manufacture's instructions, including labour, tools, plant, shuttering, curing, roughening/ chipping of foundation concrete to required level where necessary etc. complete as per specifications and as directed by Engineer.	1.25	M3	51300	64125
24	Supplying and fixing anchor fasteners of FAVOURITE / DASH or other approved make in RC beams, columns and slabs including scaffolding, drilling holes etc. complete as per manufacturer's specification and as directed by theEngineer. For 12 mm dia.	10	EACH	265	2650
25	Same as item no. 18 but for 16 mm dia.	10	EACH	380	3800
26	Carry out miscellaneous work for Mechanical Eelctrical, HVAC, Instrumental, Piping Agency, like Making Zari / Groove in Masonry wall and also making finishing with cement plaster etc. complete including all tools, tackles, scaffolding and other required resources at all heights.	10	R.M	150	1500
	Total Cost for Civil works (A) (Excluding GST)				**1,03,04,195**

ELECTRICAL WORKS

Sr. No	Item Description	Quantity	UNIT	Rate (Rs)	Amount (Rs)
27	Supply of G.I. cable tray 300 mm perforated type	300	MTR	432	129600
28	Supply of 4Cx70 sqmm armoured aluminum cable 1.1 KV grade as per attached specification & make	500	MTR	217	108500
29	Supply of 3Cx2.5 sqmm armoured strended copper cable 1.1 KV grade as per attached specification & make.	1500	MTR	75.36	113040
30	Supply of brass double compression cable gland suitable for 3cx2.5 sqmm armoured copper cable (19mm) of make comet or dowells.	100	Nos	350	35000
31	Supply of brass double compression cable gland suitable for 4CX70 sqmm armoured aluminum CABLE cable (32 mm) of make comet or dowells.	10	Nos	500	5000
32	Supply of LED Fixture (equivalent to 400W HPSV) Minimum 180W high bay fixture of Bajaj / Philips / syska make only.	20	Nos	7500	150000
33	Supply of LED Fixtures (equivalent to 70W HPSV) well glass fixture of Bajaj / Philips / syska make only.	10	Nos	1500	15000

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Surat 394110

Sr. No	Item Description	Quantity	UNIT	Rate (Rs)	Amount (Rs)
34	Supply of lighting j.b. as per attached drawing	30	Nos	200	6000
35	supply of 35x6 mm G.I. earthing strip a EARTH FLAT, FULLY GALVANIZED IRON STRIPS CONFIRMS TO IS:2629 (1966) WITH ZINC DEPOSIT OF 615GMS/SQ. MTR & ZINC THICKNESS OF MIN.75 MICRONS	1500	MTR	104	156000
36	Supply of 70 sqmm aluminum log barrel lug of make dowells	50	Nos	70	3500
37	Supply of 25 KVA dry type copper wound Lighting transformer with enclosure as per attached specification of Make Voltamp, Power pack	1	Nos	100000	100000
38	Supply of 125 Amp change over switch in S S enclosure of make siemens/ L&T / C&S	1	Nos	15000	15000
39	Supply of 125 Amp 4-Pole SFU switch in S S enclosure of make siemens/ L&T /C&S	2	Nos	8000	16000
40	Supply of weather proof industrial 20Ampere single phase recepticle with enclosure (IP-55), RCCB & Top-Socket. Make - Ajmera / havells / Bals	4	Nos	3000	12000
41	Supply of weather proof 32Ampere 3 phase phase industrial recepticle with enclosure (IP-55), RCCB & Top-Socket. Make - Ajmera / havells / Bals	4	Nos	5000	20000
42	Supply & insttalation of conventional type earthing pit as per attached specification.	6	Nos	7500	45000
43	Supply of Main Lighting Distribution Board (MLDB) as per attached specification	2	Nos	35000	70000
44	Supply of main Power Distribution Board (PDB) as per attached specification.	1	Nos	25000	25000
45	supply of industrial Lightning arrestor reputed make	6	Nos	1000	6000
46	Erection of cable tray G.I. 300 mm perforated type in vertical formation @up to max 8.5 meter height coupler plates & hardware along shed structure.	300	MTR	110	33000
47	Cable Laying, dressing & Clamping of 4Cx70 sqmm armoured aluminium cable in cable tray/UNDERGROUND.	400	MTR	34	13600
48	Cable Laying, dressing & Clamping of 3cx2.5SQMM armoured copper cable in cable tray & stricture.	1500	MTR	17	25500
49	Cable glanding & endtermination of 3cx2.5 sqmm copper armoured cable at fixture at 21 meter height & jbs, L.P. etc.	100	Nos	150	15000
50	Erection of LED fixtures (equivalent to 400W HPSV) high bay fixture at app. 20 meter height	20	Nos	750	15000

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Sr. No	Item Description	Quantity	UNIT	Rate (Rs)	Amount (Rs)
51	Erection of lighting j.b. at app. 20 meter height-	30	Nos	100	3000
52	Erection of LED Fixtures (equivalent to 70W HPSV) well glass fixture at shed periphery.	10	Nos	440	4400
53	4Cx70 sqmm cable glanding & endtermination	12	Nos	660	7920
54	Erection of 35x6 mm G.I. earth strip	1500	MTR	30	45000
55	Erection of lighting arrestor at shed top	6	Nos	1000	6000
56	Erection of 125 Ampere change over switch with enclosure	1	Nos	500	500
57	Erection of 25 KVA dry type lighting transformer in enclosure.	1	Nos	3000	3000
58	Erection of 125 ampere switch fuse (SFU) unit with enclosure.	2	Nos	750	1500
59	Erection of main Lighting distribution board	2	Nos	1500	3000
60	Erection of Power distribution Board	1	Nos	1000	1000
61	Erection of 20 ampere 1 phase weather proof recepticale	4	Nos	500	2000
62	Erection of 20 ampere 3 phase weather proof recepticale	4	Nos	750	3000
63	Excavation of cable trench 750mm x 300 mm size, Sand bedding of 100 MM and Brick protection vertical to cable.	200	MTR	204	40800
	Total Estimated cost for Electrical works (B)				**12,53,860**
	Total Estimated cost for Civil and Electrical works (A+B) (Excluding GST)				**1,15,58,055.00**
	Rebate 17.122%				**-19,78,970.18**
	Total Contract Value (Excluding GST)				**95,79,084.82**
	GST 18%				**17,24,235.27**
	Total Contract Value (Including GST)				**1,13,03,320.09**

Note :- The above rates/Price shall be inclusive of all Materials, labour cost, equipments, supervision, consumables, tools, tackles, all taxes & duties (excluding GST) for complete given scope of works as per detailed specifications and drawings.

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SECTION-D
LIST OF ANNEXURES & FORMS

1.0 ANNEXURE-A

CHECKLIST FOR PASSING THE BILLS

For the month of :

1)	Work Order / P.O. No. & Contract value	:	
2)	Nature of work	:	
3)	Duration of Work Order	:	From to
4)	Maxi. No. of manpower per day deployed in the month.	:	M F Total
5)	Details of Labour License	:	Valid up to for Persons.
6)	Details of E.C Policy	:	Valid up to for Persons.
7)	Documents attached for verification for the previous month.	:	Wage & Attendance Sheets. Yes/No
			P.F Challan Yes/No
8)	Documents attached for verification (in case of Final Bill)	:	Bonus Payment Register Yes/No
		:	Leave wage register Yes/No
9)	Security Deposit / Retention Money lying with Co.	:	Yes / No if yes, Rs.

Date :

Signature of Contractor
with official stamp

GIPCL - SLPP * NANINAROLI *

GUJARAT INDUSTRIES POWER COMPANY LIMITED
(SURAT LIGNITE POWER PLANT)

Note: SLPP/MECH/FGD/2022-24/009/Award of WO **Date: 22.04.2022**

Subject: Approval for award of work to lowest bidder (After Reverse Auction) M/s Uppli Balaji Engg construction Comp., Vadodara for tender of "Repairing/replacement/strengthening of Casing & hoppers of Electro Static Precipitator (ESP) & casing/structure/support/duct assemblies of flue gas path carries flue gas including ESP maintenance in unit-1 to 4 Boiler for proper and smooth compliance of Revised Environmental Norms" for the year 2022-24 uploaded through N-Procure portal (Tender ID: 489054)

Reference:

1. Administrative Approval Note "SLPP/MECH/BLR/FGD/2021/001" dtd 03.09.2021
2. Continuation sheet "SLPP/MECH/BLR/FGD/2021/002" dtd 14.10.2021
3. Continuation sheet-2 "SLPP/MECH/BLR/FGD/2021/003" dtd 23.11.2021
4. Continuation sheet-3 "SLPP/MECH/BLR/FGD/2021/004" dtd 22.12.2021
5. Tender ID 489054 floated on 24.01.2022.
6. Extension Note "SLPP/MECH/BLR/FGD/2021/005/EXT1" dtd 07.02.2022
7. Extension Note "SLPP/MECH/BLR/FGD/2021/006/EXT2" dtd 22.02.2022.
8. Note for Opening of technical bid "SLPP/MECH/FGD/2022-24/007/Tech bid" dtd 04.03.2022
9. Note for Opening of price "SLPP/MECH/FGD/2022-24/00/Price bid" dtd 31.03.2022
10. Auction S-55-66325 carried out on 11.04.2022

As per administrative approval note "SLPP/MECH/BLR/ESP/2021/004" dated 22.12.2021 approved by CA on 13.01.2022 to publish open e-tender inquiry of online bid for said tender, the estimated contract value based on the schedule of Rates (SOR) of the proposed contract is Rs. 325.34 including 18% GST and excluding profit/service charge.

The open tender has been floated on the website www.nprocure.com on 24.01.2022 and a Newspaper advertisement was given in the newspaper on 24.01.2022 for 21 days (The due date for online bid submission is 14.02.2022 1730 Hrs)

Tender advertisement published for inviting bids in the following newspapers.

Newspaper	Edition (inside)	Newspaper	Edition
Times of India	All India (Colour)	Gujarat	Vadodara, Surat, Bhavnagar, Bhuj
Sandesh	All Gujarat (B & W)	Samachar	Rajkot, Ahmedabad & Mumbai

Besides pan India tender advertisement, Mail intimation & subsequent reminders for participation were also given to fifteen known & prospective bidders 7 times during tendering period of 38 days. In response to the advertisement & mail intimation, request mail received from following vendors tabulated below and In view of more participation & competition and keeping adherence of overhauling schedule in consideration, Due date is extended upto 03.03.2022. The final schedule of tendering is as given below:

Description	Existing Due Date	Extension Request from	Revised Due Date
Initial Floating			14.02.22
Extension # 1	14.02.22	M/s Thermax, Pune	24.02.22
Extension # 2	24.02.22	M/s Unicon, Coimbatore	03.03.22

The last date for submission of physical documents, EMD, and the tender fee was 03.03.2022. Approval note for the opening of technical bid put forward. Based on approval from CA on 04.03.2022 part-1 bid (techno-commercial bid/ pre-qualification bid) opened on 04.03.2022 in presence of the finance department for following bidders.

Sr. No.	Vendor Detail
1	M/s Uppli Balaji Engg construction Comp., Vadodara
2	M/s Helios Infra Pro Pvt. Ltd., Kolkata
3	M/s Thermax Limited, Pune
4	M/s Gupta Industrial Main. Services Pvt. Ltd., Nadiad
5	M/s Moonlight Engineering Company, Bhuj

Evaluation of pre-bid qualification and the techno-commercial bid is carried out in detail along with documents required to qualify the bid and additional credential submitted by the individual vendor. The observation as below:

- After in-detail assessment and verification of the document with reference to the tender document, the following 3 bidders qualify for Techno commercial/pre-bid qualification, and 2 bidders are not qualified as per the eligibility criteria mentioned in the tender specification.
- Detail qualification status is as tabulated as below

Serial No.	Bidder Detail	Remark
1	M/s Uppli Balaji Engg construction Comp., Vadodara	Qualified
2	M/s Helios Infra Pro Pvt. Ltd., Kolkata	Qualified
3	M/s Thermax Limited, Pune	Qualified
4	M/s Gupta Industrial Main. Services Pvt. Ltd., Nadiad	Not Qualified
5	M/s Moonlight Engineering Company, Bhuj	Not Qualified

Reason for disqualification:

1. Documents submitted by Ms Moonlight Engineering Company, Bhuj were not sufficient and falls short of meeting eligibility criteria regarding (i) carryout similar work during last five years [2017-2021] with minimum contract value as defined in the tender (Clause No 2 of Eligibility Criteria) & (ii) further Ms Moonlight Engineering Company, Bhuj also not posses minimum of three years of

experience of similar work as defined in tender in the last five years [2017-2021] (Clause No 1 of Eligibility Criteria).

2. M/s Gupta Industrial Main. Services Pvt. Ltd., Nadiad also neither posses minimum of three years of experience of similar work as defined in tender in the last five years [2017-2021] (Clause No 1 of Eligibility Criteria) nor they carryout similar work during last five years [2017-2021] with minimum contract value as defined in the tender (Clause No 2 of Eligibility Criteria).

In Consideration of above, Approval for opening of price bid and further carryout e-reverse auction among qualified bidder in line with methodology prescribed in tender for e-Reverse auction put forward on dated 31.03.2022 After obtaining approval on 08.04.2022, price bid opened and further carried out e-Reverse auction as summarized below:

- E-Reverse auction intimation mail given to all three qualified bidder for

1. E-Reverse auction planned on 11.04.2022.
2. For confirming login ID submitted for E-Reverse auction.
3. For confirming availability on proposed auction time as prescribed by GIPCL.

- Received confirmation from all bidders along with login ID on 11.04.2022
- e-Reverse auction created on website https://e-auction.nprocure.com
- Price bid of above 3 qualified bidders was opened on 11.04.2022 at 1300 HRS and relative position of each bidder along with quoted percentage & contract value including GST is as mention below:
- Estimation is **325.34 Lakh. (Including 18% GST)**

Rank	Bidder Detail	Below/ Above	% age	Quoted value including GST.
L1	M/s Uppli Balaji Engg construction Comp., Vadodara (M/s UBECCPL)	Equal	0 %	3,25,34,002
L2	M/s Helios Infra Pro. Pvt. LTD, Kolkata (M/s HIPL)	Above	9 %	3,54,62,062
L3	M/s Thermax Limited, Pune	Above	24 %	4,03,42,162

- Based on opening of Price bid, rate of L1 bidder put up for opening price for E-Reverse auction as Rs. 3,25,34,002 /- including GST and E-reverse auction approved and floated on website "https://e-auction.nprocure.com" with Auction ID :S55-66325 at 13:15 HRS Intimation mail given to bidder and conveyed them Auction invitation.
- E-Reverse auction's summary is as below:
  a. E-Reverse auction Begin at 14:30 HRS 11.04.2022, with opening price : Rs. 3,25,34,002/-, Decrement value : Rs. 1,00,000/- (1 Lakh)
  b. Total 36 decrements received in multiplication of 1 Lakh.
  c. Last decrement of 1 Lakh logged at 15:59:43 HRS by undisclosed bidder. Value proposed Rs. 2,89,34,002/-
  d. At 04:13 PM while reverse auction is still undergoing, Mail request receipt from one of the participant M/s Helios Infra Pro. Pvt. LTD. Kolkata (M/s HIPL) and submitted auction screen shot of Server time 16:03:35 (attached for ready

reference) quoting that while decrementing further attached screenshot appeared.

e. Further vendor informed that suddenly n-procure website hanged when 11 minutes & 24 second remaining and website was not responding. When trying to open website again.

f. Vendor also intimated that they unable to retrieve auction website / auction login web-page / login screen then after and submitted another screen shot attached for your ready reference with screen timing 16:11 HRS.

g. Later, on review of auction report, it is observed that Reverse auction completed at 04:15 PM. Total duration of auction 01:45 HRS. Final Proposed Value Rs. 2,89,34,002 /- by M/s Uppli Balaji Engg construction Comp., Vadodara. Which is 11 % below estimated value.

Based on mail intimation from one of the participant M/s Helios Infra Pro. Pvt. LTD. Kolkata (M/s HIPL) , Matter forwarded to n-Procure on same day (i.e 11.04.2022) for verification. On 22.04.2022 after many reminder mail, n-procure responded as below.

- There was no technical issue at their end.
- They also conveyed that end user may observe slow /poor response of site depends upon bandwidth connectivity & its performance.
- As auction time is over, there is no possibility to take corrective action however GIPCL has an option to process it as re-auction to give opportunity to all vendors including mentioned bidder in the said auction, if required.

Based on observation of n-Procure, M/s Uppli Balaji Engg construction Comp., Vadodara emerged as L1 bidder , as they quoted (-) minus/below 11.06 % (after completion of e-Reverse auction) from estimation (i.e **325.34 Lakh** including 18 % GST) and Final quoted price is remain below our estimation by 11.06 %, equivalent to Rs. 36,00,000 /- Final quoted amount is Rs. 2,89,34,002 with 18 % GST (2,45,20,341 /- without GST)

Further as per tender clause: After e-Reverse Auction process, the original rates quoted by the final L1 bidder for individual items/packages shall be reduced proportionately based on total % reduction from their original quoted gross price v/s price derived after e-reverse auction, keeping GST percentage (%) rate same as originally quoted by final L1 bidder. Propositional reduction in individual rate arrived as 11.06 % and GST quoted by L1 bidder (M/s UBECCPL) is 18 %.

Hence final contract value for said work is Rs. 2,89,34,002 [Two Crore Eighty Nine Lakh Thirty Four Thousand Two Rupees] including 18% goods & service tax.

Considering above, Note is put-up for approval of competent authority for placement of award work order to lowest bidder M/s Uppli Balaji Engg construction Comp.,

O/C
BMD

GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)
At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 112
Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261080 E-mail : genslpp@gipcl.com

WORK ORDER
BY MAIL / COURIER

Reference: **GIPCL/SLPP/BMD/FGD/2022-24/WO/**1314 **Date: - 16.05.2022**

To
M/s UPPLI BALAJI ENGINEERING CONSTRUCTION COMPANY PVT. LTD,
55, Freedom fighter Colony, Nr. Samta,
Subhanpura, Baroda-390023

(Kind Attention: Mr. S. Srinivansan / Mr. Kannnan)

Sub:- 4x125MW Surat Lignite Power Plant; Unit # I to IV: Work order for "Repairing / Replacement / Strengthening of Casing & hoppers of Electro Static Precipitator (ESP) & casing / Structure / Support / Duct assemblies of flue gas path carries flue gas including ESP maintenance in unit-1 to 4 Boiler for proper and smooth compliance of Revised Environmental Norms for year 2022-24.

References:-

1. N-Procure Tender ID No.. 489054 dtd 24.01.2022.
2. Submission of bid for tender ID 489054 and document submitted by you as a part of tender requirement.
3. E-Reverse Auction ID No. 66325 dtd 11.04.2022

Dear Sir,

With reference to the above, We are pleased to place this work order on you for "**Annual Rate Contract for "Repairing / Replacement / Strengthening of Casing & hoppers of Electro Static Precipitator (ESP) & casing / Structure / Support / Duct assemblies of flue gas path carries flue gas including ESP maintenance-e in unit-1 to 4 Boiler for proper and smooth compliance of Revised Environmental Norms for year 2022-24**" at Surat Lignite Power plant, PO. Nani Naroli, Ta Mangrol, Dist Surat for two years.

Registered Office & Vadodara Plant :
P.O. RANOLI, Dist. Vadodara 391 350 Gujarat - INDIA
AN IMS COMPANY
Phone : EPABX (0265) 2230182 / 2230028 / 2232768
Fax : 2230029 **E-mail :** genbaroda@gipcl.com
Website : www.gipcl.com
CIN No.: L99999GJ1985PLC007868

equipment etc..) as per operating frequency of report or as and when required by GIPCL Engineer in-charge.

Wherever any dispute regarding mode of measurement arise, the decision of the Engineer-in-charge shall be final and binding to the contractor.

12. DAILY DIARY AND PROGRESS REPORT:-

1. A daily diary register will be kept in the ENGINEER'S office. The CONTRACTOR will supply all detailed information every day at 9:00 hours for the day preceding and the diary will be jointly signed by the ENGINEER and the CONTRACTOR'S representatives, every day in token of its correctness. A works instruction book, serially numbered will also be kept in the ENGINEER'S office and all day to day instructions will be given in that book. The CONTRACTOR'S representative shall report every day to see these instructions and sign them at the bottom in token of his having seen them.
2. The CONTRACTOR shall provide all information regarding procurement of materials and progress of work, as is required by the ENGINEER for compiling the weekly progress reports. This information shall be provided by contractor at 9:00 hours every Monday, for the preceding week.

13. CONTRACT PERIOD:-

1. The contract will be for a period of 02 years from the date of actual commencement of operation of the contract as stated in the Work Order ('Contract Period').
2. GIPCL reserves the right to extend the Contract Period up to 03 months on the same rates and terms and conditions without any price escalation and entering into any new contract.
3. The said Contract Period can be extended if mutually agreed upon by both the parties up to one year and in such a case a revised work order shall be issued at the same rates and terms & condition or at negotiated rates acceptable by both parties i.e. the Company & the Contractor.
4. The basic considerations and the essence of the 'contract' shall be the strict adherence to the time schedule for performing the specified 'works'. Contractor has to mobilize required number of manpower along with necessary tools, tackles, PPEs.
5. The work shall be carried out continuously round the clock with 2x12 hours shift working during AOH. Separate gangs shall be engaged in each shift without engaging the same manpower.
6. In case of delay in executing the contract by contractor, GIPCL reserves the right to engage another contractor and complete the balance job at the risk and cost of the contractor.

14. CONTRACT PRICE:-

"Annual Rate Contract for "Repairing / Replacement / Strengthening of Casing & hoppers of Electro Static Precipitator (ESP) & casing / Structure / Support / Duct assemblies of flue gas path carries flue gas including ESP maintenance in unit-1 to 4 Boiler for proper and smooth

compliance of Revised Environmental Norms for year 2022-24" at Surat Lignite Power plant, PO. Nani Naroli, Ta Mangrol, Dist Surat of **Rs. 28934002.07** (Rupees Two Crore Eighty Nine Lakh Thirty Four Thousand Two and Seven paisa only) including 18% GST. The duration of contract period is one year.

PART NO	DESCRIPTION	BASE PRICE	GST (18%)	AMOUNT WITH 18% GST
1	Flue gas path repair / replacement / correction activity including insulation.	19140729.09	3445331.24	22586060.33
2	ESP Maintenance / servicing / repair / replacement of internals including inspection.	2687601.54	483768.28	3171369.82
3	ESP O&M Activity / Routine external maintenance.	1710512.09	307892.18	2018404.27
4	Fabrication Activity	584545.30	105218.15	689763.45
5	For execution of work not covered in Part-1 to 4 above.	396952.72	71451.49	468404.21
TOTAL		**24520340.74**	4413661.33	**28934002.07**

PART 1 :

Clause	Clause Description	Sub Clause	Sub Clause Description	UOM	Unit Rate (A1) (Rs. Per UOM)	Qty (B1)	Total Price (A1 X B1)
1	Provide scaffolding material , Erect and dismantle scaffolding for attending air ingress / air leakage to identify and/or to repair flue gas path at outer side of APH to ESP duct , Inlet funnels ,ESP casing wall, outlet funnels, ESP to ID fan and Id fan to Chimney. upto 12mtr.	***	up to 12m	M^3	80.04	15600	1248624.00
2	--- Do --- but for height 12 mtr to 25 mtr in above clause AND Provide scaffolding material, Erect and dismantle scaffolding for attending air ingress / air leakage to identify and/or to repair flue gas path at inner side ESP casing wall [CRM Floor].	***	CRM FLOOR & 12m to 25 mtr	M^3	100.50	17000	1708500.00

Bharat Heavy Electricals Limited

AIR QUALITY CONTROL SYSTEMS/EDC	FORMAT NO:11	REV.NO: 00
	DATE: 03 - 05 - 98	PAGE 01 OF 06

O & M MANUAL INPUT (CONTRACT)

PROJECT: GIPCL – MANGROL 2 X 125 MW	CUST.NOS : 6008 & 6009

1. DESIGN CONDITIONS :

a) Gas flow rate	:	216.0	m^3/sec.
b) Temperature	:	145	°C
c) Inlet Dust concentration	:	111.6	g/Nm^3
d) Outlet Dust concentration	:	150	mg/Nm^3
e) ESP efficiency	:	99.866	%
2. TYPE OF PRECIPITATOR	:	FAA - 6 X 45 (45) - 126135 - 2	
3. NUMBER OF PRECIPITATOR OFFERED PER UNIT	:	TWO	
4. NUMBER OF GAS PATH PER ESP	:	ONE	
5. NUMBER OF FIELDS IN SERIES IN EACH GAS PATH	:	SIX (excluding dummy field)	
6. PRESSURE DROP ACROSS THE PRECIPITATOR FOR DESIGN CONDITION	:	25.0	mm WC
7. VELOCITY OF GAS INSIDE ESP	:	0.63	m/sec.
8. TREATMENT TIME	:	42.53	seconds
9. COLLECTING ELECTRODE:			
a) No. of rows of collecting electrodes per field	:	43	
b) No. collecting electrodes per field	:	258	
c) No. collecting electrodes arranged in each row	:	6	

PREPARED BY	APPROVED BY

Bharat Heavy Electricals Limited

AIR QUALITY CONTROL SYSTEMS/EDC	FORMAT NO:11	REV.NO: 00
	DATE: 03 - 05 - 98	PAGE 02 OF 06

d) Total no. of collecting plates per Boiler	: 3096	
e) Nominal height of collecting plate	: 13.5	meters
f) Nominal length of collecting plate	: 750	mm
g) Specific collecting area	: 283.5	$m^2 / m^3 / sec$

10. EMITTING ELECTRODE:

a) Type	: Spiral with hooks.	
b) Size	: 2.7	mm dia.
c) No. of electrodes in the frame forming one row.	: 54	
d) No. of electrodes in each field	: 2268	
e) Total no. of electrodes per unit	: 27216	
f) Total length of electrodes per field	: 12723	meters.
g) Plate / wire spacing	: 150	mm

11. RAPPERS FOR COLLECTING ELECTRODE:

a) No. and type of rappers	: one drop hammer per row collect. Electrode having a collecting surface of 121.50 m^2
b) Rapper size	: 4.9 Kgs.
c) Frequency of rap	: Varying from 20 raps. per hour at the inlet field to 1 rap / hour at the exit field. The frequency of rapping at intermediate fields can be adjusted between 20 and 1 per hour according to the requirement.
d) Drive	: Geared electric motor
e) Location	: At the bottom of collect. Electrodes.

PREPARED BY	APPROVED BY

Bharat Heavy Electricals Limited

AIR QUALITY CONTROL SYSTEMS/EDC	FORMAT NO:11	REV.NO: 00
	DATE: 03 - 05 - 98	PAGE 03 OF 06

12. RAPPERS FOR EMITTING ELECTRODES:

a) No. and type of rappers	:	Approximately one drop hammer for two rows of electrodes.
b) Rapper size	:	3.0 Kgs
c) Frequency of rapping	:	10 raps per hour
d) Drive	:	Geared electric motor
e) Location	:	On two intermediate middle frames of emitting system frame work.

13. HOPPERS:

a) Type	:	Pyramidal
b) No. of hoppers / ESP	:	14
c) Heating	:	Electrical heating provided at the bottom of the hopper.
d) Baffling arrangement	:	2 sets of deflector plates for each hopper across the gas flow direction underneath the collection plates to prevent gas sneakage.

14. GAS DISTRIBUTION SYSTEM:

I INLET :

a) Type and quality	:	Perforated plate-2 sets
b) Location	:	Inlet of precipitator

II OUTLET

a) Type and quantity	:	Thin sheets formed to a shape of 'U' Located with 600 mm pitch – one set.
b) Location	:	Outlet of precipitator

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AIR QUALITY CONTROL SYSTEMS/EDC	FORMAT NO:11	REV.NO: 00
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15. ELECTRICAL ITEMS:

I HV RECTIFIER

a) Rating	: 70 kV DC (peak) 1400 mA DC (mean)
b) Quantity/ESP	: 6
c) Type	: Silicon Diode, full wave bridge Connection.
d) Location	: Mounted on the top of precipitator

II. ELECTRONIC CONTROLLER:

a) Type of control	: Thyristor
b) Quantity/ ESP	: 6
c) Location	: In the control room at the ground level.

III. AUXILIARY CONTROL PANEL :

a) Quantity per unit	: 1
b) Equipment controlled	: Geared motor of rapping mechanisms of collecting and emitting electrodes, heating ...elements of hopper, insulator housing and shaft insulators
c) Location	: In the control room at the ground level

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AIR QUALITY CONTROL SYSTEMS/EDC	FORMAT NO:11	REV.NO: 00
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IV. RAPPING MOTORS:

RAPPING OF EMRITTING ELECTRODES

a) Quantity/ESP	:	6
b) Rating	:	Geared motor:0.33 hp, 2.5 rpm, 3 phase,415 V, 50Hz.
c) Location	:	At the roof of ESP.

RAPPING OF COLLECTING ELECTRODES

a) Quantity per ESP	:	6
b) Rating	:	Geared motor 0.33 HP,1.1 rpm, 3 phase,415 V 50 Hz, AC.
c) Location	:	on the side panels of the casing.

RAPPING OF GAS DISTRIBUTION SYSTEM :

a) Quantity per ESP	:	1
b) Rating	:	Geared motor 0.33 HP,1.1 rpm, 3 phase,415 V 50 Hz, AC.
c) Location	:	on the GD housing.

V HEATING ELEMENTS :

FOR HOPPERS :

a) Quantity per ESP	:	168
b) Type & rating	:	0.5 KW,1 PH. 415 V, AC .50 HZ.
c) Location	:	At the bottom of hopper

PREPARED BY	APPROVED BY

Bharat Heavy Electricals Limited

AIR QUALITY CONTROL SYSTEMS/EDC	FORMAT NO:11	REV.NO: 00
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FOR SHAFT INSULATORS:

a) Quantity per ESP : 6

b) Rating : 1.0 KW , 1 phase,415 V AC, 50 HZ

c) Location : In the shaft insulator housing

FOR SUPPORT INSULATORS:

a) Quantity per ESP : 24

b) Rating : 1.0 KW, 1 phase,415 V AC, 50 HZ

c) Location : In the support insulator housing

VI. GENERAL ARRANGEMENT DRG. NO: : 1 - 00 - 111 - 27351

PREPARED BY	APPROVED BY

BHARAT HEAVY ELECTRICALS LIMITED

ENGINEERING & DEVELOPMENT CENTRE FIELD ENGINNERING SERVICES	FORMAT NO:ESP/ F1	R110 & R111 REV.NO: 00
	DATE: 06.11.2008	PAGE 02 OF 07

O & M MANUAL (INPUT)

PROJECT: GIPCL, SLPP-II (unit3&4) 2x125MW, Gujarat	**CUST. NO: R110 & R111**

1. DESIGN CONDITIONS:

FIRING CONDITIONS ⇒	Lignite (worst)	
a) Gas flow rate	276.25	m^3/sec.
b) Temperature	147	°C
c) Inlet Dust concentration	84.6	gm/Nm^3
d) Outlet Dust concentration (n-1) and Dummy field	100	mg/Nm^3
e) ESP efficiency (n-1) and Dummy field	99.882	%
2. TYPE OF PRECIPITATOR	FAA – (45 M)7 X 45M - 132135 - 2	
3. NUMBER OF PRECIPITATOR OFFERED PER UNIT	TWO	
4. NUMBER OF GAS PATH PER ESP	ONE	
5. NUMBER OF FIELDS IN SERIES IN EACH GAS PATH	SEVEN & ONE Dummy field	
6. PRESSURE DROP ACROSS THE PRECIPITATOR FOR DESIGN CONDITION	25.0 mm WC	
7. VELOCITY OF GAS INSIDE ESP	0.78	m/Sec..
8. TREATMENT TIME	40.64	Sec..

9. COLLECTING ELECTRODE:

a) No. of rows of collecting electrodes per field	34
b) No. collecting electrodes per field	204
c) No. collecting electrodes arranged in each row per field	6

Prepared By : K.RAMAMOORTHY	Approved By : G.MALLINATHAN
Signature :	Signature :

BHARAT HEAVY ELECTRICALS LIMITED

ENGINEERING & DEVELOPMENT CENTRE FIELD ENGINNERING SERVICES	FORMAT NO:ESP/ F1	R110 & R111 REV.NO: 00
	DATE: 06.11.2008	PAGE 03 OF 07

d) Total no. of collecting plates per boiler	:	2856
e) Nominal height of collecting plate	:	13.5 meters
f) Nominal length of collecting plate	:	750 mm
g) Specific collecting area (n-1), m^2 / m^3 /sec	:	203.196 (with all fields)

10. EMITTING ELECTRODE:

a) Type	:	Spiral with hooks.
b) Size	:	2.7 mm dia.
c) No. of electrodes in the frame forming one row.	:	54
d) No. of electrodes in each field	:	1782
e) Total no. of electrodes per Boiler	:	24948
f) Total length of electrodes per field	:	7720 meters.
g) Plate / wire spacing	:	200 mm (400 mm pitch)

11. RAPPERS FOR COLLECTING ELECTRODE:

a) No. and type of rappers	:	One drop hammer per row collecting electrode having a Collecting surface of 119.5 m^2.
b) Rapper size	:	4.9 Kgs.
c) Frequency of rap	:	Varying from 15 raps. per hour at the inlet field to 1 raps/hour at the exit field. The frequency of rapping at intermediate fields can be adjusted between 15 and 1 per hour according to the requirement.
d) Drive	:	Geared electric motor
e) Location	:	At the bottom of collecting electrodes.

Prepared By	: K.RAMAMOORTHY	Approved By	: G.MALLINATHAN
Signature	:	Signature	:

BHARAT HEAVY ELECTRICALS LIMITED

ENGINEERING & DEVELOPMENT CENTRE FIELD ENGINNERING SERVICES	FORMAT NO:ESP/ F1	R110 & R111 REV. NO: 00
	DATE: 06.11.2008	PAGE 04 OF 07

12. RAPPERS FOR EMITTING ELECTRODES

a)	No. and type of rappers	: Approximately one drop hammer for two rows of electrodes.
b)	Rapper size	: 3.0 Kgs
c)	Frequency of rapping	: 10 raps per hour
d)	Drive	: Geared electric motor
e)	Location	: On middle frames of emitting system framework.

13. HOPPERS:

a)	Type	: Pyramidal
b)	No. of hoppers / ESP	: 16
c)	Heating	: Electrical heating provided at the bottom of hoppers.
d)	Baffling arrangement	: 2 sets of deflector plates for each hopper across the gas flow direction underneath the collecting plates to prevent gas sneakage.

14. GAS DISTRIBUTION SYSTEM:

I INLET :

a)	Type and quality	: Perforated plate-2 sets
b)	Location	: Inlet of precipitator

II OUTLET

a)	Type and quantity	: Thin sheets formed to a shape of 'U' located with 600 mm pitch – one set.
b)	Location	: Outlet of precipitator.

Prepared by : K.RAMAMOORTHY	Approved by : G.MALLINATHAN
Signature :	Signature :

BHARAT HEAVY ELECTRICALS LIMITED

ENGINEERING & DEVELOPMENT CENTRE FIELD ENGINNERING SERVICES	FORMAT NO:ESP/ F1	R11C & R11I REV.NO: 00
	DATE: 06.11.2008	PAGE 05 OF 07

ELECTRICAL ITEMS:

I. HV RECTIFIER

a) Rating : 95 kV DC (peak)
1400 mA DC (mean) – Mineral oil

b) Quantity/ESP : 7

c) Type : Silicon Diode, full wave bridge Connection

d) Location : Mounted on the roof of ESP.

II. ELECTRONIC CONTROLLER:

a) Type of control : Thyristor

b) Quantity/ ESP : 7

c) Location : In the control room at the ground level.

III. (a) AUXILIARY CONTROL PANEL:

a) Quantity/BOILER : 02

b) Equipment controlled : Geared motor of rapping mechanisms of collecting and emitting electrodes.ALIs, heating elements on hoppers, insulator housing and shaft insulators.

c) Location : In the control room at the ground level

III. (b) LT MAIN SWITCH BOARD:

a) Quantity/BOILER : 02

b) Equipment controlled : Power supply to ECs, ACPs and RCPs.

c) Location : In the control room at the ground level

III. (c) RAPCON Panel:

a) Quantity/BOILER : 02

b) Equipment controlled : Housing the RAPCON along with relay card, data communication card and buffer card for controlling of rapping motors, heaters, ALI inputs

c) Location : In the ESP control room

Prepared by : K.RAMAMOORTHY	Approved by : G.MALLINATHAN
Signature :	Signature :

BHARAT HEAVY ELECTRICALS LIMITED

ENGINEERING & DEVELOPMENT CENTRE FIELD ENGINNERING SERVICES	FORMAT NO.ESP/ F1	R110 & R111 REV.NO: 00
	DATE: 06.11.2008	PAGE 06 OF 07

IV. RAPPING MOTORS:

RAPPING OF EMITTING ELECTRODES:

a) Quantity/ESP : 7

b) Rating : Geared motor: 0.33 HP, 2.5rpm, 3 phase,415 V, 50Hz.

c) Location : At the ESP roof

RAPPING OF COLLECTING ELECTRODES:

a) Quantity per ESP : 7

b) Rating : Geared motor 0.33 HP,1.1 rpm,3 phase,415 V 50 Hz,AC

c) Location : On the side panels of the casing.

RAPPING OF GAS DISTRIBUTION SYSTEM:

a) Quantity per Boiler : 2

b) Rating : Geared motor 0.33 HP, 1.1 rpm, 3 phase, 415 V 50 Hz, AC.

c) Location : On the GD housing

V. HEATING ELEMENTS:

FOR HOPPER:

a) Quantity per ESP : 192

b) Type : Breathing type tubular.

c) Rating : 0.5 KW, 1 phase, 415 V, 50 Hz, AC

d) Location : At the bottom of hoppers

e) Recommended thermostat setting for heater trip : 120 °C

Prepared by : K.RAMAMOORTHY	Approved by : G.MALLINATHAN
Signature :	Signature :

BHARAT HEAVY ELECTRICALS LIMITED

ENGINEERING & DEVELOPMENT CENTRE FIELD ENGINNERING SERVICES	FORMAT NO:ESP/ F1	R110 & R111 REV.NO: 00
	DATE: 06.11.2008	PAGE 07 OF 07

FOR SHAFT INSULATORS:

a) Quantity per ESP	:	7
b) Type	:	Tubular heaters of breathing type.
c) Rating	:	1.0 KW,1 phase,415V AC, 50 HZ
d) Location	:	In the shaft insulator housing

FOR SUPPORT INSULATORS:

a) Quantity per ESP	:	28
b) Type	:	Tubular heaters of breathing type.
c) Rating	:	1.0 KW, 1 phase,415V AC,50 HZ
d) Location	:	In the support insulator housing
e) Recommended thermostat setting for heater trip	:	140 °C

VI. Integrated Operating System (IOS): : NT Based

a) Number of BAPCON (micro processor controller) / Boiler	:	14
b) Number of RAPCON (micro processor controller) / Boiler	:	2
c) Number of IOS PC / Boiler	:	1

VI. GENERAL ARRANGEMENT DRG. NO. : : 1 - 00 - 111 - 28026

Prepared by	: K.RAMAMOORTHY	Approved by	: G.MALLINATHAN
Signature	:	Signature	:

GPCB

GUJARAT POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN
Sector-10-A, **Gandhinagar** 382 010
Phone : (079) 23222425
(079) 23232152
Fax : (079) 23232156
Website : www.gpcb.gov.in

By R.P.A.D

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution)-1981 and Authorization under rule 6(2) of the Hazardous And Other Waste (Management and Transboundary) Rules, 2016 framed under the Environmental (Protection) Act-1986. This Board is empowered to Grant CC&A.

And whereas Board has received consolidated consent application letter no. **163027 dated 03-10-2019** for the **Consolidated Consent and Authorization** (CC & A) of this Board under the provisions / rules of the aforesaid Acts. Consents & Authorization are hereby granted as under:

CONSENTS AND AUTHORISATION:
(Under the provisions /rules of the aforesaid environmental acts)

To,
M/s. Gujarat Industries Power Co.Ltd(Surat Power Plant)
Surat Hazira Road,
Vill: Mora-394510, Post: Bhatha,
Tal: Chorasi, Dist: Surat.

1. **Consent Order No. AWH-104989 Date of issue: 13-11-2019.**

2. The consents shall be **valid upto 30-09-2024** for the use of outlet for the discharge of treated effluent and emission due to operation of industrial plant for manufacturing of the following items/ products:

Sr. No.	Product	Quantity
1	Power Generation (4×125 MW)	500 MWH

Subject to specific condition:

1. **Industry shall submit membership of CHWIF within a month at Head Office & Regional Office.**
2. **Industry shall manage Solid Wastes generated from industrial activities as per Solid Waste Management Rules-2016 (solid waste as defined in Rule-3(46)).**
3. **As per Provisions of Rule 18 of Solid Waste Management Rules-2016 you are directed to make an arrangement in Utilities to replace at least five percent (5%) of your solid fuel requirement by refused derived fuel'.**
4. **Industry shall provide dedicated storage facility for fly ash.**
5. **Industry shall comply with fly ash notification 1999 as amended from time to time.**

3. **CONDITIONS UNDER THE WATER ACT:**

3.1. Source of Water:- River Tapi.
3.2. The quantity of the water consumption for industrial purpose shall not exceed 28500 KL/Day.

Outward No: 122918 05/11/2019

3.3. The quantity of the fresh water consumption for domestic purpose shall not exceed 900 KL/Day.

3.4. The quantity of the industrial effluent to be generated from the manufacturing process and other ancillary industrial operations shall not exceed 4965 KL/Day.

3.5. The quantity of domestic waste water shall not exceed 372 KL/Day.

3.6. The applicant shall operate effluent treatment system efficiently so that treated effluent from the industrial unit shall conform to the norms mentioned below.

PARAMETERS	GPCB NORMS
PH	6.5 TO 8.5
Temperature	40^0 C
Colour (pt.co.scale) in units	100 units
Suspended Solids	300 mg/l
Oil and Grease	10 mg/l
Chlorides	600 mg/l
Sulphate	1000 mg/l
Phenolic Compounds	1 mg/l
Sulphides	2 mg/l
Ammonical Nitrogen	50 mg/l
Total Chromium	2 mg/l
Hexavelent Chromium	0.1 mg/l
BOD (5 days at 20°C)	30 mg/l
COD	100 mg/l
Total Dissolved Solids	2100 mg/l

All efforts shall be made to remove colour & unpleasant odour as far as particable.

3.7. The final treated effluent shall conform to the above standards shall be reused for lignite pile management washing in LSH area and plantation irrigation and thus, maintain Zero Liquid Discharge outside the premises.

3.8. Sewage shall be treated in STP and treated sewage conforming to the following standards shall be discharged on land within premises for gardening and plantation.

PARAMETERS	GPCB NORMS
PH	6.5 TO 9.0
BOD	30 mg/l
TSS	Less than 100 mg/l
Fecal Coliform (MPN-100 ml / MNP-100 ml)	Less than 1000

4. CONDITIONS UNDER THE AIR ACT:

4.1. The following shall be used as a fuel in Steam Boiler and D.G.Set respectively.

Sr. No.	Fuel	Quantity
1	Lignite	10,000 MT Day
2	Diesel	160 lit/hr

Outward No:529187/0/12/2013

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4.2. The applicant shall install & operate comprehensive adequate air pollution control system in order to achieve prescribed norms.

4.3. The flue gas emission through stack attached to Steam Boiler and D.G.Set shall conform to the following standards:

Stack No.	Stack attached to	Stack height in Meter	Air Pollution Control System	Parameters	Permissible Limit
1	Boiler-1	122	ESP	Particulate Matter	150 mg/NM^3
2	Boiler-2	122	ESP	SO_2	100 ppm
3	Boiler-3	122	ESP	NO_x	50 ppm
4	Boiler-4	122	ESP		
5	D.G.Set-4 nos (750 KVA)	11 (each)	----	Particulate Matter SO_2 NO_x	150 mg/NM^3 100 ppm 50 ppm

4.4. There shall be no process emission from the manufacturing process as well as any other ancillary process.

4.5. Industry shall take adequate measure to control dusting due to storage, transportation & handling of Coal/Lignite & fly ash.

4.6. Industry shall comply with Coal handling guideline of the Board.

4.7. Industry shall comply with fly ash notification 1999 as amended from time to time.

4.8. The concentration of the following parameters in the ambient air within the premises of the industry and a distance of 10meters from the source) other than the stack/vent) shall not exceed the following levels.

PARAMETERS	PERMISSIBLE LIMIT
PM 10	100 Microgram/M3
PM 2.5	60 Microgram/M3
SO_2	80 Microgram/M3
NOx	80 Microgram/M3

4.9. The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.

4.10. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75dB(A) during day time and70 dB (A) during night time. Daytime is reckoned in between 6a.m. and10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.

4.11. D.G. SET SYNCHRONIZATION CONDITIONS

The D.G. set shall have acoustic enclosure and shall comply sith the standards specified at Sr. no. 95 of Schedule-I of the rule-3 of E.P. Rules -1986 and Noise pollution level as per the Air Act-1981.

4.12. Sets standards:-

Outward No: 5338 Dt: 03/12/2013

The flue gas emission through stack attached to D.G. Sets shall conform to the following standards.

a) The minimum height of stack to be provided with each of the generator set shall be H = h + 0.2 (KVA)$^{1/2}$, where H = Total stack height in meter, h= height of the building in meters where or by the side of which the generator set is installed.

a) Noise from DG set shall be controlled by providing an acoustic enclosure or by treating the room acoustically, at the users end.

b) The acoustic enclosure or acoustic treatment of the room shall be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/ acoustic treatment. Under such circumstances the performance may be checked for noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion loss may be done at different points at 0.5 m from the acoustic enclosure/room, and the averaged.

c) The D.G. Set shall be provided with proper exhaust muffler with insertion loss of minimum 25 dB (A).

d) All efforts shall be made to bring down the noise level due to the D.G.Set, outside the premises, within the ambient noise requirements by proper siting and control measures.

e) Installation of a D.G. Sets must be strictly in compliance with the recommendations of the D.G.Set manufacturer.

f) A proper routine and preventive maintenance procedure for the D.G.Set should be set and followed in consultation with the DG Set manufacture which would help prevent noise levels of the DG Set from deteriorating with use.

5. AUTHORIZATION as per HAZARDOUS AND OTHER WASTE (MANAGEMENT AND TRANSBOUNDARY) RULES, 2016 Form-2 [See rule 6 (2)]

Form for grant of authorization for occupier or operator handling Hazardous waste

5.1 Authorization order No:- **AWH-104989** date of Issue: **13-11-2019.**

5.2 **M/s. Gujarat Industries Power Co.Ltd(Surat Power Plant)** is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at **Surat Hazira Road, Vill: Mora-394510, Post: Bhatha, Tal: Chorasi, Dist: Surat.**

Sr. No	Waste	Quantity MT/Year	Schedule-I/ Category	Facility
1	Spent ion exchange resin containing toxic metals	2	35.2	Collection, Storage, Transportation and disposal at CPCB authorized TSDF Site.
2	Used oil	30	5.1	Collection, storage, transportation and disposal by selling to Registered re-refiners.
3	Empty barrels/containers/ liners contaminated with hazardous chemicals/ wastes	5	33.1	Collection, storage transportation and disposal to authorized decontaminator

Outward No: 529187, 05/12/2019

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4	Wastes or residues containing oil	5	5.2	Collection, Storage, Transportation and disposal at GPCB authorized CHWIF.

5.3 The authorization shall be valid up to **30-09-2024**.

5.4 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.

5.5 The authorization is granted to operate a facility for collection, storage within factory premises transportation and ultimate disposal of Hazardous wastes as per condition no.5.2 to the industry having valid CCA of this Board.

6. **TERMS AND CONDITIONS OF AUTHORISATION**

1. The applicant shall comply with the provisions of the Environment (Protection) Act-1986 and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.
3. The persons authorized shall not rent, lend, sell, and transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Gujarat Pollution Control Board.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization order by the persons authorized shall constitute a beach of this authorization.
5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Wastes and Penalty"
7. It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.
8. An application for the renewal of an authorization shall be made as laid down in rules 6(2) under Hazardous Waste and Other Waste Rules, 2016.
9. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
10. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
11. The hazardous and other wastes which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
12. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. The waste generator shall be totally responsible for (i.e. collection, storage, transportation and ultimate disposal) the wastes generated.
15. Records of waste generation, its management and annual return shall be submitted to Gujarat Pollution Control Board in Form-4 by 30th day of June of every year for the preceding period April to March.

Outward No: 5311/2

16. In case of any accident details of the same shall be submitted on Form-11 to Gujarat Pollution Control Board.
17. As per "Public Liability Insurance Act-91" company shall get Insurance Policy, if applicable.
18. Empty drums and containers of toxic and hazard material shall be treated as per guideline published for "Management & Handling of discarded containers". Records of the same shall be maintained and forwarded to Gujarat Pollution Control Board regularly.
19. In case of transport of hazardous wastes to a facility for (i.e. treatment, storage and disposal) existing in a State other than the State where hazardous wastes are generated, the occupier shall obtain 'No Objection Certificate' from the State Pollution Control Board or Committee of the concerned State of Union Territory Administration where the facility exists.
20. Unit shall take all concrete measures to show tangible results in waste generation, reduction, avoidance, reuse and recycle. Actions taken in this regard shall be submitted within three months and also along with Form-4.
21. Industry shall have to display the relevant information with regards to hazardous waste as indicated in the Hon. Supreme Court's Order in W.P. No.657 of 1995 dated 14th October, 2003.
22. Industry shall have to display on-line data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including wastewater and air emissions and solid hazardous wastes generated within the factory premises.

7. **GENERAL CONDITIONS: -**

7.1. Any change in personnel, equipment or working conditions as mentioned in the consents form order should immediately be intimated to this Board.

7.2. Applicant shall also comply with the general conditions given in annexure I

7.3. Whenever due to accident or other unforeseen act or ever, such emissions occur or is apprehended to occur in excess of standards laid down such information shall be forthwith reported to Board, concerned Police Station, Office of Directorate of Health Service, Department of Explosives, Inspectorate of Factories and local body.

7.4. In case of failure of pollution control equipments, the production process connected to it shall be stopped. Remedial actions/measures shall be implemented immediately to bring entire situation normal.

7.5. The Environmental Management Unit/Cell shall be setup to ensure implementation on and monitoring of environmental safeguards and other conditions stipulated by statutory authorities. The Environmental Management Cell/Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. These cells/units also coordinate the exercise of environmental audit and preparation of environmental statements.

7.6. The Environmental audit shall be carried out yearly and the environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30th September every year.

7.7. The Board reserves the right to review and/or revoke the consent and/or make variations in the conditions, which the Board deems, fit in accordance with Section 27 of the Act.

7.8. In case of change of ownership/management the name and address of the new owners/ partners/directors/proprietor should immediately be intimated to the Board.

7.9. Industry shall have to display the relevant information with regard to hazardous waste as indicated in the Hon. Supreme order in w.p. no. 657 of 1995 dated 14th October 2003.

Outward No: S2/10/7105/14/2008

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8. **SPECIFIC CONDITIONS:-**

8.1. The authorized actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorization.

8.2. Handling over of the hazardous and other wastes to the authorized actual user shall be only after making the entry in the passbook of the actual user.

8.3. In case of renewal of authorization, a self-certified compliance report in respect of effluent, emission standards and the conditions specified in the authorization for hazardous and other wastes shall be submitted to SPCB.

8.4. The occupier of the facility shall comply Standard operating procedure/guidelines published by MOEF&CC or CPCB or GPCB from time to time.

8.5. Unit shall comply provisions of E-Waste Management Rules-2016.

8.6. The disposal of Hazardous Waste shall be carried out as per the waste Management hierarchy.

8.7. The occupiers of facilities shall not store the hazardous and other wastes for a period not exceeding **ninety days**. Prior permission of the Board shall be obtained for extension of the storage period.

8.8. The occupier shall maintain the records of generation, sale, storage, transport, recycling, co processing and disposal of hazardous waste and make available during the inspection.

8.9. The transportation of the hazardous waste shall be carried out in GPS mounted dedicated vehicles.

For and on behalf of
Gujarat Pollution Control Board

(Sushil Vegda)
Senior Environmental Engineer

NO: GPCB/CCA-SRT-433(7)/ID-20747/ **Date:-**

Issued to:
M/s. Gujarat Industries Power Co.Ltd(Surat Power Plant)
Surat Hazira Road,
Vill: Mora-394510, Post: Bhatha,
Tal: Chorasi, Dist: Surat.

Outward No:529187, 05/12/2019

Clean Gujarat Green Gujarat
ISO-9001-2008 & ISO-14001 - 2004 Certified Organisation

Corrosion Assessment of Equipment and Structures at Surat Lignite Power Plant (SLPP) and Recommendations of Mitigation Measures

FINAL REPORT

Submitted to

GUJARAT INDUSTRIES POWER COMPANY LTD.
(Surat Lignite Power Plant)
P.O. Nani Naroli – 394 110, Mangrol Taluk, Surat
GUJARAT

Submitted by

सीएसआईआर केंद्रीय विद्युतरसायन अनुसंधान संस्थान
CSIR - CENTRAL ELECTROCHEMICAL RESEARCH INSTITUTE
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद,
(Council of Scientific & Industrial Research, Govt. of India)
कारैकुडी KARAIKUDI 630 003, तमिल नाडु TAMIL NADU

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1. INTRODUCTION

M/s. Surat Lignite Power Plant (SLPP) has set-up 4-No.X 125 MW circulating fluidized bed combustion (CFBC) units at Mangrol, Surat. In this CFBC technology, crushed lignite of around 10mm size along with limestone powder as sorbent, are injected into the combustor. The particles are suspended in a stream of upwardly flowing air, which enters the bottom of the furnace through air distribution nozzles. The fluidizing velocity in circulating bed ranges from 4-7m/s. The balance of combustion air is admitted above the bottom of furnace as secondary air.

The firing temperature in combustor is maintained at around 850°C. Low combustion temperatures keep the thermally generated NOx under control while the SOx emissions are controlled by adding limestone. Limestone helps in retaining the sulphur present in fuel in the form of calcium sulphate which is removed in solid form along with ash. CFBC boilers can burn wide variety of fuels having low quality, high ash & moisture content and low calorific value. The schematic drawing of the CFBC power plant at SLPP is shown in figure 1.

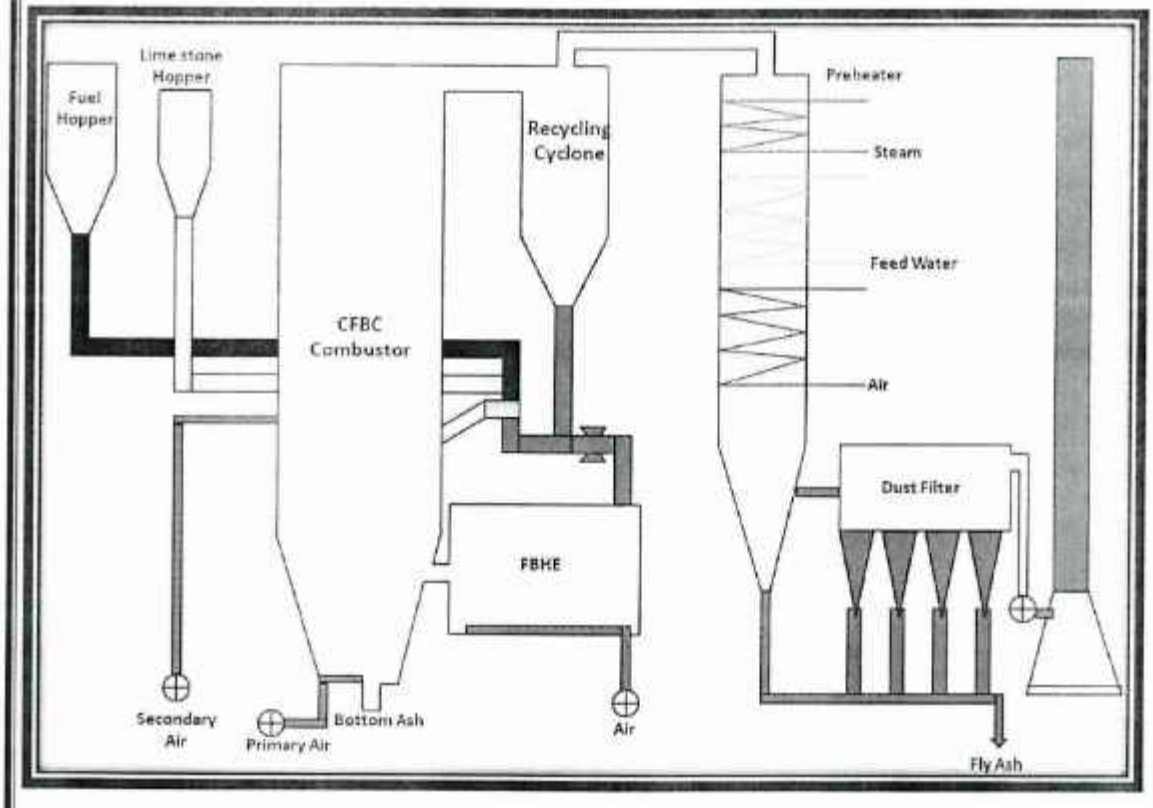


Figure 1: Circulating Fluidized Bed Combustion (CFBC) Unit at SLPP

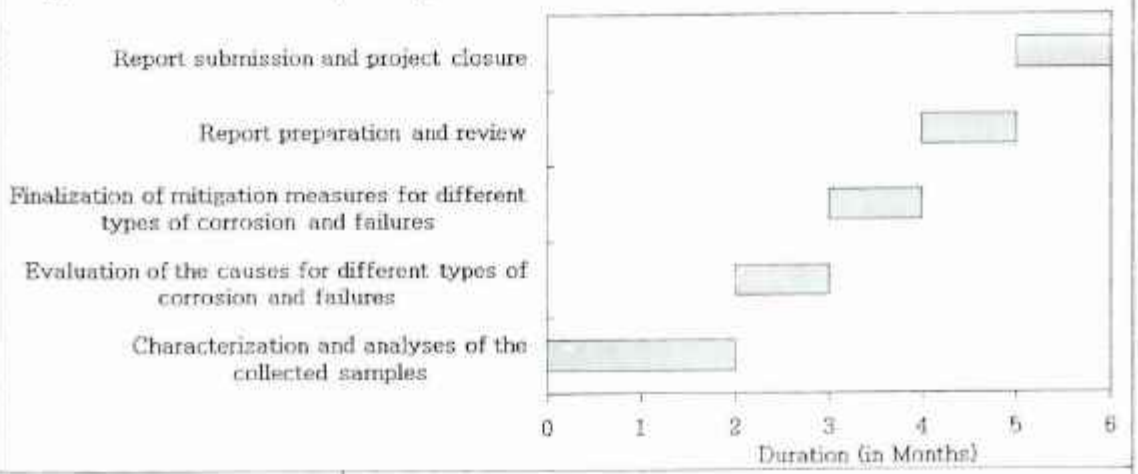
2. PROJECT BACKGROUND

M/s. SLPP has contacted Corrosion and Materials Protection Division (CMPD) of Central Electrochemical Research Institute (CECRI), Karaikudi regarding the prevailing corrosion problems in their structural items and equipment at SLPP. A team of scientists from CECRI visited SLPP on 17th-18th of May 2018 and carried out a detailed corrosion mapping of various assets. After mutually agreeing the terms and conditions a project proposal was sent by CECRI for SLPP's approval. SLPP requested CECRI to carry out another assessment in order to estimate the progressive nature of the corrosion. During the second visit of the CECRI team to SLPP on 12-01-2021, various corrosion by-product samples were collected for further assessment at CECRI. A project proposal was developed by CECRI in consultation with SLPP which was further approved by the concerned authorities on both sides. The project proposal is given below.

2.1 Project Proposal

Project Title	**Corrosion Assessment of Equipment and Structures at Surat Lignite Power Plant (SLPP) and Recommendations of Mitigation Measures**
Client	
a) Name and address	**M/s. Gujarat Industries Power Company Ltd.-SLPP,** **Attn.:** Shri.M.Kumaravelu, DGM-BMD Nani Naroli, Ta. Mangrol, Dist. Surat PIN: 394 110, GUJARAT Phone: +91 9909925342, +91 2629 261063 to 72, Extn : 2915 **Email:** mkumarvelu@gipcl.com
b) Category*(Type & size)	Government Sector, Large Scale
c) Status	New
If it is repeat, please provide a brief statement of past experience	-
Objectives, scope and duration of the project	**Objectives:** a. Corrosion assessment of the power plant structures and equipments, b. Failure analyses of the identified structural items, c. Evaluation of the causes for corrosion by characterization of the samples collected at different locations, d. Recommendation of appropriate mitigation measures for the identified failures and corrosion issues. **Duration of the project: 6 Months**
Present state of knowledge available with lab in the area including IPR position	Corrosion and Materials Protection Division of CSIR-CECRI has carried out similar tasks for other thermal power plants, i.e. NTPC at Vallur and Simhadri

Programme of work with phasing, milestones and deliverables envisaged from CSIR



Benefits to Client on Utilization of the Project	Appropriate corrosion and failure mitigation measures for vital structures and equipment at SLPP

	Names	**Designation**
Project Team	Dr.V.Saraswathy	Chief Scientist
	Dr.D.Sherwood	Sr. Principal Scientist
	Dr.Poonam Singh	Principal Scientist
	Dr.S.M.Ganesan	Senior Scientist
	Dr.Shekhar Hansda	Scientist
	Mr.G.Anand Babu	Scientist
	Mr.M.Ashok	Scientist
	Dr. J. Daniel R Joseph	Scientist
	Dr.S.Muralidharan	Principal Technical Officer
	Er.K.Muthuraman	Sr.Tech.Officer (3)

3. ONSITE ASSESSMENT OF THE CORROSION PROBLEMS AT SLPP

During the visit to SLPP on 12.01.2021, the following structural items and equipment at UNIT-1 and 2 were assessed for their corrosion conditions.

- Electrostatic Precipitator (ESP)
- Air Preheater (APH)
- Combustor
- Cyclone
- Induced Draft (ID) fan duct and nearby structures
- Boiler Structure
- Turbine Building
- Fly Ash Silo – Phase I
- Lignite Handling System (LHS) Junction Tower (JNT)-8
- BCN 2A Tunnel
- Secondary Crusher House (Phase-I)
- Cooling Tower

3.1 Materials of Construction for the Equipment and Structures

The materials of construction (MOC) for the equipment and structures were provided by SLPP (Refer Table 1).

Table 1: The materials of construction for the equipment and structures at Unit-1 and 2 of SLPP

Description of the Structures	Materials of Construction	Temperature Exposed
Unit-2 ESP Collecting Electrode Bottom Metal	IS 513 D, 1.6 mm /Corten Steel Grade A, 1.20 – 1.25 mm thick	Flue gas temperature at ESP inlet 140-170°C; ESP outlet 110-140°C
Unit-2 ESP Collecting Electrode Metal Top Side	IS 513 D, 1.6 mm /Corten Steel Grade A, 1.20 – 1.25 mm thick	
Unit-1 ESP Hopper No.44	IS 2062	
Unit-4 ESP Field 7B Casing	IS 2062	
Unit-1 Air Preheater (APH) Hopper	N/A	Flue gas temperature: 140-170°C
Unit-2 Induced Draft (ID) Fan structure	IS 2062	
Unit-1 New Structure Corroded near ID Fan Area	IS 2062	

Unit-2 Flue Gas Condensate collected from ID Fan Discharge	IS 2062	Flue gas temperature: 110-140°C
LHS (Lignite Handling System) Junction Tower-8 metal	IS 2062	
Unit-2 Back-pass System Cooled Wall Tubes (2 no's)with Deposit on Tubes	SA 210 Grade A1	Steam passing through the tubes and Flue Gas at outside of the tubes. Flue gas temperature: 940-960°C
Unit-2 Cyclone & Cross Over Duct (COD) Corroded Shell Plate	IS 2062 Fe410A	Cyclone & Cross over duct is refractory lined of 408 mm - 450 mm thick, consist of three layer refractory: Insulating blocks (shell side). Insulating Bricks or Gun mix (middle) and Refractory Castable or Brick (flue gas side). Flue gas temperature inside cyclone & COD: 850-960°C
Unit-2 Combustor Water Wall Tube (New Tube)	SA209 Grade T1a	
Unit-2 Combustor Water Wall Tube (ErodedOld Tube)	SA209 Grade T1a	Evaporation taking place in combustor water wall tube. Water – steam mixture temperature inside tube: 325-350°C. Tube exposed to flue gas temperature: 800-850°C
Combustor Water Wall Rear Roof Tube	SA209 Grade T1a	
FBHE-4 Evaporator Coil Tube	SA 210 Grade A1	Evaporation taking place in evaporator coil. Water – steam mixture temperature inside tube: 325-350°C Tube exposed to flue gas temperature: 800-840°C
Air-Preheater (APH) Tube	ASTM A423 Grade 1	In APH, air is passing through tubes and flue gas passing outside tubes. Flue gas temperature at APH inlet: 270-300°C. Flue gas temperature at APH outlet: 140-170°C. Primary air inlet temperature: 65-75°C. Primary air outlet temperature: 230-240°C. Secondary air inlet temperature: 45-55°C Secondary air outlet temperature: 230-240°C

3.2 A List of Corrosion By-products Collected for Further Analyses at CECRI

Leakage of tubes at bottom side of the APH was observed at Unit-1. This problem is unique only at cold ends of the tubes. The corroded portion of the APH tube and approx. one meter of the newly procured ASTM A423 Gr.1 steel tube has been collected for further analyses at CECRI. It has been observed that the ESP casing was corroding in many places, particularly next to the connecting areas and the areas where rivets are there. There is a temperature difference of approximately 90°C between the inner side and outer side of the casing plates (inside temperature is 120°C; outside atmospheric temperature is approx. 30°C). The bottom portions of the electrode plates inside the ESP were also corroding. Corrosion problem was also observed at outer areas of the ESP casing and in duct areas. White and yellow deposits were visible at ID outlet ducts. There was also a liquid leakage observed in this area.

Corrosion at reinforced bar of the fly ash silo concrete structure was observed during the preliminary corrosion assessment. The samples from this location were collected by CECRI for further assessment. Corrosion at other structural items was also observed during the preliminary corrosion assessment. CECRI shall evaluate the causes of this general corrosion problem and shall identify the appropriate coating/paint system for these structures. SLPP has already provided the details about the existing paint/coating system.

SLPP has informed that there was a hard refractory like deposition on the fluidized bed heat exchanger (FBHE) tubes. Heat transfer has been reduced due to this hard deposition which resulted in reduced boiler efficiency. The deposit sample was collected from this location for further analysis. The following samples were collected for further analyses at CECRI.

- Bed Material Sample from Ash Cooler-1 of Unit 1
- ESP Collecting Electrode Bottom Portion of Unit-2
- Cooling Tower Concrete and Deposit / Algae from the Structure
- ID Discharge Duct outside casing deposit accumulated on Aluminium Cladding Sheet
- Corrosion By-product from Structure of LHS JNT-8
- Fly Ash from ESP Last Field of Unit-1
- Lignite Sample from Lignite Conveyor-1 of Unit-1
- ESP Hopper No.44 Corrosion Residue Product of Unit-2
- Structure Corrosion By-product near ID fan Area of Unit-1
- Deposit of Casing of Unit-1
- Structure Corrosion By-product near ID fan Area of Unit-2
- ESP Collecting Electrode Metal Top Side of Unit-2
- ESP Collection Electrode Bottom Side (Original Thickness 1.6mm)
- ESP Collection Electrode Deposit Top Side
- New Tube Sample of Combustor Water Wall
- Eroded Tube Sample of Combustor Water Wall
- Liquid Collected from ID 1B Exhaust Sox Point of Unit-1
- Back-pass System Cooled Wall (SCW) Tubes with Hard Deposit
- APH Tubular Corrosion Samples

3.3. Analysis of the Combustion Gas by SLPP

SLPP has carried out combustion gas analyses at various sections of UNIT-3 such as stacks attached to APH inlet, ESP inlet, ESP outlet, ID Fan outlet and Boiler. The results are given in Tables 2. The fly ash samples collected from different locations and their characterization results are shown in Table 3.

Table 2: Analyses of Combustion Gas at Various Structures of UNIT-3

S.No	Test Parameters	Results					GPCB Limit
		APH Inlet	ESP Inlet	ESP Outlet	ID Fan Outlet	Boiler	
1	SO_2, ppm	302.0	286.2	179.8	164.1	87	100
2	NO_2, ppm	45.2	38.0	36.2	26.3	22.1	50
3	Cl_2, mg/Nm^3	BDL	BDL	BDL	BDL	BDL	-
4	H_2S, mg/Nm^3	BDL	BDL	BDL	BDL	BDL	-
5	CS_2, mg/Nm^3	BDL	BDL	BDL	BDL	BDL	-
6	CO, %	0.42	0.40	0.39	0.31	0.25	-
7	CO_2, %	12.5	9.8	9.5	9.1	8.7	-
8	O_2, %	5.5	8.1	8.4	8.9	9.3	-
9	Gaseous Fluoride, mg/Nm^3	BDL	BDL	BDL	BDL	BDL	-
10	Acid Mist, mg/Nm^3	78.2	56.4	41.7	29.5	9.3	-
11	HCl, mg/Nm^3	BDL	BDL	BDL	BDL	BDL	-
12	SO_3, ppm	120	114	72.3	65.6	34.9	-
13	Moisture, %	0.23	0.04	0.04	0.60	0.42	-

*BDL- Below Detectable Limit

CHAPTER – 4

ASSESSMENT OF THE CORROSION PROBLEM AT COLLECTING ELECTRODES OF UNIT-II

4.1 The Collecting Electrodes of Electrostatic Precipitator (ESP)

The collecting electrode plates are made of 1.20–1.25 mm thick IS 513D, Corten Steel Grade A and shaped in one piece by roll forming. The collecting electrode has unique profile designed to give rigidity and to contain the dust in a quiescent zone free from re–entertainment. The 400-mm collecting plates are provided with hooks to their top edge for suspension. The hooks engage in the slots of the supporting angles. 750 mm collecting electrodes are provided with slots, which are engaged on the hooks welded on the suspension angles. All the collecting plates in a row are held in position by a shock bar at the bottom. The shock bars are spaced by guides. The collecting electrodes are exposed to hot flue gas as shown below.

Flue gas temperature at ESP inlet = 140-170°C;

Flue gas temperature at ESP outlet = 110-140°C

4.2 The Corrosion Problem Observed in Collecting Electrodes

Corrosion of the collecting electrodes was severe at the bottom side of the electrode in comparison to their top sides. The damaged bottom portion of the collecting electrode is shown in Figure 4.1. The corroded top sides of the collecting electrodes are shown in figure 4.2. The corrosion by-products collected from the bottom and top portions of the collecting electrode are shown in Figure 4.3.

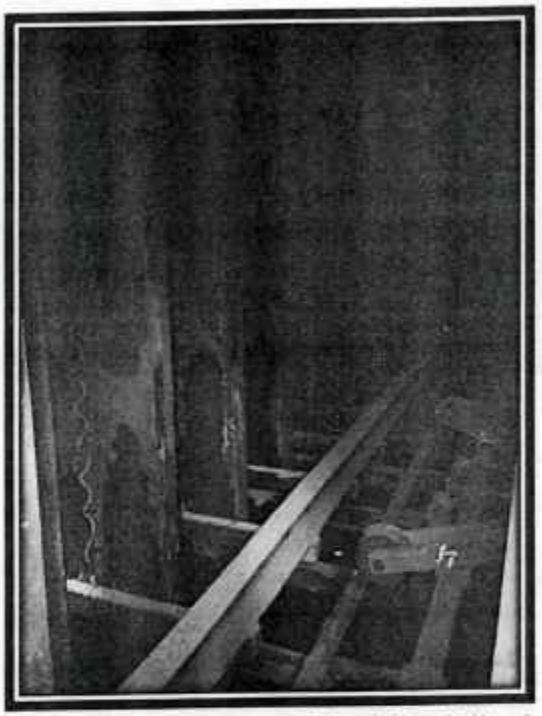


Figure 4.1: Corrosion at the bottom Side of the Collecting Electrode

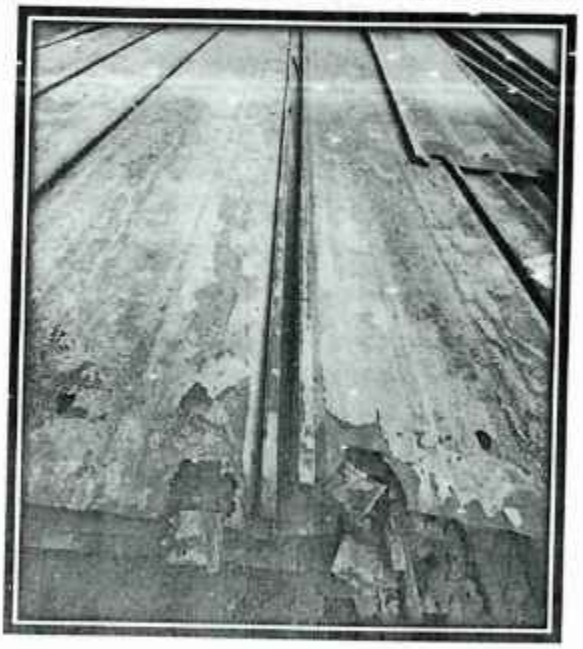


Figure 4.2: Corrosion at the Top Side of the Collecting Electrode

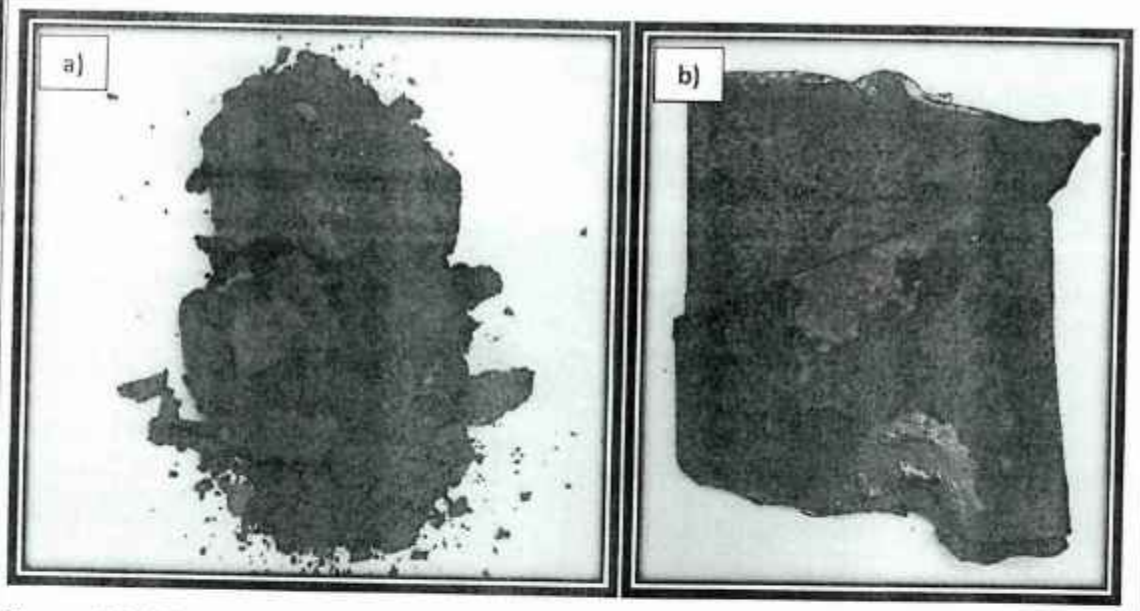


Figure 4.3: The corrosion by-products collected from a) the bottom and b) top portions of the collecting electrode from UNIT-II

4.3 Characterizations of the Corrosion By-products

The following tests were carried out to evaluate the causes of the corrosion.

- Alkalinity Study
- Estimation of the Sulphate
- Morphology Study by Scanning Electron Microscope (SEM)
- Elemental Identification by Energy Dispersive Spectroscope
- X-ray Diffraction (XRD) Analysis

4.4 Observations

The results of the chemical analysis are given in Table 4.1.

Table 4.1 Chemical Analyses of the Corrosion By-products from Collecting Electrode

Details	Corrosion By-product Collected from the Bottom Side of the Electrode	Corrosion By-product Collected from the Top Side of the Electrode
pH Level	6.83	-
Chloride Level, ppm	7657.20	-
Sulphate (%)	23.54	10.30

4.4.1 Alkalinity Study

- The corrosion by-product collected from the bottom portion of the electrode was highly acidic in nature (i.e. pH value of 6.83).
- It was not possible to crush the strong corroded metal piece collected from the top side. Hence there was no pH test carried out on this corrosion by-product. Considering the strong acidic nature of the corrosion by-product collected from the bottom side of the electrode, the corrosion by-product collected from the top side can also be categorized as strongly acidic in nature.

4.4.2 Estimation of the Chloride

- The corrosion by-product collected from the bottom side of the electrode has showed high level of chloride (i.e. 7657.20 ppm) in it.
- It was not possible to crush the strong corroded metal piece collected from the top side. Hence there was no chloride content test carried out on this corrosion by-product.

4.4.3 Estimation of the Sulphate

- The corrosion by-product from bottom portion showed very high level of sulphate (i.e. 23.54%).
- There was also a high level of sulphate (i.e. 10.30%) was observed in the corrosion by-product collected from the top side of the electrode.

4.4.4 Morphology Study by Scanning Electron Microscope (SEM)

The results of SEM study for the corrosion by-products collected from the bottom and top sides of the electrode are shown in Figure 4.4. The corrosion by-product collected from the bottom portion of the electrode was in sintered form as shown in Figure 4.4 (a) whereas the corrosion by-product collected from the top side had randomly distributed hard particles as shown in Figure 4.4 (b).

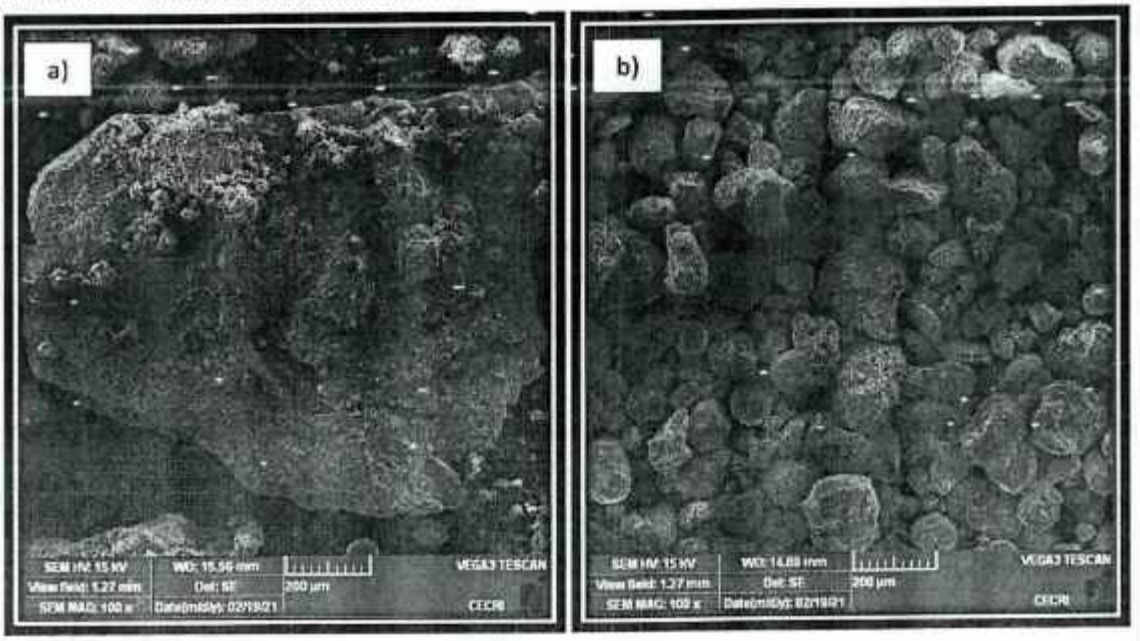


Figure 4.4: Scanning electron micrographs of the corrosion by-products collected from a) bottom side and b) top side of the collecting electrode at UNIT-II

4.4.5 Elemental Identification by Energy Dispersive Spectroscope

The corrosion by-product collected from the bottom side of the electrode predominantly contained C, O and Ca rich compounds (refer Figure 4.5 and Table 4.2).

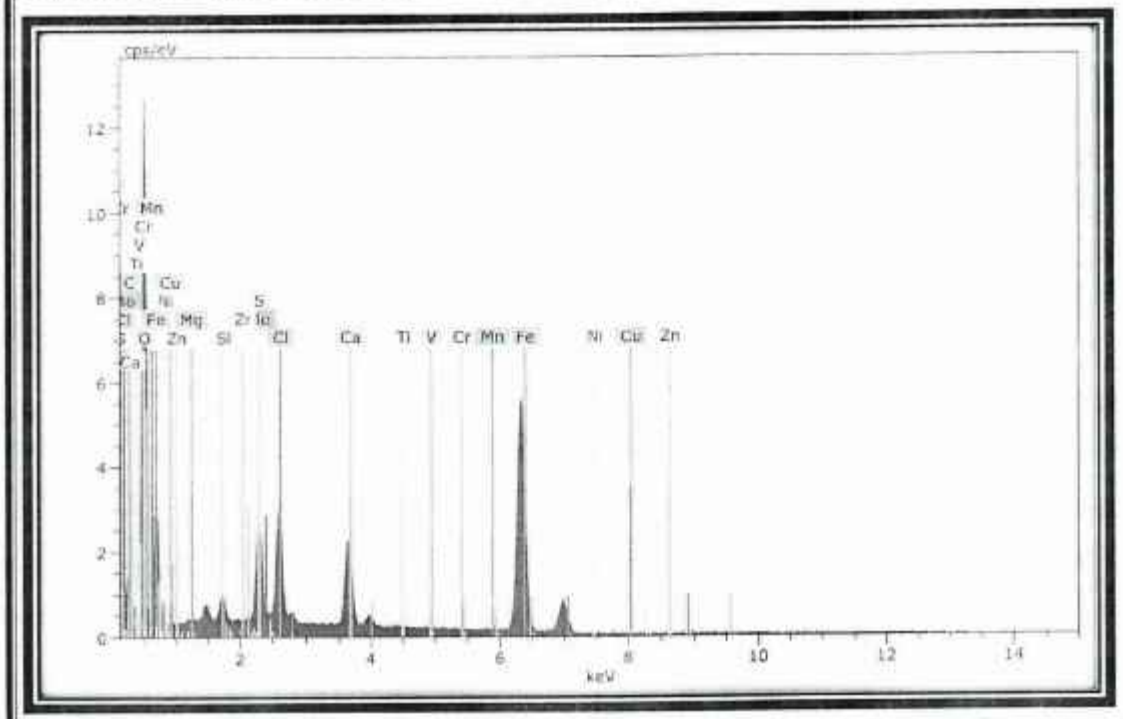


Figure 4.5: Energy dispersive spectroscopy study of the Corrosion By-product from the Collecting Electrode Bottom Side from UNIT-2

Table 4.2: The chemical elements and their proportions identified by Energy dispersive spectroscopy for the Corrosion By-product from the Collecting Electrode Bottom Side from UNIT-2

S.No.	EL: Element	Atomic No.	The normalized concentration in Wt.% of the element	The atomic Wt.% of the Element
1	Fe	26	39.62	17.21
2	O	8	37.55	56.95
3	C	6	9.11	18.40
4	Ca	20	4.37	2.65
5	Mo	42	3.56	0.90
6	Cl	17	3.41	2.33
7	S	16	1.10	0.83
8	Si	14	0.41	0.35
9	Zn	30	0.26	0.10
10	Cr	24	0.18	0.08
11	Cu	29	0.15	0.06
12	Ti	22	0.12	0.06
13	Ni	28	0.09	0.04
14	V	23	0.07	0.03

The corrosion by-product collected from the top side of the electrode predominantly contained O, C, Fe, Si, and Al (refer Figure 4.6 and Table 4.3).

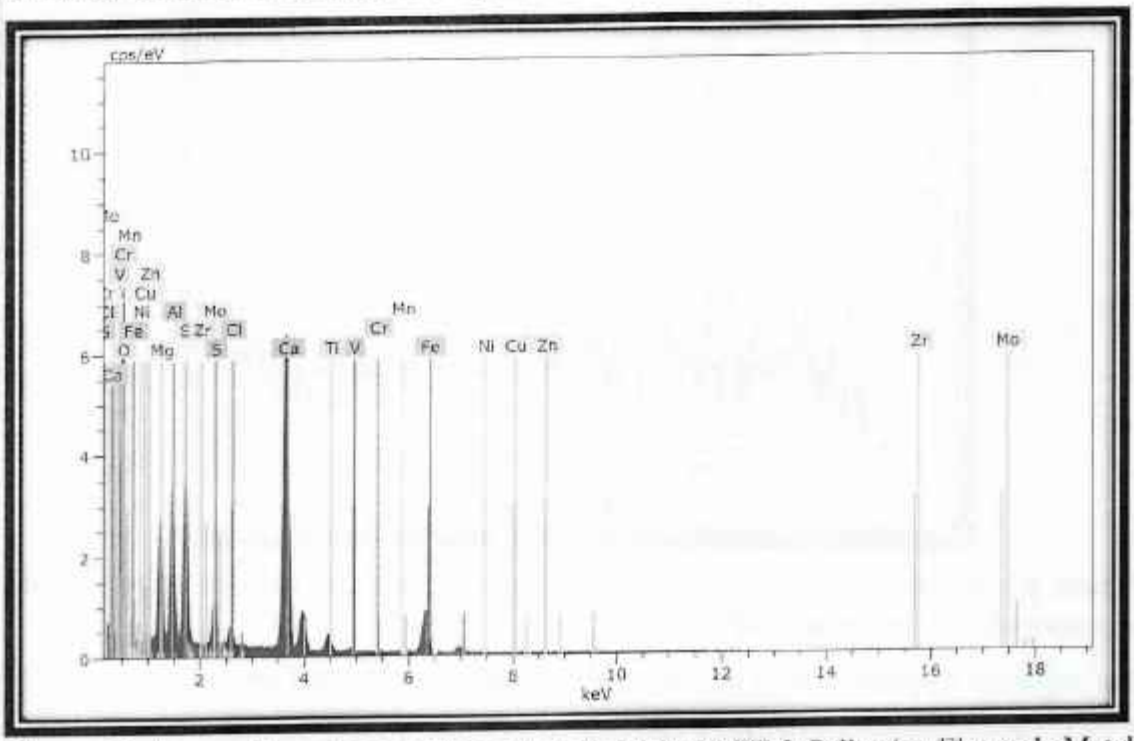


Figure 4.6: Energy dispersive spectroscopy study of the UNIT-2 Collecting Electrode Metal Top Side Sample

Table 4.3: The chemical elements and their proportions identified by Energy dispersive spectroscopy for the UNIT-2 Collecting Electrode Metal Top Side Sample

S.No.	EL: Element	Atomic No.	The normalized concentration in Wt.% of the element	The atomic Wt.% of the Element
1	O	8	44.77	60.90
2	Ca	20	20.93	11.37
3	Fe	26	8.59	3.35
4	Si	14	5.59	4.33
5	C	6	5.21	9.43
6	Al	13	5.05	4.07
7	Mg	12	4.75	4.25
8	Ti	22	1.43	0.65
9	Mo	42	1.36	0.31
10	S	16	0.98	0.66

4.4.6 X-ray Diffraction (XRD) Analysis

The x-ray diffraction pattern of the corrosion by-product collected from the bottom side of the electrode showed calcite ($CaCO_3$), silica (SiO_2) and alumina (Al_2O_3) (refer Figure 4.7).

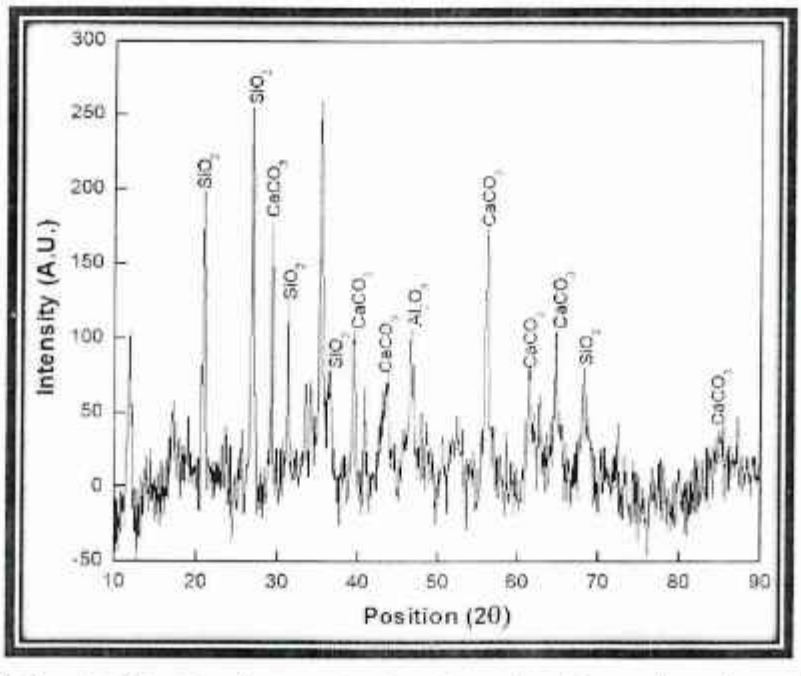


Figure 4.7: X-Ray Diffraction Pattern for the Corrosion By-product from the Collecting Electrode Bottom Side from UNIT-2

The corrosion by-product from the top side of the electrode showed predominant peaks of alumina, silica, calcite, and hematite (refer Figure 4.8).

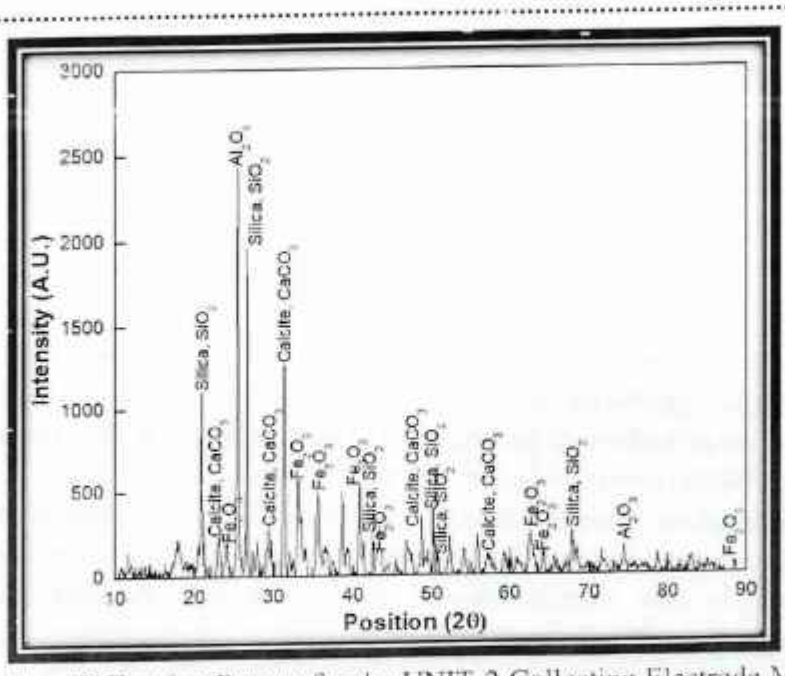


Figure 4.8: X-Ray Diffraction Pattern for the UNIT-2 Collecting Electrode Metal Top Side Sample

4.5 Conclusions

- The corrosion by-product collected from the bottom side of the collecting electrode is highly acidic in nature. It can definitely accelerate the corrosion on the electrode surface.
- The presence of high level of chloride (7657.20 ppm) and sulphate (10.30-23.54%) can further accelerate the corrosion on the electrode surfaces. Despite a very limited concentration in the deposits, Cl^- could continually permeate the corrosion products and accumulate in the area near the interface of the corrosion products and the substrate, which was favourable for further corrosion of the steel. Furthermore, the Cl^- enriched corrosion products tended to crack, leading to the spalling of the corrosion layer and exposure of the inner corrosion products.
- The large area of thin metal causes concern for the magnitude of possible corrosion of the collecting electrode surfaces. There are critical corrosion zones for the collecting electrodes that are dependent upon the physical location within the precipitator as well as the specific location. The collecting electrodes adjacent to the outer shell walls are subjected to the maximum temperature variations and possible dew point conditions.
- The lower portions of the collecting electrodes, especially towards the gas outlet of the precipitator, become sensitive to temperature variations.
- The top portions of the collecting electrodes can be affected by the flow of air through support insulators.
- The type of fabrication used to reinforce or stiffen the collecting electrodes can provide crevices for corrosive action.
- Misalignment or bowing of the collecting electrodes can cause localized metal erosion from excessive electrical breakdowns between the electrode systems. Sharp edges on the

collecting electrodes can also cause localized electrical activity which can produce metal erosion.

4.6 Recommendations of Remedial Measures

The corrosion in collecting electrode is closely related to both the precipitator design and the complex characteristics of the flue gas or the particulate matter to be collected.

- In the earlier design of the fly ash precipitators, bolted roof plates were commonly used to provide access for the replacement of internal components. This arrangement provided ample opportunity for general metal corrosion which usually resulted in openings for the in-leakage of air and water. The usual solution is to replace the plated area with a solid steel cover and apply at least 4 in. of insulation block.
- Excessive air intake into the insulator compartments can cause condensation of moisture and oxidation of metal surfaces. This condition can be minimized by the reduction of the intake opening to allow approximately 170m^3/hr to sweep the bushing surface. In many cases, appropriate application of electric heater elements shall minimize the difficulty in this area.
- The normal fly ash precipitator operated at 143°C and above should experience minimal corrosion damage on the collecting electrode surfaces, except for possible crevice attack over an extended period. A periodic program for the removal of ash deposit from the collecting electrode surface by using water wash can cause excessive rusting and metal loss.
- Collector surface damage has been detected at the bottom of the plates when excessive air in-leakage occurred through the hopper system.
- Localized areas of metal erosion have also been observed on collector surfaces where reduced electrical clearances have caused excessive arc-over.
- Stress corrosion failures in stainless steel wires have been experienced from the attack of chlorides. The failure usually occurs at a bend in the wire fabrication. Poor quality alloy steel used in electrodes can produce cracks and subsequent failure at locations of stress due to wire motion or defects in design.
- Wire electrode erosion has occurred at locations opposite the upper and lower terminations of the collecting electrodes in fly ash precipitators exhibiting high spark-over characteristics. Often pitting and thinning of the electrode occurs prior to failure. Proper application of a steel shroud or ferrule on the wire at these critical locations will eliminate the problem.
- The material specification for the shroud should be similar to the steel material used in the electrode to minimize the galvanic corrosion possibility between the two components. Especially important is a proper bond between the electrode and shroud to minimize spit sparking at this junction.
- One common area in fly ash precipitators susceptible to corrosion attack is the access doors especially located at the sides of the collecting electrodes. One method of correction prevention shall be to provide a double door arrangement with proper insulation or air spacing between the door zones.

CHAPTER 5

ASSESSMENT OF THE CORROSION PROBLEM AT ELECTROSTATIC PRECIPITATOR (ESP) HOPPER NO.44 OF UNIT-I AND CYCLONE & CROSS OVER DUCT (COD) SHELL PLATE FROM UNIT-II

5.1 Description of the Structures

5.1.1 The ESP Hopper

The ESP hopper is made of IS 2062 steel. It is exposed to hot flue gas. The flue gas temperature at ESP inlet is 140-170°C and ESP outlet is 110-140°C. The ESP hopper No.44 from UNIT-I is shown in Figure 5.1 (a). The inner surface of a metal plate removed from the ESP hopper shows metal loss due to high temperature erosion wear (refer Figure 5.1(b)).

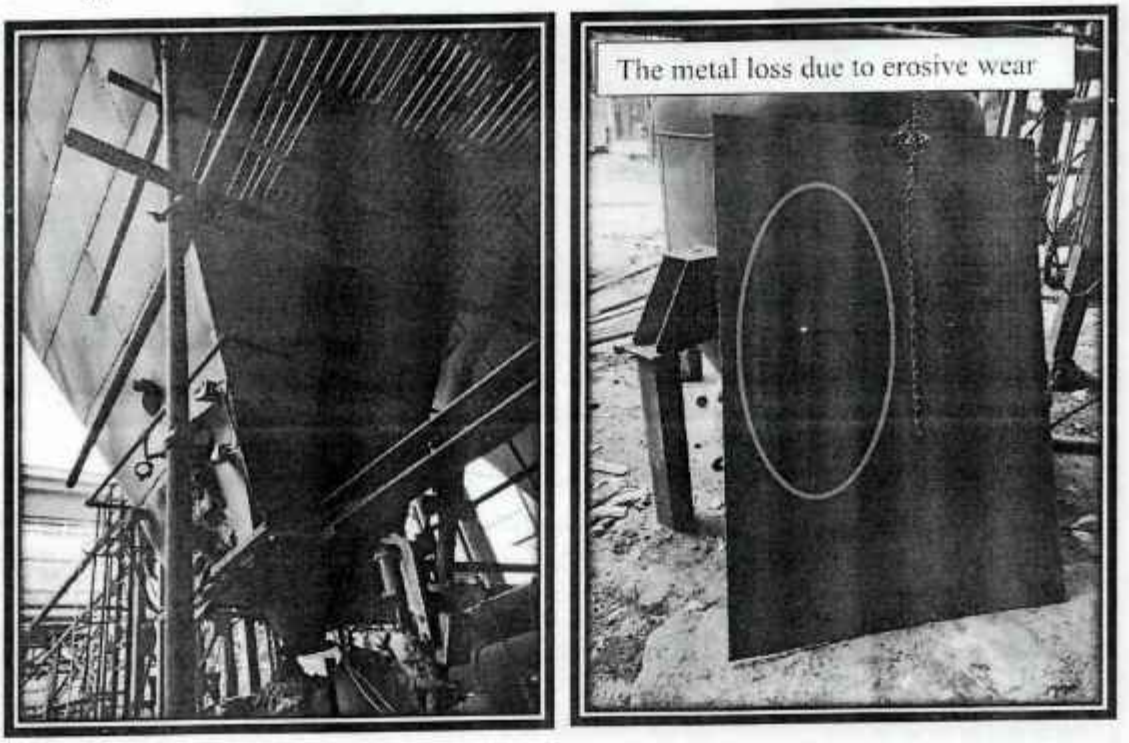


Figure 5.1: ESP Hopper No.44 from UNIT-I and b) the visible metal loss due to high temperature erosive wear at inner surface of the plate removed from the ESP Hopper No.44.

5.1.2 Cyclone & Cross over Duct (COD) Shell Plate at UNIT-II

Cyclone & cross over duct is a system lined with refractory in the range of 408-450 mm thick. It consisted of three layer refractory: a) insulating blocks (shell side), b) insulating bricks or gun mix (middle) and c) refractory castable or brick (flue gas side). The flue gas temperature inside the cyclone & COD shall be around 850-960°C. The shell plate is made of IS 2062 Fe410A steel. The damaged cross over duct (COD) system is shown in Figure 5.2



Figure 5.2: The damaged cross over duct (COD) system at UNIT-I

5.2. The Mechanisms of Material Degradation

5.2.1 Erosion Wear

- Solid particle erosion is a type of erosion process in which loss of material takes place which is caused by repeated impact of small, solid particles entrained in air/gas at any significant velocity.
- It is a major problem for the electric power industry, jet turbine, pipe line and steam turbine etc.
- It leads to efficiency loss, forced outages and repair costs. Erosion and high temperature wear in coal-fired boilers are recognized as being the main cause of downtime at power-generating plants.

5.2.2. High Temperature Oxidation

- High temperature oxidation and erosion by the impact of fly ashes and unburned carbon particles are the main problems to be solved in lignite based power generating plants.
- It is a type of corrosion comprising of the reaction between metallic elements and air or oxygen at elevated temperature in the absence of water.
- The rate of hot corrosion / oxidation of a metallic element at elevated temperature mainly depend on the nature of the oxide layer that develops on the metallic surface.
- It increases when the surface of metallic elements are coated with a thin film of fused salt in an oxidizing gas environment.

- In other words high temperature corrosion may be defined as an accelerated corrosion, resulting from the presence of salt contaminants (NaCl, Na2SO4, and V2O5) that combine to form molten deposits, which damage the protective surface oxides. There are two types of hot corrosion. They are,
  - Type I Hot Corrosion
  - Type II Hot Corrosion

Type I Hot Corrosion:

- It occurs at elevated temperature around 850-950°C (above the melting point of Na_2SO_4). It begins with the condensation of the fused alkali metal salts like sodium sulphide, sodium carbonate, and sodium acetate etc., on the surface of the exposed parts to elevated temperature.
- Then the chemical reaction occurs and initially attacks the protective oxide film and continuously reduces the chromium (Cr) content of the substrate materials.
- Due to the reduction in chromium content, oxidation of the substrate rapidly increases and porous scale form.

Type II Hot Corrosion:

- It takes place around 650-800°C temperature (less than the melting point of Na2SO4, in the presence of small amount of SO_3. It is described by a pitting attack with little attack underneath.
- In this type of high temperature corrosion, low melting point eutectic mixtures of Na_2SO4 and $CoSO_4$ cause typical pitting in the confined areas. In low temperature hot corrosion, microscopic sulphidation & chromium depletion is normally not noticed. This type of corrosion is mainly occurs in industrial, marine and gas turbines.

5.3 Characterizations of the Deposition Products

The deposits as shown in Figure 5.3 (a & b) were collected for detailed analyses from the inner surface of the ESP Hopper No.44 from UNIT-I and COD shell plate from UNIT-II respectively. The following tests were carried out to evaluate the causes of the material degradation,

- Alkalinity Study
- Estimation of the Sulphate
- Morphology Study by Scanning Electron Microscope (SEM)
- Elemental Identification by Energy Dispersive Spectroscope
- X-ray Diffraction (XRD) Analysis

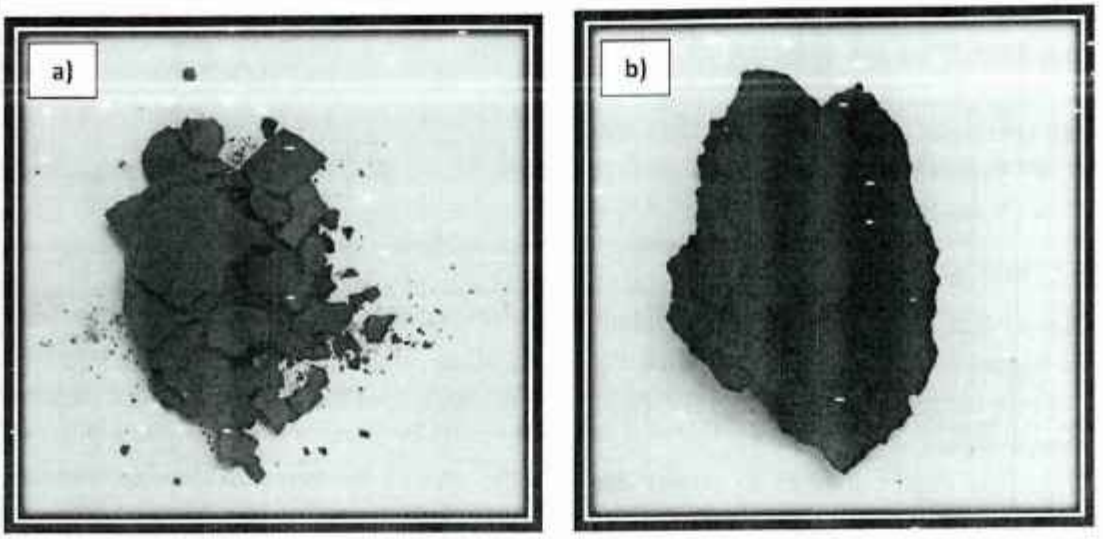


Figure 5.3: The deposits collected at a) the ESP Hopper No.44 from UNIT-I and b) COD shell plate from UNIT-II

5.4 Observations

The results of the chemical analysis are given in Table 5.1.

Table 5.1 Chemical Analyses of the Collected Deposits

Details	The Deposit Collected at the ESP Hopper No.44 from UNIT-I	The Deposit Collected at the COD Shell Plate from UNIT-II
Chloride Level, wt%	0.58	0.58
Sulphate (%)	18.10	0.90

5.4.1 Estimation of the Chloride

- Both samples contained 0.58 wt.% of chlorine in total elemental concentration as per the energy dispersive spectroscopic study (refer Tables 5.5 and 5.6).
- It should be noted that even a small percentage of chlorine's presence in the form of chloride can attack the passive corrosion protective layer on the metal's surface and then accelerate the corrosion degradation.

5.4.2 Estimation of the Sulphate

- The deposit from ESP Hopper No.44 showed very high level of sulphate (i.e. 18.10%).
- Only small percentage of sulphate (i.e. 0.90%) was observed in the deposit collected from the COD shell plate.

5.4.3 Morphology Study by Scanning Electron Microscope (SEM)

The deposit collected at the ESP Hopper No.44 from UNIT-I had accumulation of hard particles. The particles are in the range of 20-40µm in size (refer Figure 5.4 a). The deposit

collected at the COD shell plate from UNIT-II showed patchy and irregular shape of particles (refer Figure 5.4 b).

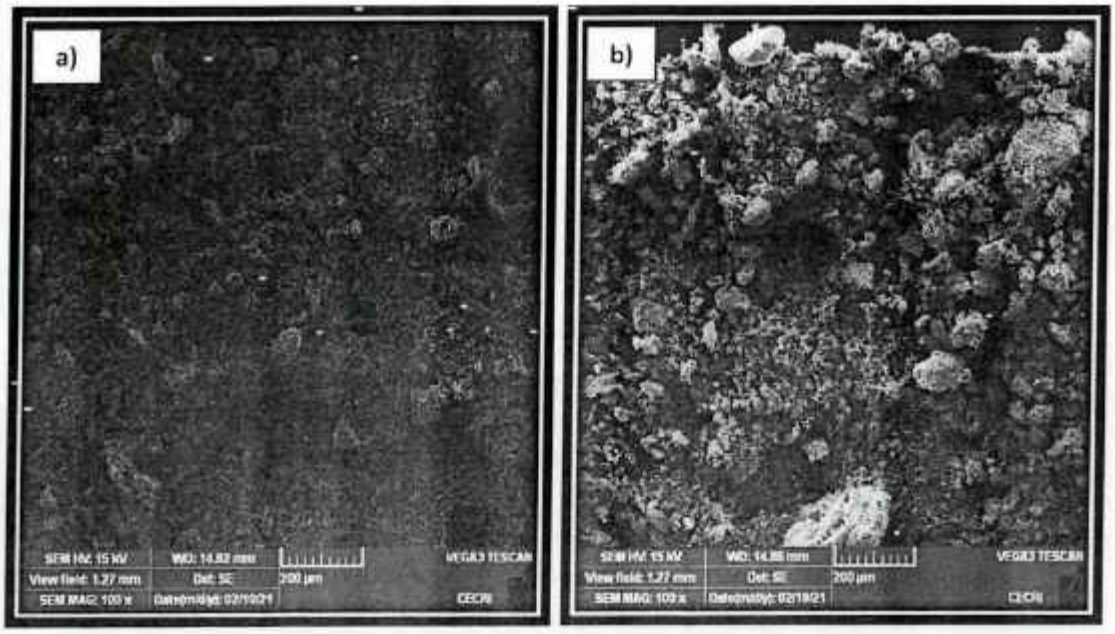


Figure 5.4: Scanning electron micrographs of the deposits collected at a) ESP Hopper No.44 from UNIT-I and b) the COD shell plate from UNIT-II

5.4.4 Elemental Identification by Energy Dispersive Spectroscope

The energy dispersive spectroscope analysis of the deposit from ESP Hopper No.44 showed the following elements in the order of their decreasing atomic weight percentages. O, C, Fe, Ca, Mo etc (refer Figure 5.4 and Table 5.2). The presence of Fe, O and C enriched compounds had been confirmed in the energy dispersive spectroscopy analysis of the deposit from COD shell plate (refer Figure 5.5 and Table 5.3).

5.5 Conclusions

- The material had continuously been removed from the surface of the ESP Hopper plate due to erosive wear caused by the flue gas with fly ash particulates at around 100-140°C. The flue gas at this temperature range might have accelerated the oxidation of the hopper plate. The x-ray diffraction analysis of the deposit collected from the ESP hopper plate has confirmed the presence of iron oxide (Fe_2O_3).
- The high temperature corrosion generally takes place in three different stages. They are,
  - First stage / incubation stage: the reaction proceeds at a rate similar to normal oxidation.
  - Second stage / initiation stage: the corrosion shall be accelerated.
  - Third stage / propagation stage: rapid corrosion takes place. After this stage ultimate failure of the component shall take place.
  - The visual inspection of the failed COD shell plate confirmed the third stage of the high temperature corrosion.
- The presence of Cr_2O_3 enriched phase in x-ray diffraction analysis of the deposit collected from the COD shell plate confirms the chromium depletion due to high temperature corrosion. Type II hot corrosion might have occurred on the surface of the COD shell plate at around 650-800°C range. This is characterized by the formation of the pitted or uneven surface with layers of corrosion products/deposits on the surface and no subsurface depletion zones or internal sulphide formations.
- The deposit collected from the ESP Hopper plate showed high level of sulphate (18.10%) whereas only small percentage (0.90%) of sulphate was observed in the deposit collected from the COD shell plate.
- The mechanism of hot corrosion is generally believed to be a result of the interaction of the surface protective oxide scales at first and then of the underlying alloys with molten surface deposits. It is described as fluxing mechanisms. Both acidic and basic fluxing reactions are possible depending on the deposit composition and the composition of the oxide/underlying coating/alloy. In case of basic fluxing, oxide ions are produced in a deposit of Na_2SO_4 by the removal of oxygen and sulphur from the deposit by the reaction with underlying coating/alloy. Hence the surface deposit had been deprived of sulphates. It is confirmed in chemical analysis of the deposit collected from the COD shell plate which showed only 0.90% sulphates.

5.6 Recommendation of Remedial Measures

- Erosive wear and high temperature corrosion, though may not be completely avoided, can be overcome by either changing the material or altering the environment or by separating the material surface from the environment.
- Super alloys have been developed for high temperature applications, but they are unable to meet the requirements of both the high-temperature strength and the high-temperature erosion-corrosion resistance simultaneously. In fact, no metal or alloy is immune to high temperature attack, though some alloy compositions may require a long initiation time before the corrosion process moves from initiation to propagation.

- One possible way to address these problems is by applying a thin layer of anti-wear and anti-oxidation coatings with good thermal conductivity. The abrasion and corrosion resistance of components can be greatly increased by these protective coatings.
- Chromium, in addition to improving the high temperature corrosion resistance, it can also considerably reduce oxygen diffusion into the metal surface by lowing the oxygen activity at the oxide scale-alloy interface. However, even under the stable Cr_2O_3 layer, sulphidation attack is still feasible. The alloying element that forms a stable sulphide can diffuse through the oxide scale and eventually form sulphide on the surface of the oxide scale, leading to breakaway corrosion. A thin layer of Si or SiO_2 deposited on Fe-Cr alloy shall improve corrosion resistance against sulphidation at about 700°C. It should be noted that the Fe- and Ni-based high-temperature super alloys are susceptible to sulphidation attack unless they are fortified with high levels of Cr, Al, and Si.
- A Ni-Co-based alloy (HR-160) developed by Haynes International containing high Cr and Si exhibits exceptional sulphidation resistance. In this alloy, the formation of a stable barrier containing Al_2O3, SiO_2, or TiO_2 are partly responsible for the increased corrosion resistance.

7.4.3 Structures at ESP Field Casing Area

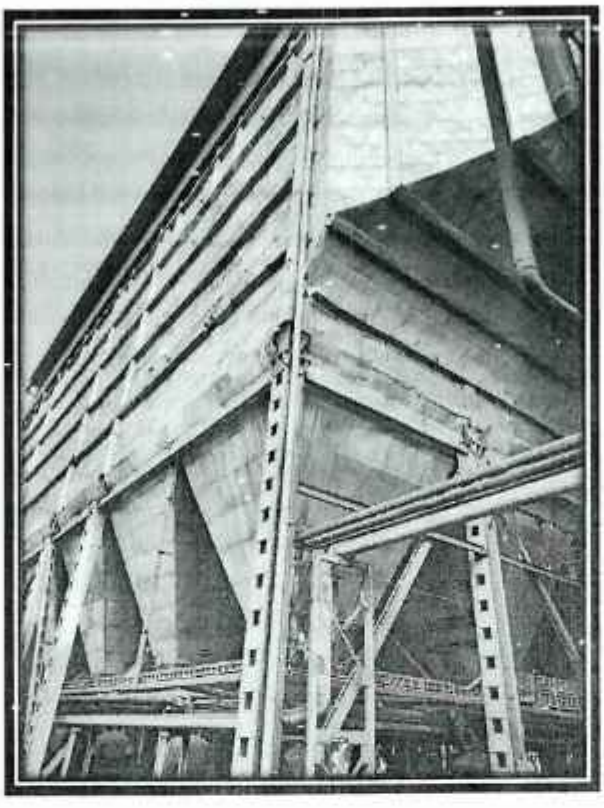


Figure 7.3: Uniform corrosion on the surface of the structures at the ESP Field casing area

Observations:

- The structures were exposed to un-burnt coal and hot fly ash at inner side whereas the outer side was exposed to smoke filled with SOx and hard particulates like calcite and silica from fly ash.
- The surface had been covered with brownish corrosion by-product caused by the uniform corrosion. The marks of the erosive wear due to the attack of hard particulates in fly ash were also observed on the surface.
- The atmospheric exposure of the surface, which had been covered with the fly ash deposit, could have formed local electrochemical cell on it with anodic and cathodic areas. The localized surface under the fly ash deposit might have corroded which resulted in tiny pits on it.

GUJARAT INDUSTRIES POWER COMPANY LIMITED
SURAT LIGNITE POWER PLANT (GIPCL-SLPP)

DETAILED PROJECT REPORT (DPR)

FOR

RENOVATION & MODERNIZATION (R & M)
AND LIFE EXTENSION (LE) OF SLPP PHASE – 1
(2 X 125 MW UNITS - 1&2)



PREPARED AND SUBMITTED BY

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ABBREVIATIONS

AC	ALTERNATING CURRENT
AOH	ANNUAL OVERHAULING
AVR	AUTOMATIC VOLTAGE REGULATOR
APH	AIR PRE-HEATER
ATT	AUTOMATIC TURBINE TESTING
ATRS	AUTOMATIC TURBINE RUN-UP SYSTEM
BAU	BUSSINESS AS USUAL
BFP	BOILER FEED PUMP
BHEL	BHARAT HEAVY ELECTRICALS LTD
BMCR	BOILER MAXIMUM CONTINUOUS RATING
BOP	BALANCE OF PLANT
BOQ	BILL OF QUANTITY
BTG	BOILER TURBINE GENERATOR
CA	CONDITION ASSESSMENT
CAVT	COLD AIR VELOCITY TEST
CEA	CENTRAL ELECTRICITY AUTHORITY
CEP	CONDENSATE EXTRACTION PUMP
CERC	CENTRAL ELECTRICITY REGULATORY COMMISSION
CFBC	CIRCULATING FLUIDIZED BED COMBUSTION
CRH	COLD RE-HEATER
CVSM	CONTROL VALVE SOLENOID MOTOR
CT	CURRENT TRANSFORMER
CV	CONTROL VALVE
CW	CIRCULATING WATER
DC	DIRECT CURRENT
DCF	DRAG CHAIN FEEDER
DCS	DISTRIBUTED CONTROL SYSTEM
DP	DIFFERENTIAL PRESSURE
DPR	DETAILED PROJECT REPORT
DVR	DIGITAL VOLTAGE REGULATOR
ECO	ECONOMIZER
EHC	ELECTRO-HYDRAULIC CONTROL
EPC	ENGINEERING, PROCUREMENT AND CONSTRUCTION
ESP	ELECTROSTATIC PRECIPITATOR
ESV	EMERGENCY STOP VALVE
FD	FORCED DRAFT
FIRR	FINANCIAL INTERNAL RATE OF RETURN
FSH	FINAL SUPER HEATER
FSSS	FURNACE SAFEGUARD SUPERVISORY SYSTEM
FWS	FEED WATER STATION
GCV	GROSS CALORIFIC VALUE

GERC	GUJARAT ELECTRICITY REGULATORY COMMISSION
GIPCL	GUJARAT INDUSTRIES POWER COMPANY LIMITED
GT	GENERATOR TRANSFORMER
GUVNL	GUJARAT URJA VIKAS NIGAM LIMITED
HEA	HIGH ENERGY ARC
HMBD	HEAT MASS BALANCE DIAGRAM
HP	HIGH PRESSURE
HPH	HIGH PRESSURE HEATER
HRH	HOT RE-HEATER
HT	HIGH TENSION
IC	IMPORTED COAL
ID	INDUCED DRAFT
IDCT	INDUCED DRAFT COOLING TOWER
IP	INTERMEDIATE PRESSURE
IRR	INTERNAL RATE OF RETURN
IV	INTERCEPTOR VALVE
KV	KILO VOLT
KW	KILO WATT
LDO	LIGHT DIESEL OIL
LE	LIFE EXTENSION
LP	LOW PRESSURE
LPH	LOW PRESSURE HEATER
LRSB	LONG RETRACTABLE SOOT BLOWER
LT	LOW TENSION
LTSH	LOW TEMPERATURE SUPER HEATER
LV	LOW VOLTAGE
MCR	MAXIMUM CONTINUOUS RATING
MOCB	MINIMUM OIL CIRCUIT BREAKER
MOEF&CC	MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
MOT	MAIN OIL TANK
MS	MAIN STEAM
MU	MILLION UNIT
MV	MEDIUM VOLTAGE
MVA	MEGA VOLT AMPERE
MVAR	MEGA VOLT AMPERE REACTIVE
MW	MEGA WATT
IDCT	INDUCED DRAUGHT COOLING TOWER
NEP	NATIONAL ELECTRICITY POLICY
O & M	OPERATION & MAINTENANCE
OEM	ORIGINAL EQUIPMENT MANUFACTURER
OSBL	OUTSIDE BOUNDARY LIMIT
PA	PRIMARY AIR

PFC	POWER FINANCE CORPORATION
PLC	PROGRAMMABLE LOGIC CONTROLLER
PLF	PLANT LOAD FACTOR
PPA	POWER PURCHASE AGREEMENT
PRDS	PRESSURE REDUCING & DE-SUPERHEATING
PSH	PLATEN SUPER HEATER
REF	RESTRICTED EARTH FAULT
RFQ	REQUEST FOR QUALIFICATION
RH	RE- HEATER
RLA	RESIDUAL LIFE ASSESSMENT
RTD	RESISTANCE TEMPERATURE DETECTORS
SADC	SECONDARY AIR DAMPER CONTROLS
SAS	SUBSTATION AUTOMATION SYSTEM
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SESI	STEAG ENERGY SERVICES (INDIA) PVT. LTD.
SH	SUPER HEATER
SLPP	SURAT LIGNITE POWER PLANT
SPM	SUSPENDED PARTICULATE MATTER
SO_x	OXIDES OF SULPHUR
STG	STEAM TURBINE GENERATOR
SWAS	STEAM AND WATER ANALYSIS SYSTEM
TC	THERMOCOUPLE
TG	TURBINE GENERATOR
TMCR	TURBINE MAXIMUM CONTINOUS RATING
TSI	TURBINE SUPERVISORY INSTRUMENT
TSE	TURBINE STRESS EVALUATOR
TTD	TERMINAL TEMPRATURE DIFFERENCE
UPS	UNINTERRUPTED POWER SUPPLY
UCD	UNIT CONTROL DESK
UHR	UNIT HEAT RATE
VFD	VARIABLE FREQUENCY DRIVE

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MEASUREMENT UNITS

°C	:	DEGREE CELSIUS
cm^2	:	SQUARE CENTIMETER
dB (A)	:	DECIBELS ABSOLUTE
Hr	:	HOUR
Hz	:	HERTZ
KCal	:	KILO CALORIE
Kg	:	KILOGRAM
Kl	:	KILO LITER
Km	:	KILO METER
kV	:	KILO VOLT
kVA	:	KILO VOLT AMPERE
kW	:	KILO WATT
kWh	:	KILO WATT HOUR
M	:	METER
m^2	:	SQUARE METER
m^3	:	CUBIC METER
Mg	:	MILLIGRAM
MJ	:	MILLIONS OF JOULE
Mm	:	MILLIMETER
Cm	:	CENTIMETER
MVA	:	MEGA VOLT AMPERE
MW	:	MEGA WATT
Ppm	:	PARTS PER MILLION
Rpm	:	REVOLUTIONS PER MINUTE
TPH	:	TONNES PER HOUR
mg/Nm^3	:	MILLIGRAM PER NORMAL CUBIC METER
$\mu g/m^3$	:	MICROGRAMS PER CUBIC METER

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1.0 EXECUTIVE SUMMARY

GIPCL commissioned SLPP Phase-I 2x125MW Surat Lignite Power Plant based on environment friendly CFBC technology Boilers near Surat on 15th Feb 2000. The Plant has been successfully operating as an IPP having a long term PPA with GUVNL for 30 years.

STEAG Energy Services India (SESI) were appointed as consultant to carry out the Renovation & Modernisation and Life Extension (R & M and LE) by 15 years beyond design economical life of 25 years of the Steam Generator (Boiler) & auxiliaries, Steam Turbine & auxiliaries, Electrical System, Instrumentation and Control System, Lignite handling system, Lime handling system, Ash handling system, Plant water system, Civil & Structural Work and Balance of Plant Systems of Surat Lignite Power Plant (SLPP) Unit #1 and Unit#2 of Gujarat Industries Power Company Limited (GIPCL).

Surat Lignite Power Plant is situated in Surat district of the state of Gujarat. The total installed capacity of the lignite fired power plant is 500 MW consisting of Four units which comprises of 4X125MW units, out of which Phase-1 2x125MW Unit#1 and Unit#2 are evaluated for R&M and LE under this Report. The units have been operating for about 23 years and about 1,67,000 operating hours. The Units performance has deteriorated gradually over the years due to ageing, fuel (lignite) quality and various technical & operational challenges of CFBC Boilers and associated system. The implementation of Renovation and Modernization (R&M) measures appears to be technically feasible solution to improve Availability, Reliability, Efficiency and Output of the units. Studies of R&M and LE measures implemented in India indicate that these measures can improve generation, increase efficiency and reduce undesirable environment impact substantially. R&M also enables improvement of performance through retrofitting of equipment to deal with technological obsolescence, design deficiencies, generic defects and increase equipment lifetime by 15 years or more. Up gradation of unit, also, enables compliance with increasingly stringent guidelines and statutory standards regarding environment. This Detailed Project Report attempts to indicate the measures, which could address the plant issues for better performance and sustainable operations of units.

SESI has analysed the equipment / system performance and condition assessment based on performance history, maintenance history, residual life assessment and energy audit study report, operating data and design data received from GIPCL.

Based on the site walkdown survey, analysis of input data / drawings / documents and detailed discussion with stakeholders, SESI has prepared the measures of R&M and LE.

The objectives of R&M and LE work of SLPP-I are as below:

a) Overall improvement of Plant availability, reliability and performance of SLPP-I.

b) Improvement of performance and availability by conducting Boiler R&M and LE works which includes boiler pressure parts, non-pressure parts and auxiliaries.

c) Improvement of performance by conducting R&M and LE works of TG island through improvement of turbine cycle heat rate / reduction in specific steam consumption.

d) To take appropriate measures with reference to deteriorated quality lignite as compared to design quality lignite

e) Restoring Boiler steam generation capacity to rated value 390 TPH and Turbine Load 125MW.

f) Overcome the Boiler Draft system limitation and thereby reducing partial loading.

g) Extending Unit life for 15 years of reliable operation.

h) Modernize control system.

i) Improve commercial availability by reducing forced outages and minimizing partial loading

j) Operational Flexibility as per Grid code requirement

k) To optimize the Auxiliary Power Consumption.

Factors Governing Scope

In the present condition, it is not possible to operate these units as per its design parameters at rated capacity without major Renovation and Modernisation Works.

Only proven options for retrofit, which are site-specific to, the requirements of SLPP, are considered.

The optimized scope is governed by the following:

1. Replacement of components, which have exhausted their life.

2. Refurbishment/Retrofitting/Repair of parts, which could be retained service without compromising reliability and safety.

3. Change of components considering design deficiencies and generic issues that are needed to minimize forced outage and reduce partial loading

4. Change of components that are needed to adhere to prescribed environmental standards.

5. Necessary modifications in the system to run the unit at rated capacity with the available low calorific Lignite.

6. Necessary modifications / replacement / refurbishment to resolve load restrictions.

7. Replacement of components for which spare parts will not be available in future.

8. Obsolete technology.

9. Plant and Equipment Safety requirements

The Key Findings are as below:

a) Quality of lignite has got deteriorated with time in terms of lower GCV values, higher moisture content with sulphur and chlorides including deviation on fines recommendation. Due to poor fuel quality, furnace and entire flue gas path are subjected to overloading which in turn resulting higher partial loading, higher degree of erosion of tubes at various locations due to higher velocities and especially at bottom part of water walls i.e. at vicinity of RTZ, FBHEs. Also due to higher fuel loading and higher percentage of fines, unburnt carbon losses are higher. High moisture with sulphur and chloride in fuel has led to severe cold end corrosion of Air Preheater tubes, ESP internals & casing and flue gas duct from APH outlet to Chimney.

Frequent BTL (Boiler Tube leakage) causing forced outage in each Unit occurred mainly in the combustor water walls / FBHE-4 Evaporator/ FBHEs water wall / Sealpot WW / SH1B / Backpass Hanger tubes/ Back pass SCW & its roof & Economizer; mainly due to erosion by ash laden flue gas, overheating, Thermal Fatigue, Corrosion Fatigue, Caustic Gouging, Fire side corrosion-erosion, acid dew point corrosion, High metal temperature excursion during backing down to full load.

The Blockage of flue gas path in backpass section also affecting ID fan loading resulting partial loading and overall performance of units.

Year-wise capital spare cost increasing trend is observed due to aging of the plant and frequent forced outage repair work of various reasons which includes uncertain fuel and load variation / backing down as explained in this report.

b) The present Turbine cycle heat rate deteriorated significantly due to ageing compared to the design heat rate at TMCR condition. Unit1&2 Turbine are not being operating at the rated Load of 125 MW due to boiler limitations and lower steam generation capacity.

c) Auxiliary Power Consumption of SLPP-I is higher due to CFBC Boiler Technology with FBHE. There is need to revisit PPA norm as per current regulatory norm for CFBC Technology Power Plant.

However, SLPP has taken measures through Energy Audit recommendation implementation, some are also considered under R&M activities like equipment performance improvement, arrest leakages, insulation, modification & replacement with efficient pump, etc

d) SO2, NOx and specific water consumption are well within limit as per Latest Emission Norms as notified on 7th December' 2015, However, Suspended Particulate Matter (SPM) is on higher side due to stringent revised norms vs design. Further ESP performance deteriorated due to severe cold end corrosion. ESP field/ structure/ casing repair/ replacement is required based on rate of corrosion. Both Units ESP refurbishment is considered under separate Environment Management Plan to ensure meeting statutory requirement and adhere timeline as specified by MOEF&CC.

e) Lignite and Limestone handling system are maintained and working fine, however major challenge noted as reliability and availability of obsolete technology equipment / spares, refurbishment of machines, revamping of existing conveyor system, Steel & Civil Structures and JNT's, lignite storage shed requirement.

SLPP has two mines, namely Vastan which is approx. 3.5 km away from the plant and other is Mangrol-Valia which is approximately 23 KM away from the plant. The conveying system in Phase-I from Vastan mines designed with 2 nos. conveyors (1W+1S) system. However, only one conveying system and Lignite storage at both mine end and inside plant erected. Lignite from Mines end is transported in Dumper and unloading to either of receiving end of Vastan or near the plant end. Stacker cum Reclaimer (SCR) at Vastan mine has stacking capacity 1200 tph (rated) for reclaiming the capacity is 800 tph (rated). During lignite conveying from the stockpile after reclaiming in either of phases is run approximately for 16 hours to meet the plant requirement. Therefore, upgradation and revamping of conveyor with stone removal/picking facility and SCR is required.

Due to lignite fuel quality deterioration and to mitigate shortfall of lignite, the imported coal blending to improve the desired quality to the extent in line with recommendation of OEM as well as regulatory policy guideline, is implemented at SLPP.

f) Pneumatic conveying system along with PLC for transportation of bed ash from bed ash silo to bed material bunker shall be provided to avoid manual intervention and proper bed material management.

g) Balance of Plant system i.e. Plant Water system, River Water System, Raw Water System, Pre-treatment system, DM Water system, Cooling Water System, Fire Water System, Ventilation and Air Conditioning System, Compressed Air System, Crane and Hoist, Effluent Treatment System are maintained and working fine, however Due to ageing factor as plant is operating since 23 years, condition based refurbishment of these system equipment and piping system are required.

h) The presence of corrosion causing species such as chloride and sulphate were reported in the analysis of the concrete samples collected from the cooling tower and fly ash silos. Severe corrosion on structures were

witnessed especially in Boilers and Lignite Handling System area during walk down survey of the units. The structural items prone to corrosion degradation require individual attention for the selection of appropriate corrosion mitigation measures.

Based on the findings from the assessment of data provided by GIPCL, Detailed Project Report including following option has been finalized.

Boiler & Auxiliaries

Major recommendations include:

1. The replacement of existing eroded water wall tubes of combustor and Pressure Parts Modification works.
2. Redesign and modification of inlet header of FBHE-4 Evaporator Coils for uniform flow distribution (as implemented in Phase-II Boilers)
3. Modification and Replacement of FBHE-4 Evaporator Coils/Risers
4. Modification and Replacement of all FBHEs and Seal Pot water wall tubes
5. Modification / [illegible] circuit for S[illegible] Horizontal lined tubes
6. The Modification and replacement of Super Heater [illegible] gas path in backpass section.
7. Modification and Replacement of Backpass Hanger tubes and Steam Cooled Wall (SCW) tubes
8. Replacement of complete Economizer coils
9. Replacement / retrofitting of valves, safety valves,
10. Replacement / retrofitting of drains and vents, valves and lines alongwith supports
11. The modification in PA windbox and SA nozzles design/orientation.
12. The modification of combustor fluidizing nozzles alongwith grate and refractory
13. Complete replacement of existing cyclones and COD Shells alongwith refractory and modified cyclone vortex finder.
14. Combustor, FBHEs and Seal Pot refractory.
15. The Installation of additional Soot Blower system in backpass section after consultation with OEM and retrofitting of existing Soot Blower System to have more efficient system.
16. The modification of draft system with addition of one ID fan with identical capacity and head of existing two ID fans.
17. The replacement of damaged/corroded internals casing, dampers of ESP
18. Replacement of APH tubes
19. The modification for current flue gas flow and replacement of corroded Flue Gas Duct/ Air Duct / structures and supports.
20. Anticorrosive coating on structures and inside flue gas ducts before and after ESP
21. Replacement of complete insulation.
22. Refurbishment of Hangers and Supports.
23. Complete refurbishment / Replacement of lignite conveyors casing with basalt liner, Rotary Air lock feeders with motors and associated lignite feeding system equipments' and Modification to arrest back flow of Flue Gas from Lignite Rotary Air Lock Feeders (LRALFs).
24. Replacement of PA & SA Fans IGV and Silencer.
25. Replacement of all FBHEs bundle & empty chamber blowers and sealpot blowers with modified design to be incorporated for better performance.

Steam Turbine & Auxiliaries

Major recommendations include:

1. To optimize the R&M and LE cost, refurbishment of existing HP-IP and LP Turbine rotor & blade are considered for life extension, however Performance improvement shall be marginal. Although Replacement of HP-IP & LP Steam Turbine Internals with improved design of Inner casings and Blades (HP/IP/LP outer

casing shall be retained) to improve Specific Steam Consumption and Turbine Heat rate, will support to achieve commercial availability in case of Boiler Capacity degradation due to poor fuel quality limitation.
2. Refurbishment of Turbine Stop and Control valves and Replacement of EHTC Actuators. However, for performance & availability guarantee, steam cycle exposed components are to be checked through RLA, and Bidder shall ensure all component's healthiness.
3. Replacement of Boiler feed pump impeller to reduce auxiliary power consumption and to meet expected life.
4. Replacement of Critical piping insulation to improve turbine heat rate.
5. Replacement of SWAS instrument for better water chemistry control to improve reliability and availability of boiler and turbine.

Balance of Plant

Major recommendations include:

1. Installation of interconnection conveyor and feeding system to connect to Phase-I at JT-13 with expectation of significant benefit in increasing of the boiler efficiency by improvising the fluidization and combustion process, reduction of auxiliary power consumption, reduction in existing high O&M cost as optimized length as compared to present path of BCN-M1A, and New slow speed conveyor feeding system with higher belt width will improve stones removal rate, and in-turn improve system reliability and availability.
2. Replacement of Secondary crushers (Hammer Mills) for the plant life extension
3. Refurbishment of the machines(stackers).
4. Refurbishment of the structures
5. Replacement of Instrument Air and Service Air compressors
6. Replacement of underground piping from raw water pump header to the stilling chamber.
7. LP piping system refurbishment based on condition assessment
8. Replacement of mechanical parts and scrapper mechanism of clarifier
9. DM generation plant is in a depleted state and its replacement with new RO-DM plant is considered.
10. Corrocoat coating on CW pump to improve efficiency, reduce APC and increase life of pumps.
11. Complete refurbishment of cooling tower
12. Fire system renovation
13. Chlorination system replacement
14. Replacement of Air Washer Units, damaged AC ducting and insulation, air conditioners
15. Any short comings in BOP areas are to be upgraded / replaced.

ELECTRICAL

Major recommendations include:

1. Retrofitting of obsolete analogue Generator AVR of U#1 & 2 with DAVR.
2. U#1 brushless excitation system required to be replaced with new modified design.
3. Replace GT-1 with new Generator Transformer as tan delta values are in increasing order
4. One new 2 MVA service transformer shall be procured for LLHS area against failed transformer.
5. Retrofitting of obsolete HA2 type 6.6KB ABB SF6 breaker with New VCB in 6.6KV Unit and Station Board of Unit#1.
6. Retrofitting of obsolete Siemens/GEC 415 V LT Breakers with New ACBs.
7. ID Fan motor of higher rating with F/H class insulation shall be procured for both units (existing ID Fan motor-725KW
8. 1 No. 1250 KW SA Fan motor shall be procured as repaired motors are in operation
9. 1 No. 1125 KW PA Fan motor shall be procured as repaired motors are in operation
10. Procurement of 1 no conveyor 6A/6B motor (300KW) as repaired motors are in operation
11. retrofitting of AMF Panels required for existing 2 nos. 750KVA DG set

12. Obsolete Existing AFCO make Chargers in BTG area and LLHS area shall be replaced with modern Float cum Boost Charger- 11 Nos.
13. Life cycle replacement of Lead Acid Plante YKP-17 Battery set in LLHS area.
14. Upgradation of Siemens make HIPATH 4000V3 model with new EPABX system

CONTROL AND INSTRUMENTATION

Major recommendations include:

1. Up-gradation of Siemens "Teleperm ME" system with new latest DCS software and Hardware for Boiler and BOP operation and control.
2. Up-gradation of BHEL "MAX DNA" HMI software with new latest HMI Software/Hardware workstations for Turbine controls and protection.
3. Upgradation of PLCs as per requirement
4. Replacement / refurbishments of Field Instruments as required
5. Analyzers (SWAS, CEMS etc.) replacement as required

FGD

The Installation of FGD not required as Surat Lignite Power Plant (SLPP) is operating environment friendly CFBC (Circulating Fluidized Bed Combustion) technology based Boilers. SO2 emission is effectively controlled by addition of Limestone as an additive with Lignite feeding in Boilers. Due to capturing of Sulphur in the combustor during combustion process in CFBC Boilers, SO2 emission remains well within limit of 600 mg/Nm3. SO2 emission of SLPP units are in the range of 100-280 mg/NM3 on monthly average basis.

SCR

The Installation of SNCR / SCR is not required as Surat Lignite Power Plant (SLPP) is operating environment friendly CFBC (Circulating Fluidized Bed Combustion) technology based Boilers. Due to low combustion temperature (around 800 - 850 deg. C) and stage combustion in CFBC Boiler, NOx emission level remains well below prescribed value i.e. 600 mg/NM3. NOx emission of SLPP units are in the range of 25-75 mg/NM3 on monthly average basis.

ESP

ESPs were designed for 150 mg/NM3 SPM for SLPP-I in-line with earlier norms during project implementation phase whereas latest environment norms prescribed limit is 100 mg/NM3 SPM for SLPP-I. To comply with the latest norms laid down by the MOEF&CC / Pollution Control Board, retrofitting/refurbishment/replacement and upgradation of ESP is being carried out to maintain the SPM below the prescribed limits and also to ensure healthiness of ESP fields.

At SLPP, the ESP internals and casing were badly corroded due to the presence of chlorine and sulfur in the lignite. Heavy air ingress through these casing leakages and subsequent corrosion of the internals (i.e. Collecting Electrodes, Emitting Electrodes, frame etc.) aggravated the deterioration of the ESP fields. Also, air ingresses through corroded casing ultimately resulted in reduction in power generation due to overloading of ID fans. Further, ESP works in hostile atmosphere which is highly corrosive due to presence of Sulphur and chloride in the lignite. The damage mechanism is a continuous process at SLPP and every year It has refurbished six to eight field as per condition assessment, damage projection and convenience. Online monitoring is being carried out by CPCB/GPCB of the emission levels and corrective action also initiated in-line with communication from the Pollution Control authorities and to adhere timeline of MOEF&CC.

The major ESP fields have been refurbished/upgraded. Further, retrofitting/refurbishment/replacement and upgradation of existing ESPs are scheduled during annual overhaul to fulfill compliance of New Environmental norms with a target to complete by December, 2024.

Flexible Operation

SLPP-I is designed and engineered as base load plant. Considering the design & engineering and technological & operational issues and limitations of CFBC boilers at SLPP and adverse impact of operational deviations observed in the Units due to flexible operation, GIPCL and NLC made detailed presentation on 16.02.2023 to CEA officials highlighting the issues related flexible operation and backing down (low load operation) of lignite fired CFBC Boilers.

GIPCL has submitted requests CEA vide letter no. SLPP/CEA/2023-24/248 Dated 15.05.2023 and SLPP/CEA/2023-24/1797 Dated 17.06.2023 to consider and recommend that "flexible operation of lignite fired CFBC power plant should be avoided as long as possible and in unavoidable situation due to grid requirement they may be allowed to be operated at 80% technical minimum load for safe and smooth operation of CFBC Boilers. This would ensure optimum availability & reliability of lignite fired CFBC Thermal Power Plants and maximize competitive power to the grid from an environment source for the public at large".

The Unit design ramp rate of SLPP units is 1% due to Boiler design limitation for temperature excursion and thermal expansion. Considering Technological & operational challenges and Limitations of CFBC boilers with low grade lignite firing, GIPCL has submitted requests to CEA vide letter no. SLPP/CEA/2023-24/2789 dated 17.10.2023 to consider 80% technical minimum load with ramp rate of 1 MW/Min for safe and smooth operation of CFBC Boilers. GIPCL has again submitted requested to CEA vide letter no. SLPP/CEA/2023-24/3083 dated 05.12.2023 and represented the matter during the meeting held on 11.01.2024 at CEA Delhi. Matter is under discussion with BHEL (OEM) and CEA.

Biomass pellets co- firing capability as per prevailing policy/regulation

Burning biomass-lignite mixtures containing Sulphur & Chloride content might negatively influence the ash deposition behavior, and alleviate slagging, fouling and chlorine corrosion problems which are already persisting in SLPP-I CFBC boiler flue gas path due to firing of poor quality lignite compared to design quality lignite. Further the detrimental effects of alkali (present in the biomass) on the refractory, and the operational risks which include fuel pre-processing / fire explosion risk, excessive bed agglomeration, slagging and back pass chocking, may further increase. Frequency of Soot blowing and additional LRSB already recommended under this R&M. Therefore, in view of above constraints i.e. adverse impact of operational deviations, and SLPP has taken measures in-line with communication from the Pollution Control authorities for air pollution control within statutory limits, this report does not include facilities for biomass co-firing as well as biomass storage and handling with associated safety system under this R&M and LE project.

It is to note that Ministry of Power vide letter no.11/86/2017-Th.II dated 07.04.2022 has clarified that the "Revised policy for Biomass Utilization for power generation through Co-firing in coal based power plant " dated 08.10.2021 is also applicable to Circulating Fluidized Bed Combustion (CFBC) Boilers. The Ministry of Power issued modification on 16.06.2023 to revise the biomass policy dated 08.10.2021 and biomass co-firing in coal fired Thermal Power Plants (TPPs) obligation shall increase to 7% from FY 2025-26. Standard Operating Procedure for Biomass Pellet co-firing in CFBC Boilers dated June2022 shall be followed. Accordingly, co-firing technology of torrefied biomass pellets and Briquetted Biomass as partial substitute of Coal to meet the National Mission on use of Biomass in Coal fired CFBC boiler, shall be consulted with OEM to take up R&D activity in existing boiler design to handle the higher amount of alkalis in the biomass pellets.

Considering the issues and GIPCL may get the consultation of lignite fired CFBC boilers OEM regarding co-firing proportion before the start of the biomass pellets/briquettes co-firing and understand the impact on the combustion based on the ultimate analysis.

Commercial Availability	62.13%	75% (normative commercial availability)
Reliability	Very High BTL (about twice in every quarter)	BTL issues addressed to reduce forced outage.
Plant Life Extension	Through capital overhaul 30 Years till year 2030	Through R&M and LE activity 40 Years till year 2040
Environment	ESP refurbishment/upgradation work is in progress under Environment management plan to meet new stringent environment norms. SOx, NOx, water consumption are in limit.	Considering the advantage of environment friendly CFBC technology and Environment Management Plan, SLPP Unit are meeting the New Environmental norms. Further, Both Units ESP refurbishment based on rate of corrosion need to be done.
Flexibility with prevalent grid norms	Plant Operation following SLDC demand for backing down / loading.	Flexing Lignite-fired SLPP-I is not recommended cconsidering Technological & operational challenges and Limitations of CFBC boilers with low grade lignite firing. However, matter is under discussion with M/s BHEL(OEM) and CEA.
Biomass pellets co- firing	Not envisaged due adverse impact of operational deviations	Not envisaged due adverse impact of operational deviations

The economic figures in this report are indicative number which is calculated in accordance with indicative offers from OEM and database of other projects. Implementation of the project is in line with the Government's R&M guideline and policy for increased generation and improved performance from existing stations with environmental protection. The minimum overall downtime of the unit would be around 13 to 15 weeks to full fill the objective of R&M.

This Report justifies R&M and LE Project against the capital cost based on cost benefit analysis, project timeline and operating cost of Greenfield plant of similar configuration and equivalent capacity while also satisfying different constraints / challenges in the system such as technical operational constraint, Technologies/Fuel options available, environmental & statutory compliances, standard / innovative bidding process, financial constraint and viable business model.

3.0 SLPP-I SALIENT FEATURES

3.1 SLPP-I DESCRIPTION

GIPCL-SLPP Unit#1 & #2 of each 125 MW CFBC units has CFBC technology utilizes the fluidized bed principle in which crushed lignite of around 10 mm size along with limestone (Powder) as sorbent are injected into the combustor. The particles are suspended in a stream of upwardly flowing air, which enters the bottom of the furnace through air distribution nozzles. The fluidizing velocity in circulating bed ranges from 4-7 m/s. The balance of combustion air is admitted above the bottom of furnace as secondary air. The firing temperature in combustor is maintained at around 850°C. Low combustion temperatures keep the thermally generated NOx under control while the SOx emissions are controlled by adding limestone. Limestone helps in retaining the sulphur present in fuel in form of calcium sulphate which is removed in solid form along with ash. CFBC boilers can burn wide variety of fuels having low quality, high ash & moisture content and low calorific value. The CFBC boilers are equipped only with ESP to meet the existing environmental norms. Unit #1 & #2 flue gas is evacuated through dedicated chimney. SLPP-I comprised of Unit #1 and Unit #2, of 125MW capacity each are commissioned in Jan 2000 and Nov 1999 respectively.

SLPP-I Capacity	250 MW
Fuel	Lignite Coal
Fuel Source	Lignite as fuel from captive mine of Vastan and Mangrol-Valia according to fuel supply agreement.
Raw Water Source	River Tapi at Patana through 914 mm OD & 18 km long Mild Steel Spirally Welded pipe line.
Plant Configuration	2X125 MW with Circulating Fluidized Bed Combustion (CFBC) Boilers and STGs
Commissioned In	Unit#2 in November, 1999 Unit#1 in January, 2000
COD Date	15 Feb 2000
Main Plant Package	M/s BHEL (CFBC Boiler Lurgi-Lentezes-Babcock Design, Turbine and Auxiliaries)
Status	Independent Power Producer (IPP) - Supplies power to GUVNL through Power Purchase Agreement
Units in Operation	More than 23 Years (>167000 Hours)
Location	Village Nani Naroli, Mangrol Taluka, Surat -394110, Gujarat, India
Latitude / Longitude	24 ° 12' (North) / 82° 49' (East)
Plant Area	85 Hectare
Ash Dyke Area	55 Hectare
Nearest Railway Station & National Highway	SLPP is situated about 58Km away from Surat Railway Station and nearest National Highway is NH8.
Lignite Transport & Storage	The Lignite excavated in the Mine and Transport by the Dumpers to a point about 1.0Km south-east of the Mine Exit. The Lignite is taken over by a conveyor system and transport about 3.5KM to the power plant. The system consists of a stockyard at the mine end with a stacker/reclaimer, a conveyor system with 1200 TPH capacity, and two stockyards in the power plant. Total Storage capacity is 150000 Tonnes.
Limestone Source	Limestone is available in geological pockets in the south of the deposit within SLPP lease area as part of overburden. limestone deposit is about 5.0 Million Tonnes.

3.2 TECHNICAL (DESIGN) INFORMATION

Site Conditions

Ambient temperature	Maximum 45.6 °C
	Minimum 4.4 °C
	For performance guarantee 37.3 °C
	For design of electrical system 50 °C
Relative humidity	Maximum 87 %
	For performance guarantee 71 %
Altitude	43.3m above MSL
Basic Wind speed	44 m/sec
Prevailing wind direction	North – North East and south West
Annual Rain Fall	1203.5 mm (R Mean)

Fuel/Lignite Proximate Analysis		As Received Basis	
		Design/Guarantee	Fuel Range Value
Moisture	%	24	10 to 35
Ash	%	19.02	7 to 48
Sulphur	%	1.2	0.36 to 2.5
Fixed Carbon	%	24.46	14 to 40
Volatile matter	%	32.52	25 to 44
Gross Calorific value	Kcal/kg	4240	2500 to 5500
Hardgroove gridability index			90 to 110

Lignite Ash Analysis	Value Range
Silica	10.27 - 49.96 %
Alumina	9.42 - 30.60 %
Iron Oxide	5.36 - 20.90 %
Titanium Oxide	0.64 - 03.15 %
Calcium Oxide	5.83 - 26.75 %
Magnesium Oxide	0.60 - 02.50 %
Sulphuric Anhydride	1.89 - 24.02 %
Alkalis as Na2 + K2O	0.50 - 02.40 %

Limestone Analysis	Value
CaCO3	85.21%
MgCO3	1.18%
SiO2	<8.65%
MexOy	7.89%
H2O	<2.06%

steag
energy services

Parameter	Design Values
Installed capacity	2 x 125 MW
Technical Minimum Load	TML 56% declared to SLDC
Ramp Rate	1MW/min.
Auxiliary Power	10%
Main Plant Details	
Steam Turbine Make & Type	BHEL, KWU Design, Two Cylinder reheat condensing turbine.
No. of Units	2
Turbine Nominal Rating (TMCR)	125 MW
Unit Peak Load Rating	125 MW
Electric Generator Rating	147.06 MVA
Rated Speed	3000 RPM
Steam pressure at Turbine Inlet	126 Kg/cm2(a)
Steam temperature at Turbine Inlet	535±5 °C
Reheat Steam Pressure at Turbine Inlet	30.97 Kg/cm2(a)
Reheat steam inlet temperature at Turbine Inlet	535 °C
Number of Extraction/Bleeds	6
Turbine Exhaust / condenser Vacuum	0.087 Kg/cm2 (a)
Surface Condenser Tube Nos / Condensing zone MOC	14304 nos / Cu-Ni 90/10
Cooling water flow / velocity	14800 m3/h / 1.94 m/s
Surface Condenser Cooling Water Inlet / Outlet temperature	31°C / 41°C
LP Heater Type / Nos per Unit	U-Tube Type, (3 No. per unit)
HP Heater Type / Nos per Unit	U-Tube Type, (2 no. per unit)
Deaerator Type / Nos per Unit	Spray-cum-Tray Type / 1 per Unit
Boiler Feed Pump	2 x 235 m3/h
Condensate Extraction Pump	2 x 382 m3/h
Vacuum Pump	Siemens Make, 2 nos
Boiler Make & type	BHEL, CFBC (LLB Design)
No. of Units	2
Boiler Capacity (BMCR) at SH outlet	390 TPH
Steam pressure at SH outlet	132 Kg/cm2(a)
Steam temperature at SH / RH outlet	540±5 °C
Steam Pressure at RH outlet	33.5 Kg/cm2(a)
Lignite consumption	72 TPH
Lime Consumption	6.9 TPH
Flue Gas APH exit Temperature (corrected)	140 °C
Flue Gas APH exit Pressure	988 mbar (a)
Flue Gas APH exit Flowrate	438840 Nm3/h
NOx Emission rate (dry 6% O2)	150 ppm

Sulphur Capture Efficiency (% S of Fuel)	>90 %
Electrostatic Precipitator (design)	
ESP Type	FAA-6x45(45)-126135-2
ESP Maximum Inlet Flue Gas Flow rate	216 m3/sec
ESP Inlet Flue Gas temperature	145 C
Inlet dust concentration	111.6 gm/Nm3
Outlet dust concentration with n-1 fields	150 mg/Nm3
Boiler Auxiliaries	
Bed Ash Silo	2 x 450 MT (7 Hrs at MCR)
Bed Ash Silo Beg Filter Outlet Emission	50 mg/Nm3
Bed Ash Handling system	80 TPH Bed Ash conveying capacity
Fly Ash Silo	2 x 650 MT (7 Hrs at MCR)
Fly Ash Handling system	160 TPH FA conveying capacity
Ash water recovery system	550 m3/h capacity
Primary Air Fan (Service/Standby)	2 x 60% (Each 33.18 m3/s)
Secondary Air Fan (Service/Standby)	2 x 60% (Each 41.11 m3/s)
ID Fan capacity (Design)	2 x 60% (Each 122.56 m3/s)
Chimney Type	R, C, Multiflue
Chimney Height	122m
BOP	
Raw Water Pond storage capacity	2 x 40000 m3
RW Clarifier Storage	6125 m^3
DM water Generation nominal rate	2 stream of 27 m3/h
CCW Pump	(2W+1S) x 1150 m3/h
Cooling Tower Make, Flow, HWT/CWT	Paharpur, 19965 m3/h, 42°C/32°C
CW Pump	(2W+1S) x 9500 m3/h, Standby pump common of both unit
ACW Pump	(2W+1S) x 950 m3/h
Limestone milling type, capacity	Ball Mill, 35tph
Limestone milling Feed size, Product Size	25mm, <1mm
Lime Stone Hot Air Generator Capacity, Efficiency	3.85Mkcal/h, 97%
Limestone powder conveying system	45 tph per stream
Lignite Stacker/reclaimer capacity	1200 tph / 800 tph
Lignite Primary Crusher type, capacity, Feed size, Product Size	Spiked Double Roll, 1200tph, -300mm, -50mm
Lignite Secondary Crusher type, capacity, Feed size, Product Size	Hammer Mill, 600tph, 50mm, -15mm
Lignite Conveyor System Make	Thysen Krup / Elecon

Copper carryover from Surface Condenser to Boiler feed water system through condensate system:

Copper (Cu) Analysis Report			Cu in PPB (Hach Process)	
Date	Shift	Sample ID	Unit-1	Unit-2
27-09-2023	C	BFW	9	16
28-09-2023	B	BFW	6	17
	C	BFW	14	25
29-09-2023	A	BFW	10	18
	B	BFW	13	29
	C	BFW	15	24
30-09-023	A	BFW	15	25
	B	BFW	4	20
	C	BFW	8	16
01-10-2023	A	BFW	1	23
	B	BFW	7	28
	C	BFW	7	25
02-10-2023	A	BFW	NIL	21
	B	BFW	3	26
	C	BFW	3	25
03-10-2023	A	BFW	1	24
	B	BFW	14	25
	C	BFW	9	26

7.8 ENVIRONMENT EMISSION

Ministry of Environment, Forests and Climate Change (MoEF&CC), Govt. of India vide a notification in December 2015 amended the Environment (Protection) Rules, 1986 and introduced stringent limits for SOx, NOx and PM (Particulate Matter) emissions from the Thermal Power Plants based on age of the Power Plant. As per Gazette Notification No. S.O. 3305 (E) dated 7th December' 2015, Power Plant shall comply the limits within two years from date of publication of said notification. Later on, as per CPCB letter dated 11.12.2017 regarding compliance of new environmental norms, timeline prescribed for compliance for SLPP units was 31.12.2020. Further, as per latest Gazette notification G.S.R. 243 (E) dated 31.03.2021, timeline prescribed for compliance of revised environmental norms for non-retiring units applicable to SLPP units is 31.12.2024. There is also provision of penalty under Environmental Compensation Mechanism proposed in the MOEF&CC, GOI Notification dated 05.09.2022 for non-compliance units, the penalty is substantial compared to the compliance cost.

SLPP Units are equipped with Circulating Fluidized Bed Combustion technology-based boilers. Therefore, the SLPP Units are already complying the revised limits for SOx and NOx emissions and do not require any major upgrade/ modification in this regard. Limestone addition in Boiler lowers the SOx emissions and the staged combustion as well as low combustion temperature, limits the NOx emissions. Minor upgrade of Limestone feeding system and provision of limestone storage shed is proposed to meet the revised SOx limit.

The only area of concern is compliance of the revised Suspended Particulate Matter (SPM) emission limits. It is possible to comply with the revised limits by the upgrade/retrofitting of existing Electrostatic Precipitators (ESPs) of all the Boilers.

Online monitoring is being carried out by Central Pollution Control Board / Gujarat Pollution Control Board (CPCB/GPCB) of the emission levels of SPM along with SO2 / NOx (Sulfur dioxide / Nitrogen oxides) in the flue gas and on violation of prescribed norms, a communication to take corrective action also initiated from the Pollution Control authorities.

Table 7.8 Emission Performance Details

Emission Parameter	Latest Emission Norms as notified on 7th December' 2015	Measured at SLPP Unit#1		Measured at SLPP Unit#2		Current Status and Remark
	TPPs (units installed before 31st December' 2003	Month Avg of March 2023	Yearly Avg of 2022-2023	Month Avg of March 2023	Yearly Avg of 2022-2023	
Particulate Matter	100 mg/Nm^3	102 mg/Nm3	122 mg/Nm3	43 mg/Nm3	56 mg/Nm3	Modification not required but Upgradation/ Refurbishment of existing ESP urgently required to fully Comply with the new environmental norms. Note1, 2 & 3.
Sulphur Dioxide (SO2)	600 mg/Nm^3 for units less than 500MW capacity	69 mg/Nm3	100 mg/Nm3	256 mg/Nm3	280 mg/Nm3	Complying with the new environmental norms. Note 4.
Oxides of Nitrogen (NOx)	600 mg/Nm^3	13 mg/Nm3	25 mg/Nm3	43 mg/Nm3	75 mg/Nm3	Complying with the new environmental norms. Note 5
Mercury (Hg)	0.03 mg/Nm^3					Not measured
Specific water consumption limit	maximum 3.5 m^3/MWh	Specific water consumption of the plant is well below the specified limit of 3.5 m^3/ MWh by MOEF&CC .				Complying with the new environmental norms.

Note:

1. At GIPCL-Surat Lignite Power Plant (SLPP), during Project stage, SLPP Phase-I (Unit-1 & 2) ESPs designed for SPM- 150 mg / Nm3 in-line with earlier norms. As per new environment norms prescribed limit for SPM is 100 mg / Nm3 for SLPP Phase-I (Unit-1 & Unit-2). Hence, to meet revised emission norms, as of now, major ESP fields have been refurbished/upgraded in phased manner since F.Y. 2016-17. Further, upgradation/retrofitting of existing ESPs and revival of dummy ESP fields are planned during the scheduled outages or annual overhaul to fulfill compliance of New Environmental norms with a target

to complete by 31st December, 2024. As per MOEF&CC notification dated 31st March'2021, timeline for compliance of SPM norms by GIPCL-SLPP Units will be up to 31st December, 2024.

2. In FY2022-23 SPM at Unit#1 yearly average 122 mg / Nm3 and maximum 185 mg / Nm3, while Unit#2 yearly average 56 mg / Nm3 and maximum 101 mg / Nm3 recorded. To comply with the norms laid down by the MOEF&CC / Pollution Control Board, it is necessary to maintain the SPM below the prescribed limits. Hence, it is imperative to ensure healthiness of ESP fields.

3. The fuel requirement of SLPP Units is mainly met by the own Captive Lignite Mines. The captive mined Lignite has high Moisture, Sulphur and Chloride content leading to higher corrosion in Boiler area including ESP. At SLPP, Corrosion analysis study has been done by CSIR-CECRI Tamilnadu. The SLPP ESPs internals and casing were badly corroded due to the presence of chlorine and sulfur in the lignite. Heavy air ingress through these casing leakages and subsequent erosion of the internals (i.e. Collecting Electrodes, Emitting Electrodes, frame etc.) aggravated the deterioration of the ESP fields. Also, air ingresses through corroded casing ultimately resulted in reduction in power generation due to overloading of ID fans. Further, ESP works in hostile atmosphere which is highly corrosive due to presence of Sulphur and chlorine in the lignite. The damage mechanism is a continuous process at SLPP and every year SLPP have to refurbish six to eight field as per condition assessment, damage projection and convenience. At present, SPM emission from these Units remain below/ near to the new emission limit as per Revised Environmental Norms except some incidences of exceedance. However, based on condition, ESP field/ structure/ casing repair/ replacement is required based on rate of corrosion.

4. FGD not applicable at SLPP-I. Surat Lignite Power Plant (SLPP) is operating environment friendly CFBC (Circulating Fluidized Bed Combustion) technology-based Boilers. SO2 emission is effectively controlled by addition of Limestone as an additive with Lignite and SO2 emission remains well within limit of 600 mg/Nm3 and complying with the new environmental norms.

5. NOx control technology not required as CFBC technology adopted by SLPP-I plant. Surat Lignite Power Plant (SLPP) is operating environment friendly CFBC (Circulating Fluidized Bed Combustion) technology-based Boilers. NOx emission remains very low (well below 450 mg/Nm3) due to low combustion temperature (around 800 - 850 deg. C) and stage combustion in Boiler.

7.9 UNITWISE MONTHLY PERFORMANCE INDICATORS

Table 7.9.1: SLPP Unitwise Monthly Performance Indicators

SLPP-I Units #1 & #2		Unit#1 (125 MW)			Unit#2 (125 MW)		
Date	Rated/ As per PPA	Jan-23	Feb-23	Mar-23	Jan-23	Feb-23	Mar-23
Generation (MU)	1642.5	75.865	71.688	59.08	61.536	58.798	68.985
Monthly PLF (%)	75	81.58	85.34	63.53	66.17	70.00	74.18
Unit Gross Heat Rate (Kcal/KWh)	2640 (With 50% Moisture in Lignite)	2839	2829	2832	2848	2839	2841

In year 2021, Unit#2 APH SA Intermediate block tubes (total 4329 nos.) and APH PA top block tubes (total 3219 nos.) were replaced. And in year 2022, Unit#1 APH SA Intermediate block tube (total-4329 Nos.) and APH PA intermediate block tube (total-3219 Nos.) were replaced. FBHE-4 module in APH bypassed by installing pipe in blower air inlet and outlet line.

Although major tube bundles were replaced earlier in both unit, however Upgradation of APH PA /SA Bottom bank tubes with cor-ten steel material is suggested as cor-ten steel is a sulphuric acid and hydrochloric acid dew-point corrosion-resistant steel.

Based on SLPP O&M team feedback, some of tube banks in FBHE section bypassed due to low FBHE fluidizing air flow of SLPP Phase-1 Units. Revival of APH FBHE block of both Unit, replacement of Unit#1 APH tubes in PA/SA Top, replacement of Unit#2 PA Intermediate & SA Top banks, and APH tubes sheet replacement also to be consider in R&M.

Corrected flue gas temperature at APH outlet is in the range of 175°C to 210°C depending on the magnitude of air leakage in each units is major source of boiler efficiency loss.

It is also observed that APH section and flue gas downstream is suffering from low temperature acid corrosion. Due to presence of very high moisture and Sulphur content in the fuel, acid dew point temperature of exit flue gas is on higher side. Hence, acid formation and condensation occurs at higher exit flue gas temperature.

It is recommended to inspect TAPH, flue gas duct and ESP section by removing the insulation to pin point exact source of air in-leakage and arrest air ingress to improve heat transfer in TAPH and reduce the ID fan loading. ESP roof and Ash hopper, Expansion bellow, manhole are most susceptible areas of air ingress. The air ingress not only reduces heat transferred, but also increases load on ID fan. Therefore, arresting air ingress occurring in Air-pre Heater and in ESP will reduce the ID fan loading.

9.1.2.11 ESP (Electro Static Precipitator)

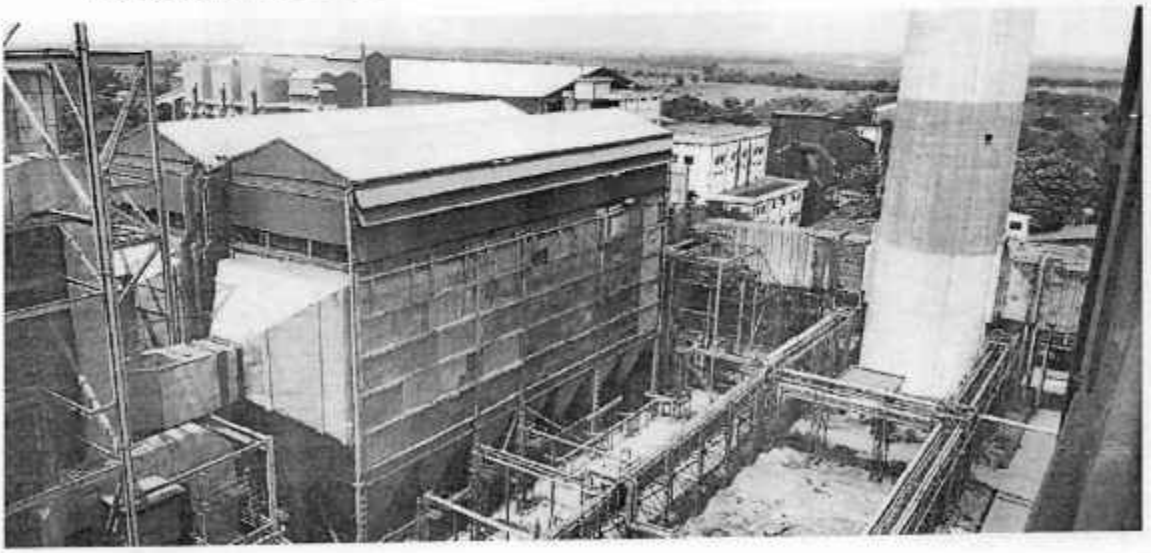
For the Thermal Power Plants commissioned before December, 2003, the revised SPM emission limit is 100 mg/Nm3. SLPP-I was commissioned in Feb. 2000 and its designed SPM emission limit is 150 mg/Nm3. Therefore, Retrofitting of the existing ESP fields, Revival of 4 nos. Dummy ESP fields (2 nos. in each Unit), Revamping of the ESP Casing and Ducts, were performed to lower the SPM emissions, accordingly major ESP fields have been refurbished/upgraded and 50% dummy ESP fields have been revived, and further upgradation/Retrofitting of existing ESPs are planned during the scheduled outages or annual overhaul to fulfill compliance of New Environmental norms with a target to complete by December, 2024.

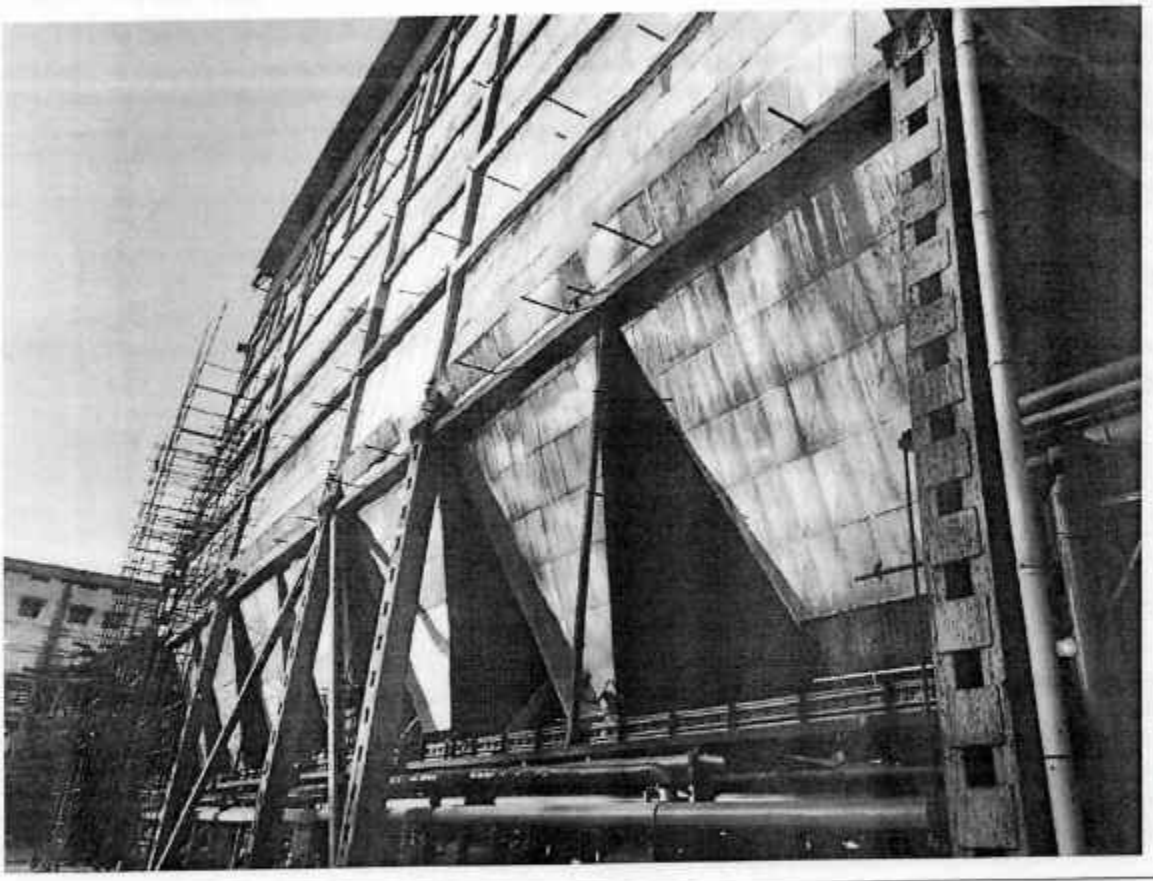
A. ESP is of 2 pass type with six (6) fields and capable to handle 216 m^3/s flue gas at a temperature of 145 deg.C and inlet dust load of 111.6 g/Nm^3. With this desired outlet dust concentration is 150 mg/Nm^3. As noted, presently at 117~118 MW load (DCS parameter Unit#1, as per details collected on 04 Apr 2023), gas flow rate at ESP outlet is about 251.54 m^3/s at a temperature of 197 deg.C and inlet dust load is around 16.2 g/Nm^3 (Calculated). Inlet dust load is reduced to 1/6th of its original value. With this inlet dust load, ash concentration in the exit gas from ESP shall be around 50 mg/Nm^3 which is well within latest statutory limit <100 mg/Nm3. Accordingly, no modification is anticipated in ESP other than casing, inlet and outlet gates and expansion joints.

   However as per the measurement of SPM in FY2022-23, SPM at Unit#1 yearly average 122 mg / Nm3 and maximum 185 mg / Nm3, while Unit#2 yearly average 56 mg / Nm3 and maximum 101 mg / Nm3 recorded. Therefore, Refurbishment of existing ESP fields' internals & dummy fields revival along with 3 phase transformer and restoration/ strengthening of ESP related structure/ casing considered under R&M activity.

As per the measurement of SOX, NOX, CO emissions, the latest environmental norm are met with existing system, therefore additional Flue gas cleaning equipment are not envisaged during R&M.

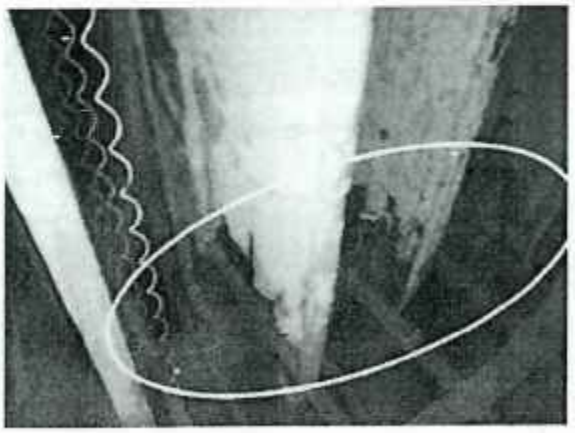
B. Corrosion of ESP casing, hoppers and flue gas duct from APH to Chimney inlet has been repaired (plate patch-up work) during AOH of Unit#2 in year 2021 and Unit#1 in year 2022, however damages due to corrosion are continued and can be seen in below picture of Unit#1 on 17.04.2023.





During AOH of Unit#2 in year 2021 and Unit#1 in year 2022, ESP internals corroded parts like Collecting Electrode, Emitting Electrode & accessories of Field no. 3, 4 & 6 of Unit#2 and field 3 & 5 of Unit#1 were replaced.





Corrosion analysis study has been done by CSIR-CECRI, Tamilnadu. Due to Sulfur and chlorides in Lignite with high moisture causes aggravate corrosion, over a period of time ESP casing/hoppers, internals and flue gas ducts are damaged and causes ingress of atmospheric air in to system which increases the ID Fan loading and restrict the boiler loading, and damage of ESP internal & deflector plate causing impact on ESP efficiency. All of the rapping mechanism shaft with motor are to be inspected for rusting and jam condition. ESP inlet duct diverting plate replacement, ESP Pass-A & B all fields internal & hopper inspection/repair rectification work, air ingress point casing and duct replacement, Guillotine gate servicing to be carried out.
However, based on condition, ESP field/ structure/ casing repair/ replacement would be required after one-time replacement based on rate of corrosion.

9.1.2.12 Draft Fan & Blowers

1) Capacity and present performance of various draft fans such as SA, PA and ID are studied, and details can be referred from Table below:

Sl. No.	Draft Fan	Unit	Data at 125 MW		Remarks
			Design	Operating	Operating data is extrapolated from 115MW operation data.
1	PA Fan				
i)	Av. PA flow rate per fan	kg/s	36.50	30.52	
		Nm^3/s	33.18	24.08	
ii)	PA fan discharge temp.	°C	61	64.44	
iii)	PA pressure	mmWC	2708	2423	
iv)	Av. IGV opening	%	-	84.73	
v)	Av. current consumption	amp	-	92.54	
vi)	Power consumption	kW	-	899.17	Margin available > 20%.
vii)	PA fan Motor rating	kW	1120	1120	

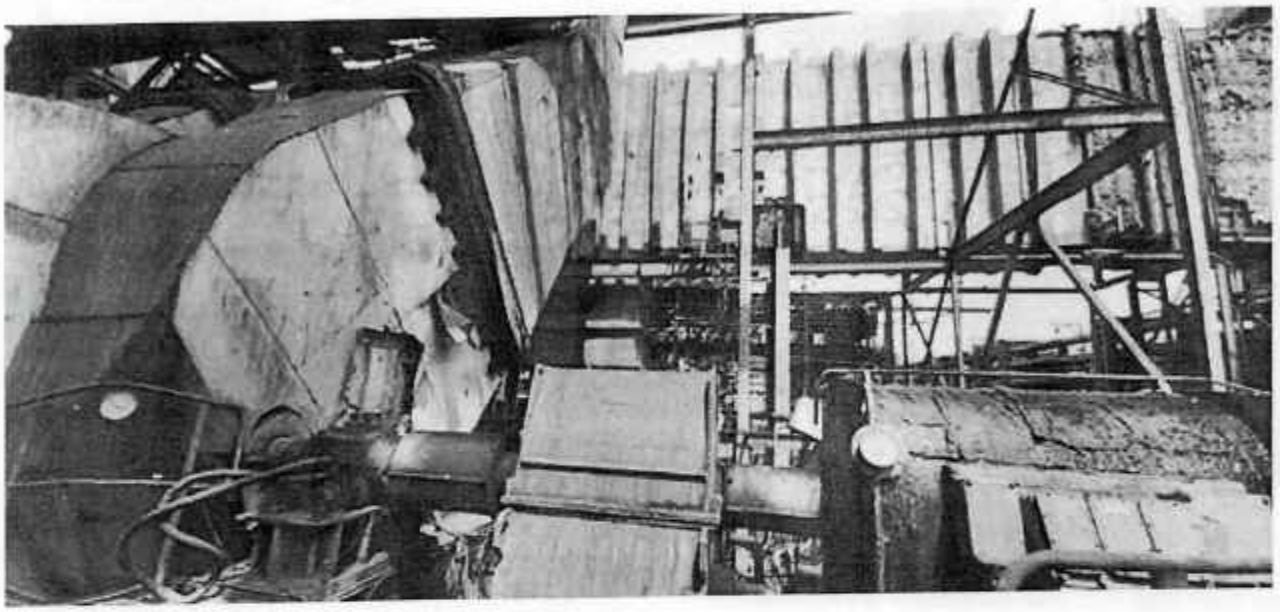
consumption (810KW, Motor are overloaded against rated value 725KW, motor winding temporary external additional cooling arrangement done but not sufficient).

ID Fan Performance Evaluation as per SLPP Energy Audit Report of May 2022								
Unit No.	ID Fan	Flow m3/sec	Suction Head mmwc	KW	Current Amp	Disc. Pressure mmwc	Total Head mmwc	Fan Mechanical Efficiency (%)
Unit#1	1A	147.86	-218.00	809.80	86.25	8.00	226.00	43
Unit#1	1B	151.04	-224.00	784.43	83.45	9.00	233.00	47
Unit#2	2A	142.27	-214.00	795.41	84.69	7.00	221.00	41
Unit#2	2B	142.73	-226.00	777.11	83.24	6.00	232.00	44

As per above data, ID fan are loaded about 125% than its design capacity. Higher ID fan scoop position and full loading at part plant load also confirm the heavy air ingress in FG path and poor fuel quality.

It is suggested to enhance capacity of existing ID fans systems by adding one more ID fan of identical capacity, as explained above. Corrective action on air ingress in the system is also to be considered simultaneously to improve efficiency of system.

It is to note that existing ID fan motor need to replace and fan lube oil system, bearing and impeller need to replace due to aged and application in high corrosive condition hence to improve system reliability & availability, to avoid boiler partial loading on ID fan, reduce Auxiliary power consumption & life extension and based on techno-economic advantage, new ID fan set is suggested with the sizing for the actual fuel firing conditions. The bearing cooling water line needs to be completely replaced.



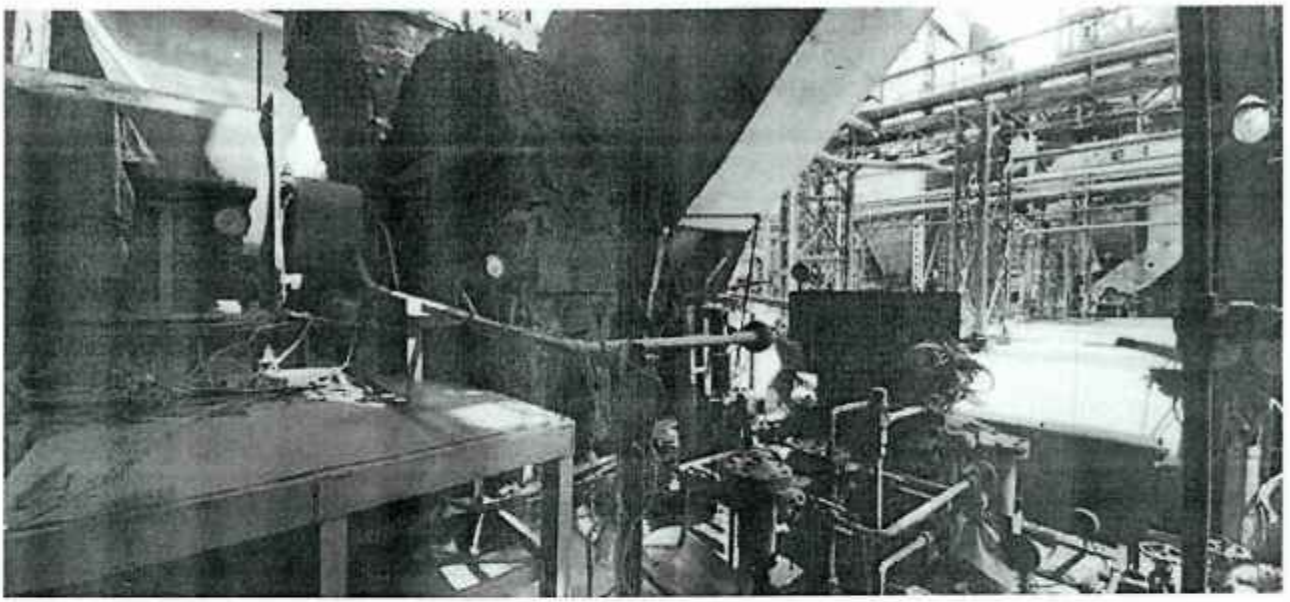
Partial loading due to Overloading of ID fan cause by,
- Leakage in TAPH tubes due to Corrosion / Erosion and short circuit of air in flue gas path
- Leakages in Flue Gas path duct / ESP casing / Hoppers due to corrosion and ingress of atmospheric air to flue gas path
-Due to deteriorated fuel quality (as fired) compared to design fuel quality, the requirement of handling flue gas is more compared to its design value

Replacement of FG Duct from APH outlet to ESP inlet and ESP outlet to ID Fan inlet and ID Fans outlet to Chimney inlet is required. Revival of ID Fans outlet gates shall be done. The non-metallic expansion joints have been observed to be damaged and need to be replaced.

B. SA FAN 1&2

Secondary air fans 2x60% (2W+0S) are redial fans of each capacity 41.11Nm3/s (45.22kg/s) with inlet guide vane. Both SA fans are working together with sufficient margin to meet the flow requirement. Currently, total SA flow is about 81 kg/s and header pressure 80mbar, SA temperature at APH outlet 270°C at part load condition.

SA Fan Performance Evaluation as per SLPP Energy Audit Report of May 2022							
Unit No.	**SA Fan**	**kW**	**Amp**	**Air Flow (kg/sec)**	**Air Flow (m3/sec)**	**Pressure (mmwc)**	**Fan Mechanical Efficiency (%)**
Unit#1	1A	573.08	67.33	35.20	30.41	812.00	45
Unit#1	1B	762.02	81.70	36.70	31.71	824.00	36
Unit#2	2A	687.85	76.10	36.90	31.88	846.00	41
Unit#2	2B	625.01	70.30	37.20	32.14	845.00	45



Replacement of SA Fans IGV and Silencer is suggested for equipment reliability/availabity and life extension. The bearing cooling water line needs to be completely replaced. As the lube oil systems for these fans has lived their age, it is also proposed to be replaced with efficient lube oil systems. Provision of VFD in SA Fans for power saving at part load may be considered. Fans refurbishment shall be done in next oportunity.

C. PA FAN 1&2

The main task of the primary air is to control the ash circulation and to supply a part of the combustion air for staged combustion. About 98% primary air is fed to the nozzle grate in the CFB combustor via the primary air

11.0ASSESMENT OF RISK AND REMEDIALS

ASSESSMENT OF RISK AND REMEDIALS

Planning and implementing R&M and LE projects is often events that can derail the objectives of the project. Identifying and mitigating project risks are crucial steps in managing successful R&M and LE projects. Thus, well-structured risk management documentation at each stage of the process is of utmost importance.

The key risk faced in implementing the R&M and LE needs to be mapped across different stages of the R&M and LE life cycle. The aim of this section is to describe the framework on the basis which the risk assessment has been undertaken.

The perceived barriers and risks in carrying out R&M and LE works can be categorized as follows:

a. Administrative
b. Technical
c. Financial
d. Implementation/ Execution
e. Environment
f. Root Cause Analysis
g. Remedial

11.1 ADMINISTRATIVE

11.1.1 Policy Support

The National Perspective Plan for Renovation, Modernization and Life Extension of Thermal Power Stations has stressed that R&M of existing old power plants is an economic option and a large potential exists for achieving increased generation and efficiency improvement through Energy-Efficient R&M beyond normal design life. The total 71 number of units identified for R&M works during 2017-22, out of which 8 number of units achieved only till 31 March 2023. R&M is an important but neglected area in policy support. There is need of policy support for implementation of R&M and LE works such as through lower interest rates on loans to utilities by the Power Finance Corporation for undertaking R&M works.

Regulation 27 of the CERC Tariff Regulations, 2019 allows generating stations to opt for R&M for the old generating stations that have outlived their useful life with the consent of the beneficiaries. The provisions also specify the manner in which such costs shall be considered for tariff purposes once cost reasonability is ascertained based on the residual life assessment and cost benefit analysis submitted along with the petition.

In addition to the above, Regulation 28 of the CERC Tariff Regulations, 2019 provides for Special Allowance In lieu of R&M, in order to take care of the increasing need for repairs that are required to keep the equipment operating efficiently. Presently, the utilities have the option to choose between Special Allowance or to undertake R&M. Utilities that opt for a special allowance for the first year of the tariff period shall have to continue with the same for the rest of the tariff period.

Regulation 60 of the CERC Tariff Regulations 2019, allows sharing of gains on account of efficiency gains related to operational parameters namely Station Heat Rate, Auxiliary Energy Consumption, SFOC.

The CERC draft regulation 2024 -29 has considered Preserving and augmenting existing capacities – Incentivizing life extension, R&M, and efficient old generating stations. Under CERC draft regulation 2024-29 presentation to stakeholders in June 2023, Suggestions are sought from stakeholders on

1) Continuation of the existing provisions of undertaking R&M or continuing with Special Allowance, if opted at the beginning of the tariff period for the rest of the tariff period.
2) Whether Special Allowance or provision of R&M may be allowed post 25 Years
3) Whether the life of Thermal Generating Stations can be increased from 25 to 35 Years.

CEA time to time review R&M Implementation Experience and release guidelines for energy efficient R&M for Capacity upgradation and Improvement in Plant Performance Parameters. As per Letter No. CEA-TH-14-24/5/2022-TRM_Division/235-335 dated 20.01.2023, to meet the immediate demand of power, it has been advised not to retire any thermal Unit and emphasized to carryout phase-wise R&M for Life extension and improve flexibility and reliability of the Units.

FGD Installation/ESP Upgradation as per the revised Environmental Norms by MOEF&CC. Under the Categorization of Thermal Power Plants (IPPs) as per MOEF&CC Notification dated 31.03.2021 by the Task Force (23-06-2022), The Surat Lignite TPS Unit#1 to Unit #4 are under Category 'C'. FGD implementation plan for CFBC Technology is not envisaged.

Under CEA Flexible operation of Thermal Power Plant Regulation 2022 to integrate RES Generation and Phasing Plan Letter No. 2/4/Flexible/TPRM/CEA/2022, 01.05.2023 for implementation of 40% of Technical minimum load,

1) Lignite (comparatively low heat content coal) based generating unit having CFBC boiler may be exempted from 40% load operation as they have inherent problem in operation below 55% load. Total 54 units of 5438 MW are operating with CFBC boiler in the country.

2) The flexibilisation of pit head power plants shall have to be avoided as long as possible as ECR of these units is low compared to units operating at load Centre.

   In the 4th phase (Jan 2030 - Dec 2030), remaining units (after 1st to 3rd phase) commissioned up to December 2000 shall be considered. The minimum age of units under 4th phase will be 30 years by 2030. It is, therefore, proposed that an option may be obtained in the year,2027-28 from utility to select either flexibilisation or 2-shift operation. In the year, 2030 about 144 units of capacity 32648 MW having age of 35 years & more may opt for 2-shift operation if not retired. Accordingly, they may go for retrofitting and complete the same in one-year time i.e. January, 2030 to December, 2030. Additionally, pithead units are also included under 4th phase for compliance of flexibilisation. Matter is under discussion with M/s BHEL(OEM) and CEA for flexible operation of CFBC technology based SLPP units

11.1.2 Implementation Options

There are two main variants in the implementation of R&M and LE programmes.

(i) A rolling plan in which the whole R&M and LE work is conceptualized based on condition assessment, feedback from O&M engineers / OEM / Consultant recommendations or compliance to statutory norms. These recommendations are implemented, then in a phased manner from year to year along with planned O&M. This procedure results in extended

implementation over a long period of time though it reduces shutdown time and loss in generation.

(ii) A comprehensive scheme implemented in a single stretch taking unit's shutdown after ensuring all inputs and supply of materials.

The first option is useful when the unit is running already at high PLF. CERC allows an extra annual expenditure of Rs. 5 lakhs per MW in deciding tariff period if the first option is followed. In case the second option is adopted, the R&M cost incurred, as considered reasonable by the regulator, is allowed as a onetime cost. The utility has to weigh carefully as to which of the two options will be favorable in terms of financial benefit allowed by regulator. The condition of the unit and whether it requires substantial R&M measures is also critical towards this decision.

To align shutdown period of planned Annual Overhaul and R&M and LE job simultaneously, it is recommended to plan R&M and LE Unitwise rolling plan to ensure better unit availability during the year, although the ordering shall be system/equipment/item/services packaging basis i.e. Boiler R&M and LE package, ESP package, Turbine R&M & LE package, C&I package, etc. based on specific OEM and system requirement. Similarly, BOP packages shall be ordered for each system/equipment separately. Based on plant equipment redundancy arrangement, BOP package R&M shall not be requiring plant shutdown but some BOP R&M activity to be clubbed with Unitwise BTG package for plant safe operation and interface requirements. The R&M packages indicated in section 13.2 on this report however, detailed package list shall be finalized at bidding stage. Refer section 15.1 of this report indicating Unitwise rolling plan for R&M and LE work conceptualized which may be carried out for year 2025 - 2028 AOH.

11.1.3 Variation in Fuel Quantity and Quality

The Tariff Regulations provides flexibility to the Power Producer / Power Plant Owner to blend alternate fuel up to a threshold limit, However It is to note that with a high price of imported coal, blending of even less than 10% increases the weighted average energy charge rate (ECR) substantially. If blending with imported coal (subject to technical feasibility) exceeds the threshold limit of 30% ECR, thereby requiring consent of the beneficiary to blend the imported coal as per the 2019 Tariff Regulations. Procurement of such coal/lignite (other than lignite from integrated mines of SLPP) has to be done through a transparent competitive bidding process.

The allowable Lignite quantity for O&M of the unit/station is determined by the regulator on the basis of operating norms approved for the unit/station. In case actual quantity of Lignite purchased as well as imported coal (if blending envisaged to improve fuel quality) is higher than that allowable under the norms either due to lower calorific value of Lignite or higher losses in transport, the additional expenditure is to be borne by the Power producer / Power Plant Owner.

The Power Producer / Power Plant Owner should therefore, take measures to ensure that the performance of the unit after R&M is superior to the Regulator's norms to cover his risks.

Based on discussion with GIPCL authorities, it is noted that approval of the GERC are in place for imported coal blending however due to technical feasibility imported coal blending upto 10% with present lignite quality are considered.

11.1.4 Variation in Operating Norms

If the operating efficiency of the plant after R&M and LE falls below the norms approved by the Regulator, there could be a proportionate reduction in fixed charges and loss in recovery of energy charges.

11.2 TECHNICAL

11.2.1 Availability of Components and Spares

The units under consideration for undertaking R&M and LE are generally old and some of their components could have become obsolete or could have been updated into newer versions. As such, there will be problems in getting their spares. Such problems arise mainly for Control and Instrumentation systems and other electrically controlled systems. In such cases, necessity of replacement of such components may be decided only after site investigation and initially is an element of risk.

11.2.2 Unanticipated Risks

Most of the requirements for major repairs and replacements can be anticipated through regular inspections and while of undertaking regular R&M these could be provided for in planned R&M up to a rational extent. However, unanticipated requirements for major repairs and replacement of components and systems may become evident after major components like boiler, turbine and generator are opened up during shutdowns. Provision for such un-anticipated requirements can be made only on the basis of experience which senior engineers of the Owner, reputed R&M contractors and original equipment manufacturers acquire after undertaking a number of such R&M and LE works. The Contract Document should provide, reasonably, for such surprises.

11.3 FINANCIAL

11.3.1 Currency and Exchange Risk

R&M and LE works may require some components and parts to be imported from other countries. The currency and exchange risk is usually provided in the agreement between the Power Producer / Power Plant Owner and the R&M contractor. The relevant provisions need to be approved by the Regulator.

11.3.2 Financial Problems

The R&M contractor can, during the course of implementation, face cash flow problems due to delay in stage payments by the Owner or contractor's own cash management. Appropriate cash reserves for implementation of the particular project need to be ensured to prevent any set back to progress.

11.4 IMPLEMENTATION / EXECUTION

11.4.1 Availability of R&M Contractor

There is limited availability of contracting agencies for undertaking R&M and LE works. Another constraint is that most of the utilities prefer their R&M and LE works to be executed by Original Equipment Manufacturers (OEMs) while the preference of OEMs is to build new plants which offer better returns, or the part of R&M only which include mainly replacement of complete equipment.

The Power Producer / Power Plant Generator may ask for Performance Guarantees such as for improved heat rate from the R & M contractors. To offset risks, the R & M contractor may offer higher prices with an over-engineered R&M and LE programme.

11.5 ENVIRONMENT

The pollution control and environment protection norms are getting more and more stringent gradually. Such upgrading of norms affect coal/lignite based thermal power plants specially.

A summary of new regulations on air emission is given in the table below. Different limits are specified based on capacity of power plant and year of installation.

New Emission Norms (As notified on 7th December' 2015)

Emission Parameter	TPPs (units installed before 31st December' 2003	TPPs (units installed after 1st January' 2004 and before 31st December' 2016	TPPs (units installed after 1st January' 2017
Particulate Matter	100 mg/Nm^3	50 mg/Nm^3	30 mg/Nm^3
Sulphur Dioxide (SO2)	600 mg/Nm^3 for units less than 500MW capacity 200 mg/Nm^3 for units 500MW and above capacity	600 mg/Nm^3 for units less than 500MW capacity 200 mg/Nm^3 for units 500MW and above capacity	100 mg/Nm^3
Oxides of Nitrogen (NOx)	600 mg/Nm^3	300 mg/Nm^3	100 mg/Nm^3
Mercury (Hg)	0.03 mg/Nm^3 for units having capacity of 500MW and above	0.03 mg/Nm^3	0.03 mg/Nm^3

Further, to the above MOEF&CC notification, MOEF&CC has subsequently issued an amendment dated 28th June 2018 to Schedule - I of Environment (Protection) Rules, 1986 for stack height post FGD.

11.5.1 Stack

The latest environmental norm makes it mandatory to at least have a height of stack to be 100 m.

11.5.2 Electro-static Precipitators (ESPs)

In order to reduce pollution in compliance of latest norms, larger and more efficient ESPs are required. Fitting these new ESPs in the limited space of old power stations could be a problem particularly if existing stack is to be used. Based on the ash content in lignite from integrated mines, SLPP-I ESP uprating is not required, however periodic corrosion assessment would be requiring to take measures to maintain ESP efficiency.

11.5.3 Flue Gas Desulphurization (FGD)

To meet the stipulated SOx emissions norms as defined above could really challenging tasks given the layout constraints and particularly if existing stack is to be retained. FGD implementation for CFBC Technology is not required.

As per the measurement of SOX, NOX, CO emissions, the latest environmental norm are met with existing system, therefore additional Flue gas cleaning equipment are not envisaged during R&M.

11.5.4 Fly Ash Utilization

Pollution control norms provide for total fly ash utilization according to a prescribed schedule. The utility has proactively implemented the 100% utilization of fly ash generated. This will be necessary even if R&M measures are not taken up immediately. 100% ash utilization has been achieved since 2003.

11.6 ROOT CAUSE ANALYSIS

This step involves identifying the root causes of occurrence of risk or a problem event faced during the course of the R&M and LE life cycle. The practice of root cause analysis is predicated on the belief that problems are best solved by attempting to address, correct or eliminate root causes, as opposed to merely addressing the immediately obvious symptoms. By directing corrective measures at root causes, it is more probable that problem recurrence will be prevented.

11.7 RISK MITIGATION

Strategies to minimize a particular risk involve the following:

11.7.1 Preventive Risk Management

The concept is similar to Preventive Maintenance in a thermal power plant that involves care and servicing by the plant personnel for the purpose of maintaining equipment and facilities in satisfactory operating condition by providing for systematic inspection, detection, and correction of incipient failures either before they occur or before they develop into major defects.

11.7.2 Risk Sharing/Transfer

It involves sharing some or all of the negative impact of the risk with the other agency in form of performance guarantees or a third party in form of insurance. Risk sharing could lead to risk mitigation in certain cases as by sharing the risk with an agency which is able to manage the risk well, can result in minimizing the impact of the identified risk.

GUJARAT INDUSTRIES POWER COMPANY LIMITED
SURAT LIGNITE POWER PLANT (SLPP)

GIPCL-SLPP Phase-II: 2x125 MW (Unit-3 & 4): Protocol for ESP revived dummy field power consumption measurement.

GIPCL-SLPP Phase-II: 2x125 MW (Unit-3 & Unit-4) ESP dummy fields (2 Nos. in each Unit) were revived for meeting New environment Norms. Power consumed by ESP revived dummy fields were recorded jointly by Operation, Boiler Maintenance Department and Electrical department representative at ESP Control Room, through Portable Power Analyzer on 06.03.2024 and reading are tabulated below and snap shots attached:

Sr. No.	SLPP Unit No.	Field No.	Instantaneous Power Consumption (kW) (Measured)	Power Consumption per Day(kWh) (calculated)	% of Rated Generation per Day (3 Million Units) (calculated)
1	3	1A	80	1920	0.1288 %
2	3	1B	81	1944	
3	4	1A	76	1824	0.1208%
4	4	1B	75	1800	

06/03/2024 06.03.24 06.03.24

(Kala Vadar) SM (Operation)

(Kashyap Thakkar) M (Boiler Maintenance)

(Tridip Bhattacharya) M (Electrical Maintenance)

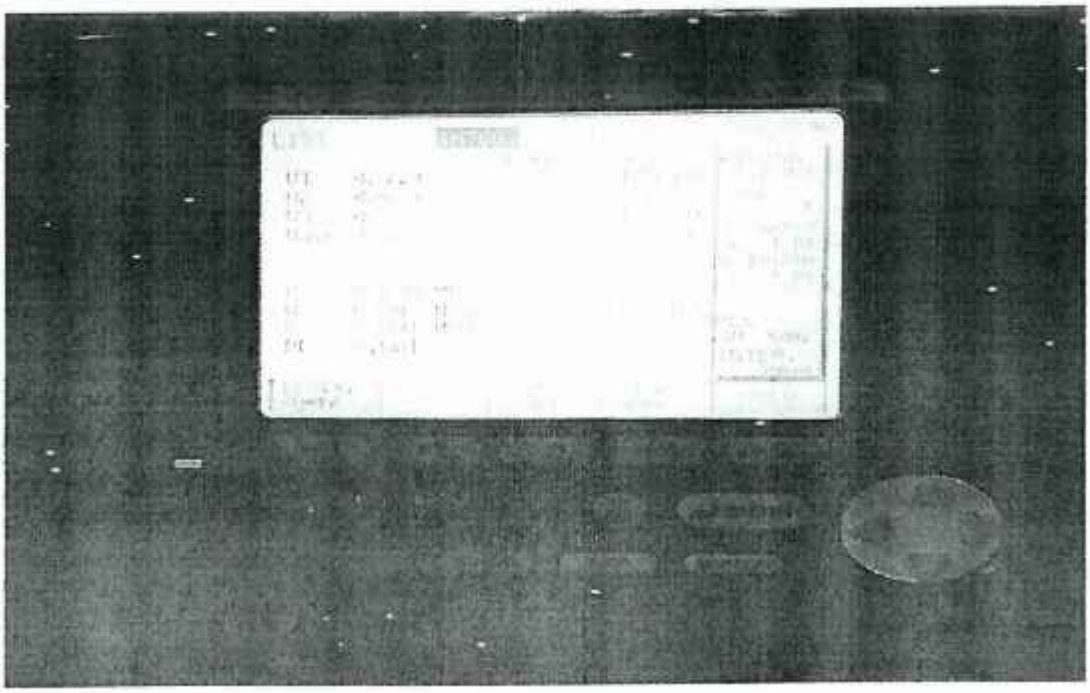
07/03/2024 7/3/24 7/3/24

AGM(Operation) AGM(BMD) AGM(EMD)

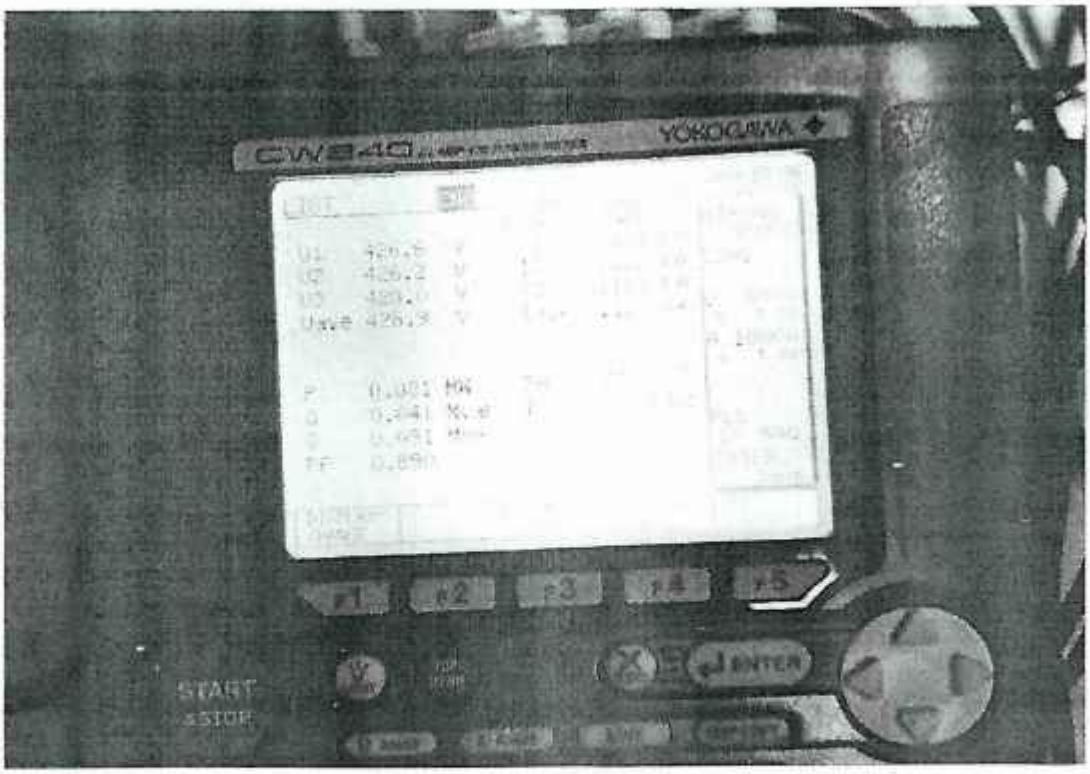
AGM(O&M) 07/03/2024

GIPCL-SLPP Phase-II: 2X125 MW (Unit-3 & 4): Snap shots of ESP revived dummy fields Power consumption measurement through Portable Power Analyser on 06.03.2024

Unit-3 Field 1A



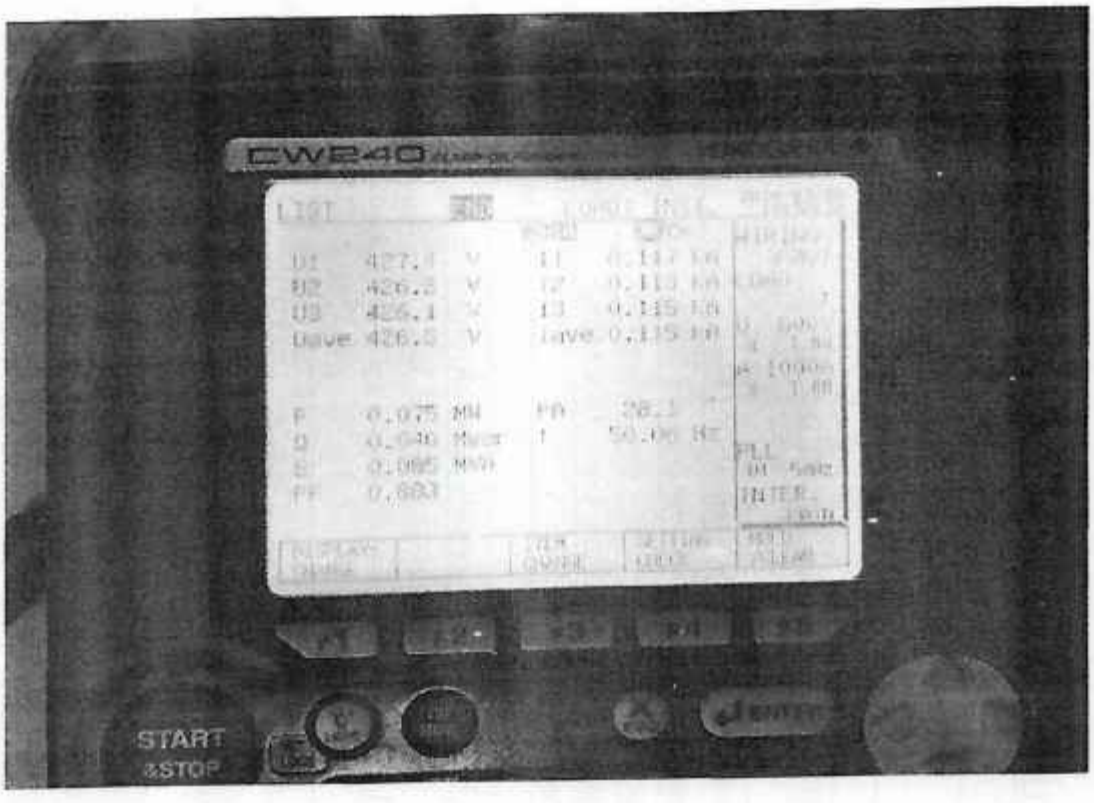
Unit-3 Field 1B



Unit-4 Field 1A



Unit-4 Field 1B



GUJARAT INDUSTRIES POWER COMPANY LIMITED

IMPACT ON TARIFF DUE TO ADDITIONAL CAPITALISATION OF ESP

SLPP-1 (Unit-1 & 2)

Particulars	Upto PPA life (2030)		With 10 Year Life Extension (2040)	
	Rs. In Cr	Rs./kWh	Rs. In Cr	Rs./kWh
Levelised Fixed Tariff without ESP Capitalisation	**1,210.57**	**1.128**	**1,210.57**	**1.221**
Tariff impact due to ESP Capitalisation	44.10	0.068	44.10	0.040
Tariff impact considering IDC upto 31.03.2024	8.60	0.013	8.60	0.008
Tariff impact in O&M due to ESP Capitalisation		0.034		0.038
Tariff impact due to Addl. Aux. Cons. (0.1248%)		0.002		0.002
Total Increase in Tariff		**0.117**		**0.087**
Levelised Fixed Tariff after Addl. Capitalisation	**1,263.27**	**1.245**	**1,263.27**	**1.308**

SLPP-2 (Unit- 3 & 4)

Particulars	Upto PPA Life (2040)	
	Rs. In Cr	Rs./kWh
Levelised Fixed Tariff without ESP Capitalisation	**1,504.72**	**1.826**
Tariff impact due to ESP Capitalisation	40.62	0.037
Tariff impact considering IDC upto 31.03.2024	12.08	0.011
Tariff impact in O&M due to ESP Capitalisation		0.022
Tariff impact due to Addl. Aux. Cons. (0.1248%)		0.003
Total Increase in Tariff		**0.073**
Levelised Fixed Tariff after Addl. Capitalisation	**1,557.42**	1.899

GUJARAT INDUSTRIES POWER COMPANY LTD.

FIXED TARIFF WORKING WITHOUT ESP CAPITALISATION

Base data and assumptions

SLPP-1

COD	Date	15-02-2000
Capacity	MW	250
Total Project cost with Land	Rs. In Cr	1,210.57
Project cost for Dep.	Rs. In Cr	1,204.43
Debt	%	75.50
Equity	%	24.51
Debt	Rs. In Cr	913.92
Equity	Rs. In Cr	296.65
O&M Rate	%	8.61
Escalation in O&M Rate	%	3.00
Return on Equity-Gross Tax	%	15.27
Interest on Working Capital	%	8.50
Discounting Rate	%	8.50

Normative PLF%	%	75
Aux. Cons.%	%	10
Station Heat Rate	K.Cal/Kwh	2,400.00
Moisture Content	%	50.00
Station Heat Rate With M	K.Cal/Kwh	2,640.00
Vastan	Rs./MT	2,741.00
Valia	Rs./MT	1,268.00
Escal. In Rate	%	3%
GCV of Lignite	K.Cal.	2,450.00
HFO	ml/kWh	3.50
Price	Rs./KL	53,250.00
GCV of HFO	K.Cal.	9,645.00
Lime	Kg/kWh	0.15
Price	Rs./kg	0.44

Year		**2024-25**	**2025-26**	**2026-27**	**2027-28**	**2028-29**	**2029-30**
		01-04-2024	01-04-2025	01-04-2026	01-04-2027	01-04-2028	01-04-2029
		31-03-2025	31-03-2026	31-03-2027	31-03-2028	31-03-2029	14-02-2030
Days of Operation	Days	365.00	365.00	365.00	366.00	365.00	320.00
Year		1	2	3	4	5	6
Generation at Normative	In MUs	1,478.25	1,478.25	1,478.25	1,482.30	1,478.25	1,296.00
Comm. PLF	%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%
O&M	Rs. In Cr	104.17	107.30	110.52	113.83	117.25	105.88
Return on Equity	Rs. In Cr	45.30	45.30	45.30	45.30	45.30	39.72
Interest on Working Capital	Rs. In Cr	9.90	10.00	10.10	10.22	10.32	8.28
Total Fixed Charges	**Rs. In Cr**	**159.38**	**162.60**	**165.92**	**169.35**	**172.87**	**153.87**
Lignite Stock	15.00	11.22	11.22	11.22	11.22	11.22	11.22
Stock of Fuel Oil	60.00	5.03	5.18	5.34	5.50	5.66	5.83
Limestone Stock	15.00	0.45	0.46	0.47	0.49	0.50	0.52
O&M Charges	1.00	8.68	8.94	9.21	9.49	9.77	8.82
Maintenance Spares (% of Capital Cost)	1.00%	12.11	12.11	12.11	12.11	12.11	12.11
Debtors for two months	2.00	78.98	79.73	80.50	81.43	82.10	72.57
Total Working Capital		**116.47**	**117.64**	**118.84**	**120.23**	**121.36**	**111.07**
O&M	Rs./kWh	0.705	0.726	0.748	0.768	0.793	0.817
Return on Equity	Rs./kWh	0.306	0.306	0.306	0.306	0.306	0.306
Interest on Working Capital	Rs./kWh	0.067	0.068	0.068	0.069	0.070	0.064
Total Fixed Charges	**Rs./kWh**	**1.078**	**1.100**	**1.122**	**1.143**	**1.169**	**1.187**
Discounting Rate		1.000	0.922	0.849	0.783	0.722	0.665
Discounted Fixed Charges	**Rs./kWh**	**1.08**	**1.01**	**0.95**	**0.89**	**0.84**	**0.79**
Levelized Fixed Charges	**Rs./kWh**	**1.128**					

GUJARAT INDUSTRIES POWER COMPANY LTD.

FIXED TARIFF WORKING WITH ESP CAPITALISATION

SLPP-1

Base data and assumptions

COD	Date	15-02-2000
Capacity	MW	250
Total Project cost with Land	Rs. In Cr	1,210.57
Project cost for Dep.	Rs. In Cr	1,204.43
Debt	%	75.50
Equity	%	24.51
Debt	Rs. In Cr	913.92
Equity	Rs. In Cr	296.65
O&M Rate	%	8.61
Escalation in O&M Rate	%	3.00
Return on Equity-Gross Tax	%	15.27
Interest on Working Capital	%	8.50
Discounting Rate	%	8.50

Normative PLF%	%	75
Aux. Cons.%	%	10.1248
Station Heat Rate	K.Cal/Kwh	2,400.00
Moisture Content	%	50.00
Station Heat Rate With M	K.Cal/Kwh	2,640.00
Vastan	Rs./MT	2,741.00
Valia	Rs./MT	1,268.00
Escal. In Rate	%	3%
GCV of Lignite	K.Cal.	2,450.00
HFO	ml/kWh	3.50
Price	Rs./KL	53,250.00
GCV of HFO	K.Cal.	9,645.00
Lime	Kg/kWh	0.15
Price	Rs./kg	0.44

Year		2024-25	2025-26	2026-27	2027-28	2028-29	2029-30
		01-04-2024	01-04-2025	01-04-2026	01-04-2027	01-04-2028	01-04-2029
		31-03-2025	31-03-2026	31-03-2027	31-03-2028	31-03-2029	14-02-2030
Days of Operation	Days	365	365	365	366	365	320
Year		1	2	3	4	5	6
Generation at Normative	In MUs	1,476.20	1,476.20	1,476.20	1,480.24	1,476.20	1,294.20
Comm. PLF	%	74.90%	74.90%	74.90%	74.90%	74.90%	74.90%
O&M	Rs. In Cr	108.71	111.97	115.33	118.79	122.35	110.48
Dep.	Rs. In Cr	8.07	8.07	8.07	8.09	8.07	7.07
Term Loan Interest	Rs. In Cr	3.10	2.54	1.97	1.41	0.85	0.25
Return on Equity	Rs. In Cr	47.27	47.27	47.27	47.27	47.27	41.45
Interest on Working Capital	Rs. In Cr	10.18	10.27	10.37	10.49	10.58	8.47
Total Fixed Charges	**Rs. In Cr**	**177.33**	**180.12**	**183.01**	**186.05**	**189.11**	**167.72**
Lignite Stock	15.00	11.22	11.22	11.22	11.22	11.22	11.22
Stock of Fuel Oil	60.00	5.03	5.18	5.34	5.50	5.66	5.83
Limestone Stock	15.00	0.45	0.46	0.47	0.49	0.50	0.52
O&M Charges	1.00	9.06	9.33	9.61	9.90	10.20	9.21
Maintenance Spares (% of Capital Cost)	1.00%	12.11	12.11	12.11	12.11	12.11	12.11
Debtors for two months	2.00	81.90	82.56	83.27	84.14	84.73	74.81
Total Working Capital		**119.77**	**120.88**	**122.02**	**123.35**	**124.42**	**113.70**
Term Loan							
Op. bal.	Rs. In Cr	39.78	33.15	26.52	19.89	13.26	6.63
Repay	Rs. In Cr	6.63	6.63	6.63	6.63	6.63	6.63
Cl. Bal.	Rs. In Cr	33.15	26.52	19.89	13.26	6.63	-
O&M	Rs./kWh	0.736	0.758	0.781	0.802	0.829	0.854
Dep.	Rs./kWh	0.055	0.055	0.055	0.055	0.055	0.055
Term Loan Interest	Rs./kWh	0.021	0.017	0.013	0.010	0.006	0.002
Return on Equity	Rs./kWh	0.320	0.320	0.320	0.319	0.320	0.320
Interest on Working Capital	Rs./kWh	0.069	0.070	0.070	0.071	0.072	0.065
Total Fixed Charges	**Rs./kWh**	**1.201**	**1.220**	**1.240**	**1.257**	**1.281**	**1.296**
Discounting Rate		1.000	0.922	0.849	0.783	0.722	0.665
Discounted Fixed Charges	**Rs./kWh**	**1.201**	**1.125**	**1.053**	**0.984**	**0.924**	**0.862**
Levelised Fixed Charges	**Rs./kWh**	**1.245**					

GUJARAT INDUSTRIES POWER COMPANY LTD.

SLPP-1

FIXED TARIFF WORKING WITH ESP CAPITALISATION AND LIFE EXTENTION

Base data and assumptions

COD	Date	15-02-2000
Capacity	MW	250
Total Project cost with Land	Rs. In Cr	1,210.57
Project cost for Dep.	Rs. In Cr	1,204.43
Debt	%	75.50
Equity	%	24.51
Debt	Rs. In Cr	913.92
Equity	Rs. In Cr	296.65
O&M Rate	%	8.61
Escalation in O&M Rate	%	3.00
Return on Equity-Gross Tax	%	15.27
Interest on Working Capital	%	8.50
Discounting Rate	%	8.50

Normative PLF%	%	75
Aux. Cons.%	%	10.1248
Station Heat Rate	K.Cal/Kwh	2,400.00
Moisture Content	%	50.00
Station Heat Rate With M	K.Cal/Kwh	2,640.00
Vastan	Rs./MT	2,741.00
Valia	Rs./MT	1,268.00
Escal. In Rate	%	3%
GCV of Lignite	K.Cal	2,450.00
HFO	ml/kWh	3.50
Price	Rs./KL	53,250.00
GCV of HFO	K.Cal.	9,645.00
Lime	Kg/kWh	0.15
Price	Rs./kg	0.44

Fuel Mix

Vastan	%	20.00
Valia	%	80.00

Addl. Capital	Rs. In Cr.	52.70
Debt	Rs. In Cr	39.78
Equity	Rs. In Cr	12.91
TL Period	Years	15.00
TL Rate	%	8.50
Dep. Cost	Rs. In Cr	47.43

Year		2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	2035-36	2036-37	2037-38	2038-39	2039-40
		01-04-2024	01-04-2025	01-04-2026	01-04-2027	01-04-2028	01-04-2029	01-04-2030	01-04-2031	01-04-2032	01-04-2033	01-04-2034	01-04-2035	01-04-2036	01-04-2037	01-04-2038	01-04-2039
		31-03-2025	31-03-2026	31-03-2027	31-03-2028	31-03-2029	31-03-2030	31-03-2031	31-03-2032	31-03-2033	31-03-2034	31-03-2035	31-03-2036	31-03-2037	31-03-2038	31-03-2039	14-02-2040
Days of Operation	Days	365	365	365	366	365	365	365	366	365	365	365	366	365	365	365	320
Year		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Generation at Normative	In MUs	1,476.20	1,476.20	1,476.20	1,480.24	1,476.20	1,476.20	1,476.20	1,480.24	1,476.20	1,476.20	1,476.20	1,480.24	1,476.20	1,476.20	1,476.20	1,294.29
Comm. PLF	%	74.90%	74.90%	74.90%	74.90%	74.90%	74.90%	74.90%	74.90%	74.90%	74.90%	74.90%	74.90%	74.90%	74.90%	74.90%	74.90%
O&M	Rs. In Cr	108.71	111.97	115.33	118.79	122.35	126.02	129.80	133.70	137.71	141.84	146.09	150.48	154.99	159.64	164.43	148.48
Dep.	Rs. In Cr	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.62
Term Loan Interest	Rs. In Cr	3.27	3.04	2.82	2.59	2.37	2.14	1.92	1.69	1.47	1.24	1.01	0.79	0.56	0.34	0.11	0.00
Return on Equity	Rs. In Cr	47.27	47.27	47.27	47.27	47.27	47.27	47.27	47.27	47.27	47.27	47.27	47.27	47.27	47.27	47.27	41.45
Interest on Working Capital	Rs. In Cr	10.11	10.21	10.31	10.43	10.52	10.64	10.75	10.88	10.99	11.12	11.25	11.40	11.52	11.67	11.81	9.48
Total Fixed Charges	**Rs. In Cr**	**172.35**	**175.48**	**178.72**	**182.08**	**185.50**	**189.06**	**192.73**	**196.54**	**200.43**	**204.46**	**208.62**	**212.93**	**217.34**	**221.90**	**226.62**	**202.02**
Lignite Stock	15.00	11.22	11.22	11.22	11.22	11.22	11.22	11.22	11.22	11.22	11.22	11.22	11.22	11.22	11.22	11.22	1.22
Stock of Fuel Oil	60.00	5.03	5.18	5.34	5.50	5.66	5.83	6.01	6.19	6.37	6.57	6.76	6.97	7.17	7.39	7.61	7.84
Limestone Stock	15.00	0.45	0.46	0.47	0.49	0.50	0.52	0.53	0.55	0.57	0.58	0.60	0.62	0.64	0.66	0.68	0.70
O&M Charges	1.00	9.06	9.33	9.61	9.90	10.20	10.50	10.82	11.14	11.48	11.82	12.17	12.54	12.92	13.30	13.70	12.57
Maintenance Spares (% of Capital Cost)	1.00%	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11
Debtors for two months	2.00	81.07	81.80	82.56	83.48	84.13	84.96	85.81	86.84	87.60	88.53	89.49	90.64	91.51	92.57	93.66	82.94
Total Working Capital		**118.94**	**120.10**	**121.31**	**122.69**	**123.82**	**125.14**	**126.50**	**128.05**	**129.34**	**130.83**	**132.36**	**134.09**	**135.57**	**137.25**	**138.98**	**127.18**
Term Loan																	
Op. bal	Rs. In Cr	39.78	37.13	34.48	31.83	29.17	26.52	23.87	21.22	18.57	15.91	13.26	10.61	7.96	5.30	2.65	0.00
Repay	Rs. In Cr	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65	
Cl. Bal	Rs. In Cr	37.13	34.48	31.83	29.17	26.52	23.87	21.22	18.57	15.91	13.26	10.61	7.96	5.30	2.65	0.00	0.00
O&M	Rs./kWh	0.736	0.758	0.781	0.802	0.829	0.854	0.879	0.903	0.933	0.961	0.990	1.017	1.050	1.081	1.114	1.147
Dep.	Rs./kWh	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
Term Loan Interest	Rs./kWh	0.022	0.021	0.019	0.018	0.016	0.015	0.013	0.011	0.010	0.008	0.007	0.005	0.004	0.002	0.001	0.000
Return on Equity	Rs./kWh	0.320	0.320	0.320	0.319	0.320	0.320	0.320	0.319	0.320	0.320	0.320	0.319	0.320	0.320	0.320	0.320
Interest on Working Capital	Rs./kWh	0.068	0.069	0.070	0.070	0.071	0.072	0.073	0.074	0.074	0.075	0.076	0.077	0.078	0.079	0.080	0.071
Total Fixed Charges	**Rs./kWh**	**1.168**	**1.189**	**1.211**	**1.230**	**1.257**	**1.281**	**1.306**	**1.328**	**1.358**	**1.385**	**1.413**	**1.438**	**1.472**	**1.503**	**1.535**	**1.561**
Discounting Rate		1.000	0.922	0.849	0.782	0.722	0.665	0.613	0.565	0.521	0.480	0.442	0.408	0.376	0.346	0.319	0.294
Discounted Fixed Charges	**Rs./kWh**	**1.168**	**1.096**	**1.028**	**0.963**	**0.907**	**0.852**	**0.800**	**0.750**	**0.707**	**0.665**	**0.625**	**0.586**	**0.553**	**0.521**	**0.490**	**0.459**
Levelized Fixed Charges	**Rs./kWh**	**1.308**															

GUJARAT INDUSTRIES POWER COMPANY LTD.

SLPP-2

FIXED TARIFF WORKING WITHOUT ESP CAPITALISATION

Base data and assumptions

COD	Date	28-04-2010
Capacity	MW	250
Total Project cost with Land	Rs. In Cr	1,504.72
Project cost for Dep.	Rs. In Cr	1,490.46
Debt	%	70.00
Equity	%	30.00
Debt	Rs. In Cr	1,053.30
Equity	Rs. In Cr	451.42
O&M Rate	Lakh/MW	44.58
Escalation in O&M Rate	%	5.72
Return on Equity-Gross Tax	%	16.45
Interest on Working Capital	%	11.75
Discounting Rate	%	8.50
Dep. Rate	%	1.99

Normative PLF%	%	80.00
Aux. Cons.%	%	11.50
Station Heat Rate	K.Cal/Kwh	2,461.00
Moisture Content	%	50.00
Station Heat Rate With M	K.Cal/Kwh	2,707.10
Vastan	Rs./MT	2,741.00
Valia	Rs./MT	1,268.00
Escal. in Rate	%	3%
GCV of Lignite	K.Cal.	2,450.00
HFO	ml/kWh	1.00
Price	Rs./KL	53,250.00
GCV of HFO	K.Cal.	9,645.00
Lime	kg/kWh	0.15
Price	Rs./kg	0.44

Year		2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32		2033-34	2034-35	2035-36	2036-37	2037-38	2038-39	2039-40
		01-04-2024	01-04-2025	01-04-2026	01-04-2027	01-04-2028	01-04-2029	01-04-2030	01-04-2031		01-04-2033	01-04-2034	01-04-2035	01-04-2036	01-04-2037	01-04-2038	01-04-2039
		31-03-2025	31-03-2026	31-03-2027	31-03-2028	31-03-2029	31-03-2030	31-03-2031	31-03-2032		31-03-2034	31-03-2035	31-03-2036	31-03-2037	31-03-2038	31-03-2039	31-03-2040
Days of Operation	Days	365	365	365	366	365	365	365	366		365	365	366	365	365	365	366
Year		1	2	3	4	5	6	7	8		10	11	12	13	14	15	16
Generation at Normative	in MUs	1,550.52	1,550.52	1,550.52	1,554.77	1,550.52	1,550.52	1,550.52	1,554		1,550.52	1,550.52	1,554.77	1,550.52	1,550.52	1,550.52	1,554.77
Comm. PLF	%	80.00%	80.00%	80.00%	80.00%	80.00%	80.00%	80.00%	80.00%		80.00%	80.00%	80.00%	80.00%	80.00%	80.00%	80.00%
O&M	Rs. In Cr	111.45	117.82	124.56	131.69	139.22	147.19	155.60	164.53		183.80	194.36	205.52	217.25	229.64	242.82	256.71
Dep	Rs. In Cr	29.59	29.59	29.59	29.59	29.59	29.59	29.59	29.59		29.59	29.59	29.59	29.59	29.59	29.59	29.59
Term Loan Interest	Rs. In Cr	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-
Return on Equity	Rs. In Cr	74.24	74.24	74.24	74.24	74.24	74.24	74.24	74.24		74.24	74.24	74.24	74.24	74.24	74.24	74.24
Interest on Working Capital	Rs. In Cr	18.90	19.14	19.38	19.66	19.91	20.19	20.49	20.81		21.50	21.86	22.27	22.68	23.09	23.55	24.05
Total Fixed Charges	**Rs. In Cr**	**234.19**	**240.79**	**247.78**	**255.18**	**262.96**	**271.21**	**279.93**	**289.17**		**309.19**	**320.08**	**331.60**	**343.75**	**356.61**	**370.20**	**384.59**
Lignite Stock	45.00	36.90	36.90	36.90	36.90	36.90	36.90	36.90			36.90	36.90	36.90	36.90	36.90	36.90	36.90
Stock of Fuel Oil	60.00	4.60	4.74	4.88	5.03	5.18	5.33	5.49			6.00	6.18	6.37	6.56	6.76	6.96	7.17
Limestone Stock	15.00	0.48	0.49	0.51	0.52	0.54	0.55	0.57			0.62	0.64	0.66	0.68	0.70	0.72	0.74
O&M Charges	1.00	9.29	9.82	10.38	10.97	11.60	12.27	12.97			15.32	16.20		18.10	19.14	20.23	21.39
Maintenance Spares (% of Capital Cost)	1.00%	15.05	15.05	15.05	15.05	15.05	15.05	15.05			15.05	15.05		15.05	15.05	15.05	15.05
Debtors for two months	2.00	94.57	95.56	97.23	98.82	100.18	101.77	103.45			109.0	111.51		115.59	118.01	120.36	123.42
Total Working Capital		**160.88**	**162.86**	**164.94**	**167.29**	**169.44**	**171.87**	**174.42**			**182.04**	**186.08**			**196.55**	**200.42**	**204.66**
O&M	Rs./kWh	0.719	0.760	0.803	0.847	0.898	0.949	1.004				1.254			1.481	1.566	1.651
Dep	Rs./kWh	0.191	0.191	0.191	0.190	0.191	0.191	0.191	0.190	0.191	0.190	0.190	0.190	0.191	0.191	0.191	0.190
Term Loan Interest	Rs./kWh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Return on Equity	Rs./kWh	0.479	0.479	0.479	0.478	0.479	0.479	0.479	0.478	0.479	0.479	0.479	0.478	0.479	0.479	0.479	0.478
Interest on Working Capital	Rs./kWh	0.122	0.123	0.125	0.126	0.128	0.130	0.132	0.134	0.136	0.139	0.141	0.143	0.146	0.149	0.152	0.155
Total Fixed Charges	**Rs./kWh**	**1.510**	**1.553**	**1.598**	**1.641**	**1.696**	**1.749**	**1.805**	**1.860**	**1.928**	**1.994**	**2.064**	**2.133**	**2.217**	**2.300**	**2.388**	**2.474**
Discounting Rate		1.000	0.922	0.849	0.783	0.722	0.665	0.613	0.565	0.521	0.480	0.442	0.408	0.376	0.346	0.319	0.294
Discounted Fixed Charges	**Rs./kWh**	**1.510**	**1.431**	**1.357**	**1.285**	**1.224**	**1.163**	**1.107**	**1.051**	**1.004**	**0.957**	**0.913**	**0.869**	**0.833**	**0.796**	**0.762**	**0.728**
Levelised Fixed Charges	**Rs./kWh**	**1.826**															

GUJARAT INDUSTRIES POWER COMPANY LTD.

FIXED TARIFF WORKING WITH ESP CAPITALISATION

Base data and assumptions

COD	Date	28-04-2010
Capacity	MW	250
Total Project cost with Land	Rs. In Cr	1,504.72
Project cost for Dep.	Rs. In Cr	1,490.46
Debt	%	70.00
Equity	%	30.00
Debt	Rs. In Cr	1,053.30
Equity	Rs. In Cr	451.42
O&M Rate	Lakh/MW	44.58
Escalation in O&M Rate	%	5.72
Return on Equity Gross Tax	%	16.45
Interest on Working Capital	%	11.75
Discounting Rate	%	8.50
Dep. Rate	%	1.99

Normative PLF%	%	80.00
Aux. Cons.%	%	11.8248
Station Heat Rate	K.Cal/Kwh	2,461.00
Moisture Content	%	50.00
Station Heat Rate With M	K.Cal/Kwh	2,707.10
Vastan	Rs./MT	2,741.00
Valia	Rs./MT	1,268.00
Escal. In Rate	%	3%
GCV of Lignite	K.Cal.	2,450.00
HFO	ml/kWh	2.00
Price	Rs./Kl	53,250.00
GCV of HFO	K.Cal.	9,645.00
Lime	Kg/kWh	0.15
Price	Rs./kg	0.44

Fuel Mix

Vastan	%	20.00
Valia	%	80.00

Addl. Capital	Rs. In Cr	52.70
Debt	Rs. In Cr	36.89
Equity	Rs. In Cr	15.81
TL Period	Years	15.00
TL Rate	%	8.50
Dep. Cost	Rs. In Cr	47.43
Addl. O&M fo	Rs. In Cr	7.28

Year		**2024-25**	**2025-26**	**2026-27**	**2027-28**	**2028-29**	**2029-30**	**2030-31**	**2031-32**	**2032-33**	**2033-34**	**2034-35**	**2035-36**	**2036-37**	**2037-38**	**2038-39**	**2039-40**
		01-04-2024	01-04-2025	01-04-2026	01-04-2027	01-04-2028	01-04-2029	01-04-2030	01-04-2031	01-04-2032	01-04-2033	01-04-2034	01-04-2035	01-04-2036	01-04-2037	01-04-2038	01-04-2039
		31-03-2025	31-03-2026	31-03-2027	31-03-2028	31-03-2029	31-03-2030	31-03-2031	31-03-2032	31-03-2033	31-03-2034	31-03-2035	31-03-2036	31-03-2037	31-03-2038	31-03-2039	31-03-2040
Days of Operation	Days	365	365	365	366	365	365	365	366	365	365	365	366	365	365	365	366
Year		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Generation at Normative	In MUs	1,548.33	1,548.33	1,548.33	1,552.58	1,548.33	1,548.33	1,548.33	1,552.58	1,548.33	1,548.33	1,548.33	1,552.58	1,548.33	1,548.33	1,548.33	1,552.58
Comm. PLF	%	79.89%	79.89%	79.89%	79.89%	79.89%	79.89%	79.89%	79.89%	79.89%	79.89%	79.89%	79.89%	79.89%	79.89%	79.89%	79.89%
O&M	Rs. In Cr	113.73	120.23	127.11	134.38	142.06	150.19	158.78	167.86	177.47	187.62	198.35	209.69	221.69	234.37	247.77	261.95
Dep.	Rs. In Cr	32.55	32.55	32.55	32.55	32.55	32.55	32.55	32.55	32.55	32.55	32.55	32.55	32.55	32.55	32.55	32.55
Term Loan Interest	Rs. In Cr	3.03	2.82	2.61	2.40	2.19	1.99	1.78	1.57	1.36	1.15	0.94	0.73	0.52	0.31	0.10	0.00
Return on Equity	Rs. In Cr	76.84	76.84	76.84	76.84	76.84	76.84	76.84	76.84	76.84	76.84	76.84	76.84	76.84	76.84	76.84	76.84
Interest on Working Capital	Rs. In Cr	19.13	19.37	19.61	19.89	20.14	20.43	20.73	21.06	21.38	21.73	22.10	22.51	22.91	23.34	23.80	24.31
Total Fixed Charges	**Rs. In Cr**	**245.28**	**251.81**	**258.73**	**266.06**	**273.79**	**282.00**	**290.68**	**299.89**	**309.60**	**319.89**	**330.79**	**342.33**	**354.51**	**367.42**	**381.08**	**395.65**
Lignite Stock	45.00	36.90	36.90	36.90	36.90	36.90	36.90	36.90	36.90	36.90	36.90	36.90	36.90	36.90	36.90	36.90	36.90
Stock of Fuel Oil	60.00	4.60	4.74	4.88	5.03	5.18	5.33	5.49	5.66	5.83	6.00	6.18	6.37	6.56	6.76	6.96	7.17
Limestone Stock	15.00	0.48	0.49	0.51	0.52	0.54	0.55	0.57	0.59	0.60	0.62	0.64	0.66	0.68	0.70	0.72	0.74
O&M Charges	1.00	9.48	10.02	10.59	11.20	11.84	12.52	13.23	13.99	14.79	15.63	16.53	17.47	18.47	19.53	20.65	21.83
Maintenance Spares (% of Capital Cost)	1.00%	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05
Debtors for two months	2.00	96.34	97.62	98.97	100.56	101.90	103.49	105.16	107.09	108.79	110.75	112.82	115.16	117.30	119.73	122.29	125.18
Total Working Capital		**162.84**	**164.81**	**166.90**	**169.25**	**171.40**	**173.84**	**176.40**	**179.26**	**181.95**	**184.95**	**188.11**	**191.61**	**194.96**	**198.66**	**202.56**	**206.86**
Term Loan																	
Op. bal.	Rs. In Cr	36.89	34.43	31.97	29.51	27.05	24.59	22.13	19.67	17.22	14.76	12.30	9.84	7.38	4.92	2.46	-0.00
Repay	Rs. In Cr	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	
Cl. Bal.	Rs. In Cr	34.43	31.97	29.51	27.05	24.59	22.13	19.67	17.22	14.76	12.30	9.84	7.38	4.92	2.46	-0.00	-0.00
O&M	Rs./kWh	0.734	0.777	0.821	0.866	0.918	0.970	1.025	1.081	1.146	1.212	1.281	1.351	1.432	1.514	1.600	1.687
Dep.	Rs./kWh	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
Term Loan Interest	Rs./kWh	0.020	0.018	0.017	0.015	0.014	0.013	0.011	0.010	0.009	0.007	0.006	0.005	0.003	0.002	0.001	0.000
Return on Equity	Rs./kWh	0.496	0.496	0.496	0.495	0.496	0.496	0.496	0.495	0.496	0.496	0.496	0.495	0.496	0.496	0.496	0.495
Interest on Working Capital	Rs./kWh	0.124	0.125	0.127	0.128	0.130	0.132	0.134	0.136	0.138	0.140	0.143	0.145	0.148	0.151	0.154	0.157
Total Fixed Charges	**Rs./kWh**	**1.584**	**1.626**	**1.671**	**1.714**	**1.768**	**1.821**	**1.877**	**1.932**	**2.000**	**2.066**	**2.136**	**2.205**	**2.290**	**2.373**	**2.461**	**2.548**
Discounting Rate		1.000	0.922	0.849	0.783	0.722	0.665	0.613	0.565	0.521	0.480	0.442	0.408	0.376	0.346	0.319	0.294
Discounted Fixed Charges	**Rs./kWh**	**1.584**	**1.499**	**1.419**	**1.342**	**1.276**	**1.211**	**1.151**	**1.091**	**1.041**	**0.991**	**0.945**	**0.899**	**0.860**	**0.822**	**0.785**	**0.750**
Levelised Fixed Charges	**Rs./kWh**	**1.099**															

GUJARAT INDUSTRIES POWER COMPANY LIMITED

Part-A: Summary of Environment Exp. as per New Environment Norms (Order and Execution details) Cut-off date 31.12.2023

Sr. No.	Vendor Name	Nature of Work	Order Value with Tax	Order Date	Execution wrt. With Tax	% Completion	Order Status	SUPP-1 Execution Value with Tax	SUPP-2 Execution Value with Tax	Interest at Avg. SBI MCLR + 200 basis point as per MYT 2016	
										SUPP-1	SUPP-2
1	Tangedco Infrastructure Limited (TNTC)	Online Continuous Emission Monitoring System	3,91,275	27-03-2020	3,91,275	100%	Closed	-	4,75,274		1,08,999
2	Hella Infragro Private Limited	ESP Fluid Refurbishment	9,81,14,390	16-07-2020	8,68,21,183	90%	Closed	72,23,316	3,10,36,943	73,78,225	2,59,80,246
3	Hella Infragro Private Limited	ESP Casing Refurbishment	1,81,71,145	02-08-2017	65,21,962	36%	Closed	21,83,478	17,44,588	20,36,320	44,12,604
4	Hella Infragro Private Limited	ESP Fluid Refurbishment	3,75,71,600	26-09-2017	3,51,12,672	93%	Closed	1,78,65,567	1,76,41,908	1,09,67,401	2,09,38,997
5	Hella Infragro Private Limited	ESP Fluid Refurbishment	6,80,21,740	20-11-2019	6,30,80,434	93%	Closed	5,59,72,180	4,50,17,468	92,05,429	2,26,39,857
6	Hella Infragro Private Limited	ESP Casing Refurbishment	7,16,03,841	30-08-2019	7,16,03,500	100%	Closed	97,57,356	5,19,97,846	38,36,063	91,46,704
7	Unitech Technocrats Pvt. Ltd. (Ahmedabad)	Remote Calibration System Of Online Continuous Emission Monitoring System	8,35,200	27-03-2020	8,35,200	100%	Closed	-	8,65,230	-	1,13,549
8	Associated Engineers Vadodara (Guj.)	Consultancy For New Limestone Shed	7,31,400	15-04-2020	7,31,400	100%	Closed	-	7,13,400	-	1,53,155
9	Hella Infragro Private Limited	ESP Fluid Refurbishment	5,56,09,941	25-04-2020	3,80,92,177	97%	Closed	1,89,91,477	-	1,68,14,892	-
10	Unison Engineers	ESP Fluid Refurbishment	6,82,31,028	25-04-2020	6,24,04,132	91%	Closed	-	3,09,00,932	29,129	1,91,81,227
11	Pravin Civil Engineers, Udhna, Surat (Guj)	Supply Of 5.0Hp 350Nm Abs Compressor Motor	26,90,411	24-03-2020	26,90,411	100%	Closed	26,90,411	-	6,55,411	-
12	HELIOS INFRAPRO PRIVATE	Spares Supply	19,60,787	21-01-2020	19,60,787	100%	Closed	19,60,787	-	5,40,770	-
13	M. K. Soil Testing Laboratory, Ahmedabad (Guj)	Soil Investigation For New Limestone Shed	53,718	26-02-2020	53,718	100%	Closed	-	53,718	-	10,924
14	Rishikesh Structural Solutions Ltd.Vadodara (Guj)	Structure And Sheeting For New Limestone Shed	5,91,45,175	15-01-2020	5,91,45,175	100%	Closed	-	5,91,45,175	-	1,29,57,647
15	ARCHIVEL	Work order for Carrying out Computational Fluid Dynamics (CFD) analysis for Boiler for Five parameters	9,99,356	19-08-2021	9,94,356	100%	Closed	9,94,356	-	2,05,305	-
16	Sheera Construction, Navi Nivadi (Guj)	Civil & Electrical for New Limestone Shed	1,83,03,320	27-03-2020	1,82,52,797	99%	Closed	-	1,82,52,797	-	21,74,077
17	G. Sridar	Hiring special services/Consultancy of Ex-IRS, Expert including but not limited to Air Pre-Heater Gas Distribution Test at IGPCL SLRP	91,850	26-08-2021	84,500	92%	Closed	84,500	-	20,363	-
18	ARCHIVEL	Work order for to carrying out Gas Distribution Test (GD Test) for Seven (Five Tier plus 2 APH	4,19,400	08-10-2021	3,96,600	95%	Closed	3,96,600	-	60,908	-
19	Dipti Metal Engineering & Construction Company Pvt. Ltd.	ESP Casing Refurbishment	7,80,14,000	16-05-2022	7,80,14,000	100%	Running Order	1,24,83,240	1,77,04,235	9,80,668	13,09,477
20	Hella Infragro Private Limited	ESP Fluid Refurbishment	9,03,71,600	14-06-2022	7,70,00,000	85%	Running Order	6,70,00,000	1,00,00,000	2,14,31,007	60,59,366
21	G. Sridar	Hiring special services/Consultancy for IGPCL Team and its compliance of Pre-heater emission standards & improvement in ESP performance	1,20,000	31-05-2022	1,20,000	100%	Running Order	-	1,20,000	-	23,657
22	M/s. R. Engineering	Hiring of heavy duty platforms and FGD leakage attending work in ESP	2,27,850	13-05-2022	2,27,850	100%	Closed	2,27,850	-	45,688	-
23	Unison Engineers	Work order for supply and erection activities including ESP casing and hopper duct of ESP in Unit#2 to 4	12,47,200	09-05-2022	12,47,200	100%	Closed	12,47,200	-	1,90,057	-
24	Archivel	Work order for supply and erection activities including ESP casing and hopper duct of ESP in Unit#2 to 4	1,19,800	23-05-2022	1,19,800	100%	Closed	-	1,19,800	-	16,062
25	HELIOS INFRAPRO PRIVA	Spares Supply	30,16,080	22-03-2021	30,16,080	100%	Closed	30,16,080	-	5,91,961	-
26	UNITECH ENGINEERS	Spares Supply	9,93,715	25-09-2021	9,93,715	100%	Closed	9,93,715	-	35,139	-
27	SHRI HARIGOPAL ENGINEERING WORKS	Spares Supply	2,33,126	23-09-2021	2,33,126	100%	Closed	2,33,126	-	8,390	-
28	HELIOS INFRAPRO	Spares Supply	1,97,263	26-10-2021	1,97,263	100%	Closed	1,97,263	-	-	-
29	SHRI HARIGOPAL ENGINEERING WORKS	Spares Supply	31,01,730	26-10-2021	31,01,730	100%	Closed	31,01,730	-	11,176	-
30	SHRI HARIGOPAL ENGINEERING WORKS	Spares Supply	1,08,716	27-10-2021	1,08,716	100%	Closed	1,08,716	-	3,917	-
31	G. Sridhar	Hiring a Hydra boiler for carry out FGD leakage attending work in ESP	17,55,041	23-02-2022	17,50,835	100%	Closed	7,01,255	3,41,620	37,351	18,453
32	CAPITAL NOTE DTD 23.09.2021_LOA5_39.2(b)	MECHANICAL SUPPLY against MIV issued from stores (Against Capital AUC code)	6,77,868	23-09-2021	6,77,868	100%	Closed	-	6,77,868	-	41,389
33	CAPITAL NOTE DTD 28.02.2018 (LOA5_34.E.4A)	MECHANICAL SUPPLY against MIV issued from stores (Against Capital AUC code)	11,74,648	30-07-2018	11,74,648	100%	Closed	11,74,648	-	11,730	-
34	CAPITAL NOTE DTD 24.09.2019_LOA7_34.34.5A)	MECHANICAL SUPPLY against MIV issued from stores (Against Capital AUC code)	14,31,985	24-09-2019	14,31,985	100%	Closed	14,31,985	-	3,05,990	-
35	FGD MVs of FY 2018-19	Items through MVs	90,16,480	FY 2018-19	90,16,480	100%	Closed	34,92,944	24,70,186	15,74,163	11,80,440
36	FGD MVs of FY-2019-20	Items through MVs	1,29,84,115	FY 2019-20	1,29,84,115	100%	Closed	35,23,022	50,67,104	12,16,402	23,12,477
37	FGD MVs of FY-2020-21	Items through MVs	1,56,73,865	FY 2020-21	1,56,73,865	100%	Closed	1,07,27,943	33,05,958	21,74,587	18,83,311
38	FGD MVs of FY-2021-22	Items through MVs	1,85,01,696	FY 2021-22	1,85,01,696	100%	Closed	18,16,707	1,02,24,900	8,63,184	25,62,621
39	FGD MVs of FY-2022-23	Items through MVs	3,04,71,626	FY 2022-23	3,04,71,626	100%	Closed	1,74,97,405	1,21,98,429	27,76,266	18,93,892
40	FGD MVs of FY-2023-24	Items through MVs	2,25,41,299	FY 2023-24	2,25,41,299	100%	Closed	2,17,73,460	1,09,92,909	7,12,339	6,94,112
		Total Amount	77,95,77,698		70,64,35,063			35,09,85,447	35,54,49,622	8,60,18,037	12,08,09,479

SBI 1 Year MCLR Interest Rate	
Fin. Year	Avg. Rate of Interest at 12 Months
FY 2017-18	8.62
FY 2018-19	8.81
FY 2019-20	8.90
FY 2020-21	8.59
FY 2021-22	8.16
FY 2022-23	7.05
FY 2023-24	7.66
FY 2024-25	9.17

S03

Subject: Petition Nos. 2003 and 2175
Date: Monday, 10 March 2025 at 6:20:49 PM India Standard Time
From: S V Mani - Commercial
To: D. R. Parmar
CC: Wasim Ansari, K K Bhatt, K L Shah - Commercial

Dear Sir,

As discussed today, it is requested to schedule early hearing on our Petition Nos. 2003/2021 and 2175/2022 for which GIPCL has completed its submissions long time back and now awaits Hon'ble Commission's approval.

GIPCL has incurred huge expenditure on the matters involved in above Petitions and carrying cost is increasing. GIPCL is currently implementing large Projects simultaneously and quick approval will ease the financial burden.

With Kind Regards,

S.Mani
AGM(Commercial & Legal)
GIPCL

Legal

G.E.R.C.
Inward No. 1249
Date: 11 MAR 2025

Addl. Secy/Exe(L)
FYA.
11/3/2025

From: S V Mani - Commercial
Sent: 18 January 2025 12:43
To: Wasim Ansari; bjshah@gercin.org; varun@gercin.org
Cc: drparmar@gercin.org
Subject: Early Hearing on GIPCL Petition Nos. 2003 and 2175

Dear Sir,

It is requested to kindly arrange early hearing on our Petition Nos. 2003/2021 and 2175/2022, on which submissions have been completed and now await Hon'ble Commission's approval.
GIPCL has deployed huge amount of funds on the subject matters and therefore looking for quick commencement of recovery by way of tariff adjustment.

Regards,

S.Mani
AGM(Commercial & Legal)
GIPCL

for kind perusal pl.
- Hon'ble Chairman
- " Member
- " Member
- Secretary

12/3/25

From: S V Mani - Commercial
Sent: 30 November 2024 17:25
To: secretary@gercin.org
Cc: 'Wasim Ansari' <wasim@gercin.org>; 'drparmar@gercin.org' <drparmar@gercin.org>
Subject: Request to Schedule Early Hearing on GIPCL Petitions

Respected Sir,

S04

GIPCL is Power Generating entity functioning under Energy & Petrochemicals Deptt. , Govt. of Gujarat. GIPCL has filed following Petitions in GERC:

1. Petition No. 2003 of 2021 related to regulatory approval for additional Project Cost for GIPCL's 100 MW Raghanesda Solar Power Plant due to " Change in Law" event i.e. Imposition of Safeguard Custom Duty on the Import of Solar PV Modules for the Project.
2. Petition No. 2175 of 2022 related to regulatory approval for additional expenditure to " Change in Law" event i.e. modification in Power Plant Boilers of 250 MW SLPP-I and 250 MW SLPP-II to comply with Revised Emission Norms, 2015 .

GUVNL is the Respondent in both the Petitions and GIPCL has completed its submissions to GUVNL and Hon'ble Commission on both the matter. It is therefore requested for early hearing on the above Petitions and approval.

With Kind Regards,

S.Mani
AGM (Commercial & Legal)
GIPCL

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****

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****

BEFORE THE GUJARAT ELECTRICITY REGULATORY COMMISSION AT GANDHINAGAR
PETITION NO. 2175 OF 2023

IN THE MATTER OF:

Gujarat Industries Power Company Limited (GIPCL) ..Petitioner

Versus

Gujarat Urja Vikas Nigam Ltd. (GUVNL) ..Respondent

AFFIDAVIT OF SERVICE

Reg. No. 6135
Date: 03/09/25

I, Satyanarayan Mani son of Balasubramani Vaidyanathan Iyer aged about 57 years, resident of Vadodara, do hereby solemnly affirm and state as under:

1. I say that I am the Addl. General Manager (Commercial & Legal) in the Petitioner Company (GIPCL) and I am competent to swear the present affidavit.

2. I say that pursuant to Daily Order 1.9.2025 by this Hon'ble Commission, GIPCL has caused publication of Public notice in two daily Gujarat Newspaper (i.e. Sandesh and Jansatta) and one English Newspaper (i.e. The Times of India) on 3.9.2025. The copies of the relevant extracts of the newspapers with the said notices are attached hereto and marked as **Annexure A (Colly).**

G.E.R.C.
Inward No. 4351
Date: 6 SEP 2025
Legal | Tech.
Tariff | Admin
Regulatory | Engg.
IT

3. I say that the Petition has been uploaded along with all documents on the website of the Petitioner.

4. I say that the compliance affidavit for relevant details /documents /information /justification as asked in the present matter will be filed separately.

ADLegal/Engg PMA Accts 6/9/25.

5. I say that the above is in compliance with the directions of the Hon'ble Commission.

SOLEMNLY AFFIRMED/ DECLARED/
SWORN BEFORE ME BY S. Mani
ILA C. PAREKH
NOTARY 03/09/25

Satyanarayan

DEPONENT

VERIFICATION:

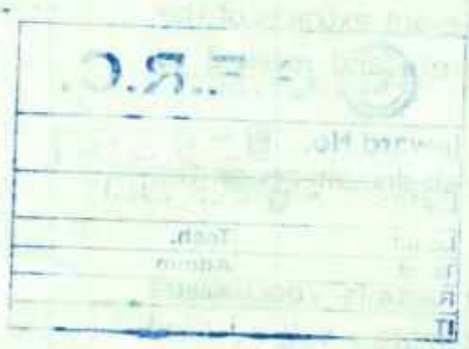
I, the deponent above named do hereby verify that the contents of my above affidavit are based on the records maintained by the Petitioner in normal course, no part of it is false and nothing material has been concealed therefrom.

Verified at Vadodara on this 3rd day of September 2025.

Satyanarayan

DEPONENT





સરકાર અર્થતંત્રને ૮ ટકાથી વધુ વૃદ્ધિ દર આપવા પર ધ્યાન કેન્દ્રિત કરશે

આગામી વર્ષ ૨૭ માટે બજેટ તૈયાર કરવાની પ્રક્રિયા ૯ ઓક્ટો.થી શરૂ

નાણા મંત્રાલયે માહિતી આપી: રાજકોષીય ખાધ કુલ સ્થાનિક ઉત્પાદન ના ૪.૪ ટકા હોવાનો અંદાજ

નવી દિલ્હી,તા.૨

બજેટ ૨૦૨૬: નાણા મંત્રાલય ૯ ઓક્ટોબરથી ૨૦૨૬-૨૭ માટે વાર્ષિક બજેટ તૈયાર કરવાની પ્રક્રિયા શરૂ કરશે. આ માહિતી મંગળવારે સરકારે આપી હતી. આગામી નાણાકીય વર્ષના બજેટમાં, સરકાર અર્થતંત્રને ૮ ટકાથી વધુ વૃદ્ધિ દર આપવા પર ધ્યાન કેન્દ્રિત કરશે.

નાણા મંત્રાલય ૯ ઓક્ટોબરથી ૨૦૨૬-૨૭ માટે વાર્ષિક બજેટ તૈયાર કરવાની પ્રક્રિયા શરૂ કરશે. આ માહિતી મંગળવારે સરકારે આપી હતી. ભૌગોલિક રાજકીય અનિશ્ચિતતાઓ અને ભારતમાંથી આયાત કરાયેલા માલ પર અમેરિકા દ્વારા લાદવામાં આવેલા ૫૦ ટકાના ભારે ટેરિફને ધ્યાનમાં રાખીને, આગામી નાણાકીય વર્ષ માટેનું બજેટ



ખૂબ જ મહત્વપૂર્ણ છે.આગામી નાણાકીય વર્ષના બજેટમાં, સરકાર માંગ વધારવા, રોજગારીનું સર્જન કરવા અને અર્થતંત્રને ૮ ટકાથી વધુ વૃદ્ધિ દર આપવા પર ધ્યાન કેન્દ્રિત કરશે. સરકારનો અંદાજ છે કે ચાલુ નાણાકીય વર્ષ દરમિયાન ભારતીય અર્થતંત્ર ૬.૩-૬.૮ ટકાની વચ્ચે વૃદ્ધિ પામશે. આર્થિક બાબતોના વિભાગના બજેટ પરિપત્ર (૨૦૨૬-૨૭) અનુસાર, "સચિવ (વ્યય) ની અધ્યક્ષતામાં પૂર્વ-બજેટ બેઠકો ૯ ઓક્ટોબર, ૨૦૨૫ થી શરૂ થશે."પરિપત્ર મુજબ, નાણાકીય સત્તાધારીઓએ ખાતરી કરવી જોઈએ કે પરિશિષ્ટ થી ૬ માં જરૂરી વિગતો ૩ ઓક્ટોબર, ૨૦૨૫ ના રોજ અથવા તે પહેલાં યોગ્ય રીતે કાઉલ કરવામાં આવે. ફોસ વર્કિંગ માટે નિર્ધારિત ફોર્મેટમાં ડેટાની હાર્ડ કોપી પૂરી પાડવી જોઈએ." ૨૦૨૬-૨૭ માટે બજેટ અંદાજોને પૂર્વ-બજેટ બેઠકો પૂર્ણ થયા પછી અંતિમ સ્વરૂપ આપવામાં આવશે. સુધારેલા અંદાજ સંબંધિત બેઠકો નવેમ્બર ૨૦૨૫ ના મધ્ય સુધી ચાલુ રહેશે. પરિપત્રમાં કહેવામાં આવ્યું છે કે તમામ મંત્રાલયો-વિભાગોએ સ્વાયત્ત સંસ્થાઓ-અમલીકરણ એજન્સીઓની વિગતો સમયસર કરવી જોઈએ. આ માટે એક સમર્પિત બંદોબસ્ત બનાવવામાં આવ્યું છે. સંસદના બજેટ સત્રના પહેલા ભાગ દરમિયાન ૧ ફેબ્રુઆરીએ બજેટ ૨૦૨૬-૨૭ રજૂ થવાની સંભાવના છે.

સરકારે ચાલુ નાણાકીય વર્ષના બજેટમાં નજીવા પોરણે ૧૦.૧ ટકાનો વિકાસ દર અંદાજ્યો છે. બીજી તરફ, રાજકોષીય ખાધ કુલ સ્થાનિક ઉત્પાદન ના ૪.૪ ટકા હોવાનો અંદાજ છે. વડાપ્રધાન નરેન્દ્ર મોદીના નેતૃત્વ હેઠળની સરકારે વસાહતી યુગનો અંત લાવ્યો છે ફેબ્રુઆરીના અંતમાં બજેટ રજૂ કરવાની પરંપરા. તત્કાલીન નાણામંત્રી અરુણ જેટલીએ સૌપ્રથમ ૧ ફેબ્રુઆરી, ૨૦૧૭ ના રોજ વાર્ષિક બજેટ રજૂ કર્યું હતું. બજેટની આગોતરી રજૂઆત સાથે, હવે મંત્રાલયોને એપ્રિલથી શરૂ થતા નાણાકીય વર્ષની શરૂઆતથી જ બજેટરી ભંડોળ ફાળવવામાં આવે છે. આનાથી સરકારી વિભાગોને ખર્ચ કરવા માટે વધુ સમય મળે છે. તે કંપનીઓને વ્યવસાય અને કરવેરા યોજનાઓને અનુકૂલિત કરવા માટે પણ સમય આપે છે.

નેસ્લેએ કહ્યું, મૂલ્યો અને સિદ્ધાંતોનું અમારા માટે ઘણું મહત્ત્વ

નેસ્લેએ તેના CEO લોરેન્ટ ફ્રિક્સને કાઢી મૂક્યા:કર્મચારી સાથે અફેર હતું

મુંબઈ,,તા.૨

ફૂડ્સ કંપની નેસ્લેએ તેના ચીફ એક્ઝિક્યુટિવ ઓફિસર લોરેન્ટ ફ્રિક્સને બરતરફ કર્યા છે. ફ્રિક્સ સામે આ કાર્યવાહી તેમના એક કર્મચારી સાથે પ્રેમસંબંધ રાખવા બદલ કરવામાં આવી છે.

સોમવારે એક સમાચાર પ્રકાશનમાં આ માહિતી આપતાં કંપનીએ કહ્યું હતું કે તેમણે આ બાબત વિશે કંપનીને જાણ પણ કરી ન હતી, જે નિયમોનું ઉલ્લંઘન છે. ફ્રિક્સના સ્થાને કંપનીએ ફિનિયર વાઈસ-પ્રેસિડેન્ટ અને નેસ્લેના કોફી સ્ટ્રેટેજિક બિઝનેસ યુનિટના વડા ફિલિપ નવરાતિલને નવા સીઈઓ તરીકે નિયુક્ત કર્યા છે.આ પહેલાં એસ્ટ્રોનોમર એન્ડી બ્રાયન્ટ તેમની ઝૌઈ ડેડ સાથે એક કોન્સર્ટમાં જોવા મળ્યા હતા. આ પછી તેમને રાજીનામું આપવું પડ્યું હતું.કંપનીએ કહ્યું, આ કાર્યવાહી જરૂરી હતી નેસ્લેએ જણાવ્યું હતું કે



ફ્રિક્સને બરતરફ કરવાનો નિર્ણય એક તપાસ બાદ લેવામાં આવ્યો હતો, જેમાં જાણવા મળ્યું હતું કે તેમનો ડિરેક્ટર સબઓર્ડિનેટ સાથે પ્રેમસંબંધ હતો. આ તપાસ કંપનીના ચેરમેન પોલ બલ્કે અને લીડ ડિરેક્ટર પાબ્લો ઈસ્લા દ્વારા બહારના વકીલોની મદદથી કરવામાં આવી હતી, "આ નિર્ણય જરૂરી હતો. નેસ્લેનાં મૂલ્યો અને સિદ્ધાંતો અમારા માટે ઘણું મહત્ત્વ ધરાવે છે. હું લોરેન્ટનો તેમની સેવા માટે આભાર માનું છું,"લોરેન્ટ ફ્રિક્સ ૪૦ વર્ષથી કંપનીમાં કામ કરી રહ્યા હતા લોરેન્ટ ફ્રિક્સને ચાર વર્ષ જ ચીફ એક્ઝિક્યુટિવ તરીકે નિયુક્ત કરવામાં આવ્યા હતા, જ્યારે ૨૦૨૨ની શરૂઆતથી નેસ્લેનો સ્ટોક લગભગ ૪૦% ઘટ્યો હતો. યુરોપ અને અમેરિકામાં વજન ઘટાડવાની દવાઓના કારણે લોકોની ખાવાની આદતો બદલાઈ રહી હતી.

બિઝનેસ આજકાલ

બોટના IPO ને SEBIની મંજૂરી મળી: કંપની ઇશ્યૂ લાવી શકે છે

મુંબઈ : લિસ્ટમોરિટીઝ એન્ડ એક્સચેન્જ બોર્ડ ઓફ ઈન્ડિયા એ સ્પીકર્સ અને અન્ય ઈલેક્ટ્રોનિક ગેજેટ્સનું ઉત્પાદન કરતી કંપની બોટના પ્રારંભિક જાહેર ઓફર ને મંજૂરી આપી છે. બજાર નિયમનકારે બોટ, અર્ગન કંપની, જયુનિયર ગ્રીન એનર્જી લિમિટેડ સહિત કુલ ૧૩ કંપનીઓના IPO ને મંજૂરી આપી છે. બોટની પેરેન્ટ કંપની ઈમેજિન માર્કેટિંગ લિમિટેડે ૮ એપ્રિલના રોજ IPO માટે ડ્રાફ્ટ પેપર્સ ફાઈલ કર્યા હતા. આ મુદ્દો ૨૦૦૦ કરોડ રૂપિયાનો હોઈ શકે છે IPOનું કુલ કદ ૨,૦૦૦ કરોડ રૂપિયા હોઈ શકે છે. આમાં, કંપની ૯૦૦ કરોડ રૂપિયાના નવા શેર જાહેર કરી શકે છે. બાકીના ૧૧૦૦ કરોડ રૂપિયાના શેર કંપનીના હાલના રોકાણકારો દ્વારા OFS દ્વારા વેચવામાં આવશે. કંપનીએ ૨૦૨૨માં IPO માટે પણ અરજી કરી હતી અગાઉ, કંપનીએ ૨૦૨૨માં રૂ. ૨,૦૦૦ કરોડના IPO માટે અરજી કરી હતી. જોકે, પ્રતિકૂળ બજાર પરિસ્થિતિઓને કારણે કંપનીએ તેનું IPO અરજી પાછી ખેંચી લીધી હતી. તે સમયે, લિસ્ટિંગને બદલે, બોટે $૯૦ મિલિયન એટલે કે લગભગ રૂ. ૫૨૦ કરોડ ખાનગી ભંડોળ એકત્ર કરવાનો વિકલ્પ પસંદ કર્યો હતો.

ઓનલાઈન ખરીદી વધતા UPI વ્યવહાર ૨૦ અબજને પાર

મુંબઈ : તહેવારો નિમિત્તે ઓનલાઈન ખરીદીમાં વધારો થતા ઓગસ્ટમાં યુનિફાઈડ પેમેન્ટસ ઈન્ટરફેસ (યુપીઆઈ) પ્લેટફોર્મ મારફતના વ્યવહાર જુલાઈની સરખામણીએ ત્રણ ટકા વધી ૨૦.૦૧ અબજ રહ્યા હતા. જુલાઈમાં આ આંકડો ૧૯.૪૩ અબજ રહ્યો હતો. મૂલ્યની દ્રષ્ટિએ વ્યવહારોનો આંક ૧ ટકા વધી રૂપિયા ૨૪.૮૫ ટ્રિલિયન રહ્યો હતો જે જુલાઈમાં રૂપિયા ૨૫.૦૮ ટ્રિલિયન જોવા મળ્યો હતો એમ નેશનલ પેમેન્ટસ કોર્પોરેશન ઓફ ઈન્ડિયા (એનપીસીઆઈ) દ્વારા જારી કરાયેલ ડેટામાં જણાવાયું હતું. ઓગસ્ટમાં યુપીઆઈ મારફત વ્યવહારની દૈનિક સરેરાશ ૬૪.૫૦ કરોડ રહી હતી જે જુલાઈમાં ૬૨.૮૦ કરોડ જોવા મળી હતી. મૂલ્યની દ્રષ્ટિએ દૈનિક સરેરાશ આંક રૂપિયા ૮૦૯૧૯ કરોડ પરથી વધી રૂપિયા ૮૦૧૭૩ કરોડ રહ્યો હતો. ગયા વર્ષના ઓગસ્ટની દ્રષ્ટિએ યુપીઆઈ વ્યવહારમાં વોલ્યુમની દ્રષ્ટિએ ૩૪ ટકા અને મૂલ્યની દ્રષ્ટિએ ૨૧ ટકા વધારો થયાનું પણ પ્રાપ્ત ડેટામાં જણાવાયું હતું. તહેવારોની મોસમ દરમિયાન ઉપભોગમાં વધારો થયાનું વ્યવહારની સંખ્યા પરથી કહી શકાય એમ છે.

ઉત્તરપ્રદેશના લાખો આઉટસોર્સ કર્મચારીઓને પગાર વધારો

લખનૌ : ઉત્તરપ્રદેશના લાખો આઉટસોર્સ કર્મચારીઓ માટે ગુડ ન્યૂઝ છે. રાજધાની લખનઉમાં યોગી આદિત્યનાથ કેબિનેટની બેઠકમાં યુપી આઉટસોર્સિંગ સર્વિસ કોર્પોરેશન બનાવવાની દરખાસ્તને મંજૂરી આપવામાં આવી છે.પ્રસ્તાવ અનુસાર પોર્ટલ દ્વારા સર્વિસ પ્રોવાઈડર રાખવામાં આવશે. ન્યુનતમ વેતનમાન ૧૬,૦૦૦ રૂપિયાથી લઈને ૨૦,૦૦૦ રૂપિયા સુધી, એજન્સીની નિયુક્તિ ૩ વર્ષના સમયગાળા માટે કરવામાં આવશે. કોર્પોરેશનની રચના બાદ આઉટસોર્સ કર્મચારીઓનો પગાર સીધો તેમના ખાતામાં જશે. યુપી આઉટસોર્સિંગ સેવા નિગમની રચના બાદ આઉટસોર્સ કર્મચારીઓને મહિનામાં ૧થી ૫ તારીખ વચ્ચે સેલરી આપવામાં આવશે. બેઠક બાદ કેબિનેટ મંત્રી સુરેશ ખન્નાએ આ વાત જણાવતા કહ્યું કે આઉટસોર્સિંગના માધ્યમથી કરનારી ભરતીઓમાં આરક્ષણની વાત કરવામાં આવી છે. જેમાં એસસી, એસટી, મહિલા , દિવ્યાંગ દરેકનું આરક્ષણ થશે, રચના હેઠળ આઉટસોર્સ કર્મીઓને એક મહિનામાં ૨૯ દિવસની સેવા આપવાની રહેશે.

ટીસીએસ કર્મચારીઓના પગારમાં ૭% સુધીનો વધારો કર્યો

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દેશની સૌથી મોટી IT સેવા પ્રદાતા કંપની ટાટા કન્સલ્ટન્સી સર્વિસીસ એ તેના કર્મચારીઓ માટે પગાર વધારાની જાહેરાત કરી છે. સૂત્રોના જણાવ્યા અનુસાર, કંપનીએ મોટાભાગના કર્મચારીઓને ૪.૫ થી ૭ ટકાનો પગાર વધારો આપ્યો છે. આ માટે, સોમવારે મોડી રાતથી કર્મચારીઓને પગાર વધારા પત્રો મોકલવાનું શરૂ થયું છે, અને આ સુધારેલ પગાર સપ્ટેમ્બર મહિનાથી લાગુ થશે.

સૂત્રોએ જણાવ્યું હતું કે આ પગાર વધારો મુખ્યત્વે નીચલા અને મધ્યમ સ્તરના કર્મચારીઓ પર કેન્દ્રિત છે, જેઓ કંપનીના સંચાલન અને પ્રોજેક્ટ ડિલિવરીનો મહત્વપૂર્ણ ભાગ છે. આ સાથે, જે કર્મચારીઓ સારું પ્રદર્શન કરે છે તેમને પણ ૧૦ ટકાથી વધુનો વધારો આપવામાં આવ્યો છે. જ્યાં આ આ નિર્ણયને કંપનીની ફ્રેશર વ્યૂહરચનાનો એક મહત્વપૂર્ણ ફેરફાર માનવામાં આવી રહ્યો છે. નોંધનીય છે કે બીજા મહિના પહેલા કંપનીએ અસ્થિર બજાર પરિસ્થિતિઓને કારણે પગાર વધારો મુલતવી રાખવાની જાહેરાત કરી હતી. આ પછી, અચાનક લગભગ ૧૨,૦૦૦ કર્મચારીઓ, એટલે કે લગભગ ૨ ટકા કર્મચારીઓની છટણીના સમાચાર આવ્યા. જોકે, પાછળથી કંપનીએ કર્મચારીઓનું મનોબળ જાળવવા અને પ્રતિભા જાળવી રાખવા માટે ૮૦ટકા કર્મચારીઓના પગાર વધારાની જાહેરાત કરી.

ટાટા ગ્રુપની આ મુખ્ય કંપની વૈશ્વિક સ્તરે ૬ લાખથી વધુ લોકોને રોજગારી આપે છે,

બેંકિંગ અને આઈટી શેરોમાં વેચવાલી જોવા મળી

સેન્સેક્સ ૨૦૬ પોઈન્ટ ઘટીને ૮૦,૧૫૭.૫૨ બંધ:નિફ્ટી પણ ૪૫ પોઈન્ટ ઘટાડો નોંધાયો

સેન્સેક્સના ૩૦ શેરમાંથી ૧૫ શેરમાં ઘટાડો અને ૧૫ શેરમાં તેજી રહી

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આજે અઠવાડિયાના બીજા ટ્રેડિંગ દિવસે, એટલે કે મંગળવાર, ૨ સપ્ટેમ્બરના રોજ, સેન્સેક્સ ૨૦૬ પોઈન્ટ ઘટીને ૮૦,૧૫૭.૫૨ પર બંધ થયો. નિફ્ટી પણ ૪૫ પોઈન્ટ ઘટીને ૨૪,૫૩૯.૫૨ પર બંધ થયો.

સેન્સેક્સના ૩૦ શેરમાંથી ૧૫ શેરમાં ઘટાડો અને ૧૫ શેરમાં તેજી રહી. આજે આઈટી, બેંકિંગ અને ઓટો શેરોમાં સૌથી વધુ ઘટાડો થયો. જ્યારે ઊર્જા અને એફએમસીજી શેરોમાં વધારો થયો.

એશિયન બજારોમાં, જાપાનનો નિક્કેઈ ૦.૨૫% ચઢીને ૪૨,૨૯૨ પર અને કોરિયાનો કોસ્પી ૦.૯૬% વધીને ૩,૧૯૩ પર કારોબાર કરી રહ્યો છે.

હોંગકોંગનો હેંગ સેંગ ઈન્ડેક્સ ૦.૦૮૨% ઘટીને ૨૫,૫૯૬ પર અને ચીનનો શાંઘાઈ કમ્પોઝિટ ૦.૯૧% ઘટીને ૩,८૭૬ પર બંધ રહ્યો હતો.

૨૯ ઓગસ્ટના રોજ, યુએસ ડૉલ જોન્સ



૦.૨૦% ઘટીને ૪૫,૫૪૫ પર બંધ થયો. નાસ્ડેક કમ્પોઝિટ ૧.૧૫% અને જી૫ ૫૦૦ ૦.૬૪% ઘટાડો રહ્યો.

૧ સપ્ટેમ્બરના રોજ ૪,૩૪૫ કરોડના શેર ખરીદ્યા ૧ સપ્ટેમ્બરના રોજ, વિદેશી રોકાણકારો એ રોકડ સેગમેન્ટમાં ૩,૧,૪૨૯.૭૧કરોડના શેર વેચ્યા હતા. તેમજ, સ્થાનિક રોકાણકારો એ ૩,૪૪.૯૩ કરોડની નેટ ખરીદી કરી હતી.

ઓગસ્ટ મહિનામાં, વિદેશી રોકાણકારોએ ૪૬,૯૦૨.૬૨ કરોડના શેર વેચ્યા હતા. આ દરમિયાન સ્થાનિક રોકાણકારોએ ૬૪,૮૨૮.૫૫ કરોડની નેટ ખરીદી કરી હતી. ગઈકાલે બજારમાં ૫૫૫ પોઈન્ટનો ઉછાળો જોવા મળ્યો હતો

અઠવાડિયાના પહેલા ટ્રેડિંગ દિવસે, સોમવાર, ૧ સપ્ટેમ્બર, સેન્સેક્સ ૫૫૫ પોઈન્ટ વધીને ૮૦,૩૬૪ પર બંધ થયો. નિફ્ટી પણ ૧૯૮ પોઈન્ટ વધીને ૨૪,૬૨૫ પર ટ્રેડ થઈ રહ્યો હતો. સેન્સેક્સના ૩૦ શેરોમાંથી ૨૩ શેરો વધ્યા અને ૭ ઘટ્યા. મહિન્દ્રા અને ટાટા મોટર્સ સહિત કુલ ૧૬ શેરો ૧.૧૫% થી૩.૫૦% સુધીની તેજી રહી. સન ફાર્મા લગભગ ૨% ઘટીને બંધ થયા.

નિફ્ટીના ૫૦ શેરમાંથી ૪૨ શેર વધ્યા, ૫ શેર ઘટીને બંધ થયા. ફ્રન્ટલાઈનો ઓટો ઈન્ડેક્સ ૨.૮૦%, કન્ઝ્યુમર ડ્યુરેબલ્સ ૨.૦૬%, ફાઈનાન્શિયલ સર્વિસિસ ૧.૮૧%, મેટલ ૧.૬૪% અને આઈટી ઈન્ડેક્સ ૧.૫૯% વધ્યો. બીજીબાજુ બેંક અને ફાર્મા ઈન્ડેક્સમાં ઘટાડો રહ્યો હતો.

સુધારો ખાસ કરીને નાના રોકાણકારો અને વિદેશી ખાતા ધરાવતા વ્યાવસાયિકો માટે

કાળા નાણાંના નિયમોમાં રાહત, નવો ફેરફાર જાહેર કરવામાં આવ્યો

મર્યાદા માત્ર ૫ લાખ હતી, હવે ફાઇનાન્સ એક્ટ ૨૦૨૪ દ્વારા વધારીને ૨૦ લાખ કરાઈ

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સેન્ટ્રલ બોર્ડ ઓફ ડાયરેક્ટ ટેક્સ એ કાળાં નાણાં અને કરવેરા લાદવાના કાયદા, ૨૦૧૫ બ્લેક મની એક્ટહેઠળના નિયમોમાં નવો ફેરફાર જાહેર કર્યો છે. હવે સ્થાવર મિલકત સિવાય, ૨૦ લાખ સુધીની વિદેશી નાણાકીય સંપત્તિ જો જાહેર કરવાની રહી જાય તો કરદાતાઓને દંડ અથવા કાયદાકીય કાર્યવાહીનો સામનો કરવો નહીં પડે. આ સુધારો ખાસ કરીને નાના રોકાણકારો અને વિદેશી ખાતા ધરાવતા વ્યવસાયિકો માટે મહત્વનો છે.પરિપત્ર મુજબ, બ્લેક મની એક્ટની કલમ ૪૨ અને ૪૩ હેઠળ દંડ લાદવામાં નહીં આવે, તો કલમ ૪૯ અને ૫૦ મુજબ કાયદેસરની કાર્યવાહી પણ નહીં કરાય. જો કે, નવી મર્યાદા અનુસાર, નાણાકીય વર્ષ દરમિયાન કુલ જાહેર નહીં કરાયેલી વિદેશી નાણાકીય સંપત્તિનું મૂલ્ય ૨૦ લાખથી ઓછું હોવું જરૂરી છે. તો જ કાયદેસરની કાર્યવાહી સામે ઈમ્યુનિટી મળશે.

અગાઉ આ મર્યાદા માત્ર ૫ લાખ હતી, જે હવે ફાઈનાન્સ (નં. ૨) એક્ટ ૨૦૨૪ દ્વારા વધારીને ૨૦ લાખ કરાઈ છે.આ સુધારો ખાસ કરીને વૈશ્વિક સ્તરે કામ કરતા ભારતીય વ્યવસાયિકો, પગારદારો, એનઆરઆઈ અને વૈશ્વિક રોકાણકારો માટે રાહતરૂપ છે. ચાર્ટર્ડ એકાઉન્ટન્ટ અને 'ટ્ર ફાઈનાન્સ'ના પર્સનલ ટેક્સ વિભાગના વડાં નિપતિ શાહનું કહેવું છે, 'આ રાહત વિદેશી બેંક ખાતા, ESOPs, મ્યુચ્યુઅલ ફંડ, પેન્શન યોજનાઓ જેવી નાણાકીય સંપત્તિઓને આવરી લે છે, જ્યારે વિદેશી સ્થાવર મિલકત હજુ પણ આ મુક્તિની બહાર રહેશે.'

UPI અને ATM થી PFના નાણાં ઉપાડી શકાશે:તૈયારીઓ પુર્ણ

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કર્મચારી ભવિષ્ય નિધિ સંગઠન (EPFO) ટૂંક સમયમાં તેની નવી ડિજિટલ સેવા 'EPFO 3.0' શરૂ કરવા જઈ રહ્યું છે. PM ઈકોનોમી એડવાઈઝર કાઉન્સિલના સભ્ય અર્થશાસ્ત્રી સંજીવ સાન્યાલે EPFOમાં મોટા ફેરફારનો સંકેત આપ્યો છે. આ ફેરફાર ૬ઠ્ઠા ૨૦૨૫ માં જ લાગુ કરવામાં આવશે અને તેનો લાભ દેશના ૮ કરોડથી વધુ કર્મચારીઓને મળશે.મોબાઈલ એપ, ડિજિટલ ડેશબોર્ડ અને UPI પેમેન્ટ જેવી સુવિધાઓ કર્મચારીઓનું જીવન સરળ બનાવશે. EPFO ૩.૦ માત્ર રૂપિયા ઉપાડવાનું સરળ બનાવશે નહીં પરંતુ માહિતી અપડેટ કરવાની અને દાવા કરવાની પ્રક્રિયાને પણ ઝડપી બનાવશે. કર્મચારીઓ UAN એક્ટિવ કરીને અને આધારને ખાતા સાથે લિંક કરીને ATMમાંથી રૂપિયા ઉપાડી શકશે.આ નવી પ્રક્રિયામાં, EPFO તેના સબ્સ્ક્રાઈબર્સને એક ખાસ ATM કાર્ડ જારી કરશે, જે તેમના PF ખાતા સાથે લિંક હશે. આ કાર્ડનો ઉપયોગ કરીને, સબ્સ્ક્રાઈબર તેમના PFમાંથી રૂપિયા સીધા ATM મશીનોમાંથી ઉપાડી શકશે. UPI માંથી રૂપિયા ઉપાડવા માટે, તમારે તમારા PF ખાતાને UPI સાથે લિંક કરવું પડશે. આ પછી, સબ્સ્ક્રાઈબર તેમના બેંક ખાતામાં PFના રૂપિયા ટ્રાન્સફર કરી શકશે.જો તમે નોકરી ગુમાવશો, તો તમે એક મહિના પછી તમારા PFની ૭૫% રકમ ઉપાડી શકો છોપીએફ ઉપાડના નિયમો હેઠળ, જો કોઈ સભ્ય નોકરી ગુમાવે છે, તો તે ૧ મહિના પછી તેના પીએફ ખાતામાંથી ૭૫% રૂપિયા ઉપાડી શકે છે. આનાથી તે બેરોજગારી દરમિયાન તેની જરૂરિયાતો પૂરી કરી શકે છે. પીએફમાં જમા બાકીની ૨૫% રકમ નોકરી ગુમાવ્યાના બે મહિના પછી ઉપાડી શકાય છે.

નવા ઓર્ડરોની માત્રા ૫૭ માસની ટોચે રહેતા ઉત્પાદન વોલ્યુમમાં વધારો

દેશની ઉત્પાદન ક્ષેત્રની વિવિધ પ્રવૃત્તિઓ ૧૭ વર્ષની ટોચે પહોંચી

સર્વે રિપોર્ટમાં ઉત્પાદન ક્ષેત્રનો પરચેઝિંગ મેનેજર્સ' ઈન્ડેક્સ વધી ૫૯.૩૦ રહ્યો

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અમેરિ ના પડકા વચ્ચે ઓગસ્ટમાં દેશમાં મ ચલુ માગને પરિણામે ઉત્પાદન ક્ષેત્રની પ્રવૃત્તિ વધી સતત ૬ઠ્ઠા વધુ વર્ષની ટોચે જોવા મળી છે. ઓગસ્ટમાં ઉત્પાદન ક્ષેત્રનો પરચેઝિંગ મેનેજર્સ' ઈન્ડેક્સ (પીએમઆઈ) વધી ૫૯.૩૦ રહ્યો હોવાનું એક સર્વે રિપોર્ટમાં જણાવાયું છે. એસએન-કપી ગ્લોબલ દ્વારા તૈયાર કરાયેલ એચએસબીસીની ઈન્ડિયા મેન્યુફેક્ચરિંગ પીએમઆઈ જે જુલાઈમાં ૫૯.૧૦ સાથે ૧૯ મહિનાની ટોચે હતો તે ઓગસ્ટમાં વધી ૫૯.૩૦ રહ્યો છે. ૫૦થી ઉપરના પીએમઆઈને જે તે ના ઉિનરલ કહેવામાં આવે છે.

૧ વર્ષાસ મહિનાથી પીએમઆઈ ૫૦થી ઉપર જોવા મળી રહ્યો હોવાનું તૈયાર કરાયેલા સર્વે રિપોર્ટમાં જણાવાયું હતું. માગમાં જોરદાર વધારાને કારણે દેશની ઉત્પાદન ક્ષેત્રની પ્રવૃત્તિને વધુ ગતિ મળી છે. ડીંગી માગને કારણે ફેક્ટરીઓને ઓર્ડરમાં વધારો થયો હતો. ૫૯.૩૦નો પીએમઆઈ કામકાજની સ્થિતિ વર્ષની સૌથી સારી રહી હોવાનો સંકેત આપે છે.નવા ઓર્ડરોની માત્રા ૫૭ માસની ટોચે રહેતા ઉત્પાદન વોલ્યુમમાં પણ વધારો જોવા મળ્યો છે. કાચા માલની માગ વધતા તેના ઉત્પાદનમાં સૌથી વધુ વધારો જોવા મળ્યો છે ત્યારબાદ કેપિટલ ગુડ્સ અને કન્ઝ્યુમર ગુડ્સના ઉત્પાદનમાં વધારો થયો છે. અમેરિકા દ્વારા ભારતના માલસામાન પર ૫૦ ટકા ટેરિફ લાગુ કરવાના નિર્ણયને પરિણામે નિકાસ ઓર્ડરમાં સાધારણ ઘટાડો જોવા મળ્યો હોવાનું સર્વે રિપોર્ટમાં નોંધવામાં આવ્યું છે. ટેરિફની અનિશ્ચિતતા વચ્ચે અમેરિકાના આયાતકારોએ નવા ઓર્ડર આપવાનું મોકૂફ રાખ્યું હતું.

જો કે ઓર્ડરની એકંદર સ્થિતિ મજબૂત રહી છે જે ઘરેલું માગ જોરદાર હોવાનું સૂચવે છે. ઘરેલું માગ જોરદાર રહેતા ટેરિફને લગતી અસર ઓગસ્ટમાં હળવી રહ્યાનું કહી શકાય એમ છે.

ઉદ્યોગ, રોકાણકારો અને બજાર GST કાઉન્સિલની બેઠક પર નજર

આજથી જીએસટી કાઉન્સીલની બેઠકનો પ્રારંભ

મુંબઈ,તા.૨

ઉદ્યોગ અને રોકાણકારો આગામી જીએસટી કાઉન્સિલની બેઠક પર નજર રાખી રહ્યા છે. એવી અપેક્ષા રાખવામાં આવે છે કે સરકાર ઓટો, ઇલેક્ટ્રોનિક્સ જેવા વપરાશ આધારિત ક્ષેત્રોને વધુ રાહત આપી શકે છે. ઉપરાંત, ઉદ્યોગ યુમ્બેસ ટેરિફના ઇમ્પાનો સામનો કરતી વખતે ઘોડી રાહતની અપેક્ષા રાખી રહ્યો છે.

ભારતીય ઉદ્યોગ, રોકાણકારો અને શેરબજાર જીએસટી કાઉન્સિલની બેઠક પર નજર રાખી રહ્યા છે. શાંઘાઈ કોઓપરેશન ઓર્ગેનાઈઝેશન કોન્ફરન્સ ઉપરાંત, તેઓ અમેરિકા પર પણ ધ્યાન આપી રહ્યા છે. જીએસટી કાઉન્સિલની બેઠક ૩ જી ૪ સપ્ટેમ્બર દરમિયાન યોજવાની છે. આમાં કરવેરા તર્કસંગતીકરણની શક્યતા છે, તે જ સમયે, વડા પ્રધાન ચીન અને રશિયાના રાષ્ટ્રપતિઓ સાથે મુલાકાત કરી રહ્યા છે, વધુ અંગે આમાં શું બહાર આવશે અને આ બધું શેરબજારને કેવી અસર કરશે? રોકાણકારો નીતિ સ્પષ્ટતા, મેક્રોઈકોનોમિક ડેટા અને વૈશ્વિક વિકાસ પર પણ નજર રાખી રહ્યા છે.

કેન્દ્રએ જીએસટી દરો અને સ્લેબને તર્કસંગત બનાવવાનો પ્રસ્તાવ મૂક્યો છે. આ હેઠળ, પાંચ અને ૧૮ ટકાનું બે-સ્તરીય કર માળખું અપનાવવામાં આવશે. ઉપરાંત, કેટલીક પસંદગીની વસ્તુઓ પર ૪૦ ટકાનો દર લાગુ કરવામાં આવશે. સ્લેબમાં ફેરફાર પર વ્યાપકપણે સંમત થતાં, જે એ ૪૦ લાખ રૂપિયા સુધીના ઇલેક્ટ્રિક વાહનો પર ૧૮ ટકા જીએસટીની તરફેણ કરી છે, મૂકીએ જણાવ્યું હતું. જોકે, કેન્દ્ર ઇલેક્ટ્રિક વાહનો અપનાવવાને પ્રોત્સાહન આપવા આતુર છે અને ૫ ટકા દરની તરફેણ કરે છે અને કાઉન્સિલની બેઠકમાં પણ આ જ વલણ અપનાવવામાં આવશે.ઘી, સૂકા ફળો, ૨૦ લિટર પીવાનું પાણી, બિન-કાર્બોરેટેડ પીણાં, નમકીન, કેટલાક કૂટવેર અને કપડાં, દવાઓ અને તબીબી ઉપકરણો જેવી મોટાભાગની સામાન્ય ખાદ્ય ચીજો ૧૨ ટકાથી ૫ ટકાના કર કીસ હેઠળ આવી શકે છે.પેન્સિલ, સાયકલ, છત્રીથી લઈને વાળની પિન જેવી સામાન્ય રીતે ઉપયોગમાં લેવાતી વસ્તુઓ પણ ૫ ટકાના કર કીસ હેઠળ આવી શકે છે.

ઓટોમોબાઈલ જેવી વસ્તુઓ પર હાલમાં ૨૮ ટકાના સૌથી વધુ દરે કર લાદવામાં આવે છે. વળતર સેસ પણ છે, પરંતુ હવે એન્ટ્રી લેવલ કાર પર ૧૮ ટકા ટેક્સ લગાવી શકાય છે, જ્યારે જૈફ અને લક્ઝરી કાર પર ૪૦ ટકાના ખાસ દરે ટેક્સ લગાવી શકાય છે.તમાકુ, પાન મસાલા અને સિગારેટ જેવી અન્ય અવમૂલ્યન હામેલી વસ્તુઓ પર પણ ૪૦ ટકાનો ખાસ દર લાગુ થશે.

ગુજરાત ઈન્ડસ્ટ્રીઝ પાવર કંપની લિમિટેડ
પી.ઓ. રાજોલી, વાયા : ડભોઈ - ૩૯૧૧૪૫.
રજીસ્ટર્ડ ઓફિસ: (૨૦૨૫) વડોદરા / વડોદરા, ફોન : www.gipcl.com
જાહેર સૂચના
ગુજરાત ઇન્ડસ્ટ્રીઝ પાવર કંપની લિમિટેડ (જે ટાટા પી.ટી.સી.) દ્વારા સામાન્ય ગુજરાત ઇલેક્ટ્રિસિટી રેગ્યુલેટરી કમિશન સમક્ષ દાખલ કરાયેલ અરજીને લગતી નોંધ મુજબની અરજીઓ પાઠવી. ઉિનરેશનિલેન્ડ/ઉિનરેશનિલેન્ડમાં ઉત્પાદિત કરવામાં આવે છે, તે ગુજરાત વિકાસ પાવર કંપની(SLPP) સંબંધિત છે.
૧. અમારા ક્રમાંક જીપીસીએલ/૨૦૨૫/ ગુજરાત ઇલેક્ટ્રિસિટી પાવર માર્કેટ ફેક્ટર ના ૫ ૪ મુજબ ઉત્પાદિત યુનિટના પુરા વિસ્તૃત, ટ્રાન્સમિશનના ભાવને અનુકૂલ કુદરતી માટે ટ્રાન્

ભરૂચમાં હિંદુ ધર્મ સેનાના પ્રમુખ સામે રાયોટિંગનો ગુનો દાખલ

ભરૂચ,તા.૨

ભરૂચ તાલુકાના ભોલાવ ખાતે આવેલ સિદ્ધિવિનાયક સોસાયટીના રહીશ અને હિંદુ ધર્મ સેનાના પ્રમુખ પ્રયાગરાજસિંહ વાંસિયાએ સોસાયટીના નવા ગેટ પર 'વાંસિયા પરિવાર' લખાવી દીધું હતું. જોકે આ લખાણથી સોસાયટીના અન્ય સભ્યોમાં એક તરફ નારાજગી ફેલાઈ હતી જોકે આ વિવાદને લઈ સોસાયટીની મીટિંગ પણ ભોલાવવામાં આવી હતી. જોકે, આ ખાનગતની રીસ રાખીને પ્રયાગરાજસિંહ વાંસિયા તેમના સાથીદારો સાથે સોસાયટીના અન્ય એક રહીશ, નીરજીપ શાહના ઘરે પહોંચ્યા હતા. ત્યાં તેમણે ધમાલ મચાવી હતી. પરની બહાર લગાવેલા સીસીટીવી કેમેરામાં આ ઘટના કેદ થઈ છે, નીરજીપ શાહે આ મામલે સી-ડિવિઝન પોલીસ સ્ટેશનમાં ફરિયાદ નોંધાવી છે. પોલીસે હિંદુ ધર્મ સેનાના પ્રમુખ પ્રયાગરાજસિંહ વાંસિયા અને તેમના સાથીદારો વિરુદ્ધ રાયોટિંગ સહિતની ગંભીર કલમો હેઠળ ગુનો દાખલ કર્યો છે. આ ઘટનાએ સોસાયટીના માહોલમાં ભય અને તણાવનું વાતાવરણ ઊભું કર્યું છે.

મારૂ નામ
બાદશાહ હુસેન સોહેલ
હતુ બદલીને
હુસેન હમઝા મેમણ
રાખેલ છે.
અસ્મા મેન્શન, જમનાબાઈ
હોસ્પિટલ પાછળ, વડોદરા.

પશ્ચિમ રેલવે - વડોદરા મંડળ

મુદ્દતવધારા

વિષય: ૨૦૨૫-૨૬ ના ટેન્ડર નંબર DRM BRC 112 માં સુધારો.
ટેન્ડર નંબર DRM-BRC-112-OF-2025-26 માટે સુધારી સૂચના આથી જારી કરવામાં આવે છે.

(i) કાર્યનું નામ વાર્ષિક ધોરણે વિષય તરીકે પ્રકાશિત કરવામાં આવ્યું તેનું:- ઓપરેશનલ કિલ્નિકિંગ વિભાગમાં સુધ્ધા એકમાત્ર કાઉન્ટર દ્વારા AFTC નું બાંધકામ જેમાં ઈએચઈડ્યુએ કાર્યનો સમાવેશ થાય છે પરંતુ તેનું જ કરીને વાંદરા વિભાગ તરીકે વાંચો શકાય છે:- MSDAC કાર્યના સંદર્ભમાં વાંચેલ વાર્ષિક વિભાગમાં ઈએચઈડ્યુએ કાર્ય સમિત ઓફિ વાંદરું વાંચવું.
(ii) ઉપરોક્ત ટેન્ડર દસ્તાવેજ આથી અપલોડ કરાયેલ ટેન્ડર દસ્તાવેજ દૂર કરવામાં આવી છે અને સુધારેલા ટેન્ડર દસ્તાવેજ માત્ર બદલવામાં આવ્યાં છે, જે હવે IREPS પોર્ટલ પર અપલોડ કરવામાં આવ્યા છે.
અન્ય તમામ નિયમો અને શરતો યથાવત રહેશે.

BRC181

અમને અનુસરો: facebook.com/WesternRly • અમને ટ્વીટ કરો: twitter.com/WesternRly

જાહેર નોટિસ

રજીસ્ટ્રેશન ડીબેન્ચર આપ્યું કાપ ડીબેન્ચર આપ્યું બોન્ડ સાંભળેલી સ્થિતિના ભાગ/ટર્મ નં. ૧/૧, જૈન્યુ કુલ સેક્શન ફે. ૦-૧૦-૧૨ અરે (૧૦૧૨.૦૦ ચો.મી.) બીજમેટીની પશ્ચિમ પા પાકામાં અમોલ ઠક્કરાણ લાલ પ્લોટો પેકી સબ પ્લોટ નં. ૭, જૈનું પ્લોટનું કે. ૦૩.૦૦ ચો.મી. તેમજ તેઓ અમોલ ઠક્કરાણ લાલ મકાન જૈનું બાંધકામનું કે. ૧૪૮.૦૧ ચો.મી. બાંધી મિલકત અમોલ છે. જૈની સાંભળેલ રાજ પંચાયત અકાસદારે પાસ મિલકત નં. ૧૦૬૨/૭ પાળી મિલકતના પુત્ર પાસિલ ૧) મંજુલાબેન રમેશભાઈ પટેલ, ૨) પટેલ નાગીન કાંતિલાલ હતા. ત્યારબાદ તેઓ પાસેથી તા. ૨૬-૦૬-૨૦૧૨ ના રોજ પેચાણ દસ્તાવેજ નં. ૧૮૧૮ થી રમણીકુમાર નાગીનભાઈ ૩૪૨૩ નાઓએ ખરીદ કરી, ત્યારબાદ તેઓ પાસેથી તા. ૧૮-૦૩-૨૦૧૪ ના રોજ પેચાણ દસ્તાવેજ નં. ૪૭૬૦ થી ૧) કેયુરકુમાર રોહિતકુમાર પટેલ, ૨) પટેલ દીનીબાબેન નાગીનભાઈ નાઓએ ખરીદ કરી. ત્યારબાદ તેઓ પાસેથી તા. ૨૩-૦૧-૨૦૨૩/૦૩-૦૪-૨૦૨૩ ના રોજ પેચાણ દસ્તાવેજ નં. ૧૧૫૬ થી કૈલાસબેન દર્શનકુમાર પરીખ નાઓએ ખરીદ કરી, ત્યારબાદ તેઓ પાસેથી તા. ૨૮-૦૮-૨૦૨૪ ના રોજ પેચાણ દસ્તાવેજ નં. ૧૪૫૨ થી નયનાબેન વિપુલભાઈ શાહ નાઓએ ખરીદ કરી. પરંતુ ૪૮૨ મિલકતનો બક્ષસ દસ્તાવેજ તા. ૨૬-૦૬-૨૦૧૨, દસ્તાવેજ નં. ૧૨૫૦ તા. ૧૮-૦૧-૨૦૧૪ તથા તેની બક્ષસ પહોંચ મળી આવેલ નથી, તથા એક્સિસ ફાઈનાન્સ લિમિટેડ બાંધી નયનાબેન વિપુલભાઈ શાહનું નામની કોઈ લેવા દેવા ધરાવતા કોઈ પેઢી ધીરાણ મિલકત ખરીદ કરવા માટે કોઈ લોન આપવામાં આવેલ નથી. જો કોઈ વ્યક્તિને કોઈપણ મિલકતમાં કે કોઈ પણ રીતે કોઈપણ પ્રકારની દાવા-વાંધા, હક્ક, હિત, સંબંધ, અફાની, બોજો, લોન, બાનાખત, કોર્ટ, ટાચી કોર્ટ તો દિન-૧૪ ની અંદર નીચે જણાવેલ સરનામે લેખિત પુરાવા સહ જાણ કરવી અન્યથી, જે દિન-૧૪ ની મુદતમાં કોઈ તેમીત પુરાવા સહ વાંધો નહિ આવે તો ઉપરોક્ત મિલકતને બોજાની તેમજ બાકીદાર કમ્પ્રુ ટ્રાસ્ટ ફ્રાન્ચાઈઝ ફાઈનાન્સ આપવામાં આવશે અને ત્યારબાદ કોઈની તકરાર ચાલશે નહી. જૈની જાહેર જનતાને નોંધ લેવી. તા. ૦૩/૦૯/૨૦૨૫.

પૂજન વી. બહરાની
(એડવોકેટ એન્ડ નોટરી કમિશનર)

ઓફિસ:- ૩૦૬,એ-૫, સમ્રાટ એપેક્સ, એલેમ્બિક ગેટ સ્ટેશ પાછે, સ્ટેશ-પાર્કિંગ ટીન રોડ, વડોદરા. મો.૯૯૨૪૦૪૧૩૦

પશ્ચિમ રેલવે - વડોદરા મંડળ

ઈ-ટેન્ડર સૂચના નં. CPM-GSENGG-BRC-2025-26-01
પુલ પર રોડ (ROB) નું બાંધકામ

ડીઝ ડીઈએન-૩ મેનેજર (નિર્માણ), પશ્ચિમ રેલવે, પ્રથમ માળ, વડોદરા-૩૯૦૦૦૪ દ્વારા નીચેના કામો માટે ભારતના રાષ્ટ્રપતિ વતી સીલબંધ ટેન્ડરો આમંત્રિત કરવામાં આવે છે.

ઈ-ટેન્ડર નંબર: CPM-GS-ENGG-BRC-2025-2026-01

કામનું નામ: વડોદરા - વેજલપુર વિભાગ પર વડોદરા-તેજાપુર વિભાગ પર કિમી ૪૦૧/૧૧-૧૮ પર લેવલ ક્રોસિંગ નંબર ૨૦૪ ના સ્થાને પુલ પર રોડ (ROB) નું બાંધકામ.

અંદાજિત અર્થ કામ રૂ. ૫૨,૧૪,૧૩,૧૪૪.૦૩ (બાવન કરોડ, ચૌદ લાખ, તેર હજાર એકસો ચુંમોતેર રૂપિયા અને ત્રણ પૈસા માત્ર)

જમા ડિપોઝીટ રકમ ની રકમ: ૧૩,૭૩,૧૦૦/- (તેર લાખ તોતેર હજાર, સો માત્ર)

બોલી સ્વરૂપમાં માટે ઓનલાઈન ટેન્ડર ઉપલબ્ધ: ૧૪.૦૮.૨૦૨૫ થી ૧૧.૦૯.૨૦૨૫ થી ૩૦.૦૯.૨૦૨૫ થી ૧૧.૦૯.૨૦૨૫ સુધી.

ટેકનિકલ બોલી ખોલવાની તારીખ અને સમય: ૩૦.૦૯.૨૦૨૫ ના ૧૫.૩૦ કલાકે.

ટેન્ડર દસ્તાવેજ વેબસાઈટ (Free ડિડિટાઈ): EMD, પાત્રતા માપદંડ, કામની સ્વભાવ પ્રકૃતિ, વિસ્તૃતવાર ટેન્ડર સૂચના જોવા/ડિવિનલાઇ સૂચના માટે, કૃપા કરીને www.ireps.gov.in ની મુલાકાત લો. ૫-પુલ્લ બોડરો ખાનાં સંચાર આવશે નહીં.

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પશ્ચિમ રેલવે - વડોદરા મંડળ

નોટિસ

ઈએમસીઓ ક્રમ નં. ૧૪૩/૨૦૨૪

૧. વડોદરાના મ્યુનિસિપલ કોર્મશ્યર સ્પેશિયલ ૧૭ (શ્રી જે.જે. ભટ્ટ) સાહેબની કોર્ટમા...

વાદી: વડોદ બેંક ઓફ ઇન્ડીયા, એસ.એમ.ઇ.બી.સી.સી. શાખા
પુ ઓથોરાઇઝ સિગ્નેટરી અધિકારા કુમાર ભાસ્કીદીપ
વિરુદ્ધ
પ્રતિવાદી: ૧. મે-બન એન્ટરપ્રાઇઝ - ભોગાદારીના ભોગાદાર
પ્રતાપરાવ દત્તીબાઈ સાતારી
૨. એ-૮ આસ્થા પાર્ક, અજબ રોડ, વડોદરા.
૨. ઝુની કમ્પા વાલા પાર્ક, સિસવાદાર, ઝુબ્બાદ, ગુજરાત- ૩૯૧૭૪૦

અરજી, લાગતા વળગતા સર્વે વાંચનારને આ જાહેર સમ્મનથી જાણવામાં આવે છે કે, ઉપરોક્ત કામ જાહેર સમ્મન આથી જાણવામાં આવે છે કે, ઉપરોક્ત પ્રતિવાદીને જાણ કરવામાં આવે છે કે, આ કામના વાદીએ અત્રેની કોર્ટમાં કોમર્શિયલ સિવિલ સ્યુટ નં. ૧૫૮/૨૦૨૪ ના વાદીએ દાવા પેટે ચુકવવાની તે અંગે કોર્ટ પાસે દાવાના કોર્ટ પાસે પાસ પ્રકારની પાંચો કે તકરાર હોય તો, તેઓએ આ જાહેર સમ્મન પ્રસિધ્ધ થયેથી એકવાનની અંદર એટલે કે, તા.૧૧.૦૬.૨૦૨૫ ના રોજના પાસ કામકાજ ના દિવસે રૂબરૂમાં ૧૧.૦૦ કલાકે પહેલા આ બાબતના કોર્ટ પાસે પોતાની તકરારો પાંચો રૂબરૂ કરવા, પુરાવા અંદર જો કોઈ રાખવા પોતાની તકરારો પાંચા અવાજ નહી આવેલો, અટર કુ દાવાના ૫૬૦ બાબત કોર્ટ જરૂરી પુરાવા લઈ, તેમના કક્ષ સામીલ ચલેથી તુરત જ વાદીને સાંગાણી મુજબ કુલમાનુ કરી આપશે. તેની નોંધલેવી.

આજરોજ તા. ૦૧.૦૬.૨૦૨૫ ના રોજ આપી સહી તથા કોર્ટનો સિક્કો કરી આપ્યો.

તૈયાર કરનાર: આસિસ્ટન્ટ (એ.બેઝ. ગુજર)
પુકારાવ કરનાર: (એન.એ. બારકાય) લીગ કલાર્ક-૩
કોર્ટનો સિક્કો
કુમારી, (એમ. વી. શાહ)
ક્લાર્કસ્ટ
ડિસ્ટ્રીક્ટ સિવિલ કોર્ટ, વડોદરા

પશ્ચિમ રેલવે - વડોદરા મંડળ

વડોદરા મંડળ-ના અંકલેશ્વર, એકતા નગર અને ગોધરા સ્ટેશન એમ ત્રણ સ્ટેશનો માટે "ફૉર્ડર ઓન કોલ - કુલી/પોર્ટર સેવાનું ઓનલાઈન બુકિંગ" માટે એક્સપ્રેશન ઓફ ઈન્ટ્રેસ્ટ (EOI)

નં. CA 450/EOI/POC/25 તા. 01.09.25

મંડલ રેલવે મેનેજર (વાણિજ્યિક), પશ્ચિમ રેલવે, વડોદરા વડોદરા મંડળના અંકલેશ્વર, એકતા નગર અને ગોધરા સ્ટેશન એમ ત્રણ સ્ટેશનો માટે "ફૉર્ડર ઓન કોલ - કુલી/પોર્ટર સેવાનું ઓનલાઈન બુકિંગ" માટે એક્સપ્રેશન ઓફ ઈન્ટ્રેસ્ટ આમંત્રણ આપે છે. અરજી ફોર્મ વાળી EOI દસ્તાવેજની સંપૂર્ણ સેટ વેબસાઈટ www.wr.indianrailway.gov.in પરથી ડાઉનલોડ કરી શકાય છે.પ્રતિબાય નીચેના કાર્યાલય ડિવિઝનલ કોમર્શિયલ મેનેજર, કોમર્શિયલ ઉિપાર્ટમેન્ટ, ચાર્જ ફ્લોર, ડિવિઝનલ રેલવે મેનેજરની ઓફિસ, પ્રતાપનગર, વડોદરા - ૩ ને ૦૬.૦૯.૨૦૨૫ ના રોજ ઓફિસ સમય દરમ્યાન ૧૫-૦૦ કલાક સુધી સ્વીકારવામાં આવશે.

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અમને અનુસરો: facebook.com/WesternRly • અમને ટ્વીટ કરો: twitter.com/WesternRly

ગુજરાત ઈન્ડસ્ટ્રીઝ પાવર કંપની લિમિટેડ

પીઓ. કાપોદ્રા, વડોદરા - ૩૯૧૩૪૫.
ઈન્વેસ્ટર્સ કનેક્ટ: (૦૨૬૫) ૨૪૩૦૪૨૮ / ૨૨૩૦૪૨૬, ઈમેલ : www.gipcl.com

ઓર્ડર સૂચના

ગુજરાત ઈન્ડસ્ટ્રીઝ પાવર કંપની લિમિટેડ (જીઆઈપીસીએલ) દ્વારા નામનીકૃત ગુજરાત ઈન્ડસ્ટ્રિયલ ડેવલપમેન્ટ કોર્પોરેશન દ્વારા સંચાલિત સમાહ દ્વારા પ્રકાશિત ગુજરાત ઈન્ડસ્ટ્રિયલ ડેવલપમેન્ટ કોર્પોરેશન (જીઆઈડીસી) ની ઈન્ડસ્ટ્રીઝ કોલિયા

સરકાર અર્થતંત્રને ૮ ટકાથી વધુ વૃદ્ધિ દર આપવા પર ધ્યાન કેન્દ્રિત કરશે

આગામી વર્ષ ૨૭ માટે બજેટ તૈયાર કરવાની પ્રક્રિયા ૯ ઓક્ટો.થી શરૂ

નાણા મંત્રાલયે માહિતી આપી: રાજકોષીય ખાધ કુલ સ્થાનિક ઉત્પાદન ના ૪.૪ ટકા હોવાનો અંદાજ

નવી દિલ્હી,તા.૨

બજેટ ૨૦૨૬: નાણા મંત્રાલય ૯ ઓક્ટોબરથી ૨૦૨૬-૨૭ માટે વાર્ષિક બજેટ તૈયાર કરવાની પ્રક્રિયા શરૂ કરશે. આ માહિતી મંગળવારે સરકારે આપી હતી. આગામી નાણાકીય વર્ષના બજેટમાં, સરકાર અર્થતંત્રને ૮ ટકાથી વધુ વૃદ્ધિ દર આપવા પર ધ્યાન કેન્દ્રિત કરશે

નાણા મંત્રાલય ૯ ઓક્ટોબરથી ૨૦૨૬-૨૭ માટે વાર્ષિક બજેટ તૈયાર કરવાની પ્રક્રિયા શરૂ કરશે. આ માહિતી મંગળવારે સરકારે આપી હતી. ભૌગોલિક રાજકીય અનિશ્ચિતતાઓ અને ભારતમાંથી આયાત કરાયેલા માલ પર અમેરિકા દ્વારા લાદવામાં આવેલા ૫૦ ટકાના ભારે ટેરિફને ધ્યાનમાં રાખીને, આગામી નાણાકીય વર્ષ માટેનું બજેટ



ખૂબ જ મહત્વપૂર્ણ છે.આગામી નાણાકીય વર્ષના બજેટમાં, સરકાર માંગ વધારવા, રોજગારીનું સર્જન કરવા અને અર્થતંત્રને ૮ ટકાથી વધુ વૃદ્ધિ દર આપવા પર ધ્યાન કેન્દ્રિત કરશે. સરકારનો અંદાજ છે કે ચાલુ નાણાકીય વર્ષ દરમિયાન ભારતીય અર્થતંત્ર ૬.૩-૬.૮ ટકાની વચ્ચે વૃદ્ધિ પામશે. આર્થિક બાબતોના વિભાગના બજેટ પરિપત્ર (૨૦૨૬-૨૭) અનુસાર, "અગ્રિમ (બાય) ની અધ્યક્ષતામાં પૂર્વ-બજેટ બેઠકો ૯ ઓક્ટોબર, ૨૦૨૫ થી શરૂ થશે."પરિપત્ર મુજબ, નાણાકીય સલાહકારોએ ખાતરી કરવી જોઈએ કે પરિશિષ્ટ III ની માં જરૂરી વિગતો ૩ ઓક્ટોબર, ૨૦૨૫ ના રોજ અથવા તે પહેલાં યોગ્ય રીતે ફાઈલ કરવામાં આવે. કોલ ચેકિંગ માટે નિર્ધારિત કોમેંટમાં ડેટાની હાર્ડ કોપી પૂરી પાડવી જોઈએ." ૨૦૨૬-૨૭ માટે બજેટ અંદાજોને પૂર્વ-બજેટ બેઠકો પૂર્ણ થયા પછી અંતિમ સ્વરૂપ આપવામાં આવશે. સુધારેલા અંદાજ સંબંધિત બેઠકો નવેમ્બર ૨૦૨૫ ના મધ્ય સુધી ચાલુ રહેશે. પરિપત્રમાં કહેવામાં આવ્યું છે કે તમામ મંત્રાલયો-વિભાગોએ સ્વાયત્ત સંસ્થાઓ-અમલીકરણ એજન્સીઓની વિગતો સમયસર કરવી જોઈએ. આ માટે એક સમર્પિત ભંડોળ બનાવવામાં આવ્યું છે. સંસદના બજેટ સત્રના પહેલા ભાગ દરમિયાન ૧ ફેબ્રુઆરીએ બજેટ ૨૦૨૬-૨૭ રજૂ થવાની સંભાવના છે.

સરકારે ચાલુ નાણાકીય વર્ષના બજેટમાં નજીવા ઘોરણે ૧૦.૧ ટકાનો વિકાસ દર અંદાજ્યો છે. બીજી તરફ, રાજકોષીય ખાધ કુલ સ્થાનિક ઉત્પાદન ના ૪.૪ ટકા હોવાનો અંદાજ છે. વડાપ્રધાન નરેન્દ્ર મોદીના નેતૃત્વ હેઠળની સરકારે વસાહતી યુગનો અંત લાવ્યો છે ફેબ્રુઆરીના અંતમાં બજેટ રજૂ કરવાની પરંપરા. તત્કાલીન નાણામંત્રી અરુણ જેટલીએ સૌપ્રથમ ૧ ફેબ્રુઆરી, ૨૦૧૭ ના રોજ વાર્ષિક બજેટ રજૂ કર્યું હતું. બજેટની આગોતરી રજૂઆત સાથે, હવે મંત્રાલયોને એપ્રિલથી શરૂ થતા નાણાકીય વર્ષની શરૂઆતથી જ બજેટરી ભંડોળ ફાળવવામાં આવે છે, આનાથી સરકારી વિભાગોને ખર્ચ કરવા માટે વધુ સમય મળે છે, તે ઉપનીઓને વ્યવસાય અને કરવેરા યોજનાઓને અનુકૂલિત કરવા માટે પણ સમય આપે છે.

નેસ્લેએ કહ્યું, મૂલ્યો અને સિદ્ધાંતોનું અમારા માટે ઘણું મહત્ત્વ

નેસ્લેએ તેના CEO લોરેન્ટ ફ્રિક્સને કાઢી મૂક્યા:કર્મચારી સાથે અફેર હતું

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હરણફાળ કંપની નેસ્લેએ તેના ચીફ એક્ઝિક્યુટિવ ઓફિસર લોરેન્ટ ફ્રિક્સને બરતરફ કર્યા છે. ફ્રિક્સ સામે આ કાર્યવાહી તેમના એક કર્મચારી સાથે પ્રેમસંબંધ રાખવા બદલ કરવામાં આવી છે.

સોમવારે એક સમાચાર પ્રકાશનમાં આ માહિતી આપતાં કંપનીએ કહ્યું હતું કે તેમણે આ બાબત વિશે કંપનીને જાણ પણ કરી ન હતી, જે નિયમોનું ઉલ્લંઘન છે. ફ્રિક્સના સ્થાને કંપનીએ સિનિયર વાઇસ-પ્રેસિડેન્ટ અને નેસ્લેના કોફી સ્ટ્રેટેજિક બિઝનેસ યુનિટના વડા ફિલિપ નવરાતિલને નવા સીઈઓ તરીકે નિયુક્ત કર્યા છે.આ પહેલાં એસ્ટ્રોનોમર એન્ડી બાયર્ન તેમની ઊંઉ હેડ સાથે એક કોન્સર્ટમાં જોવા મળ્યા હતા. આ પછી તેમને રાજીનામું આપવું પડ્યું હતું.કંપનીએ કહ્યું, આ કાર્યવાહી જરૂરી હતી નેસ્લેએ જણાવ્યું હતું કે ફ્રિક્સને બરતરફ કરવાનો નિર્ણય એક તપાસ બાદ લેવામાં આવ્યો હતો, જેમાં જાણવા મળ્યું હતું કે તેમનો ડિરેક્ટર સબઓર્ડિનેટ સાથે પ્રેમસંબંધ હતો. આ તપાસ કંપનીના ચેરમેન પોલ બલ્કે અને લીડ ડિરેક્ટર પાબ્લો ઇસ્લા દ્વારા બહારના વકીલોની મદદથી કરવામાં આવી હતી, "આ નિર્ણય જરૂરી હતો. નેસ્લેનાં મૂલ્યો અને સિદ્ધાંતો અમારા માટે ઘણું મહત્ત્વ ધરાવે છે. હું લોરેન્ટનો તેમની વર્ષોની સેવા માટે આભાર માનું છું."લોરેન્ટ ફ્રિક્સ ૪૦ વર્ષથી કંપનીમાં કામ કરી રહ્યા હતા.લોરેન્ટ ફ્રિક્સને ગયા વર્ષે જ ચીફ એક્ઝિક્યુટિવ તરીકે નિયુક્ત કરવામાં આવ્યા હતા, જ્યારે ૨૦૨૨ની શરૂઆતથી નેસ્લેનો સ્ટોક લગભગ ૪૦% ઘટ્યો હતો. યુરોપ અને અમેરિકામાં વજન ઘટાડવાની દવાઓના કારણે લોકોની ખાવાની આદતો બદલાઈ રહી હતી.

બિઝનેસ આજકાલ

બોટના IPO ને SEBIની મંજૂરી મળી:કંપની ઇશ્યૂ લાવી શકે છે

મુંબઈ : સિક્યોરિટીઝ એન્ડ એક્સચેન્જ બોર્ડ ઓફ ઈન્ડિયા એ સ્પીકર્સ અને અન્ય ઈલેક્ટ્રોનિક ગેજેટ્સનું ઉત્પાદન કરતી કંપની બોટના પ્રારંભિક જાહેર ઓફર ને મંજૂરી આપી છે. બજાર નિયમનકારે બોટ, અર્બન કંપની, જ્યુપિટર ગ્રીન એનર્જી લિમિટેડ સહિત કુલ ૧૩ કંપનીઓના IPO ને મંજૂરી આપી છે. બોટની પેરેન્ટ કંપની ઈમેજિન માર્કેટિંગ લિમિટેડે ૮ એપ્રિલના રોજ IPO માટે ડ્રાફ્ટ પેપર્સ ફાઈલ કર્યા હતા. આ મુદ્દો ૨૦૦૦ કરોડ રૂપિયાનો હોઈ શકે છે IPOનું કુલ કદ ૨,૦૦૦ કરોડ રૂપિયા હોઈ શકે છે. આમાં, કંપની ૯૦૦ કરોડ રૂપિયાના નવા શેર જાહેર કરી શકે છે. બાકીના ૧૧૦૦ કરોડ રૂપિયાના શેર કંપનીના હાલના રોકાણકારો દ્વારા OFS દ્વારા વેચવામાં આવશે. કંપનીએ ૨૦૨૨માં IPO માટે પણ અરજી કરી હતી અગાઉ, કંપનીએ ૨૦૨૨માં રૂ. ૨,૦૦૦ કરોડના IPO માટે અરજી કરી હતી. જોકે, પ્રતિકૂળ બજાર પરિસ્થિતિઓને કારણે કંપનીએ તેનuે IPO અરજી પાછી ખેંચી લીધી હતી. તે સમયે, લિસ્ટિંગને બદલે, બોટે $૧૦ મિલિયન એટલે કે લગભગ રૂ. ૫૨૦ કરોડ ખાનગી ભંડોળ એકત્ર કરવાનો વિકલ્પ પસંદ કર્યો હતો.

ઓનલાઈન ખરીદી વધતા UPI વ્યવહાર ૨૦ અબજને પાર

મુંબઈ : તહેવારો નિમિત્તે ઓનલાઈન ખરીદીમાં વધારો થતા ઓગસ્ટમાં યુનિફાઈડ પેમેન્ટસ ઈન્ટરફેસ (યુપીઆઈ) પ્લેટફોર્મ મારફતના વ્યવહાર જુલાઈની સરખામણીએ ત્રણ ટકા વધી ૨૦.૦૧ અબજ રહ્યા હતા. જુલાઈમાં આ આંક ૧૯.૪૩ અબજ રહ્યો હતો. મૂલ્યની દ્રષ્ટિએ વ્યવહારોનો આંક ૧ ટકા ઘટી રૂપિયા ૨૪.૮૫ ટ્રિલિયન રહ્યો હતો જે જુલાઈમાં રૂપિયા ૨૫.૦૮ ટ્રિલિયન જોવા મળ્યો હતો એમ નેશનલ પેમેન્ટસ કોર્પોરેશન ઓફ ઈન્ડિયા (એનપીસીઆઈ) દ્વારા જારી કરાયેલ ડેટામાં જણાવાયું હતું. ઓગસ્ટમાં યુપીઆઈ મારફત વ્યવહારની દૈનિક સરેરાશ ૬૪.૫૦ કરોડ રહી હતી જે જુલાઈમાં ૬૨.૮૦ કરોડ જોવા મળી હતી. મૂલ્યની દ્રષ્ટિએ દૈનિક સરેરાશ આંક રૂપિયા ૮૦૬૧૮ કરોડ પરથી ઘટી રૂપિયા ૮૦૧૩૭ કરોડ રહ્યો હતો. ગયા વર્ષના ઓગસ્ટની દ્રષ્ટિએ યુપીઆઈ વ્યવહારમાં વોલ્યુમની દ્રષ્ટિએ ૩૪ ટકા અને મૂલ્યની દ્રષ્ટિએ ૨૧ ટકા વધારો થયાનું પણ પ્રાથમિક ડેટામાં જણાવાયું હતું. તહેવારોની મોસમ દરમિયાન ઉપભોગમાં વધારો થયાનું વ્યવહારની સંખ્યા પરથી કહી શકાય એમ છે.

ઉત્તરપ્રદેશના લાખો આઉટસોર્સ કર્મચારીઓને પગાર વધારો

લખનૌ : ઉત્તરપ્રદેશના લાખો આઉટસોર્સ કર્મચારીઓ માટે ગુડ ન્યૂઝ છે. રાજધાની લખનઉમાં યોગી આદિત્યનાથ કેબિનેટની બેઠકમાં યુપી આઉટસોર્સિંગ સર્વિસ કોર્પોરેશન બનાવવાની દરખાસ્તને મંજૂરી આપવામાં આવી છે.પ્રસ્તાવ અનુસાર પોર્ટલ દ્વારા સર્વિસ પ્રોવાઈડર રાખવામાં આવશે. ન્યુનતમ વેતનમાન ૧૬,૦૦૦ રૂપિયાથી વધીને ૨૦,૦૦૦ રૂપિયા સુધી.એજન્સીની નિયુક્તિ ૩ વર્ષના સમયગાળા માટે કરવામાં આવશે. કોર્પોરેશનની રચના બાદ આઉટસોર્સ કર્મચારીઓનો પગાર સીધો તેમના ખાતામાં જશે. યુપી આઉટસોર્સિંગ સેવા નિગમની રચના બાદ આઉટસોર્સ કર્મચારીઓને મહિનામાં ૧થી ૫ તારીખ વચ્ચે સેલરી આપવામાં આવશે. બેઠક બાદ કેબિનેટ મંત્રી સુરેશ ખન્નાએ આ વાત જણાવતા કહ્યું કે આઉટસોર્સિંગના માધ્યમથી કરનારી ભરતીઓમાં આરક્ષણની વાત કરવામાં આવી છે. જેમાં એસસી, એસટી, મહિલા , દિવ્યાંગ દરેકનું આરક્ષણ થશે, રચના હેઠળ આઉટસોર્સ કર્મીઓને એક મહિનામાં ૨૬ દિવસની સેવા આપવાની રહેશે.

ટીસીએસ કર્મચારીઓના પગારમાં ૭% સુધીનો વધારો કર્યો

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દેશની સૌથી મોટી IT સેવા પ્રદાતા કંપની ટાટા કન્સલ્ટન્સી સર્વિસીસ એ તેના કર્મચારીઓ માટે પગાર વધારાની જાહેરાત કરી છે. સૂત્રોના જણાવ્યા અનુસાર, કંપનીએ મોટાભાગના કર્મચારીઓને ૪.૫ થી ७ ટકાનો પગાર વધારો આપ્યો છે. આ માટે, સોમવારે મોડી રાતથી કર્મચારીઓને પગાર વધારા પત્રો મોકલવાનું શરૂ થયું છે, અને આ સુધારેલ પગાર સપ્ટેમ્બર મહિનાથી લાગુ થશે.

સૂત્રોએ જણાવ્યું હતું કે આ પગાર વધારો મુખ્યત્વે નીચલા અને મધ્યમ સ્તરના કર્મચારીઓ પર કેન્દ્રિત છે, જેઓ કંપનીના સંગઠન અને પ્રોજેક્ટ ડિલિવરીનો મહત્વપૂર્ણ ભાગ છે. આ સાથે, જે કર્મચારીઓ સારું પ્રદર્શન કરે છે તેમને પણ ૧૦ ટકાથી વધુનો વધારો આપવામાં આવ્યો છે. ઝાઝ ના આ નિર્ણયને કંપનીની ઝીંઈ ચ્યૂહરચનામાં એક મહત્વપૂર્ણ ફેરફાર માનવામાં આવી રહ્યો છે. નોંધનીય છે કે થોડા મહિના પહેલા કંપનીએ અસ્થિર બજાર પરિસ્થિતિઓને કારણે પગાર વધારો મુલતવી રાખવાની જાહેરાત કરી હતી. આ પછી, અચાનક લગભગ ૧૨,૦૦૦ કર્મચારીઓ, એટલે કે લગભગ ૨ ટકા કર્મચારીઓની છટણીના સમાચાર આવ્યા. જોકે, પાછળથી કંપનીએ કર્મચારીઓનું મનોબળ જાળવવા અને પ્રતિભા જાળવી રાખવા માટે ૮૦ ટકા કર્મચારીઓના પગાર વધારાની જાહેરાત કરી.

ટાટા ગ્રુપની આ મુખ્ય કંપની વૈશ્વિક સ્તરે ૬ લાખથી વધુ લોકોને રોજગારી આપે છે,

બેંકિંગ અને આઈટી શેરોમાં વેચવાલી જોવા મળી

સેન્સેક્સ ૨૦૬ પોઈન્ટ ઘટીને ૮૦,૧૫૭.૫૨ બંધ:નિફ્ટી પણ ૪૫ પોઈન્ટ ઘટાડો નોંધાયો

સેન્સેક્સના ૩૦ શેરમાંથી ૧૫ શેરમાં ઘટાડો અને ૧૫ શેરમાં તેજી રહી

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આજે અઠવાડિયાના બીજા ટ્રેડિંગ દિવસે, એટલે કે મંગળવાર, ૨ સપ્ટેમ્બરના રોજ, સેન્સેક્સ ૨૦૬ પોઈન્ટ ઘટીને ૮૦,૧૫૭.૫૨ પર બંધ થયો. નિફ્ટી પણ ૪૫ પોઈન્ટ ઘટીને ૨૪,૫૭૯ પર બંધ થયો.

સેન્સેક્સના ૩૦ શેરમાંથી ૧૫ શેરમાં ઘટાડો અને ૧૫ શેરમાં તેજી રહી. આજે આઈટી, બેંકિંગ અને ઓટો શેરોમાં સૌથી વધુ ઘટાડો થયો. જ્યારે ઊર્જા અને એફએમસીજી શેરોમાં વધારો થયો.

એશિયન બજારોમાં, જાપાનનો નિક્કેઈ ૦.૨૫% વધીને ૪૨,૨૯૨ પર અને કોરિયાનો કોસ્પી ૦.૬૬% વધીને ૩,૧૬૩ પર કારોબાર કરી રહ્યો છે.

હોંગકોંગનો હેંગ સેંગ ઈન્ડેક્સ ૦.૦૮૨% ઘટીને ૨૫,૫૯૬ પર અને ચીનનો શાંઘાઈ કમ્પોઝિટ ૦.૯૧% ઘટીને ૩,૮૭૬ પર બંધ રહ્યો હતો.

૨૯ ઓગસ્ટના રોજ, યુએસ ડાઉ જોન્સ



૦.૨૦% ઘટીને ૪૫,૪૫૫ પર બંધ થયો. નાસ્ડેક કમ્પોઝિટ ૧.૧૫% અને જીઍ૫ ૫૦૦ ૦.૬૪% ઘટાડો રહ્યો.

૧ સપ્ટેમ્બરના રોજ ૪,૩૪૫ કરોડના શેર ખરીદ્યા ૧ સપ્ટેમ્બરના રોજ, વિદેશી રોકાણકારો એ રોકડા સેગમેન્ટમાં રૂ.૧,૪૨૯.૭૧કરોડના શેર વેચ્યા હતા. તેમજ, સ્થાનિક રોકાણકારો એ રૂ. ૪,૩૪૪.૬૩ કરોડની નેટ ખરીદી કરી હતી.

ઓગસ્ટ મહિનામાં, વિદેશી રોકાણકારોએ ૪૬,૯૦૨.૬૨ કરોડના શેર વેચ્યા હતા. આ દરમિયાન સ્થાનિક રોકાણકારોએ ૬૪,૮૨૮.૫૫ કરોડની નેટ ખરીદી કરી હતી. ગઈકાલે બજારમાં ૫૫૫ પોઈન્ટનો ઉછાળો જોવા મળ્યો હતો

અઠવાડિયાના પહેલા ટ્રેડિંગ દિવસે, સોમવાર, ૧ સપ્ટેમ્બર, સેન્સેક્સ ૫૫૫ પોઈન્ટ વધીને ૮૦,૩૬૪ પર બંધ થયો. નિફ્ટી પણ ૧૯૮ પોઈન્ટ વધીને ૨૪,૬૨૫ પર ટ્રેડ થઈ રહ્યો હતો. સેન્સેક્સના ૩૦ શેરોમાંથી ૨૩ શેરો વધ્યા અને ૭ ઘટ્યા. મહિન્દ્રા અને ટાટા મોટર્સ સહિત કુલ ૧૬ શેરો ૧.૧૫% થી૩.૫૦% સુધીની તેજી રહી. સન ફાર્મા લગભગ ૨% ઘટીને બંધ થયા.

નિફ્ટીના ૫૦ શેરમાંથી ૪૨ શેર વધ્યા, ૫ શેર ઘટીને બંધ થયા. ૩જીઓનો ઓટો ઈન્ડેક્સ ૨.૮૦%, કન્ઝ્યુમર ડ્યુરેબલ્સ ૨.૦૮%, ફાઈનાન્શિયલ સર્વિસિસ ૧.૮૧%, મેટલ ૧.૬૪% અને આઈટી ઈન્ડેક્સ ૧.૫૯% વધ્યો. મીડિયા અને ફાર્મા ઈન્ડેક્સમાં ઘટાડો રહ્યો હતો.

સુધારો ખાસ કરીને નાના રોકાણકારો અને વિદેશી ખાતા ધરાવતા વ્યાવસાયિકો માટે

કાળા નાણાંના નિયમોમાં રાહત, નવો ફેરફાર જાહેર કરવામાં આવ્યો

મર્યાદા માત્ર ૫ લાખ હતી, હવે ફાઇનાન્સ એક્ટ ૨૦૨૪ દ્વારા વધારીને ૨૦ લાખ કરાઈ

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સેન્ટ્રલ બોર્ડ ઓફ ડાયરેક્ટ ટેક્સ એ કાળાં નાણાં અને કરચોરા લાદવાના કાયદા, ૨૦૧૫ બ્લેક મની એક્ટહેઠળના નિયમોમાં નવો ફેરફાર જાહેર કર્યો છે. હવે સ્થાવર મિલકત સિવાય, ૨૦ લાખ સુધીની વિદેશી નાણાકીય સંપત્તિ જો જાહેર કરવાની રહી જાય તો કરદાતાઓને દંડ અથવા કાયદાકીય કાર્યવાહીનો સામનો કરવો નહીં પડે. આ સુધારો ખાસ કરીને નાના રોકાણકારો અને વિદેશી ખાતા ધરાવતા વ્યાવસાયિકો માટે મહત્વનો છે.પરિપત્ર મુજબ, બ્લેક મની એક્ટની કલમ ૪૨ અને ૪૩ હેઠળ દંડ લાદવામાં નહીં આવે, તો કલમ ૪૯ અને ૫૦ મુજબ કાયદેસરની કાર્યવાહી પણ નહીં કરાય. જો કે, નવી મર્યાદા અનુસાર, નાણાકીય વર્ષ દરમિયાન કુલ જાહેર નહીં કરાયેલી વિદેશી નાણાકીય સંપત્તિનું મૂલ્ય ૨૦ લાખથી ઓછું હોવું જરૂરી છે. તો જ કાયદેસરની કાર્યવાહી સામે ઈમ્યુનિટી મળશે.

અગાઉ આ મર્યાદા માત્ર ૫ લાખ હતી, જે હવે ફાઈનાન્સ (નં. ૨) એક્ટ ૨૦૨૪ દ્વારા વધારીને ૨૦ લાખ કરાઈ છે.આ સુધારો ખાસ કરીને વૈશ્વિક સ્તરે કામ કરતા ભારતીય વ્યવસાયિકો, પગારદારો, એનઆરઆઈ અને વૈશ્વિક રોકાણકારો માટે રાહતરૂપ છે. ચાર્ટર્ડ એકાઉન્ટન્ટ અને '૧ ફાઈનાન્સ'ના પર્સનલ ટેક્સ વિભાગના વડા નિપતિ શાહનું કહેવું છે, 'આ રાહત વિદેશી બેંક ખાતા, ESOPs, મ્યુચ્યુઅલ ફંડ, પેન્શન યોજનાઓ જેવી નાણાકીય સંપત્તિઓને આવરી લે છે, જ્યારે વિદેશી સ્થાવર મિલકત હજુ પણ આ મુક્તિની બહાર રહેશે.'

UPI અને ATM થી PFના નાણાં ઉપાડી શકાશે:તૈયારીઓ પુર્ણ

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કર્મચારી ભવિષ્ય નિધિ સંગઠન (EPFO) ટૂંક સમયમાં તેની નવી ડિજિટલ સેવા 'EPFO 3.0' શરૂ કરવા જઈ રહ્યું છે. PM ઈકોનોમી એડવાઈઝર કાઉન્સિલના સભ્ય આર્યશ્રી સંજીવ સાન્યાલે EPFOમાં મોટા ફેરફારનો સંકેત આપ્યો છે. આ ફેરફાર ફક્ત ૨૦૨૫ માં જ લાગુ કરવામાં આવશે અને તેનો લાભ દેશના ૮ કરોડથી વધુ કર્મચારીઓને મળશે.મોબાઈલ એપ, ડિજિટલ ડેથક્લોઝ અને UPI પેમેન્ટ જેવી સુવિધાઓ કર્મચારીઓનું જીવન સરળ બનાવશે. EPFO 3.0 માત્ર રૂપિયા ઉપાડવાનું સરળ બનાવશે નહીં પરંતુ માહિતી અપડેટ કરવાની અને દાવા કરવાની પ્રક્રિયાને પણ ઝડપી બનાવશે. કર્મચારીઓ UAN એક્ટિવ કરીને અને આધારને ખાતા સાથે લિંક કરીને ATMમાંથી રૂપિયા ઉપાડી શકશે.આ નવી પ્રક્રિયામાં, EPFO તેના સબ્સ્ક્રાઈબર્સને એક ખાસ ATM કાર્ડ જારી કરશે, જે તેમના PF ખાતા સાથે લિંક હશે. આ કાર્ડનો ઉપયોગ કરીને, સબ્સ્ક્રાઈબર તેમના PFમાંથી રૂપિયા સીધા ATM મશીનોમાંથી ઉપાડી શકશે. UPI માંથી રૂપિયા ઉપાડવા માટે, તમારે તમારા PF ખાતાને UPI સાથે લિંક કરવું પડશે. આ પછી, સબ્સ્ક્રાઈબર તેમના બેંક ખાતામાં PFના રૂપિયા ટ્રાન્સફર કરી શકશે.જો તમે નોકરી ગુમાવશો, તો તમે એક મહિના પછી તમારા PFની ૭૫% રકમ ઉપાડી શકો છોપીએફ ઉપાડના નિયમો હેઠળ, જો કોઈ સભ્ય નોકરી ગુમાવે છે, તો તે ૧ મહિના પછી તેના પીએફ ખાતામાંથી ૭૫% રૂપિયા ઉપાડી શકે છે. આનાથી તે બેરોજગારી દરમિયાન તેની જરૂરિયાતો પૂરી કરી શકે છે. પીએફમાં જમા બાકીની ૨૫% રકમ નોકરી ગુમાવ્યાના બે મહિના પછી ઉપાડી શકાય છે.

નવા ઓર્ડરોની માત્રા ૫૭ માસની ટોચે રહેતા ઉત્પાદન વોલ્યુમમાં વધારો

દેશની ઉત્પાદન ક્ષેત્રની વિવિધ પ્રવૃત્તિઓ ૧૭ વર્ષની ટોચે પહોંચી

સર્વે રિપોર્ટમાં ઉત્પાદન ક્ષેત્રનો પરચેઝિંગ મેનેજર્સ' ઈન્ડેકસ વધી ૫૯.૩૦ રહ્યો

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અમેરિકા ખાતેથી ટેરિફના પડકારો વચ્ચે પણ સમાપ્ત થયેલા ઓગસ્ટમાં દેશમાં મજબૂત થરેલુ માગને પરિણામે ઉત્પાદન ક્ષેત્રની પ્રવૃત્તિ વધી સત્તર કરના વધુ વર્ષની ટોચે જોવા મળી છે. ઓગસ્ટમાં ઉત્પાદન ક્ષેત્રનો પરચેઝિંગ મેનેજર્સ' ઈન્ડેકસ (પીએમઆઈ) વધી ૫૯.૩૦ રહ્યો હોવાનું એક સર્વે રિપોર્ટમાં જણાવાયું છે. અસ્સેન્ડપી ગ્લોબલ દ્વારા તૈયાર કરાયેલ એચએસબીસીની ઈન્ડિયા મેન્યુફેકચરિંગ પીએમઆઈ જે જુલાઈમાં ૫૯.૧૦ સાથે ૧૬ મહિનાની ટોચે હતો તે ઓગસ્ટમાં વધી ૫૯.૩૦ રહ્યો છે. ૫૦થી ઉપરના પીએમઆઈને જે તે ક્ષેત્રનું વિસ્તરણ કહેવામાં આવે છે.

સતત પચાસ મહિનાથી પીએમઆઈ ૫૦થી ઉપર જોવા મળી રહ્યો હોવાનું તૈયાર કરાયેલા સર્વે રિપોર્ટમાં જણાવાયું હતું. માગમાં જોરદાર વધારાને કારણે દેશની ઉત્પાદન ક્ષેત્રની પ્રવૃત્તિને વધુ ગતિ મળી છે. ઊંચી માગને કારણે ફેકટરીઓને ઓર્ડરમાં વધારો થયો હતો. ૫૯.૩૦નો પીએમઆઈ કામકાજની સ્થિતિ વર્ષની સૌથી સારી રહી હોવાનો સંકેત આપે છે.નવા ઓર્ડરોની માત્રા ૫૭ માસની ટોચે રહેતા ઉત્પાદન વોલ્યુમમાં પણ વધારો જોવા મળ્યો છે. કાચા માલની માગ વધતા તેના ઉત્પાદનમાં સૌથી વધુ વધારો જોવા મળ્યો છે ત્યારબાદ કેપિટલ ગુડસ અને કન્ઝ્યુમર ગુડસના ઉત્પાદનમાં વધારો થયો છે. અમેરિકા દ્વારા ભારતના માલસામાન પર ૫૦ ટકા ટેરિફ લાગુ કરવાના નિર્ણયને પરિણામે નિકાસ ઓર્ડરમાં સાધારણ ઘટાડો જોવા મળ્યો હોવાનું સર્વે રિપોર્ટમાં નોંધવામાં આવ્યું છે. ટેરિફની અનિશ્ચિતતા વચ્ચે અમેરિકાના આયાતકારોએ નવા ઓર્ડર આપવાનું મોકૂફ રાખ્યું હતું.

જો કે ઓર્ડરની એકંદર સ્થિતિ મજબૂત રહી છે જે થરેલું માગ જોરદાર હોવાનું સૂચવે છે. થરેલું માગ જોરદાર રહેતા ટેરિફને લગતી અસર ઓગસ્ટમાં હળવી રહ્યાનું કહી શકાય એમ છે.

ઉદ્યોગ, રોકાણકારો અને બજાર GST કાઉન્સિલની બેઠક પર નજર

આજથી જીએસટી કાઉન્સીલની બેઠકનો પ્રારંભ

મુંબઈ,તા.૨

ઉદ્યોગ અને રોકાણકારો આગામી જીએસટી કાઉન્સિલની બેઠક પર નજર રાખી રહ્યા છે. એવી અપેક્ષા રાખવામાં આવે છે કે સરકાર ઓટો, હ્યુસ્કાર જેવા વપરાશ આધારિત શેત્રોને વધુ લાભ આપી શકે છે. ઉપરાંત, ઉદ્યોગ ગ્રુપ્સ ટેરિફના દબાણનો સામનો કરતી વખતે ઘોડી રાહતની અપેક્ષા રાખી રહ્યો છે.

ભારતીય ઉદ્યોગ, રોકાણકારો અને શેરબજાર જીએસટી કાઉન્સિલની બેઠક પર નજર રાખી રહ્યા છે. શાંઘાઈ કોઓપરેશન ઓર્ગેનાઈઝેશન કોન્ફરન્સ ઉપરાંત, તેઓ અમેરિકા પર પણ ધ્યાન આપી રહ્યા છે. જીએસટી કાઉન્સિલની બેઠક ૩ થી ૪ સપ્ટેમ્બર દરમિયાન યોજાવાની છે. આમાં કરચોરા તર્કસંગતીકરણની શક્યતા છે. તે જ સમયે, વડા પ્રધાન ચીન અને રશિયાના રાષ્ટ્રપતિઓ સાથે મુલાકાત કરી રહ્યા છે. વેપાર અંગે આમાં શું બહાર આવશે અને આ બધું શેરબજારને કેવી અસર કરશે? રોકાણકારો નીતિ સ્પષ્ટતા, મેક્રોઈકોનોમિક ડેટા અને વૈશ્વિક વિકાસ પર પણ નજર રાખી રહ્યા છે.

કેન્દ્રએ જીએસટી દરો અને સ્લેબને તર્કસંગત બનાવવાનો પ્રસ્તાવ મૂક્યો છે. આ હેઠળ, પાંચ અને ૧૮ ટકાનું બે-સ્તરીય કર માળખું અપનાવવામાં આવશે. ઉપરાંત, કેટલીક પસંદગીની વસ્તુઓ પર ૪૦ ટકાનો દર લાગુ કરવામાં આવશે. સ્લેબમાં ફેરફાર પર વ્યાપકપણે સંમત થતાં, કે એ ૪૦ લાખ રૂપિયા સુધીના ઈલેક્ટ્રિક વાહનો પર ૧૮ ટકા જીએસટી તરફેણ કરી છે, સૂત્રોએ જણાવ્યું હતું. જોકે, કેન્દ્ર ઈલેક્ટ્રિક વાહનો અપનાવવાને પ્રોત્સાહન આપવા આતુર છે અને ૫ ટકા દરની તરફેણ કરે છે અને કાઉન્સિલની બેઠકમાં પણ આ જ વલણ અપનાવવામાં આવશે.પી, સૂત્રો કહ્યે, ૨૦ લિટર પીવાનું પાણી, બિન-કાર્બોરેટેડ પીણાં, નમકીન, કેટલાક કુટવેર અને કપડાં, દવાઓ અને તબીબી ઉપકરણો જેવી મોટાભાગની સામાન્ય ખાદ્ય ચીજો ૧૨ ટકાથી ૫ ટકાના કર કીસ હેઠળ આવી શકે છે.પેન્સિલ, સાબલ, છત્રીથી જઈને વાળની પિન જેવી સામાન્ય રીતે ઉપયોગમાં લેવાતી વસ્તુઓ પણ ૫ ટકાના કર કીસ હેઠળ આવી શકે છે.

ઓટોમોબાઈલ જેવી વસ્તુઓ પર હાલમાં ૨૮ ટકાના સૌથી વધુ દરે કર લાદવામાં આવે છે. વળતર સેસ પણ છે, પરંતુ હવે એન્ટ્રી લેવલ કાર પર ૧૮ ટકા ટેક્સ લગાવી શકાય છે, જ્યારે જૈફ અને લક્ઝરી કાર પર ૪૦ ટકાના ભાસ દરે ટેક્સ લગાવી શકાય છે.તમાકુ, પાન મસાલા અને સિગારેટ જેવી અન્ય અવમૂલ્યન વાળેલી વસ્તુઓ પર પણ ૪૦ ટકાનો ભાસ દર લાગુ થશે.

ગુજરાત ઈન્ડસ્ટ્રીઝ પાવર કંપની લિમિટેડ
રજી.ઓ.: ગોલેથી, પાટણ - ૩૮૪૨૬૫.
વેબસાઈટ: www.gipcl.com
જાહેર સૂચના
ગુજરાત ઈન્ડસ્ટ્રીઝ પાવર કંપની લિમિટેડ (જુ.આઈ.પી.સી.એલ.) દ્વારા માનનીય ગુજરાત ઈલેક્ટ્રિસિટી રેગ્યુલેટરી કમિશન સમક્ષ દાખલ કરવામાં આવેલ નીચે મુજબની અરજીની સંબંધે ઈલેક્ટ્રોનિક પદ્ધતિથી ઈલેક્ટ્રોનિકલિ/ટપાલથી વાંધાઓ/સૂચનો આમંત્રિત કરવામાં આવે છે, જે મુજબ કંપનીના વર્તમાન વર્ષ માટે (SLPP) સબમિટ કરે.
૧. અરજી ક્રમાંક રજ્ઞ્ઞ્ઞ્ઞ/૨૦૨૫ મુજબ કિલ્લા પારડી પાવર પ્લાન્ટ ફેઝ-૧ ના ૨ x ૭૫૦ મેગાવોટ યુનિટના પુનઃ નિર્માણ, સ્થાપિત ક્ષમતામાં વધારો અને અસ્તુરણ પૂર્તિ માટે ઉભવતા ખર્ચાઓના મૂળી ખર્ચને મંજ

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Battle of cousins: BRS suspends KCR daughter Kavitha from party

'Anti-Party Acts, Recent Attitude' Cited

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Kavitha was recently removed from a Singareni coal miners' union associated with BRS

Hyderabad: The battle of cousins within former Telangana CM K Chandrasekhar Rao's BRS claimed its biggest casualty Tuesday when a disciplinary committee suspended his daughter and MLC K Kavitha from the party for an unspecified period, citing her "recent attitude and anti-party activities".

The implosion, which BJP attributed to a tussle among KCR's kin for the alleged spoils of the Kaleshwaram project scam, came a day after Kavitha publicly named her father's two influential nephews — former minister Harish Rao and ex-Rajya Sabha MP Joginapally Santosh Kumar — as being among the beneficiaries of corruption. But for the duo's alleged misdeeds, Justice (retd) P C Ghosh Commission would have found no fault with KCR while inquiring into the suspected irregularities in the Kaleshwaram project, she said.

Her remarks followed Revanth Reddy-led Congress govt's decision Monday to hand over the probe to CBI.

Kavitha formally heard about her suspension from Soma Bharat Kumar, the BRS general secretary who oversees disciplinary matters. Bharat had represented her in court when she was jailed along with AAP's Manish Sisodia in the Delhi excise case.

She was recently removed as president of Telangana Boggu Gani Karmikula Sangham, a Singareni coal miners' union associated with BRS.

The suspension letter issued to Kavitha purportedly doesn't provide any detailed reason for the step beyond mentioning she was found guilty of acting against the party's interest. Before the announcement, there was speculation that Kavitha could be expelled after KCR went into a huddle with senior functionaries in his farmhouse.

Kavitha's unease over her position in BRS became public in May after a letter she had written to her father was leaked to the media. She subsequently spoke of "ghosts around KCR".

While Kavitha's family, including her brother and former minister KT Rama Rao, remained mum, another ex-minister, Satyavati Rathore, told reporters her "imminent exit" would have no bearing on BRS. Other functionaries said KCR didn't see any difference between his family members in politics and the party's rank and file.

Sources close to Kavitha said she would soon decide on whether to remain a legislative council member or resign. Speculation is rife that she might launch a party.

Telangana BJP chief N Ramchander Rao said Kavitha's remarks against her own party reflected a family feud over "ill-gotten wealth". Congress said her suspension after an outburst against her own was proof of wrongdoing in the Kaleshwaram case.

HC grants interim protection to KCR

Telangana HC on Tuesday granted interim protection to BRS chief K Chandrasekhar Rao and former minister T Harish Rao from "any adverse action" based on the Justice P C Ghose Commission's report, until further orders, reports **Pinto Deepak.** The bench clarified CBI would conduct an investigation independently.

FERTILITY EDU CRISIS AMONG URBAN WOMEN
40% OF THEM RELY ON SOCIAL MEDIA FOR ADVICE

Many Indian women have traditionally not been very aware of fertility issues. A new survey found that 40% of young women use social media for reproductive health advice. Though many are educated, over half didn't understand egg freezing or marker tests for ovarian reserve



LOW FERTILITY ILLITERACY

AIIMS Delhi interviewed 285 women in the 28-38 years age group and found:

- **85%** were not aware of ovulatory periods in the menstrual cycle
- **8%** considered age over 35 years as a significant risk factor for infertility
- **50%** understood the need for assisted fertility treatment and donor oocytes in advanced age
- **97%** participants associated past intake of combined oral contraceptive pills with infertility

Source: IRMC Women's Health Journal



LOW OVARIAN RESERVE

- Ovarian reserve is the number of oocytes (immature eggs) in a woman's ovaries. It decreases with age or due to smoking, surgery or exposure to endocrine-disrupting chemicals found in plastics, pesticides
- To know their ovarian reserve, women can undergo a marker test to determine levels of Antimullerian hormone (AMH)
- Senior IVF specialist from the city, Dr Firuza Parikh, analysed lab data of over 50,000 women and found a faster rate of decline in AMH levels with age in healthy Indian women as compared to Caucasian women (Journal of Human Reproductive Sciences, 2021)

SOCIAL MEDIA AS FERTILITY ADVISOR

A new survey done by Motherhood Hospital and Nova IVF among 23- to 38-year olds found:

- 51% of the respondents were unaware of AMH levels
- 18% tested their AMH levels, while 82% didn't
- 42% sourced fertility information from social media, 29% from friends, 14% from family & 12% from TV shows/movies
- 48% planned pregnancy between 28-32 years (another 29% prefer 33-36 years)
- 55% have heard of egg freezing but feel they don't know enough

Can person shoot himself in chest with rifle, SC asks MP

New Delhi: Is it possible for a person to shoot themselves in the chest with a rifle? SC raised this question while wondering whether the death of a man, who died in similar circumstances, was really a case of suicide as alleged by the prosecution or one of murder.

Hearing a plea against anticipatory bail granted to an accused who is facing an abetment of suicide charge, a bench of justices Manoj Misra and Ujjal Bhuyan sought MP govt's response on whether the case was probed from all angles, raising doubts on police report that it was suicide.

"To our understanding, whether a person would be able to use a rifle to shoot himself on the chest needs examination. In such circumstances, we deem it appropriate to require the state to file an affidavit whether the investigating agency has investigated all aspects of the matter including possibility of a murder," the bench said. As per the prosecution, the deceased died by suicide by shooting himself in the chest with a rifle. Relying on the prosecution's version, the high court granted anticipatory bail to the accused under IPC Section 306.

SUICIDE OR MURDER?

"Such affidavit shall be filed within a period of two weeks. Along with the affidavit, the autopsy report of the deceased as well as the material collected during investigation, particularly in respect of seizure and length of the rifle, shall be disclosed/filed," SC said. TNN

Scores line up to adopt newborn left in garbage van

AmarjeetSingh1 @timesofindia.com

Bhopal: Her biological parents didn't want her. Now, compassionate strangers are beelining to give her a home. Abandoned at birth, sanitation workers found this newborn girl in a garbage collection van on Aug 29 in Bareli in MP's Raisen district. Three days after she made a miraculous recovery, at least a hundred have come forward, eager to adopt her.



The infant's 30-year-old mother, who had dumped her in a garbage bin, was arrested Sunday. She had given birth out of wedlock and told police the baby's father had forced her to abandon the child. He was arrested Monday.

"The little one's plight shocked and saddened me. I wish to adopt her and give her a happy life," said Rajendra Rai (57), a father of two who runs a hotel in Bareli. He went to the local police station, where officials told him about the adoption process. "I will discuss it with my wife, who has often expressed her wish to adopt. We will travel to Bhopal and apply for adoption if needed," Rai added.

Like him, hundreds have so far reached out to officials, approaching the doctors treating the baby, local police personnel, and Raisen district child welfare committee.

"I have received inquiries from at least a hundred people. Many, including the local corporator, expressed the desire to adopt the girl. I, too, wanted to adopt her as we are a childless couple. To my surprise, there were already so many waiting at the CWC office. Even two nurses of the hospital expressed their wish to adopt her," said Dr Hemant Yadav, block medical officer at Bareli CHC.

"I have been explaining the norms and processes to people, from the CWC to the State Adoption Resource Agency," Dr Yadav added.

Police officials, too, are facing queries. "Around a dozen people have approached us. People are reaching out wherever they think they can get help. We are explaining the norms to everyone," said Bareli PS in-charge Kapil Gupta.

Apart from locals, people from other parts of the district also wish to adopt the infant.

Full report on www.toi.in

Reds kill 2 'police informers' in Sukma, send warning to locals

Raipur: Maoists killed two men in Sukma district in Chhattisgarh's Bastar division early Tuesday. A leaflet recovered from the spot accused them of being police informers, and alleged the duo had been in contact with security forces since 2022.

The bodies of Padam Poojia (24) and Padam Devendra (28) were found on the outskirts of Nandapara village. The murders took this year's civilian death toll in Maoist violence in Bastar to 35.

Kerlapal area committee cadres in Darbha division claimed responsibility for the killings in the leaflet, which also named a DRG force jawan whom Maoists termed a "traitor", claiming the two had been passing on information to him.

The leaflet threatened locals against working with police, warning that they would not be spared.

"A team was sent to the spot for investigation. The case is being probed," Sukma SP Kiran Chavan said.

Tuesday's double murder followed a series of attacks on civilians whom Maoists accused of aiding police. On Aug 27, a shikshadoot (volunteer teacher) was killed in Sukma. TNN

Cheque bounce convict can make deal, avoid jail: SC

AmitAnand.Choudhary @timesofindia.com

New Delhi: A person can avoid a jail term after being convicted in a cheque bounce case if they reach a compromise with the complainant, Supreme Court said on Tuesday, holding that once a compromise deed is signed between the parties, conviction under Section 138 of Negotiable Instruments Act cannot be sustained.



A bench of justices Aravind Kumar and Sandeep Mehta said the offence of dishonour of cheque was mainly a civil wrong and had been made specifically compoundable.

"This court referred the offence under Section 138 NI Act as a Civil Sheep in Criminal Wolf's Clothing which meant issues agitated by the parties under the said provision are of private nature which are brought within the sweep of criminality jurisdiction in order to strengthen the credibility of the negotiable instruments," the bench said while referring to an earlier verdict of the apex court.

The court set aside a Punjab and Haryana HC ruling that had refused to quash conviction in a cheque dishonour case after settlement between the parties.

SC said when parties enter into an agreement and compound the offence, they do so to save themselves from the process of litigation. Hence, courts cannot override such compounding and impose its will, it said.

"Once the complainant has signed the compromise deed accepting the amount in full and final settlement of the default sum, the proceedings under Section 138 of the NI Act cannot hold water; therefore, the concurrent conviction rendered by the courts below has to be set aside," SC said.

"Therefore it is very clear that although dishonour of cheque entails criminal consequence...The legislature by virtue of Section 147 of NI Act has made it compoundable notwithstanding provisions of Code of Criminal Procedure, 1973," it said

DNA tests shouldn't be ordered on demand: HC

Vasantha.Kumar @timesofindia.com

Bengaluru: The Karnataka HC has ruled that courts must not allow DNA tests on demand unless the strict conditions laid down in Section 112 of the Evidence Act are met.

Justice M Nagaprasanna delivered the judgment while quashing a Channarayapatna civil court order that had authorised a DNA test in a partition dispute involving the sons of AC Sanne Gowda.

The judge underlined that compelling such tests without legal necessity undermines the sanctity of marriage and the legitimacy of a child. He said it also violates the fundamental rights to privacy and dignity guaranteed under Article 21 of the Constitution.

Sec 112 of the Evidence Act is based on the maxim "pater est quem nuptiae demonstrant" (the father is he whom the marriage indicates), presuming the legitimacy of a child born during lawful wedlock. A DNA test, the court held, can be ordered only when non-access during the relevant period is both pleaded and proved, since the presumption of legitimacy is rooted in public morality and societal peace.

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PUBLIC NOTICE

Gujarat Industries Power Company Limited (GIPCL) invites comments/objections/suggestions from stakeholders on the following Petitions pertaining to Surat Lignite Power Plant (SLPP) filed by it before Hon'ble Gujarat Electricity Regulatory Commission (GERC):

1. Petition No. 2228/2023 seeking approval for additional capitalization of expenditure to be incurred for Renovation, Modernization and Life Extension of 2 x 125 MW SLPP-I Units, extension in PPA duration by 10 years and revision in PPA Normative Parameters.
2. Petition No. 2176/2022 seeking approval for the additional capitalization of expenditure incurred in SLPP- I & II to comply with the Revised Emission Rules, 2015.

The Petition along with relevant documents are uploaded on www.gipcl.com. The stakeholders shall send their comments/objections/suggestions to The Secretary, Gujarat Electricity Regulatory Commission, 6th Floor, GIFT ONE, Road 5C, Zone 5, GIFT City, Gandhinagar - 382355, Gujarat in five copies along with affidavit in support of their submissions with a copy to Gujarat Industries Power Company Ltd within 15 days from the date of publication of this Public Notice.

Date : 03.09.2025 Addl. General Manager (Commercial & Legal)

PROCLAMATION REQUIRING THE APPEARANCE OF ACCUSED PERSON

See Section 82 CrPC

Whereas complaint has been made before me that accused person **Ramesh Kumar Rai Singh,** Prop. of **M/s Ramesh Newandram Raisinghani** R/o Subzi Mandi Market yard, APMC Shop No. A-10-11, 8-9, National Highway, Opp. Somnath Hotel Keshod, Distt.-Junagarh, Gujrat-362220, **Also at:** Swami Lilashah Park, KBC Complex near Shri Siyaram Furniture Keshod, Gujrat, has committed (or is suspected to have committed) the offence in **CC No. 2942/2019, U/S 138 NI Act, PS Mahendra Park, North-West Distt., Delhi** and it has been returned to a warrant of arrest thereupon issued that the said accused person cannot be found, and whereas it has been shown to my satisfaction that the said accused person has absconded (or is concealing himself to avoid the service of the said warrant);

Proclamation is hereby made that **Ramesh Kumar Rai Singh,** Prop. of **M/s Ramesh Newandram Raisinghani** the said accused of **CC No. 2942/2019, U/S 138 NI Act, PS Mahendra Park, North-West Distt., Delhi,** is required to appear before this Court to answer the said complaint on or before **09.10.2025.**

By Order
Ms. Amardeep Kaur
ACJM, North, Room No.-216,
Rohini Courts, Delhi

DP/11553/NW/2025
(Court Matter)

GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATION
DEPARTMENT OF TELECOMMUNICATIONS
Office of Controller of Communication Accounts
7th Floor, P & T Admn. Bldg, Gujarat Telecom Region, Khanpur, Ahmedabad-380001.
ISO: 9001:2005 079-25501237 pension.ccagj-dot@gov.in

60TH TELECOM PENSION ADALAT, AT RAJKOT ON 26-09-2025

The Department of Telecommunication O/o CCA Gujarat is holding Pension Adalat, for redressal of grievances of employees retired from BSNL and DOT from **Rajkot, Bhavnagar, Amreli, Junagadh, Jamnager & Bhuj SSA's at Rajkot on 26-09-2025.** Pensioner's LC/ DLC Camp will also be organized at Rajkot on 26-09-2025.

Grievances in this connection may be forwarded by the pensioners to the **Office of Controller of Communication Accounts, 7th Floor, P&T Administrative Building, Gujarat Telecom Region Khanpur Ahmedabad** or can be sent on E-mail on **pension.ccagj-dot@nic.in,** so as to **reach on or before 16-09-2025.** Details in this regard can also be obtained on **Phone No 079-25501237.**

Pensioners are requested to mention their mobile no and e-mail address with the grievance.

(Note : Compassionate appointment, pay irregularity, sub-judice matter, policy matter should not be the subject matter of grievance in the Adalat as the same are decided by other authorities)

NOTIFICATION
GOVERNMENT OF GUJARAT
REVENUE DEPARTMENT
SECRETARIAT, GANDHINAGAR.
(The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013) (30 of 2013)

Dist: Ahmedabad **Dated 9 June, 2025**

No. AM-M-2025-375-LAM-142025-351-GH

In exercise of the powers conferred by sub-section (1) of section 11 of the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation & Resettlement Act, 2013 (No. 30 of 2013)(hereinafter referred to as "the Act"), the Government of Gujarat hereby declares that the land / lands mentioned in the Schedule annexed hereto is / are required for the purpose of acquisition for the public purpose of **"Construction of ROB in lieu of L.C. No. 40/B on Varmor-Vithalpur-Detroj-Kadi Road K.m. 0/0 to 36/400 Mehsana-Viramagam Railway Line."**

(2) It is notified that, -

(1) The area of land / lands required for the above project is **H. 00-98-80 Sq.mt.** and is at Detroj Village of Detroj-Rampura Taluka of Ahmedabad District;

(2) The public purpose involved in the above project are: For the purpose of construction of the infrastructure project of **"Construction of ROB in lieu of L.C. No. 40/B on Varmor-Vithalpur-Detroj-Kadi Road K.m. 0/0 to 36/400 Mehsana-Viramagam Railway Line."**

(3) The reasons necessitating the displacement of the affected persons are –Due to acquisition of the Land, specified in the SCHEDULE for public purpose of **"Construction of ROB in lieu of L.C. No. 40/B on Varmor-Vithalpur-Detroj-Kadi Road K.m. 0/0 to 36/400 Mehsana-Viramagam Railway Line."**

(4) The summary of the Social Impact Assessment Report is as under :- Under Section 10A of the Gujarat Act of 12 of 2016, exemption is given under Section 10A of the Act vide Revenue department, Government Of Gujarat Notification No:-AM-M-2025-146-LAM-142025-351-GH, Dated:-03/03/2025 it is not required for the summary of the Social Impact Assessment Report.

(5) The particulars of the Administrator appointment under section 43 of the Act are as under:- Prant Officer, Viramgam.

(3) All the persons interested in these lands are hereby notified not to obstruct and disturb any Surveyor or other staff to enter upon and survey the land. Any transaction in respect of whole or part of these lands in whatsoever manner including by sale, lease, mortgage, charge of name, exchange entered into after the date of this Notification made without permission of the Collector shall not be taken into consideration by the officer assessing the compensation under section 27 of the Act for a particular portion of the land as may be finally acquired.

(4) The Government of Gujarat, if satisfied about acquisition of the land for aforesaid public purpose, may publish final declaration under section 19 of the Act in this regard in the manner and timeframe as prescribed under the Act. In case the acquisition is dropped partially or entirely, such lands shall be notified in a proper manner as provided under the Act.

(5) In exercise of the powers under clause (g) of section 3 of the Act the state Government is pleased to designate Prant Officer, Viramgam function and discharge the duties as Collector under the provisions of the Act in respect of these lands.

(6) Objection to the acquisition, if any, may be find the person interested within 60(Sixty Days) from the date of the publication of this notification as provided under Section 15 of the ACT before Collector or Prant Officer, Viramgam.

SCHEDULE

District: Ahmedabad **Taluka: Detroj-Rampura** **Village: Detroj**

Sr. No.	Survey / Block No.	Area to be Acquired (H.Are.Sqr.Mtr.)	Sr. No.	Survey/ Block No.	Area to be Acquired (H.Are.Sqr.Mtr.)
1	331	00-02-90	11	712	00-02-97
2	330	00-02-34	12	713	00-04-87
3	335	00-03-12	13	714	00-23-84
4	336	00-26-47	14	1A/715	00-11-01
5	1076	00-01-86	15	719	00-00-29
6	1077	00-02-83	16	720	00-00-60
7	337	00-01-00	17	721	00-00-70
8	346	00-05-29	18	723	00-00-50
9	347	00-05-85	19	724	00-00-85
10	343	00-01-00	20	725	00-00-55
		Total Area:			**00-98-80**

By Order and in the name of Governor of Gujarat

Sd/-
(Pyaruk J. Patel)
Deputy Secretary to Government

INF/AE0/967/2025

GUJARAT INDUSTRIES POWER CO. LTD.
TENDER FOR BIENNIAL RATE CONTRACT FOR COMPLETE ELECTRICAL SYSTEM AT SURAT LIGNITE POWER PLANT (SLPP) INCLUDING 5MW&1MW SOLAR PLANT FOR THE YEAR 2025-27

Interested Vendors may submit their Bids on two-part basis through (n) Procure (Tender ID is 220327). It can also be viewed from Company's website **www.gipcl.com.** The last date of submission of bid is **23/09/2025 up to 17:30 hrs.**

ADDITIONAL GENERAL MANAGER (O&M) SLPP

OFFICE OF COMMISSIONER, PROHIBITION AND EXCISE, TELANGANA, HYDERABAD.

Cr.No. 536/2025/DDB/53

NOTIFICATION

INVITATION FOR GRANT OF PRIOR CLEARANCE FOR ESTABLISHMENT OF MICROBREWERY

Applications are invited from the interested persons in Form MB- 1A for grant of prior clearance for establishment of microbrewery to an establishment licensed by the local authority to serve food such as Hotel or a Restaurant or having 2B Bar / Elite Bar / C1-Club / TD 1/TD 2 licenses in terms of Telangana Microbrewery Rules, 2015. The application fee is Rs. 1,00,000/-. The last date for submission of application Form(s) is 25.09.2025.

For further details log on to **tgbcl.telangana.gov.in.**

R.O. No. : 564-PRCL-AGENCY/A2/VT/1/2025-26

Commissioner, Prohibition & Excise Telangana, Hyderabad

WESTERN RAILWAY-VADODARA DIVISION

WALK-IN-INTERVIEW

ENGAGEMENT OF RETIRED STATE GOVERNEMNT OFFICIALS FROM REVENUE DEPARTMENTS ON CONTRACT BASIS IN VADODARA DIVISION

VACANCY DETAILS

PLACE	CATEGORY/ NAME OF POST	GRADE PAY	NO. OF POST	AGE LIMIT	REMUNERATION IN RS. PER MONTH
Sr. Divisional Personnel Officer DRM Office Vadodara	Retired State Govt. Officials from Revenue Departments (Vadodara Area)	GP 4200 to 5400 or equivalent in State Govt.	01	Maximum 65 years (applicant of max 64 years may apply)	The remuneration will be determined by deducting the basic pension from the last pay drawn at the time of retirement. (All pay, allowances & leave admissible As per OM No. F.No. 3-25/2020-E. IIIA dated 09.12.2020 of deptt Of Expenditure, Ministry of Finance)

Experience: Work related to Survey, land acquisition matters & updating of land records, coordination with State Government agencies for forest/wild life clearances in projects where land acquisition is involved.

The re-engagement will be offered purely on contract basis up to 21.02.2026 from the date of contract.

THE DATE OF INTERVIEW, TIME & VENUE ARE AS UNDER

DATE & DAY	VENUE/PLACE	TIME
25.09.2025 (THURSDAY)	Sr. DIVISIONAL PERSONNEL OFFICER, DRM OFFICE PRATAPNAGAR, VADODARA-390004	10:00 AM ONWARDS

For more information log in to **www.wr.indianrailways.gov.in** and click on Divisions and then Vadodara (BRC)

Sd/-
BRC162

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૧૮૯ તલાટીઓની બદલી છતાં ફરી બદલી માટે રજૂઆત

અમદાવાદ જિલ્લામાં તલાટીઓની બદલીનો ફરી ગંજીફો ચિપાશે

જિ.પં.ના સદસ્યો ૩ દિવસમાં યાદી તૈયાર કરી ડીડીઓને આપશે

| અમદાવાદ |

અમદાવાદ જિલ્લામાં છેલ્લા બે વર્ષમાં ૧૮૯ તલાટીઓની બદલી છતાં ફરી બદલીનો ગંજીફો ચિપાયો. થોડાક મહિના અગાઉ જ બદલીઓ થઈ હતી. જેમાંથી કેટલાક તલાટીઓ તો રાજકીય વગનો ઉપયોગ કરી ટુંકાગાળામાં પોતાની જુની જગ્યા પર પરત ફર્યા છે. જિલ્લા સદસ્યો દ્વારા બદલી માટે કરાયેલી રજૂઆતને ડીડીઓએ સિલકરી લીધી છે. ત્રણ દિવસમાં યાદી તૈયાર કરીને ડીડીઓને આપશે. આ યાદી ડીડીઓ નિર્ણય કરશે. વર્તમાન સમયમાં તલાટીઓની વારંવાર બદલીઓ કરાઈ રહી છે. હાલ ૨૦માંથી ૨૫ તલાટીની બદલીની શક્યતા છે. પરંતુ જિલ્લા પંચાયતના સદસ્યોની ફરિયાદ બાદ બદલીઓની યાદી તૈયાર થઈ નઈ છે. રાજકીય આગેવાનોની જગ્યા બદલાયેલી યાદીને લઈને ફરી વિવાદ ચર્ચાયો છે.

સ્થાનિક સ્વરાજ્યની ચૂંટણીને હવે ત્રણ મહિનાનો સમય બાકી છે, ત્યારે ફરીવાર બદલીઓ કરવાનું આયોજન થયું રહ્યું છે. અમદાવાદ જિલ્લામાં વર્ષ ૨૦૨૩માં ૧૦૮ અને વર્ષ ૨૦૨૪માં ૮૧ તલાટીઓ મળી કુલ ૧૮૯ તલાટીઓ બદલાયા છે, જે અગાઉના વર્ષ કરતાં સૌથી વધુ હોવાનું મનાય છે. જિલ્લાના નવ તાલુકામાં અંદાજિત ૪૨૩ તલાટીઓનું માળખુ છે. જેમાં ત્રણ તલાટીઓની સામાન્ય બદલી દાયકો કરાયો છે. જિલ્લા પંચાયતના સદસ્યોની ખાનગી મિટીંગમાં તલાટીઓની બદલીઓની યાદી તૈયાર થઈ ગઈ છે. રાજકીય આગેવાનોની જીદ્દ બાદ કરાયેલી યાદીને લઈને ફરી વિવાદ ચર્ચાયો છે.

કેટલાક વાહન ડીલરો ફરિયાદોને ધ્યાન પર લેતા નથી

વાહન ડીલરો માટેની ટી.સી.ની સમય મર્યાદા પાંચ વર્ષની કરી લોક ફરિયાદનો છેદ ઉડાડ્યો

| અમદાવાદ |

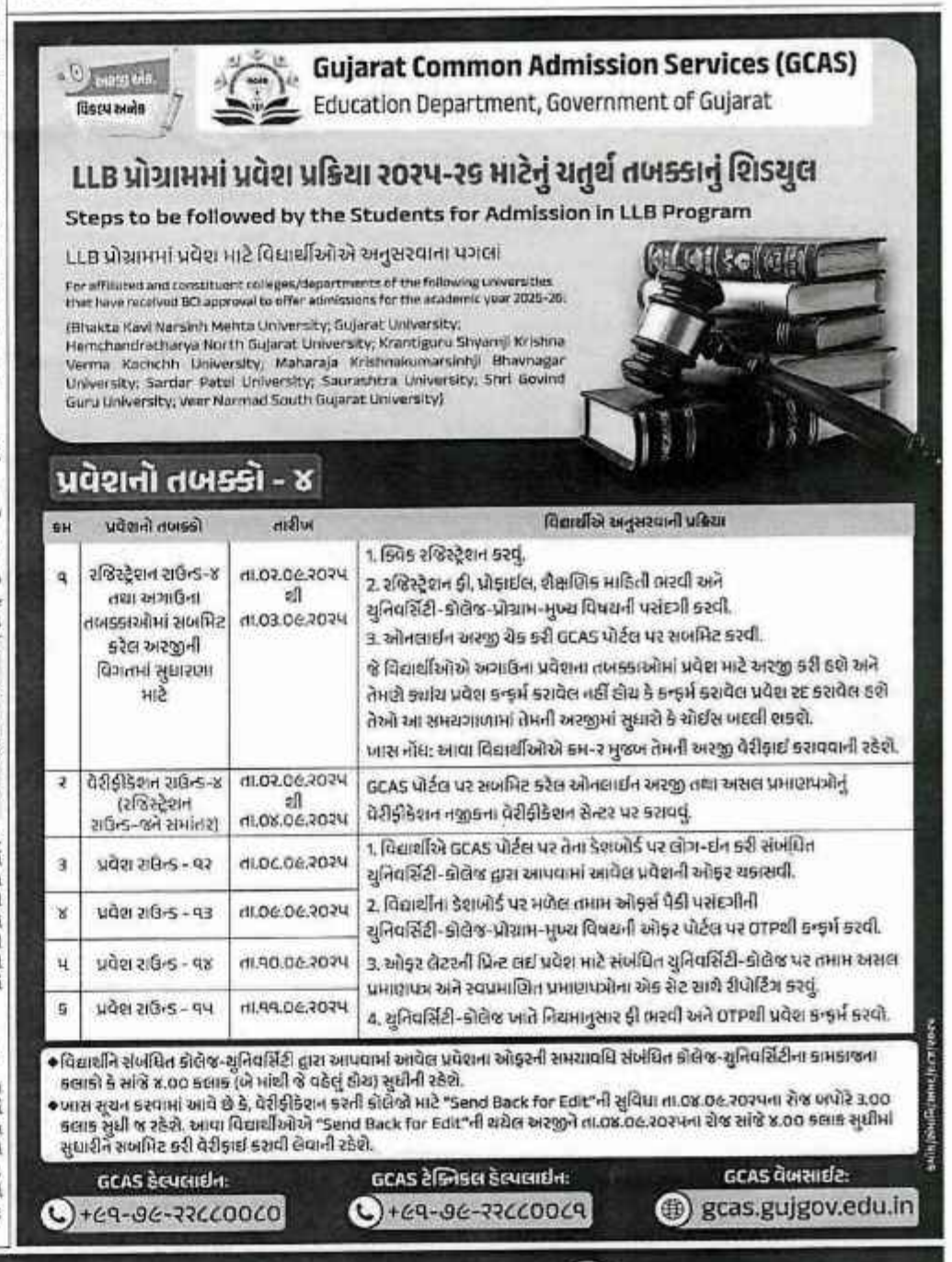
વાહન ડીલરોને અપાતા ટ્રેડ સર્ટિફિકેટ (ટી.સી.)ની સમય મર્યાદા પાંચ વર્ષની કરીને લોક ફરિયાદનો છેદ જ ઉડાવી દેવાતા પૂર્વ ઉચ્ચ અધિકારીઓએ ભારે નારાજગી વ્યકત કરીને બુદ્ધિ વગરનું કામ કર્યું હોવાની ચોખ્ખી ટીકા કરી છે. RTOમાં તો કમનીષી ઘટશે. સાથે સાથ વિભાગના ઉચ્ચઅધિકારીઓએ ડીલરોને સુચિત આપી લોક ફરિયાદોનો છેદ જ કાઢી નાંખ્યો હોવાનું જણાવતા કલાસવન કક્ષાના પૂર્વ અધિકારીઓએ કહ્યું કે, નવા વાહનમાં પડતી તકલીફમાં કેટલાક વાહન ડીલરો ફરિયાદોને ધ્યાન પર લેતાં નથી, છેવટે વાહન માલિક RTO કચેરીથી લઈ મીનીસ્ટર સુધી ઓનલાઈન અને ઓફલાઈન ફરિયાદ કરે તો કેટલાક કિસ્સામાં ન્યાય મળતો હતો. ફરિયાદોને અપરંપાર પડશે.

શહેરના નાના-મોટા મળી ૫૦૦ અને રાજ્યમાં ૪૦૦૦ વાહન ડીલરો પર લગામ જરૂરી

વાહન ડીલરોએ નામ નહીં આપવાની શરતે કહ્યું કે, ગ્રાહકોને ફરિયાદ હોય તો ગ્રાહક ગુજરાતમાં જઈ શકે છે. સબંધિત કંપનીમાં ફરિયાદ કરી શકે છે. ફરિયાદોને નવા વાહન માટે મળેલા ટ્રેડ સર્ટિફિકેટ (ટી.સી.)ની સમય મર્યાદા સાથે કોઈ સબંધ જ નથી. વાહન માલિકોએ કહ્યું કે, કેટલાય વાહન ડીલરો નવા ટુવ્હીલરમાં RTO રજિસ્ટ્રેશનની ઓપેરા કી ચલૂલે છે. જેના માટે RTOમાં ફરિયાદ વિભાગ જ નથી. પૂર્વ અધિકારીઓએ કહ્યું કે, આ નિર્ણયને અમુક મહિના જ થયા છે. શહેરના નાના-મોટા મળી ૫૦૦ અને રાજ્યમાં ૪૦૦૦ વાહન ડીલરો પર લગામ જરૂરી છે.

અમિત ખૂંટ આત્મહત્યા કેસ : રાજદીપસિંહની HCમાં આગોતરા જામીન અરજી

અમદાવાદ : ગેરકાયદેસર પૂર્વ પરવાનાવાળા પોપટભાઈ ભોરણિયાની વર્ષ ૧૯૮૮મા ગજવંદન કાર્યક્રમમાં જ ગિલોચણી ગોળીઓ પરથી દઈ જાહેરમાં અનસનાટીભરી હત્યા કરવાના કેસમાં ટાડા એક્ટ હેઠળ સજા પામેલા અનિરુદ્ધસિંહ જાડેજા(રીબડા)ને જેમાં જવાનો વારો આવ્યો છે, ત્યારે બીજીબાજુ, અનિરુદ્ધસિંહનો પુત્ર રાજદીપસિંહ રાજકોટના અમિત ખૂંટ નામના યુવકની આત્મહત્યા માટે દુષ્પ્રેરણાના ચકચારભર્યા કેસમાં ફસાયો છે. રાજદીપસિંહે અમિત ખૂંટ આત્મહત્યા કેસમાં પોતાની સંભવિત પરપકડ ટાળવા ગુજરાત હાઈકોર્ટમાં આગોતરા જામીન અરજી કરી હતી. જો કે, સરકારપક્ષ તરફથી અરજીનો જોરદાર વિરોધ કરાયો હતો. તમામ પક્ષકારોની સુનાવણી પૂરી થતાં હાઈકોર્ટે રાજદીપસિંહના આગોતરા જામીન પરનો ચુકાદો અનામત રાખ્યો હતો. ગત વિધાનસભાની ચૂંટણીઓ દરમ્યાન આરોપી રાજદીપસિંહ અને તેના પિતા અનિરુદ્ધસિંહને કોઈક જમીન પચાવવા બાબતને લઈ રાજકોટના અમિત ખૂંટ નામના યુવક સાથે ઝપાઝપી થયો હતો. જે અંગે અમિત ખૂંટે પોલીસ ફરિયાદ પણ કરી હતી. બાદમાં અમિત ખૂંટે અનિરુદ્ધસિંહની ગેરહાજરમાં પૂર્વ પરવાનાવાળા પોપટભાઈ ભોરણીયા હત્યા કેસમાં અનિરુદ્ધસિંહની સજા માફી રદ કરવા બાબતે મૃત વિદ્યાર્થીના અરજી પણ કરી હતી.



ગુજરાતની સર્વશ્રેષ્ઠ ન્યૂઝ ચેનલ
સંદેશ NEWS
હવે ડીડી ફ્રી ડિશ ચેનલ નંબર 120 પર
સંદેશ Free Dish
DTPL | TATA SKY | DISH TV | AIRTEL TV | VIDEOCON D2H | D2H BIRLA | SITI
268 | 1722 | 1296 | 586 | 1645 | 1722 | 506
DEN | VISH | K.TEL | HATHWAY | GTPL | SIRIUS | Spectranet
586 | 565 | 226 | 273 | 582 | 576 | 575

MD, MS અને પીજી ડિપ્લોમાં કોર્સમાં પ્રવેશ માટે રજિસ્ટ્રેશન શરૂ

પીજી મેડિકલની ૨,૮૪૭ જેટલી બેઠકમાં પ્રવેશ માટે ૧૦ સપ્ટે. સુધી રજિસ્ટ્રેશન કરાવી શકાશે

પ્રવેશ સમિતિ દ્વારા વેરિફિકેશન માટે રાજ્યમાં કુલ ૧૭ જેટલા હેલ્પ સેન્ટર જાહેર કર્યા

| અમદાવાદ |

મેડિકલ કોર્સની પ્રવેશ સમિતી દ્વારા આજે તા.૨ સપ્ટેમ્બરથી MD, MS અને પીજી ડિપ્લોમાં કોર્સમાં પ્રવેશ માટે રજિસ્ટ્રેશન શરૂ કરવામાં આવ્યું છે. NEET-PGની ક્વોલિફાય પરવાનાવાળા વિદ્યાર્થીઓ પીજી મેડિકલની ૨,૮૪૭ જેટલી બેઠકમાં પ્રવેશ માટે આગામી તા.૧૦ સપ્ટેમ્બર સુધી રજિસ્ટ્રેશન કરાવી શકશે. પ્રવેશ સમિતી દ્વારા વેરિફિકેશન માટે રાજ્યમાં કુલ ૧૭ જેટલા હેલ્પ સેન્ટર જાહેર કરાયા છે.

વર્ષ-૨૦૨૪-૨૫ની શિક્ષણિક રાજ્યમાં પીજી મેડિકલ કોર્સમાં MD અને MSની કુલ ૨,૮૦૮ બેઠક મંજૂર થયેલી હતી, જેમાથી ૨,૭૮૧ બેઠકમાં પ્રવેશ આપવામાં આવ્યો હતો. જેમાં સરકારી ક્વોટામાં ૧,૭૮૧, ઓલ ઈન્ડિયા ક્વોટામાં ૬૩૭, મેનેજમેન્ટ ક્વોટામાં ૧૮૫ અને એનઆરઆઈ ક્વોટામાં ૧૬૮ પ્રવેશ થયા હતા. આવી જ રીતે પીજી ડિપ્લોમામા મંજૂર થયેલી ૩૯ બેઠકોપૈકી ૨૨મા પ્રવેશ થયા હતા, જોકે ૩૪ જેટલી બેઠકોમાં તબીબી અધ્યાપક ન હોવાથી પ્રવેશ થયા નહોતાં. સમિતીએ જાહેર કરેલા શેડ્યુમાં રજિસ્ટ્રેશન માટે વિદ્યાર્થીઓએ ફીન ભરીદી. સહિત કુલ ૨૮,૦૦૦ ફી ભરવાની રહેશે. હેલ્પ સેન્ટર ખાતે વેરિફિકેશન માટે અગાઉથી અપોઈન્ટમેન્ટ લેવાની રહેશે. નવી મંજુરીઓ બાદ બેઠકોની સંખ્યામાં વધારો થશે.

૧ હજાર બેઠકોની માગ, એકપણની મંજૂરી નહીં

ગુજરાતમા પીજી મેડિકલની નવી ૧ હજાર જેટલી બેઠકોની કેન્દ્ર પાસે મંજૂરી માગવામા આવી છે, પરંતુ હજુ સુધી એકપણ બેઠકની મંજૂરી આવી નથી. સૂત્રો પાસેથી મળતી માહિતી મુજબ, રાજકોટની GMERS કોલેજોમા નવી ૪૦૦ બેઠક, સરકારી કોલેજોમા ૨૫૦ અને બાકીની કોલેજો દ્વારા પણ ૩૦૦થી વધુ નવી બેઠકની મંજૂરી માગવામા આવી છે. જોકે ઠલગા પીજી મેડિકલમા નવી બેઠકની મંજૂરી આપવાની પ્રક્રિયા ચાલી રહી હોવાનું જણાવા માર્યું છે.

ગંદકી કરવા બદલ ૨૧ એકમો સીલ

અમદાવાદ : AMC-ના પશ્ચિમ અને ઉત્તર- પશ્ચિમ ઝોનના સોલિડ વેસ્ટ વિભાગ દ્વારા જાહેર માર્ગ પર ગંદકી-ખુલ્લા વરસાદી પાણીવાળા એકમો, શાકમાર્કેટ વેસ્ટના ફેરિયા, પાનના ગલ્લા, ચાની કીટલીઓ દ્વારા પ્રતિબંધિત પ્લાસ્ટિકની વપરાશ, સંગ્રહ અને વેચાણ કરતા તેમજ કન્સ્ટ્રક્શન સાઈટોના મેટિરિયલ્સ ઢોકળા ૮૧૦ એકમોમાં ચેકિંગ કરીને ૪૧૧ એકમોને નોટિસ આપવી હતી અને ૨૧ એકમોને સીલ કરાયા હતા અને અંદાજે ૨૧ કિલો પ્રતિબંધિત પ્લાસ્ટિકનો જથ્થો જપ્ત કરીને ૩. ૩ લાખ, ૨૨ હજારનો દંડ વસૂલ કરાયો છે.

ગુજરાત યુનિ.ના તોડકોડ મુદ્દે તપાસ કમિટી નિમાઈ

| અમદાવાદ |

ગુજરાત યુનિ.ના બોટની વિભાગમાં પૂર્વ કર્મચારી દ્વારા સોમવારના રોજ બેફામ તોડફોડ કરવામાં આવી હતી. પટના બાદ આજે યુનિવર્સિટી દ્વારા ત્રણ સભ્યોની એક તપાસ કમિટી નિમવામાં આવી છે. આ તપાસ કમિટીમાં GTU ૧ પૂર્વ કુલપતિ અને સૌરાષ્ટ્ર યુનિ.ના ૧ પૂર્વ કુલપતિ તેમજ ગુજરાત યુનિ.ના પૂર્વ પ્રો-કુલપતિની નિયુક્તિ કરાઈ છે. આ કમિટીને લઈ પણ અનેક તર્કવિતર્ક ઉઠ્યાં છે. સુરક્ષાને લઈ સવાલો ઉઠતાં વિદ્યાર્થીઓએ હીબાણો મચાવ્યો હતો. જેથી યુનિ. તંત્ર દ્વારા સિક્યુરીટી એજન્સીને પણ શો-કોઝ નોટીસ ફટકારી છે. યુનિવર્સિટી કેમ્પસમાં આવેલ બોટની વિભાગમાં એક પૂર્વ કર્મચારી દ્વારા સોમવાર બપોરના સુમારે ભારે તોડફોડ કરવામાં આવી હતી. વિદ્યાર્થની બહાર પાડ કરેલી ગાડીના નમામ કાચ તોડ્યા બાદ આ કર્મીએ મુલાકાતીઓ માટેના રૂમથી લઈને સર્વત્ર બાથ-ચાર ઓફીસના દરવાજાના કાચ, સોફા, ખુરશી, ટેબલ તેમજ કોમ્પ્યુટર તોડી નાખવાના મામલે શરૂઆની પટપકડ કરવામાં આવી હતી. આમ પટનાના પગલે આરોપીની ઓળખ અને પટપકડ થઈ ચુકી છે.

GUJARAT INDUSTRIES POWER CO. LTD.
TENDER FOR BIENNIALRATE CONTRACT FOR COMPLETE ELECTRICAL SYSTEM AT SURAT LIGNITE POWER PLANT (SLPP) INCLUDING 5MW&1MW SOLAR PLANT FOR THE YEAR 2025-27
Interested Vendors may submit their Bids on two-part basis through (n) Procure (Tender ID is 220327). It can also be viewed from Company's website www.gipcl.com. The last date of submission of bid is 23/09/2025 up to 17:30 hrs.
ADDITIONAL GENERAL MANAGER (O&M) SLPP

NARMADA CLEAN TECH
(a subsidiary of GIDC)
Sumel Bhagat, Nr. Gujarat Gas Office, Umarwada Road, Ankleshwar- 393 001, Dt. Bharuch (Guj.) E-mail: mtc@gidc.co.in
CIN - U40101GJ2006NPL027236 TEL NOS.: 8469745755, 9227575221
PRE-QUALIFICATION OF VENDORS
Narmada Clean Tech invites expressions of interest from vendors for pre-qualification of 250 KVA 3-phase online UPS (2 Nos), including 10 minutes battery backup set, cabling and required accessories with design, supply, installation, commissioning at FETP Final Pump House Premises with 1 Year AMC.
Please refer company website (www.nctc.co.in) for pre-qualification criteria and procedures.
Interested vendors may complete the same within the required time frame i.e. by on or before 04.30 PM, 9th Sept 2025.
ઈચ્છુકોની પૂર્વ લાયકાત
નર્મદા ક્લીન ટેક એન્વાયરો સોલ્યુશન્સ પ્રા.લિ. માટે 250 KVA ૩ ફેસ ઓનલાઈન UPS (૧૦-૧૦ મિનિટ બેકઅપ ધરાવતા બેટરી સેટ, કેબલિંગ, સાધનો, એસેસરીઝ(૧ વર્ષ કોન્ટ્રેક્ટ સહીત) માટે પૂર્વ લાયકાત મેળવવા ઈચ્છુક ઈચ્છુકોએ અગાઉના આવે છે. કુલ કરી લાયકાત મેળવવી ઈચ્છુકોએ ઓફરની પ્રક્રિયા માટે કંપનીની વેબસાઈટ www.nctc.co.in પરથી માહિતી મેળવી લેવી. આ બાબતના ઈચ્છુકોએ તા.૯મી સપ્ટેમ્બર ૨૦૨૫ના રોજ સમયાંતરે સબમિટ પૂર્વે કરવી.

ગુજરાત ઈન્ડસ્ટ્રીઝ પાવર કંપની લિમિટેડ
પી.ઓ. પ્રતેલી, વડોદરા - ૩૯૧૫૨૦
ઈન્વેસ્ટોર કમ્પ્લેન્ટ સેલ(૦૨૬૫) ૨૪૩૦૪૮૮ / ૨૪૩૦૪૮૮, ઈમેઈલ : www.gipcl.com
જાહેર સૂચના
ગુજરાત ઈન્ડસ્ટ્રીઝ પાવર કંપની લિમિટેડ (જી.આઈ.પી.સી.એલ.) દ્વારા આનબીજ ગુજરાત ઈલેક્ટ્રિસિટી રેગ્યુલેટરી કમિશન દ્વારા કરવામાં આવેલ નવી મુજબની અદ્યતનને અનુરૂપ અને ડિલાયસન્સ ધારીઓ ડિસ્ટ્રીબ્યુશન/સપ્લાયર્સ/ટ્રેડર્સની એપ્રોવિલ કરવામાં આવે છે, તે મુજબ ડિસ્ટ્રીબ્યુશન બિઝનેસ (SLPP) સંબંધિત છે.
૧. ઉપરોક્ત કામ/સપ્લાય ૨૦૨૫/૨૦૨૬: ગુજરાત ડિસ્ટ્રીબ્યુશન પાવર કંપની લિમિટેડ દ્વારા ૩ વર્ષ માટેના ડિસ્ટ્રીબ્યુશન બિઝનેસ માટે ગુજરાત ઈલેક્ટ્રિસિટી રેગ્યુલેટરી કમિશન, અમદાવાદ દ્વારા મંજૂર કરવામાં આવેલ ટેરિફ ઓર્ડર મુજબ ઈલેક્ટ્રિસિટી ડિસ્ટ્રીબ્યુશન બિઝનેસ માટે ઉપયોગમાં લેવાતા મટીરિયલ્સ અને સર્વિસીસ માટે ઈચ્છુક સપ્લાયર્સ/ટ્રેડર્સ/કોન્ટ્રાક્ટર્સ પાસેથી ઓફર મંગાવવામાં આવે છે.
૨. ઉપરોક્ત કામ/સપ્લાય/સેવાઓ: ગુજરાત ડિસ્ટ્રીબ્યુશન પાવર કંપની લિ. દ્વારા ૩ વર્ષ ગુજરાત ઈલેક્ટ્રિસિટી રેગ્યુલેટરી કમિશન, અમદાવાદ દ્વારા મંજૂર કરવામાં આવેલ ટેરિફ ઓર્ડર મુજબ ડિસ્ટ્રીબ્યુશન બિઝનેસ માટે ઉપયોગમાં લેવાતા મટીરિયલ્સ અને સર્વિસીસ માટે ઈચ્છુક સપ્લાયર્સ/ટ્રેડર્સ/કોન્ટ્રાક્ટર્સ પાસેથી ઓફર મંગાવવામાં આવે છે.
ઉપરોક્ત તમામ સંબંધિત કામગીરી www.gipcl.com પર મુકવામાં આવ્યા છે. ઈચ્છુકોએ ઉપરોક્ત વેબસાઈટ પરથી સૂચના મુજબની તમામ વિગતો ચકાસી લેવી. ઈચ્છુક તમામ સપ્લાયર્સ/ટ્રેડર્સ/કોન્ટ્રાક્ટર્સ તેમની ઈચ્છા / રસ, ૫ નકલોમાં તેમના ટેકનિકલ કાગળો સાથેની ઓફર, ગુજરાત ઈલેક્ટ્રિસિટી રેગ્યુલેટરી કમિશન, ૪થી માળ, સિદ્ધવત ભવન, સોલા રોડ, નિકોલ સિટી, અમદાવાદ - ૩૮૨૩૫૦ ખાતે તા.૧૫/૦૯/૨૦૨૫ સુધીમાં પહોંચતી થાય તે રીતે મોકલી આપવી. ઉપરોક્ત ઈચ્છુક સપ્લાયર્સ/ટ્રેડર્સ/કોન્ટ્રાક્ટર્સની ઓફર કોઈપણ કારણ આપ્યા વગર સ્વીકારવી કે નકારવી તે કંપનીનો વિવેકાધીન રહેશે.
તા: ૩૧.૦૮.૨૦૨૫ ઓફિસિયલ લિક્વિડેટર (કોર્પોરેટ એફેર્સ કોલ્સ)

ડીસા નગરપાલિકા
ઈ-ટેન્ડર નોટિસ (બીજો પ્રયત્ન)
આથી નીચે મુજબની કામગીરી કરવા ઈજારદારોને જણાવવામાં આવે છે કે, ડીસા નગરપાલિકાને નીચે મુજબના કામે કરાવવાનું ઈ-ટેન્ડર આ પ્રકારના કામોના અનુભવી તથા માન્ય એજન્સી ઈજારદારો પાસેથી ઓન-લાઈન ઈ-ટેન્ડરો મંગાવવામાં આવે છે. આ અંગેની વિગતો www.tender.nprocure.com ઉપર મેનબાના પ્રસારિત કરવામાં આવે છે.

ક્રમ નં.	કામ	કામનું નામ	અંદાજીત રકમ
૧	જીલ્લા આયોજન મંડળ, ૨૦૨૫-૨૬	ડીસા નગરપાલિકા વિસ્તારના સી.સી.રોડ, ગટર વિગેરે, ગટર, ઓપન, પાણીના લાઈનની કુલ્લીઓનું નવીનીનિકરણનું કામ (કામ નંબર-૫)	૨૧૧૩૮૩૯.૦૦ (GST લેવો)

(૧) ઓનલાઈન ટેન્ડરોની ઈમેલી તા. ૦૪/૦૯/૨૦૨૫
(૨) ઈ.ઈ.એમ.ડી ડિપોઝીટ રજૂ કરવાની ઈમેલી તા. ૧૫/૦૯/૨૦૨૫
(૩) ઓન લાઈન ઓપન-ટીન્ની તા. ૧૬/૦૯/૨૦૨૫
ચી.ન.પા./ઓફલાઈન/૧૯૦૨/૨૦૨૫-૨૬૨૬ અને ૨૦૨૫/૨૬
નગરપાલિકા કચેરી
ડીસા તા. ૦૧ / ૦૯ /૨૦૨૫
(મેહુલકુમાર દેસાઈ) મુખ્ય અધિકારી ડીસા નગરપાલિકા
(નીતાબેન મોન. ૪૨૪૨) પ્રમુખ ડીસા નગરપાલિકા
(નં.નામાનિ/બાકાત/૩૩૦/૨૦૨૫-૨૦૨૬)

સાયબર જાગૃતતા દિવસ
દર મહિનાનો પહેલો બુધવાર
CID CRIME GUJARAT
Probing with Precision
સ્ટેટ સાયબર ક્રાઈમ સેલ,
સી.આઈ.ડી. ક્રાઈમ, ગુ.રા., ગાંધીનગર
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+ શું આપની સાથે કોઈપણ સાયબર ક્રાઈમ બનેલ છે ?
સાયબર ક્રાઈમની ફરિયાદ માટે
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www.cybercrime.gov.in પર સાયબર પોલન્ટીયર તરીકે રજીસ્ટ્રેશન કરી ગુજરાત પોલીસ ને સાયબર ક્રાઈમ અટકાવવા માટે મદદરૂપ થઇ શકો છો.
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દાખલાઓમાં ક્ષતિઓ નિવારવા મ્યુ.કોર્પોરેશનના ધક્કામાંથી થશે છુટકારો

'ઈ ઓળખ'માંથી હવે CRS પોર્ટલમાં ડેટા ટ્રાન્સફર : દાખલામાં ક્ષતિઓ ઘટવાનો આશાવાદ

જન્મ, મરણના દાખલામાં કોઈ પણ સંજોગોમાં તારીખ નહીં બદલી શકાય, સોફ્ટવેર સુધાર્યો

અપગ્રેડેશન | હોસ્પિટલમાં બાળક જન્મે ત્યારે વાલીના ડોક્યુમેન્ટ ફરજિયાત અપલોડ કરવા પડશે

| ભાવનગર (અંદેશ પ્રતિનિધિ) |

જન્મ મરણના દાખલામાં સરકાર દ્વારા સુધારા વધારા લાવ મરણમાં આવ્યા છે, જેમાં હવે પછી જન્મ મરણની તારીખ ત્રણવાર બે વખત વેરીફીકેશન કર્યા બાદ જે તારીખ નક્કીમાં આવી હશે તેમાં કયારેય સુધારા વધારા કરી શકાશે નહી. તો બીજી બાજુ નવા સુધારા વધારામાં હોસ્પિટલમાં બાળકના નામમાં કે વાલીના નામમાં સ્વૈચ્છી શબ્દોના બીબે સુધારા કરવા અરજદારોને પક્કા થતા હતા, તેમાંથી છુટકારો લાવવા માટે હોસ્પિટલમાં વાલીના ડોક્યુમેન્ટ સબમીટ કરવા પડશે.

ભાવનગર મહાનગરપાલિકા હસ્તકના આરોગ્ય વિભાગ હસ્તક ચાલતા જન્મ-મરણના પ્રમાણપત્ર પત્રોને લગતી કામગીરી હાલ ઈ-ઓળખ પરથી સરકારના CRS પોર્ટલમાં ટ્રાન્સફર થવાના કારણે ડાઉ ૧ જાન્યુઆરી ૨૦૨૦ થી ઓગસ્ટ ૨૦૨૫ સુધીના જન્મ-મરણના પ્રમાણપત્રની માત્ર પ્રિન્ટ કરી શકાશે. તેમાં કોઈપણ સુધારા-વધારા કરી શકાશે નહિ જેથી આ કામગીરી ટુંક સમયમાં પૂર્ણ ન થાય ત્યાં સુધી સ્થગિત રહેશે.

આગામી સમયમાં નવા સોફ્ટવેરમાં ક્રમ ચાલુ થશે, જેમાં હોસ્પિટલમાં જ વાલીના ડોક્યુમેન્ટ સબમીટ કરવા હોસ્પિટલને કરજ પાડવામાં આવી છે, જે નામ બબતમાં આવશે તેનો મેસ તેના પિતા અથવા માતાના મેસ આઈડી પર જશે. જે ચોંચિત્ર કલકમાં સુધારા વધારા સુચવી શકાશે, ત્યાર બાદ મેસ ન હોય કે સુધારા કર્યા ન હોય તો તે મહાપાલિકામાં ટ્રાન્સફર થશે. જયા મહાપાલિકામાં જે તે હોસ્પિટલે સબમીટ કરેલા ડોક્યુમેન્ટ અને દાખલ લેવા આવનારનુ નામ મેસ અથવા તો વેરીફાઈ કરશે. એટલુ જ નહીં પણ મેસ આઈડી પર જન્મ કે મરણનુ પ્રમાણ પત્ર મોકલવામાં આવશે. જે અરજદાર પક્કો હર્યક્ષ ૨૦૨૫ સુધીના જન્મ-મરણના પ્રમાણપત્રની માત્ર પ્રિન્ટ કરી શકાશે. તેમાં કોઈપણ સુધારા-વધારા કરી શકાશે નહિ જેથી આ કામગીરી ટુંક સમયમાં પૂર્ણ ન થાય ત્યાં સુધી સ્થગિત રહેશે.

સુધારા વધારા કે ક્ષતિમાં કર્મચારીની જવાબદારી ફીક્સ થશે

નવા સુવિધા વધારામાં જે તે હોસ્પિટલમાંથી સબમીટ થયેલો ડેટા મહાનગર પાલિકામાં આવે છે, જયા રજીસ્ટ્રારના પાવર ડેસીગ્નેટ કરવામાં આવ્યા હોય તે સુધારા કરે છે પણ હવેથી રજીસ્ટ્રારની જવાબદારી જે કર્મચારી નિભાવે છે, તેની પાસે શહેરની નિયત હોસ્પિટલો હશે. મતલબ કે જેટલા કર્મચારીઓ હશે તેના ભાગમા હોસ્પિટલની કામગીરી નિયત કરવામાં આવેલી હશે, એટલે કઈ હોસ્પિટલનો ડેટા છે, તેના આધારે કયા કર્મચારીના આઈડી, પાસવર્ડમાંથી કામ થયુ છે તો ઓળખી શકાશે. જેથી ગંભીર ક્ષતિમાં કર્મચારીની જવાબદારી પણ ફીક્સ થશે.

હોસ્પિટલની ભુલમાં લોકોને કોર્પોરેશના ધક્કા થતા હતા

અત્યાર સુધીની સિસ્ટમમા બાળક જન્મે એટલે હોસ્પિટલમા તેના વાલી કે સંબંધી જે નામ લખાવે તે પ્રમાણે અટક કે વાલીનુ નામ લખાવે તે હોસ્પિટલ ડેટા એન્ટ્રી કરીને કોર્પોરેશનમા મોકલી આપતી હતી, જેના લીધે ક્ષતિઓ ખુબ જ રહેતી હતી, અરજદારોને કોર્પોરેશનમા ધક્કા રહેતા હતા. સુધારા વધારા કરવા આર્થિક ભારણ પણ રહેતુ હતુ. જે હવે પછી વાલીના કોઠ્યુમેન્ટ આધારે જ હોસ્પિટલે સબમીટ કરવાની હોવાથી ક્ષતિઓમાં ઘટાડો થવાની સાથે અરજદારોને કોર્પોરેશનના ધક્કામાંથી છુટકારો મળવાનો આશાવાદ જાગ્યો છે.

ભાવનગરની ગાયનેક તમામ હોસ્પિટલ સ્ટાફને તાલીમ અપાઈ

નવા સોફ્ટવેરમાં કોઈ પણ દાખલામાં જન્મની કે મરણની તારીખમાં સુધારા નહીં થઈ શકે, કારણ કે એ બેન્ડરી નાખતા પૂર્વે બે વખત વેરીફાઈ કરવો. એ સિવાય કોઈ સુવિધા વધારા હશે તો કોર્પોરેશનમાંથી થઈ શકશે. પણ નવા કોવીત રજીસ્ટ્રેશન સોફ્ટવેર તાજુ પડવાથી દાખલાઓમાં ક્ષતિઓમાં ખુબ જ ઘટાડો થશે. ભાવનગરની ગાયનેક તમામ હોસ્પિટલના સ્ટાફને બોલાવીને નવા સોફ્ટવેર બાબતે તાલીમ પણ અપાવામાં આવી છે. જેથી સેન્ડરીમાં ક્ષતિઓ ન રહે.

- આર.કે.સિંહલ, અધિક્ષક અધિકારી

અમેરિકા - કેનેડાની નિતીના પગલે અભ્યાસ માટે લોનની અરજી ઘટી

રાજ્યમાં પ્રથમ ત્રિમાસિક ગાળામાં શૈક્ષણિક લોનનું પ્રમાણ ૧૨% ઘટ્યું

એપ્રિલથી જૂન દરમિયાન રૂા.૪૦૬ કરોડની લોનનું વિતરણ કરાયું

| ગાંધીનગર |

રાજ્યમાંથી વિદેશમાં ઉચ્ચ અભ્યાસ અર્થે જતાં વિદ્યાર્થીઓ બેંકો દ્વારા આપવામાં આવતી લોનનું પ્રમાણ ચાલુ નાણાંકીય વર્ષના પ્રથમ ત્રિમાસિક સમયમાં ૧૨.૨૬% ઘટ્યું છે. એપ્રિલથી જૂન આમ દરમિયાન રૂા.૪૦૬ કરોડની શૈક્ષણિક લોનનું વિતરણ કરાયું છે.

સ્ટેટ લેવલ બેંકિંગ કમિટીની તાજેતરની મળેલી બેઠકમાં આ બાબત જણાવવામાં આવી. શૈક્ષણિક લોનની ૨૪મ ગત વર્ષના પ્રથમ ત્રિમાસિક ગાળાની તુલનાએ રૂા.૯૦ કરોડનો ઘટાડો દર્શાવે છે. ગત વર્ષે આ સમયગાળા દરમિયાન બેંકો દ્વારા રૂા.૪૬૬ કરોડની લોનનું વિતરણ ઉચ્ચ અભ્યાસ માટે જતાં વિદ્યાર્થીઓને કરવામાં આવ્યું હતું. લોન મેળવનાર વિદ્યાર્થીઓની સંખ્યામાં પણ ગત વર્ષના આ સમયગાળાની તુલનાએ ૪.૫ ટકાનો ઘટાડો દર્શાવે છે. ગત વર્ષે શૈક્ષણિક લોન ૯,૩૮૫ વિદ્યાર્થીઓને અપાઈ હતી. જ્યારે આ વર્ષે ૯૦૪૮ વિદ્યાર્થીઓને આપવામાં આવી છે. આમ ૩૩૭ વિદ્યાર્થીઓની સંખ્યા ઘટી છે.

અમેરિકાના રાષ્ટ્રપતિ ડોનાલ્ડ ટ્રમ્પે બીજી વખત સત્તા સંભાળ્યા બાદ અમેરિકામાં ઉચ્ચ શિક્ષણની નીતિ કડક બનાવી છે. આ ઉપરાંત વિઝા બેંક માટેની નીતિમાં પણ ફેરફાર કર્યો છે. આથી જ વીતે કેનેડામાં પણ ઉચ્ચ શિક્ષણ લેવા વિદ્યાર્થીઓ માટેના નિયમોમાં આમૂલ પરિવર્તન થયું છે. જેની સીધી અસર આ દેશોમાં ઉચ્ચ અભ્યાસ માટે જતાં વિદ્યાર્થીઓના પ્રમાણ ઉપર પણ જોવા મળી રહ્યો છે. કેટલાક વિદ્યાર્થીઓએ તો અમેરિકા - કેનેડાના વિકલ્પે અન્ય દેશોમાં અભ્યાસ માટે પ્રવેશ મેળવ્યા છે. અમેરિકા અને કેનેડામાં અભ્યાસ માટે જતાં વિદ્યાર્થીઓની સંખ્યામાં ૪૦ ટકા જેટલો ઘટાડો જોવા મળી રહ્યો હોવાનું વિદેશી શિક્ષણ માટે સલાહકાર સંસ્થાઓના સંચાલકો દ્વારા જણાવાય છે. અમેરિકામાં ઈમિગ્રેશન વિરોધી જે વાતાવરણ છે તેનો પડઘો અત્યારે જોવા મળી રહ્યો છે.

શૈક્ષણિક લોનનું વિતરણ પ્રથમ ત્રિમાસિક સમયમાં

બેંક	A/C	વિતરણ રૂા.
રાષ્ટ્રિયકૃત	૨૦૦૪	૧૬૬ કરોડ
સ્ટેટ બેંક	૩૫૭૦	૧૨૩ કરોડ
સહ.બેંક	૮૦	૩.૪૮ કરોડ
ગ્રામીણ બેંક	૩૪	૧.૬૮ કરોડ
ખાનગી બેંક	૮૬૮	૧૬૧ કરોડ

લોન મર્યાદા ત્રણ લાખથી વધારી ૫ લાખ કરાઈ

CISF વેલફેર પોર્ટલ લોન્ચ કરાયું, ૧૦૦ કરોડથી વધુના લાભો મળશે

૧૫૦ વિદ્યાર્થીઓને જ સ્કોલરશિપની મર્યાદા દૂર કરાઈ

| વડોદરા |

કેન્દ્રીય ઔદ્યોગિક સુરક્ષા દળ (CISF)એ તેમના જવાનો અને પરિવારજનો માટે તા.૧ સપ્ટેમ્બરથી ઓનલાઈન વેલફેર પોર્ટલ શરૂ કર્યું છે. જેના થકી દેશભરના ૧.૬ લાખથી વધુ જવાનોને ૧૦૦ કરોડથી વધુના કલ્યાણકારી લાભો મળશે. પોર્ટલ પરથકી લોન, સ્કોલરશિપ, મેડિકલ સહાય જેવી તમામ સેવાઓ મળશે.

વ્યક્તિગત લોનની મર્યાદા ૩ લાખથી વધારી પાંચ લાખ કરાઈ છે. જેના ઉપરાંત ૨૦%ની પટ્ટાવીને ૩૫% રાખવામાં આવ્યો છે. મેડિકલ ટ્રીટમેન્ટ માટેની લોન ઉપર વ્યાજદર માત્ર ૨% રહેશે. ૮૦ % થી વધુ માર્કસ લાવનાર જવાનોના બાળકોને સ્કોલરશિપ પણ મળશે, પહેલા માત્ર ૧૫૦ વિદ્યાર્થીઓ જ પાત્ર બનતા હતા હવે આ મર્યાદા હટાવી દેવાઈ છે. શહીદોના બાળકોને માસ સહાયરૂપે સ્કોલરશિપ રૂા.૨,૦૦૦-૧૮,૦૦૦થી વધારીને ૧૦,૦૦૦-૨૦,૦૦૦ કરાઈ છે. નિવૃત જવાનોને હવે વિસ્ક-લેવિંગ લાભ સીધો ૧.૨૫ લાખ ખેડવામાં માંગી જશે. જે પહેલા ૪૫ થી ૮૦ હજાર જ મળતો હતો. કેન્દ્ર સરકારે લોન્ચ કરેલા આ પોર્ટલ પર સીઆઈએસએફના જવાનો આ લાભ કેવી રીતે મેળવી શકશે તે...

ગુજરાત ઇન્ડસ્ટ્રીઝ પાવર કંપની લિમિટેડ

જી.આઈ. રાણીપ, વાડોદરા – ૩૯૧૭૪૦.

ટેલિફોન નમ્બર: (૦૨૬૫) ૨૩૦૨૦૧૮ / ૨૩૯૦૨૦૧, ફેક્સ : www.gipcl.com

જાહેર સૂચના

...

1. ...
2. ...

ઇલેક્ટ્રોનિક ટેન્ડર પોર્ટલ www.gipcl.com પર ઉપલબ્ધ છે. ઇચ્છુક ટેન્ડરદારોએ ટેન્ડર ડોક્યુમેન્ટ ડાઉનલોડ કરવા, ઓનલાઈન ટેન્ડર સબમિટ કરવા અને વધુ માહિતી માટે વેબસાઈટ / પોર્ટલની મુલાકાત લેવા વિનંતી છે.

...

ADDITIONAL GENERAL MANAGER (O&M) SLPP

GUJARAT INDUSTRIES POWER CO. LTD.

TENDER FOR BIENNIALIUATE CONTRACT FOR COMPLETE ELECTRICAL SYSTEM AT SURAT LIGNITE POWER PLANT (SLPP) INCLUDING 5MW&1MW EOLAR PLANT FOR THE YEAR 2025-27

Interested Vendors may submit their Bids on two-part basis through (n) Procure (Tender ID is 220327). It can also be viewed from Company's website www.gipcl.com. The last date of submission of bids 23/09/2025 up to 17:30 hrs.

ADDITIONAL GENERAL MANAGER (O&M) SLPP

NARMADA CLEAN TECH

(a subsidiary of GIDC)

Survey No. 26 Bhagat Ni Gufa, Umarwada Road, Ankleshwar- 393 001, Dist. Bharuch (Guj.). E-mail: info@ncttl.co.in

CIN : U40101GJ2020NPLC073235 TEL NOS.: 9426745285, 9227576221

PRE-QUALIFICATION OF VENDORS

Narmada Clean Tech invites expressions of interest from vendors for pre-qualification of 2X6 KVA, 3-phase online UPS (2 Nos) including 10 minutes battery backup set, cabling and required accessories with design, supply, installation, commissioning at: FETP, Final Pump House Premises with 1 YEAR AMC.

Please refer company website (www.ncttl.co.in) for pre-qualification criteria and procedures.

Interested vendors may complete the same within the required time frame (i.e. by 5pm on or before 04.30 PM, 9th Sept 2025.

નિવેદનની પૂર્ણ જાહેરાત

...

જાહેર નોટીસ

તાલુકા એકત્રીકરણીય મેજીસ્ટ્રેટ - મહુવાની કોર્ટમાં

...

તારીખ : ...

તાલુકા એકત્રીકરણીય મેજીસ્ટ્રેટ
મહુવા

જાહેર નોટીસ

તાલુકા એકત્રીકરણીય મેજીસ્ટ્રેટ - મહુવાની કોર્ટમાં

...

તારીખ : ...

તાલુકા એકત્રીકરણીય મેજીસ્ટ્રેટ
મહુવા

ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી – જુનાગઢ

ઓનલાઈન ટેન્ડર આમંત્રણ જાહેર નોટિસ

ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટીના નવા કેમ્પસ ખાતે વિવિધ પ્રકારના નવા કેમ્પસના કેટેજ-૧માં કામગીરીઓ કાર્યરત સિસ્ટીમોમાં ઇન્ટરનેટ કનેક્ટીવીટી, સ્ટ્રોમ વોટર, STP અને વોટરપ્રુફ ટેનસ્ટરમેન્ટની કામગીરી, યુનિવર્સિટીને ફાળવેલ જગ્યાને કમ્પાઉન્ડ વોલ નિર્માણની કામગીરી, PM-USHA પ્રોજેક્ટ હેઠળ નવા સિવીલ એન્જીનયરીંગ બ્લોકમાં લેબ્સ સેન્ટર ઓફ એક્સીલન્સ ટેસ્ટ ફાર્મિંગ લેબોરેટરી નવા સિવીલ એન્જીનયરીંગ બ્લોકની કામગીરીની અનુરીતના ભાગને વર્ષ ૨૦૨૬ પરીક્ષી પરીક્ષી નીચે મુજબની વિગતે ઓનલાઈન ટેન્ડરો બંધ કવરમાં મંગાવવામાં આવે છે. ટેન્ડરની સંપૂર્ણ વિગતો https://tender.nanigujarat.com/ પર ઓનલાઈન ભરી શકાશે.

(૧) ઈ-ટેન્ડર નં. ૧૫/BOA/૨૫	E-Tender for Providing and Fixing Furniture in various Building
(૨) ઈ-ટેન્ડર નં. ૧૬/BOA/૨૫	E-Tender for Construction of Compound Wall Fence and Worksite (Phase - I)
(૩) ઈ-ટેન્ડર નં. ૧૭/BOA/૨૫	E-Tender for Development of storm water, STP and Landscape Work
(૪) ઈ-ટેન્ડર નં. ૧૮/BOA/૨૫	E-Tender for Construction of Various Buildings Under PM-USHA Project (Computer Center, Recording Studio and Guest House)
(૫) ઈ-ટેન્ડર નં. ૧૯/BOA/૨૫	E-Tender for Construction of Building for Centre of Excellence for Wildlife and Conservation Studies

ઉપરોક્ત ટેન્ડર અંગેની વધારે માહિતી માટે યુનિવર્સિટીની www.bknmu.edu.in વેબસાઈટ જોવા વિનંતી. ટેન્ડર મંજૂર કરવા કે નામંજૂર કરવા આ અંગેનો બાબતીય અધિકાર યુનિવર્સિટીનો રહેશે.

તા. ૦૧/૦૯/૨૦૨૫ (માહિતી/જુના/જા.ક./૫૪૫/૨૦૨૫) ડી. મુકાવિય

RAJKOT URBAN DEVELOPMENT AUTHORITY

ઈ-ટેન્ડર નોટીસ

રાજકોટ શહેરી વિકાસ સત્તામંડળ માટે નીચેના કામ માટે એજેન્સીઓ, અનુભવી, નિષ્ણાત, સક્ષમ સેવાઓ આપવા ઈચ્છતી એજન્સીઓ પાસેથી બીડ મંગાવવામાં આવે છે.

ક્રમ નં.	ટેન્ડર નંબર	કામનું નામ	અંદાજીત રકમ / ઈ.એમ.ડી. / ટેન્ડર ફી / ટેન્ડર ડોક્યુમેન્ટ વેચાણ / ડાઉનલોડ કરવાની તારીખ
૧	RMC/EE/ ૧૦૨૫-૨૬	રાજકોટ શહેરી વિસ્તાર સમાવિષ્ટ ૩૨ ગામોના ૨૪ કલાક પીવાના પાણી માટે ૧૫૨૩ મીટર ટીમલેસ સ્ટીલ પાઈપલાઈન નાખવાની કામગીરી	અં.રૂ ૧૦,૦૨,૦૦૦/- ઈ.એમ.ડી. રૂ ૩,૭૦,૦૦૦/- ટે.ફી રૂ. ૨,૩૬૦/- (જીએસટી સાથે) તા. ૦૩/૦૯/૨૦૨૫

ટેન્ડરની વધુ માહિતી માટે www.rmc.gov.in વેબસાઈટ પર મળશે ઉપલબ્ધ છે. વધારાની માહિતી જેવી કે નોનરિફંડેબલ, ઈનીશ્યલ, મુદતી, ઈ.એમ.ડી વગેરે ઉપર મુજબની વેબસાઈટ પર ઉપલબ્ધ છે. (માહિતી/૨૭૮/૨૦૨૫-૨૬)

ન્યૂઝ ફ્લેક્સ

એથર એનર્જીએ એથર કોમ્યુનિટી ડે ૨૦૨૫ પર વર્સેટિલિટી, સ્કેલેબિલિટી માટે બનાવેલ ઈએલ (EL)નું અનાવરણ કર્યું



ભારતની અગ્રણી ઇલેક્ટ્રિક ટુ-વ્હીલર ઉત્પાદક કંપની, એથર એનર્જીએ આજે એથર કોમ્યુનિટી ડે ૨૦૨૫ ની ત્રીજી આવૃત્તિમાં નોંધપાત્ર ઉત્પાદન અને ટેકનોલોજી વિકાસની શ્રેણીની જાહેરાત કરી. એથરે તેના ખૂબ જ અપેક્ષિત સંપૂર્ણપણે નવા ઈએલ પ્લેટફોર્મનું અનાવરણ કર્યું, જે ૨૫૦ પ્લસનું તેનું પ્રથમ હિડન સાઈડ રેડાર છે. વર્સેટિલિટી, સ્કેલેબિલિટી અને ભવિષ્ય ઓપ્ટિમાઇઝેશન માટે બનાવેલ, ઈએલ પ્લેટફોર્મ નવીનતમ સેલ્યુલર આર્કિટેક્ચ

સંદેશ ક્લાસિફાઇડ

● લગ્ન વિષયક ● નોકરી ખાલી છે ● જ્યોતિષ ● ધંધાકીય ● શૈક્ષણિક ● ઔષધ ઉપચાર ● પ્રોપર્ટી ● નામ બદલેલ ● અન્ય



પરેલ

પરેલ 37 વર્ષ સિધ્ધા 7 પાસ પરિવાર સર્વ જ્ઞાતિ વર જોઇયેછે (ગ્રાજ્યુએટ) 99094 04001 0040541795



જનરલ

દરેક પ્રકારના ફોર વ્હીલના સ્પેરપાર્ટસ માટે સંપર્ક કરો. 9924430685. 0040541800



વિવિધ

ફરસાણના શોરૂમ માટે છોકરા- છોકરીઓ જોઈએ છે. પાર્ટ ટાઈમ- ફુલ ટાઈમ કોમ્પ્યુટર ઓપરેટર (Male/ Female) જગદીશ માર્બલ, મેઈન બજાર, હરણી લેકઝોનની બાજુમાં, હરણી રોડ, વડોદરા. બપોરનો સમય- સવારે ૧૦ થી ૮ 0040541839

રસોઇયા જોઇએ છે. કેન્ટીન તથા કેટરિંગના કામ માટે અનુભવી રસોઈયા (૩) પંજાબી, ગુજરાતી રસોઈનો સાથે અનુભવ જરૂરી, વિસનાર અટલાદરા 9574475511 0040541888

સોફિસ બોય જોઇએ છે. ટુ વ્હીલર લાઈસન્સ ફરજિયાત. 9725042820 0040541872

રસોઈ માટે બેન જોઇએ છે. અઠવા વિસ્તારમાં 2 રાઈમ ગુજરાતી રસોઈ સારી બનાવી શકે તેવા બ્રાહ્મણ, વયિક, પટેલ મળે. 9326773809. 0040541910

છોકરાઓ જોઇએ. દુકાનમાં Full/ Part Time. પગાર + એકસ્ટ્રા. 9898702055 0040540771

SHADOWFAX પાર્સલ ડિલિવરી માટે છોકરા છોકરીઓ જોઈએ છે. અઠવાડિયે પેમેન્ટ (પગાર 18થી 40 7990676252 (Tarsali/ city), 8530045908, 9974934855 (gotri) 0040541934

રેસ્ટોરન્ટમાં પેકિંગ કાઉન્ટર માટે છોકરા/ છોકરીઓ જોઈએ છે (10000 પગાર + બોનસ/ જમવાનું) વારસિયા, 9638745734. 0040541878

ઇન્સ્યોરન્સ અને લોનના બિઝનેસ માટે freelancer અને અનુભવી ટેલિકોલર જોઈએ છે. (ગ્રાજ્યુએટ પગાર + ઇન્સેન્ટિવ) મો. 9601039065 0040541890

જોઈએ છે ડેવલપમેન્ટ ફિટર- 3, અનુભવ પછી ૬ વર્ષ સી-સેક્ટર 8734046309 GIDC Makarpura, Vadodara 0040541715

ગુજરાતી તથા ઇંગ્લીશ ટાઈપીસ્ટ જોઈએ છે. પાર્ટ/ ફુલ ટાઈમ, સુલેખ તથા ઈન્ટીક સ્ક્રીપ્ટમાં ઓનલાઈન ટાઈપ કરી શકે તેવા. સંપર્ક- 9825135106 0040541838

સરકારી ઓફિસમાં કોન-ટ્રાક્ટથી પ્યુન જોવેરો. ચલાવવા કાર ચાલક રોડ સાથી સુરતની નજીકના ટ્રાવેલ્સની જરૂર 9998793971 0040541939

જેન્ટ્સ ગ્રાજ્યના શોરૂમ માટે સેલ્સમેન જોઈએ. 176, 'રાધન', નવાબજાર, 9925149797 0040541914

ઓકાઉન્ટસ

ટેલી સોફ્ટવેરના જાણકાર એકાઉન્ટન્ટ તથા જનરલ ઓફિસ વર્ક માટે માણસની જરૂર છે. મંજુસર GIDC 79506 11023 0040541798

એકાઉન્ટ માટે છોકરો/ છોકરી જોઈએ છે. Tally -૯ જાણકાર 8735963988 0040541910

મેડીકલ

જોઈએ છે મેલ/ ફિમેલ કેરટેકર અનુભવી હશે 9016711001, 9586028846. 0040541852

Wanted Full Time Physician (MD)And General Surgeon (MS) Good Salary, Free Accomodation. Contact- Manager, Swami Ramanand Saraswati TB Clinic & General Hospital, Vijapur, Dist- Mehsana. Mo: 9426305858, (02763)220171. Email: tbhospitalvjp@yahoo.com 0040541836

વાઘોડીયા રોડ પર આવેલ હોસ્પિટલ માટે અનુભવી ફિનાન્સ-બુથવી ફીમેલ નર્સિંગ સ્ટાફ તથા આયા માસી જોઈએ છે. 9016136674 0040541914

માર્કેટીંગ અને સેલ્સ

ચુડી અને ફેન્સના શોરૂમ માટે અનુભવી સેલ્સગર્લ જોઈએ છે. જયલક્ષ્મી સોલ મંગલભાઇ 7567119338 0040541906

એજ્યુકેશન માર્કેટીંગ એજન્સીમાં સર્વે કરવા માટે છોકરા- છોકરીઓની જરૂરીયાત છે. પગાર- 12,500થી 15,000. F/ 71, ઈંદિરાબુલ્વા મેગા મોલ જેતલપુર બિજ અકોટા વડોદરા. (મો) 7247508331- 9265313527 0040541712

ઓફિસ સ્ટાફ

જોઇએ છે. Back office (મેલ) (Dispatch) (માટે) મરકાર એસ્ટેટ આજવા રોડ બાયોટેક મોકલાવી કેમ watsapp M-9724125181 0040541903

કારેલીબાગ ખાતે એડવોકેટની ઓફિસ માટે લેડીઝ આસિસ્ટન્ટ/ કલાર્કની જરૂર 9624442525 0040541857

ફીક્સ સેલેરી 15,000 + 5000 ઇન્સેન્ટિવ બોનસ. પ્રાઈવેટ લિમિટેડ કંપની માટે 20 ફીમેલ ટેલીકોલર જોઈએ- દીપોર્ન, 304, દિપા કોમ્પલેક્સ, કુપાલી- 9714519934 0040541840

સિક્યુરીટી

રેસ્ટોરન્ટમાં પાર્કિંગ કરાવી શકે તેવા ભાઈ જોઈએ છે (વારસિયા) 10000/ જમવાનું, 9638745734. 0040541873

ટેકનીકલ

સર્વિસ ટેકનિશિયન ITI ઈલેક્ટ્રોનિક્સ/ ઈન્સ્ટ્રુમેન્ટ, ઈલેક્ટ્રોનિક્સ વર્જન કોલ રીપેરીંગ માટે, અનુભવથી કેશ, ઉંમર 40 વર્ષ નીચે, ટુ વ્હીલર જરૂરી (ચોકસા માટે) સંપર્ક- 9825606135, 9825038030 0040541242

મકરપુરા GIDCની કંપની માટે ઓ પેન્ટર- 3 જોઈએ છે (M) 90164 59402 0040541837

ઇજનેર

Heavy Engineering Company at, Vadodara Require Plant Head, Quality Engineer Having minimum 5 To 7 Years Of experience in Machine Manufacturing. Email- bmmpvtltd@yahoo.com Or Whatsapp- 9725411886 0040541902

જોઇએ છે. એન્જીનિયરીંગ કંપની વડોદરામાં વર્કશોપ માટે, (1) એલેમ્બલી ફિટર- 3, (2) ફેબ્રીકેશન ફિટર- 3, (3) ગેસ કટર/ વેલ્ડર- 2, (4) લેથવર્ક- 3. સંપર્ક- 7041002411 0040541900

અન્ય

સરકારી નોકરી રેલવે બોર્ડ એરપોર્ટ ક્લાર્ક સુપરવાઈઝર મેનેજર ગ્રાજ્યુએટ 8 જોબ્યુબ્લ્ટ ફીસ 600. 8077210270 0040541844

Work from home ઘરથી મહિલા પુરુષ 95000 કમાઓ. Whatsapp- 7983350954. 0040541916

Work from home મહિલા, પુરુષ 35000- 75000/- કમાઓ Whatsapp- 9211815280. 0040541665



ફર્નિચર ફીક્સચર

બાલાજી સ્ટીલ ફિચર્સ, કલાદ, માળીપાના સ્ટોમિયાવિસ્ટ, જુના જકીતા પ્રકાશભાઈ- 9727654035. 0040541870

ફાયનાન્સ

ક્રેડીલ્સ ગ્રાજેલ લોન ચુકવા વગર મોર્ગેજ-રેન્ટ હોમ લોન/ મોર્ગેજ લોન/ ટોપઅપ, બિઝનેસ લોન મેળવો. 9898077144 0040541879

ટ્રાવેલ એન્ડ ટુર

વિશ્વ શક્તિ ટુર્સ ટ્રેનિતાલ રાનીખેત કોર્બેટ ફિલ્ડ 10 (19/ 9) 8473030277 0040541877

હોટલ એન્ડ રેસ્ટોરન્ટ

વડોદરાની પ્રખ્યાત ફિરાગ કેન્ધારિક ચાપોડિયા રોડ પર આવેલ ચાલતી રેસ્ટોરાનાં છે. જે વેચવાનું છે. કુલ્લી નવું ડિકોરેશન વધુ જાણકારી માટે ફોન કરો 9737155573 0040541816

સિક્યોરિટી સર્વિસ

MS સિક્યોરિટી ફિલ્ડ સિક્યોરિટી સર્વિસિસ. ઘરે બેઠા ખાતરીપૂર્વક રીપેરીંગ. 9898565504. 0040541902

શ્રી બલાજી ફિલ્ડ કં. સર્વિસિસ વોશિંગમશીન, ફ્રીજ, AC. ઓવન. 9974074317 0040541924

ક્યાર્ટ- (ફિલ્ડ મકત) સિક્યોરિટી, AC. વોશિંગમશીન માઈક્રોવેવ, ઘરઘંટી રીપેરીંગ. 9773043489 0040541921

RO ફિલ્ટર- 450/-, મેમ્બરન- 550/-, સર્વિસ- 100 Kent Speciality મીરાવ માર્કેટ સામે મોર્ડન સર્વિસ- 9974112222 0040541137

શ્રી ગણેશ ફ્રિ સિર્વિસ AC, ફ્રિજ, વોશિંગમશીન, ઓવન રીપેરીંગ. 9165201351 0040541755

કમીર ઘરઘંટી રીપેરીંગ ફ્રીજ, વોશિંગમશીન, વાઈકોન્વેન્શન, ઘરઘંટી, એરકુ-રીજન સર્વિસ એન્ડ રિપેરીંગ. 9824482525/ 9824482541 0040541920

રેડીમેડ ગારમેન્ટ

કિર્તી હોલ, 162, નવાબજાર, નાની મોટી સાઈઝનાં રેડીમેડ ફેન્સી ઝભ્ભા, લેંઘા, સદરા તેમજ પેન્ટ, શર્ટના કાપડના સંપોલીવાડ 0040541899

જ્વેલરી પાર્લર

માંજલપુરમાં પાર્લરમાં કામ કરી શકે તેવી અનુભવી મહિલાઓ જોઈએ છે. 8000818682 0040541867

Full body massage at 799/- 6353986714 0040541905

ત્રિશા મસાજ પાર્લર રોજના કમાવો 25000થી 40000 સુધી. 7014065993 0040541866

ઈન્ટીરીયર્સ

950/- Per Sq Ft. નવા મકાન બનાવો. સ્પેશિયલ ઓફર. 3 B H K ટીનોપેશનના 3,25,000/-, ડુપ્લિકેશનના 2,75,000/- 9974053477 0040541883

પેસ્ટ કંટ્રોલ

પીજે પેસ્ટ કન્ટ્રોલ ઉધઈ પાઈપીંગ, કોનીંગ, બોરા ગર્વમેન્ટ એપ્રુવ્ડ. 9979519574 0040541788



મહાલક્ષ્મી 500/- રૂપિયામાં પતિવશ, પ્રેમીપંખ, અલખનાથ, ગુવાડેવા, કરેલુ, વડોદરા- 9624852575 0040541926



જોઇએ છે કચરેકર- ડેપ્યુટી મેનેજર (મહિલા ઉમેદવાર) કન્યા છાત્રાલય સરદારધામ અમદાવાદ માટે, ન્યાતક, કોમ્પ્યુટર જાણકાર, અનુભવી, આકર્ષક પગાર, www.sardardham.org પર અરજી કરવી, અરજી કરવાની છેલ્લી તા. 10- 9- 25. 0040541848



લિફ્ટી

વેચવાનું છે

સમાર્થ નજરમાન સ્કૂલ પાસે, ચોથા માળે 2 BHK પેન્ટહાઉસ વેચાણ માટે. ૬૭૫ ચોરસ વારીકરી માટે. 99798 64120 પર વોટ્સએપ પર સંપર્ક કરો 0040541818

કબોર્ડ રોડ

વેચવાનું છે

3 B H K કુલેટ 1750 સુપર નિવાસ્થ, સેમી ફર્નિચર સોખ્યાણાય, વડોદરા. સંપર્ક 8000041859, 9726936194 0040541881

ભાડે આપવાનું છે

દુકાન ભાડે આપવાની છે. બે માળની, બાપુની કરણાલ પાછળ મેઈન રોડ ગોરવા. 9898611828 0040541881

હરણી રોડ

વેચવાનું છે

ત્રિભવન સ્કુલ પાસે 4 BHK દુખેલ વેચવાનો સ્વપ્ન ડિપલી 9904513795 0040541789

વાઘોડિયા રોડ

વેચવાનું છે

મકાન વેચવાનું છે. વાઘોડિયા રોડ પરિવાર ચાર રસ્તા નજીક 18 ચીટર રોડ ટચ આરી ઓલીટીવાળું, 1600 સ્કે. ફુટના પ્લોટમાં 3 સાઈડ ખુલ્લું, (ભાવ 10,000/-સ્કે. ફુટના) સંપર્ક- 9974385200 0040541930

તાત્કાલિક વેચવાનું ત્રણેના હોસ્પિટલ પાસે Duplex કુલલી ફર્નિચ રેડી ટુ મુવ ફ્રી બાલાજ પ્રોપર્ટી 6200028653 0040541857



પરફેક્ટ પાર્સલ સેવા Chips ઈન્ટરનેશનલ કુવૈત, USA, UK, કેનેડા, AUS, NZ-ના સ્પેશીયલ રેટ 9898095632, 2320533, 2335632 0040541883

કપૂરાઈ, મચ્છર ભગાડે કોઈલ Mahadev Bird Net- 9724697744, 9274035199 0040541841

ગૃહ ઉદ્યોગ ઘરેથી પેપર ડીશ બનાવી 15000થી 40,000 કમાવો (એડવીનેન્સથી) 9824625640, 9824059178 0040540724

પારસોર્ટ, પ્રોપર્ટીકાર્ડ, કલ્યાણેજ, અસોપાલવ, મુખ્યકોટ, લોન પોપર્ટી, કુડ લાયસન્સ સંપર્ક- 9484781663 0040541904



મારુ નામ સોનિયા જય પ્રકાશ ઉપરાવાળ નવું બદલીને સોનિયા જય પ્રકાશ ઉપરાવાળ રાખેલ છે. એ- ૪૮, પ્રાર્થ પાર્ક, પાસળા રોડ, વડોદરા. 0040541864

જુનુ નામ- શૌલાબા શૌલાબેન નરેન્દ્રસિંહ નવું નામ- મોમબા સિસોદા, ૭૨, ક્રિસ્ટલનગર સોસાયટી, નુલસીધામ ચાર રસ્તા રોડ, ન્યુ ૪ જી ૧૫ ૨, વડોદરા- ૩૯૦૦૧૯ 0040541865

મારું જુનું નામ જાગૃતિ બહેનબાઈ અબુજ બદલીને નવું નામ ખુશી પ્રશાંતકુમાર નાગરેવ રાખેલ છે. ૩૨૫ખુંટ- ૩૭, હીરાનગર સોસાયટી, માંજલપુર હોસ્પિટલ પાછળ, હરણી રોડ, વડોદરા- 390022 0040541882

મારું જુનું નામ સુનિતા મહેન્દ્રકુમાર જાદવ કરું. જે બદલીને નવું નામ સુનિતા મહેન્દ્ર જાદવ કરેલ છે. બી-૧૦૧, કૃષ્ણમણિ ગ્રીન્સ, સેમ્બર્સ કોમર્શિયલ પાસે, અટલાદરા- પાદરા રોડ, વડોદરા- ૩૯૦૦૧૨ 0040541802

My Old Name- Shah Sudhaben Rajeshkumar. My New Name- Shah Sudhaben Rajeshbhai. Add- Chhani, Vadodara. 0040541799

I, Jayshreebahen Vasantbhai Shah (Old Name) Residing at 20, Parmal Park Society, Nizampura, Vadodara- 390002 hereby declare that I have Changed My Name as Jayshreeben Vasantkumar Shah (New Name) 0040541874

મારું નામ અમિતકુમાર પ્રવિણભાઈ પટેલ હતું બદલીને અમિત પ્રવિણભાઈ પટેલ કરેલ છે. ૧૪, જંકાર બંગ્લોઝની સામે મોગલવાડી, જવરાજપાર્ક પેજાપુર, અમદાવાદ. 0040541862

My Name has been Officially changed in all records from Deepak Nundram Sisodia to Sisodia Deepak. I am residing at 389, Sharadnagar, Tarsali, Vadodara. 0040541808

નવું નામ પટેલ ભાવિકકુમાર બિપુભાઈ, જુનું નામ પટેલ ભાવિકકુમાર બિપુભાઈ. રહેવાસું- 134, પંચવટ કુણિયુ, વરણી ગામ, વડોદરા- 390022. 0040541821

My Old Name Was Pinkal Milan Patel. New Name is Pinkalben Milan Patel. Address: 21/ C, Shivam Society, Nr. Chhani Jakat Naka, Nizampura, Vadodara- 390002 0040541824

મારું નામ મિતીલેન રાજેન્દ્રકુમાર તુરખીયા હતું એ બદલીને મિતી તુરખીયા રાખેલ છે. સરનામું- ૯, અંજલિ સોસાયટી, ઉંકોરાપાર્ક, સુભન-પુરા, વડોદરા- 390007 0040541806

My Old Name Was Shraddhaben Tejas Kotak. New Name is Shraddha Tejas Kotak. Address: 104- Suvarn Shrushti Appt. 31/ 39- Prahlad Plot, Karanpara Chowk, Rajkot- 360001 0040541802

વાંચકોએ નોંધ લેવી કે કોઇપણ જાહેરખબરમાં જણાવેલી માહિતીની સાચ્ચતા બાબતે સામે કોઇ જાગેપારી સ્વીકારવામાં નથી. વાંચકોએ પોતાની રીતે પૂરતી તપાસણી કરીને જોઇતા નિર્ણય લેવાનો રહેશે.
- જાહેરખબર મેનેજર

GUJARAT INDUSTRIES POWER CO. LTD.
TENDER FOR BIENNIALRATE CONTRACT FOR COMPLETE ELECTRICAL SYSTEM AT SURAT LIGNITE POWER PLANT (SLPP) INCLUDING 5MWB1MW SOLAR PLANT FOR THE YEAR 2025-27

Interested Vendors may submit their Bids on two-part basis through (n) Procure (Tender ID is 220327). It can also be viewed from Company's website www.gipcl.com. The last date of submission of bid is 23/09/2025 up to 17:30 hrs.
ADDITIONAL GENERAL MANAGER (O&M) SLPP

ગુજરાત ઇન્ડસ્ટ્રીઝ પાવર કંપની લિમિટેડ
જી.આઈ. પ્રોજેક્ટ, વડોદરા - ૩૯૦૦૨૦.
ઈન્ટરનેટ સાઈટ: (૦૨૬૫) ૨૩૦૪૨૫૭ / ૨૩૦૪૨૫૮, ઈમેઇલ : www.gipcl.com

જાહેર સૂચના

ગુજરાત ઇન્ડસ્ટ્રીઝ પાવર કંપની લિમિટેડ (ગુ.ઇ.પા.કં.લિ.) દ્વારા નવાનિક ગુજરાત લિગ્નાઇટ રીસર્વોટી લિમિટેડ સ્થિત સ્થાપ કરવામાં આવેલ નીચે મુજબની સાધનોને અને ઈન્સ્યુરન્સ પોલીસી ઈન્ડસ્ટ્રીઝ/ઇન્સ્યોરન્સ કંપની સાથેની ઓનલાઈન પ્રોસ્પાર્ટ આપી છે, તે મુદ્દત ઈન્સ્યોરન્સ પાવર પ્લાન્ટ (SLPP) સોસાયટી.

૧. સાધનું કવર્સ રસ્ટ/કાટ/ટ્રુટ ઈન્સ્યોરન્સ પાવર પ્લાન્ટ ટુકન ૧૪ ૨૩ વર્ષ પોલિસી ટુકિયા પુનર્વસિધિ, સમારકામ/રીપ્લેસ કરવા અંગેની પૂર્તિ માટે સમયે સમયે જરૂરી બનતા મુદ્દે ખાસ કરીને ચોરી કરવા, ઈન્સ્યોરન્સ પોલિસીના સુધારા કરવા માટે.

૨. સાધનું વર્ષના રસ્ટ/કાટ/ટ્રુટ ઈન્સ્યોરન્સ પાવર પ્લાન્ટ ટુકન ૧૪ ૨૩ વર્ષ પોલિસી ટુકિયા પુનર્વસિધિ, સમારકામ/રીપ્લેસ કરવા અંગે ૨ વર્ષ સુધારાવધારા ટુકિયા

આવેલ તમામ ટેન્ડરોના www.gipcl.com પર મુકવામાં આવ્યા છે. ઈચ્છુકોએ પ્રોજેક્ટ મુજબ વાર્ષિક આવી ઓનલાઈન ૧૫ દિવસની અંદર અમારા કચેરી ટેન્ડરની ઈન્ફોર્મેશન / સૂચનો, ૧ અઠવાડિયા ટેન્ડર ટેક્નિકલ ઓપનિંગ્સ ઓફિસિયલ્સ સાથે, ગુજરાત લિગ્નાઇટ રીસર્વોટી કંપનિયન, ટુકી નાર, વિસ્તરણ, જીલ્લા પંચાયત, વડોદરા- ૩૯૧૭૪૦ ખાતે ઓફિસમાં ભેગાની રહે છે અને ટેન્ડરો સંબંધ ગુજરાત લિગ્નાઇટ નામ ટુકની ઈન્ફોર્મેશન પહોચાવી રહેશે.

તા : ૦૨.૦૯.૨૦૨૫ સમિતિના મહાવ્યવસ્થાપક (એન્જીનિયરીંગ-પ્રોજેક્ટ સીવિલ)

જાહેર નોટીસ તા.૦૩/૦૯/૨૦૨૫

આથી જાહેર જનતાને જણાવવામાં આવે છે કે, ઉંકોરાપાર વડોદરા ખાતે-ઉંકોરાપાર વડોદરા ખાતે નીચે મુજબની મિલકતોના ટાઈટલ બાબતે કોઈ વાંધા-તકરાર હોય તો તેમણે આ નોટીસ પ્રસિધ્ધ થયેથી ૧૫ દિવસમાં નીચે જણાવેલ સરનામા પર લેખિતમાં પુરાવા સહ જાણ કરવી અન્યથા ત્યારબાદ આવેલ વાંધા-તકરાર ધ્યાને લેવામાં આવશે નહીં અને મિલકત બાબતે કોઈ વાંધા-તકરાર નથી તેમ માની મિલકત બાબતે આગળની કાર્યવાહી કરવામાં આવશે.

૧) ફ્લેટ નં. ૧૦૧, ૧ લો માળ, બિલ્ડીંગ નં. ૧૦, સ્વસ્તિક રેસીડેન્સી, ઉંકોરાપાર વડોદરા ખાતે આવેલ ફ્લેટ નં. ૧૦૧ વાળી મિલકત.

૨) ફ્લેટ નં. ૧૦૨, ૧ લો માળ, બિલ્ડીંગ નં. ૧૦, સ્વસ્તિક રેસીડેન્સી, ઉંકોરાપાર વડોદરા ખાતે આવેલ ફ્લેટ નં. ૧૦૨ વાળી મિલકત.

૩) ફ્લેટ નં. ૧૦૩, ૧ લો માળ, બિલ્ડીંગ નં. ૧૦, સ્વસ્તિક રેસીડેન્સી, ઉંકોરાપાર વડોદરા ખાતે આવેલ ફ્લેટ નં. ૧૦૩ વાળી મિલકત.

૪) ફ્લેટ નં. ૧૦૪, ૧ લો માળ, બિલ્ડીંગ નં. ૧૦, સ્વસ્તિક રેસીડેન્સી, ઉંકોરાપાર વડોદરા ખાતે આવેલ ફ્લેટ નં. ૧૦૪ વાળી મિલકત.

૫) ફ્લેટ નં. ૨૦૧, ૨ જો માળ, બિલ્ડીંગ નં. ૧૦, સ્વસ્તિક રેસીડેન્સી, ઉંકોરાપાર વડોદરા ખાતે આવેલ ફ્લેટ નં. ૨૦૧ વાળી મિલકત.

૬) ફ્લેટ નં. ૨૦૨, ૨ જો માળ, બિલ્ડીંગ નં. ૧૦, સ્વસ્તિક રેસીડેન્સી, ઉંકોરાપાર વડોદરા ખાતે આવેલ ફ્લેટ નં. ૨૦૨ વાળી મિલકત.

૭) ફ્લેટ નં. ૨૦૩, ૨ જો માળ, બિલ્ડીંગ નં. ૧૦, સ્વસ્તિક રેસીડેન્સી, ઉંકોરાપાર વડોદરા ખાતે આવેલ ફ્લેટ નં. ૨૦૩ વાળી મિલકત.

૮) ફ્લેટ નં. ૨૦૪, ૨ જો માળ, બિલ્ડીંગ નં. ૧૦, સ્વસ્તિક રેસીડેન્સી, ઉંકોરાપાર વડોદરા ખાતે આવેલ ફ્લેટ નં. ૨૦૪ વાળી મિલકત.

૯) ફ્લેટ નં. ૩૦૧, ૩ જો માળ, બિલ્ડીંગ નં. ૧૦, સ્વસ્તિક રેસીડેન્સી, ઉંકોરાપાર વડોદરા ખાતે આવેલ ફ્લેટ નં. ૩૦૧ વાળી મિલકત.

૧૦) ફ્લેટ નં. ૩૦૨, ૩ જો માળ, બિલ્ડીંગ નં. ૧૦, સ્વસ્તિક રેસીડેન્સી, ઉંકોરાપાર વડોદરા ખાતે આવેલ ફ્લેટ નં. ૩૦૨ વાળી મિલકત.

૧૧) ફ્લેટ નં. ૩૦૩, ૩ જો માળ, બિલ્ડીંગ નં. ૧૦, સ્વસ્તિક રેસીડેન્સી, ઉંકોરાપાર વડોદરા ખાતે આવેલ ફ્લેટ નં. ૩૦૩ વાળી મિલકત.

૧૨) ફ્લેટ નં. ૩૦૪, ૩ જો માળ, બિલ્ડીંગ નં. ૧૦, સ્વસ્તિક રેસીડેન્સી, ઉંકોરાપાર વડોદરા ખાતે આવેલ ફ્લેટ નં. ૩૦૪ વાળી મિલકત.

ધનેશ્વાલાલ (ધનુભાઇ) એમ. પટેલ (એડવોકેટ)
૬૨૨ ફ્લોર, ફ્લોટ નં. ૪૨, જગન્નાથ કોમ્પલેક્ષ, ગીતામંદિર પેટ્રોલ પંપની બાજુમાં, પ્રતાપનગર રોડ, વડોદરા-૩૯૦ ૦૦૪. મો.: ૯૮૨૫૫ ૪૦૮૫૨

જાહેર નોટીસ

અમો એડવોકેટ ધનેશ્વાલાલ (ધનુભાઇ) એમ. પટેલ તે અમારા અસીલોવતીની સુચના અને ફરમાશથી આ જાહેરનોટીસ પ્રસિધ્ધ કરી જણાવીએ છીએ કે :-

મોજે ગામ તા‌વપુરા, તા. વાઘોડિયા, જી. વડોદરા, હાલે મ. ૨૯ જેની પુરી કિ. સર્વે નંબર : ૨૯૨ છે અને જેનું કુલ ક્ષેત્રફળ ૧૭૩૦૫ ચો.મી. છે. જેના જમીન માલિકો વસ્તાબેન લવણાભાઈ, સુશીલાબેન ગણપતભાઈ, અરવિંદભાઈ ભાઈલાલભાઈ, ચારદાબેન નથ્થાભાઈ, સુનિત્રાબેન જસંતિભાઈ, મંજુલાબેન લવણભાઈ, મધુબેન ગણપતભાઈ પગેરીનો રહેવાસી જુ. વડોદરા પાસેનો અમારો અસીલે ખાતર ૨૪૫ અબીલે વેચાણ બાનાખત કરેલ છે. જેઓએ ટાઇટલ ક્લીયરન્સ સર્ટીફીકેટની માંગણી અમારી પાસે કરેલ હોય, અદ્રહું જમીનમાં કોઇપણ પ્રકાર કે સંસ્થાનો કોઇપણ પ્રકારનો હક્ક, ભાગ, હિત, સંબંધ કે અધિકાર કે ભરણ પોષણના અધિકાર કે કોઇ સંસ્થાના જાળીનગીરીના અધિકાર કે કોઇ સંસ્થાના હોવાનો આથેર હોય કે, અદ્રહું જમીન બાબતે સંબંધકર્તાની કાર્યવાહી થાર્ડ રહેલ હોય, કે અદ્ર જમીન બાબતે બેંકો, મંડળીઓ, કોર્પોરેશન સરકારી - અર્ધસરકારી કે બાકીની સંસ્થાઓ દ્વારા બાંધકામ સહાય આપેલ હોય, તેવા તમામને આ જાહેર નોટીસ પ્રસિધ્ધ થયેથી પોતાના હક્ક અધિકાર સંબંધિત પુરાવાસહ રજીસ્ટર્ડ પોસ્ટ એ.ડી.થી પોતાના વાંધા લીખે જણાવેલ સરનામે ૧૫-૦ માં મોકલીઆપવા. ઉપરનુ વાંધા રજીકારવામાં આવશે નહીં તેની નોંધ લેવી અને ત્યારબાદ વિના વાંધા રજીકારવામાં આવશે નહીં તેની પણ નોંધ લેવી. ત્યારબાદ વિના વાંધા રજીકારવામાં આવશે નહીં તેની નોંધ લેવી. ત્યારબાદ કોઇપણ પ્રકારની રજુઆત ધ્યાને લેવામાં આવશે નહીં તેની તમામ ખાતરી વાસ્તાની નોંધ લેવી.

તારીખ : ૦૨-૦૯-૨૦૨૫, વડોદરા. અમારા અસીલની સુચના અને ફરમાશથી

ધનેશ્વાલાલ (ધનુભાઇ) એમ. પટેલ - એડવોકેટ (ગુજરાત હાઇકોર્ટ)
૬૨૨ ફ્લોર, ફ્લોટ નં. ૪૨, જગન્નાથ કોમ્પલેક્ષ, ગીતામંદિર પેટ્રોલ પંપની બાજુમાં, પ્રતાપનગર રોડ, વડોદરા-૩૯૦ ૦૦૪. મો.: ૯૮૨૫૫ ૪૦૮૫૨

ગુજરાત સરકાર

શ્રમ કૌશલ્ય વિકાસ અને રોજગાર વિભાગ, બ્લોક-૫/૬ઠ્ઠો માળ, સચિવાલય, ગાંધીનગર,
જાહેરાત ક્રમાંક : ૦૧/૨૦૨૫-૨૬

કાયદા સલાહકારની કરાર આધારિત જગ્યા ભરતી

શ્રમ કૌશલ્ય વિકાસ અને રોજગાર વિભાગ, ગુજરાત રાજ્ય, ગાંધીનગર,

જાહેરાત ક્રમાંક : ૦૧/૨૦૨૫-૨૬ શ્રમ, કૌશલ્ય વિકાસ અને રોજગાર વિભાગ(૫)ની તમામ કાર્યાલયોની ૧૮ (અઢાર) જગ્યાઓ કરાર આધારિત ભરવાની જાહેરાત ઉમેદવારો પાસેથી ઓનલાઈન અરજીઓ મંગાવવામાં આવે છે.

જગ્યાનું નામ	કુલ જગ્યા	વય મર્યાદા	પગાર ધોરણ	ઉમેદવારો માટે સામાન્ય
કાયદા સલાહકાર	૧૮	૫૦વર્ષ થી ઓછી	૬૦,૦૦૦/- માસિક ફોકસ્ડ પે	(૧) ભારત યુનિવર્સિટીની સ્નાતકના સમકક્ષની પદવી (L.L.B.) (૨) વકીલાતની પ્રેક્ટીસનો અનુભવ પોસ્ટ ગ્રાજ્યુએશન ને પીએચ.ડી. ધારક ઉમેદવારોને પ્રાધાન્ય આપવામાં આવશે. (૩) DOC+ કરાવ્યું કોમ્પ્યુટરનું જ્ઞાન.

ખાસ નોંધો:
(૧) ગુજરાતી અને અંગ્રેજી બંને ભાષા પરનું પ્રભુત્વ ધરાવતા હોય.
(૨) ખાલી પડેલ જગ્યાની સામે ૧૦ ગણા ઉમેદવારોને Enrolment ક્રમાનુસાર.
(૩) અરજી સાથે રૂા. ૫૦૦/- ની Demand Draft, ઓનલાઈન કરવી.
(૪) અપૂર્ણ વિગતે આવી અરજીઓ ધ્યાને લેવામાં આવશે નહીં. ઉમેદવારે અરજીમાં આપેલ ઈ-મેઈલ આઈડી પર પરીક્ષા અંગેની સૂચના મોકલવામાં આવશે.
(૫) ઓનલાઈન અરજી કરેલ ઉમેદવારોની યાદી તથા પરીક્ષા અંગેની વિગતો https://labour.gujarat.gov.in ઉપર મુકવામાં આવશે.

(માહિતી/૧૨૮૩/૧૫-૧૬)

દક્ષિણ ગુજરાત વીજ કંપની લિમિટેડ

CIN U40102GJ2003SGC042909
રજી. અને કોર્પોરેટ કચેરી: 'વિદ્યુત સદન'
નાના વરાછા રોડ કાપોદ્રા ચાર રસ્તા, સુરત - ૩૯૫૦૦૬
ડીજીવીસીએલ હેલ્પ લા.નં.૧૯૧૨૩ અથવા: ૧૮૦૨ ૨૩૩ ૪૦૦૩

ખેતી વિષયક ફિડરોના વીજ પરવઠાના સમયમાં ફેરફાર અંગેની જાહેરખબર

આથી આથા માનવંતા વીજ ગ્રાહકોને જણાવવાનું કે ઉદ્યોગ અને મુક્ત ગ્રામ વર્તુળ કચેરીઓ હેઠળ આવતા રાજકોટના અને આરોગ્યો વિસ્તારોમાં કોવી ૬૯૯ ના ૧૧ કેવી ફીડરોમાં ૪૫૮-એફેક્ટર, ૧૧ કેવી ફીડરોમાં ૪૫૫ ફોલ્ટ આવતા રાજકોટના અને ૧૧ કેવી વીડર ૫૫૫ એફેક્ટ થી નીચેના નીચે જણાવેલ ખેતીવાડી ફિડરોની વીજળી વધુ અને ઓછા સમયના સમયમાં તારીખ 07.09.2025 થી ખેતીવાડી વૃધ્ધ સમયમાં નીચે મુજબના ફેરફાર કરવામાં આવેલ છે. જેની નોંધ લેવા વિનંતી છે.

ક્રમ નં.	જિલ્લાનું નામ	સબ-સ્ટેશનનું નામ	ખેતીવાડી ફિડરનું નામ	ખેતીવાડી ફીડરનું ગ્રુપ	હાલનો ચાલુની સમય	આપવામાં આવતા ચાલુનો સમય	આપવામાં આવતા ચાલુની સમય
૧	નર્મદા	૧૧ કેવી સબસ્ટેશન ૫૫ સ્ટેશન	૧૧ કેવી કાળકા એજ્યુ ફિડર	DN1	૧૨:૦૦ થી ૨૧:૦૦ કલાક	DN1	૦૬:૦૦ થી ૧૫:૦૦ કલાક
૨	નર્મદા		૧

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બોગસ દસ્તાવેજના કૌભાંડમાં આરોપી ઝડપાયો હતો

હત્યા સહિતના વિવિધ ગુનામાં સંડોવાયેલા અંજારના આરોપીનું વીજ જોડાણ કપાયું

ઓફિસ, મકાનમાં કનેકશન મેળવી લીધા, વીજ વિભાગે ૩.૫૦ લાખનો દંડ ફટકાર્યો

(પ્રતિનિધિ)

અંજાર પોલીસ સ્ટેશનમાં નોંધાયેલા બોગસ દસ્તાવેજ બનાવવાના કૌભાંડમાં સંડોવાયેલા શખ્સના ઓફિસ તેમજ મકાનમાં ગેરકાયદેસર મેળવેલા વીજ જોડાણ કાપી નાખવામાં આવ્યા હતા અને રૂપિયા ૩.૫૦ લાખનો દંડ ફટકારવામાં આવ્યો હતો.



અંજાર પંથકમાં અસામાજિક પ્રવૃત્તિઓ સાથે સંકળાયેલા ઈસમો વિદ્યુત કાયદા કાર્યવાહીના ભાગરૂપે પોલીસે તપાસ હાથ ધરી હતી, જેમાં મિલકત, શરીર સંબંધી તેમજ હત્યા સહિતના જુદાજુદા ૩ ગુનામાં સંડોવાયેલા આરોપી દીનમામદ કાસમ રાયમા, રહે. બાવડ ફળિયું દેવળિયા નાકા પાસે, અંજાર વાળાની ઓમ નગરની સામે ગુજરાત મિલ પાસે એસ.જી.એમ. ભોંયરાની ઓફિસ અને મકાનમાં તપાસ કરવામાં આવી હતી.

આરોપીએ ગેરકાયદેસર વીજ જોડાણ મેળવી લીધા હોવાનું સામે આવ્યું હતું.

જેથી પી. આઈ. એ.આર.ગોહિલ તથા પોલીસ સ્ટાફ અને પી.જી.વી.સી. એલ.ની ટીમને સાથે રાખી ગેરકાયદેસર વીજ કનેકશન કાપી નાખવામાં આવ્યા હતા. તેમજ ઉપયોગમાં લેવાયેલા ઈલેક્ટ્રિક વીજ સાધનોની વાદી બનાવી વીજ દંડ રૂ.૩,૫૦,૦૦૦ ફટકારવાની કાર્યવાહી હાથ ધરવામાં આવી છે. પોલીસ દ્વારા કરવામાં આવેલી કાર્યવાહીથી ગુનાહીત પ્રવૃત્તિઓ કરતા સામેલોમાં ૫૬ ટકાટ કેળાયો છે.

ખૂટતી કડીઓને વિકાસના માધ્યમથી પૂર્ણ કરવાનો કોલ

આંબાપર - સત્તાપર માર્ગ સહિત વિવિધ કામોનું ખાતમુહૂર્ત કરાયું

ટાંકો, ગટર તેમજ પાણીની લાઈન તથા સાર્વજનિક શૌચાલય બનાવાશે



(પ્રતિનિધિ)

અંજાર તાલુકાના આંબાપર-સત્તાપર માર્ગ, આરોગ્ય સબ સેન્ટર, પાણીની ઘાઈ ન, નર્મદા કિડર ટાંકો, ગટર તથા પાણીની લાઈન, સ્મશાનની નજીકના પુલનું કામ, સાર્વજનિક શૌચાલય ઉપરાંત મનાલિયા કંપની દ્વારા સીએસઆરમાંથી રોડવાઈટ સહિતનું પાયાસભર વિકાસલક્ષી છબેચના હસ્તે ખાતમુહૂર્ત કરાયું હતું. કાર્યક્રમની શરૂઆત શ્રીફળ વધેરીને કરાઈ હતી. ખાદમાં દીપ પ્રાગટય કરાયું હતું.

ગામના પૂર્વ સરપંચ પનજભાઈ બકુત્રાએ આંબાપરમાં વિકાસના દ્વાર ખુલ્યા હોવાનું જણાવ્યું હતું. સરપંચ હંસરાજભાઈ બકુત્રાએ ગામની ખૂટતી કડીઓને વિકાસના માધ્યમથી પૂર્ણ કરવાનો કોલ આપ્યો હતો. શ્રી.એન.આહીર, દેવાંબેન સનગર સહિતનાઓએ વિવિધ પ્રવચન આપ્યા હતા. મહારાજાઈ રબારીએ અંજાર વિસ્તાર ઝડપથી વિકાસ પામી રહ્યો હોવાનું જણાવ્યું હતું. આ પ્રસંગે ભુરાભાઈ છાંગા, રમેશભાઈ ચાવડા, ખાજરભાઈ છાંગા, કાનજીભાઈ આહીર, નારાણભાઈ બકુત્રા, કરસનભાઈ પટેલ, શામજીભાઈ બકુત્રા, પરબોતમ જૈર, રમેશભાઈ ગોયલ, પ્રેમજીભાઈ બકુત્રા, જીવીબેન ભાટરિયા ઉપસ્થિત રહ્યા હતા. કાર્યક્રમનું સંચાલન શૈલેષભાઈ ચૌરડ તથા આભારવિધિ પનજભાઈ ડુંબરે કરી હતી.

નખત્રાણા પોલીસે બાતમીના આધારે લક્ષ્મીપર- નેત્રા માર્ગ પરથી છોટાહાથીને રોકી તલાશી લેતાં તેમાંથી ચોરાઉ કોપરના વાયરના જથ્થા સાથે ત્રણ શખ્સોને ઝડપી લઈ રૂ.૧.૦૯ લાખનો મુદ્દામાલ કબજે કરી કોપર વાયરની ચોરીનો ભેદ ઉકેલ્યો હતો.

લક્ષ્મીપર-નેત્રા ગામની વાડીઓમાંથી કોપર વાયર ચોરી કરનારા ૩ ઝડપાયા

કોપર વાયર, છોટા હાથી, કુહાડી મળી રૂ.૧.૦૯ લાખનો મુદ્દામાલ કબજે લીધો

(સંજય પ્રતિનિધિ)



પ્રાંત માદિની મુજબ નખત્રાણાના પી.આઈ. એ.એમ.મકવાણા, કો-સ્ટેબલ આનંદભાઈ ચૌધરી, રમેશભાઈ રબારી વગેરે રસાકિયા ઓ. પી. વિસ્તારમાં પેટ્રોલિંગમાં હતા ત્યારે એવી બાતમી મળી કે, તલ્લીપરથી નેત્રા બાજુ આવી રહેલા એક છોટા હાથીમાં ચોરી કરાયેલા કોપર વાયરનો જથ્થો નેત્રા અને રવાપરના શખ્સો સગેવગે કરવા જઈ રહ્યા છે. આથી પોલીસે બાતમીવાળા સ્થળ પર ચોપ ગોઠવી બાતમીવાળું વાહન છોટાહાથી આવતાં પોલીસે તેને રોકીને ઝડપી કરતા તેમાંથી સળગી ગયેલા કોપર વાયરોના ડિંડવા આશરે ૧૫ કિલો મળી આવ્યા હતા. આથી પોલીસે છોટાહાથીમાં બેઠેલા નેત્રાના નૂરમામદ હસણ કુંભાર (ઉ.વ.૨૭), મોસીન હુસેન કુંભાર (ઉ.વ.૨૧) અને રવાપરના અકરાજ અબુલ્લા ચાકી (ઉ.વ.૨૦)ની પ્રાથમિક પૂછપરછ કરી હતી. જેમાં ત્રણેય શખ્સોએ નેત્રાથી લક્ષ્મીપર જતા માર્ગ પરની વાડીઓમાંથી ચોરી કર્યાની કબૂલાત આપતાં પોલીસે રૂ.૯ હજારનો કોપર વાયર, રૂ.૧ લાખની કિંમતના છોટાહાથી મળી કુલ રૂ.૧.૦૯ લાખનો મુદ્દામાલ કબજે લઈ ત્રણ સામે ચુનો ચોપી કાયદેસરની કાર્યવાહી હાથ ધરી હતી. પકડાયેલા આરોપીઓ નેત્રાનો મોસીન હુસેન કુંભાર વિરુદ્ધ નરા પોલીસ સ્ટેશનમાં ચોરીનો ચુનો નોંધાયેલ છે. જ્યારે નખત્રાણા પોલીસે નખત્રાણાની ચોરી-નો ભેદ ઉકેલી આગળની કાર્યવાહી હાથ ધરી હતી.

એજી વેન્ચર્સ લિમિટેડ

(પૂર્વ ઓરિએન્ટલ કર્બન એન્ડ કેમિકલ્સ લિમિટેડ)

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નોટિસ

(કંપનીના ઈક્વિટી શેરધારકો માટે માત્ર)

વિષય : કંપનીના ઈક્વિટી શેરો કોન્ટ્રાક્ટર એજ્યુકેશન એન્ડ પ્રોટેક્શન ફંડ ઓથોરિટી (IEPF)ને ટ્રાન્સફર કરવા બાબત

આથી આ નોટિસ કોન્ટ્રાક્ટર એજ્યુકેશન એન્ડ પ્રોટેક્શન ફંડ ઓથોરિટી (એકાઉન્ટિંગ, ઓડિટ, ટ્રાન્સફર અને રિફંડ) નિયમો, ૨૦૧૬, સમયાંતરના સુધારા સહિત ("સદરહુ નિયમો")ની જોગવાઈઓની સાથોસાથ અમલમાં પ્રકાશિત કરવામાં આવે છે. કંપની ધારા, ૨૦૧૩ની કલમ ૧૨૪(૬) સહિત વંચાતી તેના હિસાબોના નિયમો મુજબ, તમામ શેરો કે જેના ડિવિડન્ડો કંપની દ્વારા સતત સાત વર્ષ કે તેથી વધુ સમય સુધી ચૂકવાયા કે દાવા ન કરાયા હોય તે તમામ શેરો વર્ષ ૨૦૧૮-૧૯ માટેના પ્રથમ વચગાળાના ડિવિડન્ડની જાહેરાતની તારીખ એટલે કે ૧૭ માર્ચ, ૨૦૧૯ના રોજ કંપનીના ઈક્વિટી શેરો કે જેના સંબંધે ડિવિડન્ડ ૭ વર્ષ કે તેથી વધુ સમયગાળા સુધી દાવો કરવામાં આવ્યો નથી તે તમામ શેરો IEPF ઓથોરિટીને ટ્રાન્સફર કરવા જરૂરી છે.

નિયમોનાં નિર્ધારિત વિધિ પ્રક્રિયાનો પાલન, કંપનીને નાણાકીય વર્ષ ૨૦૧૮-૧૯ માટે અંતિમ ડિવિડન્ડ (ગ્રાન્યુલર ડિવિડન્ડ) જે સતત સાત વર્ષ કે તેથી વધુ સમયગાળા સુધી દાવો કરવામાં ન હોય કે નિષ્ફળતાપૂર્વક હોય તેના ઈક્વિટી શેરો સબંધિતોને ઓથોરિટીના ડિમેટ એકાઉન્ટમાં ટ્રાન્સફર કરવામાં સત્તાથી તે બાબતે સાથે સાથે ઓડિયન સંજોગોસાપેક્ષ કરેલ છે. કંપનીએ આવા શેરધારકો અને શેરો જે ઓથોરિટીને ઓથોરિટીના ડિમેટ એકાઉન્ટમાં ટ્રાન્સફર કરવા અંગે શેરો જે ઓથોરિટીને ઓથોરિટીમાં ટ્રાન્સફર થવા માટે કાયુ છે, તેની સંપૂર્ણ વિગતો કંપનીની વેબસાઈટ www.agventureslld.com ઉપર અપલોડ કરેલ છે.

તમામ સંબંધિત શેરધારોને તા. ૬ઠ્ઠી ડિસેમ્બર, ૨૦૨૬ સુધી સમયાં તે પહેલા કંપની કે કંપનીના રજિસ્ટ્રાર અને શેર ટ્રાન્સફર એજન્ટને પત્રથી દાવાની સાથોસાથ વર્ષ ૨૦૧૮-૧૯ તથા ત્યારબાદના વચગાળાના ડિવિડન્ડોની રકમ ઉપરાંત તેના મુજબ સૂચિત કરવામાં આવે છે, કે જેથી તે વેળાએ કંપની/રજિસ્ટ્રાર અને શેર ટ્રાન્સફર એજન્ટને ઉપરોક્ત કામકાજના સૂચી કોઈ ખાતુદાર આવી નથી, તો કંપની નિયમોમાં નિર્ધારિત વિધિ પ્રક્રિયાની પરિપૂર્તિ કરવા બીજો કાનૂની દસ્તાવેજોનો અનુપાલન કર્યે કોઈ પણ નોટિસ સમય વગર નાણાકીય વર્ષ ૨૦૧૮-૧૯ માટેના લાભ શેરો અને વચગાળાના ડિવિડન્ડ અપોઓથોરાઈઝ્ડ કરશે.

૧. જો ભૌતિક સ્વરૂપે શેર ધરાવતા હો : સંબંધિત સભ્યો પોતાની વિગતોક્ષેત્ર શેર અપડેટ કરી કરવી તેમને અપોઓથોરાઈઝ્ડ ઓથોરિટીના ટ્રાન્સફર કરવી

૨. જો ડિમેટ સ્વરૂપે શેર ધરાવતા હો : ડિપોઝિટરી પાર્ટિસિપન્ટ્સની સહાયથી અપોઓથોરાઈઝ્ડ ઓથોરિટીના ડિમેટ એકાઉન્ટમાં શેરો સીધા ટ્રાન્સફર કરાવો.

સંબંધિત સભ્યો અપોઓથોરાઈઝ્ડ ઓથોરિટીમાં ટ્રાન્સફર થયેલ નિમજ્જનપાત્ર ડિવિડન્ડ લાભ શેરો સહ અંગે અપોઓથોરાઈઝ્ડ નિયમોનાં અનુસંધાન નિર્ધારિત કાર્યવાહી અનુસરીને દાવો કરી શકશે.

જો કોઈ સભ્યને આ નિયમાવલી અંગે નિયમો કંપનીને કોઈપણ પ્રશ્ન/સ્પષ્ટતા જરૂરી હોય તો, તે માટે તેઓ કંપનીના રજિસ્ટ્રાર અને ટ્રાન્સફર એજન્ટ કોમ્પ્યુટેક્સ ઈન્ટરનેટ લિમિટેડ પ્રા. લિ., ૨૭૨૯૫ કોર્ટ, બોમ્બે માર્ગ, ૨૭, સેક્ટર ૧૧૫, એન. મુખરજી રોડ, કોલકાતા-૭૦૦૦૦૧, પશ્ચિમ બંગાળ ટેલિ. નંબર ૦૩૩-૨૨૩૬-૧૦૪૩-૧૬૦૦, ઈ-મેલ આઈડી : kolkata@in.mpms.mufg.com પર સંપર્ક કરી શકે છે.

આ નોટિસ કંપનીની વેબસાઈટ www.agventureslld.com ઉપર જોઈ બાબત છે તથા સ્ટોક એક્સચેન્જોની વેબસાઈટ www.bseindia.com પર પણ જોઈ શકાશે.

કંપનું વેન્ચર્સ લિમિટેડ વતી

(પૂર્વ ઓરિએન્ટલ કર્બન એન્ડ કેમિકલ્સ લિમિટેડ)

સહી/-

વિપિન

કંપની સેક્રેટરી

સ્થળ : ભચાઉ

તારીખ : ૦૨/૦૯/૨૦૨૫

શિક્ષણ સમિતિના ૫૬ વર્ષના ઈતિહાસમાં પ્રથમવાર કાર્યક્રમ

અંજારમાં નગર શિક્ષણ સમિતિ દ્વારા ગુરુવંદના સન્માન સમારોહ યોજાયો

પાલિકાના સહયોગથી ૨૧ શાળાના ૧૯૭ શિક્ષકોને સન્માનપત્રથી સન્માનિત કરાયા



(અંજાર પ્રતિનિધિ)

અંજારના પાયાસભ્ય વિકાસપ્રેમાઈ છાંગાની પ્રેરણા અને અંજાર પાલિકાના સહયોગથી અંજાર નગર પ્રાથમિક શિક્ષણ સમિતિ દ્વારા શિક્ષકદિનના ઉપલક્ષમાં ગુરુવંદના સન્માન સમારોહ યોજાયો હતો, જેમાં ૨૧ શાળાના ૧૯૭ શિક્ષક ભાઈ-બહેનોનું સન્માન કરાયું હતું. આ તકે, પાયાસભ્યે જણાવ્યું હતું કે, અંજાર નગરપાલિકા તથા નગર પ્રાથમિક શિક્ષણ સમિતિ દ્વારા યોજાયેલા કાર્યક્રમમાં ગુરુનો મહિમા વિદ્યાર્થીનો તથા સમાજને સમાજય તેવું શ્રેષ્ઠ આયોજન હોવાનું જણાવ્યું હતું.

અંજાર નગર પ્રાથમિક શિક્ષણ સમિતિના ૫૬ વર્ષના ઈતિહાસમાં પ્રથમ વાર શાળા નં.૩ ખાતે પાલિકા પ્રમુખ વેજબાઈબાઈ કોરાણીની અધ્યક્ષતામાં કાર્યક્રમ યોજાયો હતો, જેમાં શાસકપક્ષના નેતા નિલેશભાઈ ગોસ્વામીએ કાર્યક્રમની રૂપરેખા રજૂ કરી હતી, શાસનાધિકારી મુરજીભાઈ ગિંડાએ ગુરુનો મહિમા સમજાવ્યો હતો.

કાર્યક્રમમાં કિતેન્દ્રભાઈ વ્યાસ, શિલ્પાબેન ખુટ્ટાણી, પાર્થભાઈ ઓરડિયા, નિલેશગિરિ ગોસ્વામી, કલ્પનાબેન ચોટ્ટ, ભરતભાઈ જેઠવા, અશ્વિનભાઈ સોરઠિયા, વિજયસિંહ રાણા, ઈશાબેન ચાવડા, પ્રીતિબેન મકવાણા, બહાદુરસિંહ જાડેજા, વીણાબેન પ્રજાપતિ, અમરીશભાઈ કંડોરી, વિજયભાઈ પલાણ, અશ્વિનભાઈ પંડ્યા, હસમુખભાઈ કોડરાણી, પનજાભાઈ આહીર, મોનિકાબેન ગોસ્વામી, કિશોરસિંહ જાડેજા, મુકેશભાઈ પટેલ, મણકભાઈ રાયમા સહિતના અગ્રણીઓ ઉપસ્થિત રહ્યા હતા. સંચાલન તેજસભાઈ મહેતા અને આભારવિધિ મહેશભાઈ સોરઠિયાએ કરી હતી.

હિંગોરિયાનો પકડ વોરંટનો આરોપી પકડાયો

(ખુબર પ્રતિનિધિ)

ભખાડા તાલુકાના હિંગોરિયા ગામનો ૨૦૧૬ માંહીના ફોજદારી ચુનામાં કોર્ટના પકડ વોરંટમાં પકડવાનો બાકી હોઈ, એલસીબીએ બાતમીના આધારે ૩૧મી ઓગષ્ટે માંડવી કોર્ટમાં રજૂ કરી આરોપની કાર્યવાહી હાથ ધરી હતી. પ્રાપ્ત માહિતી મુજબ માંડવી જ્યુડિશિયલ ફર્સ્ટ ક્લાસ ની કોર્ટના ઓફિસરી કેસ નં. ૫૬૧ ચોરેટ મો પક્કાભાઇ ૬૧૪૧ અ૫૧૧૨૧ નાથુકોના હિંગોરિયા ખેતુભા જોધા (ઉ.વ.૪૯) વોંધા ગામ થી પોલીસ પકડથી દૂર રહ્યો હતો. એલસીબીને ટેકનિકલ ગ્રીને માહિતી અજિતસિંહને ૯૮૪૨૮ વાર્તાલાપ કરી માંડવી કોર્ટમાં રજૂ કરી કાર્યવાહી હાથ ધરી હતી.

સંદેશ કલાસિફાઈડ

[નોકરી વિષયક । વ્યવસાયિક । શૈક્ષણિક । ઔષધ વિષયક । લગ્ન બંધનલક્ષી । અન્ય]



વર જોઈએ

પટેલ

પટેલ 37 વર્ષ વિધવા 7 પાસ મહિલા સર્વ જ્ઞાતિ વર આવશ્યક (નાનકલિક) 99094 04001

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અન્ય

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સરકારી નોકરી રેલવે ક્રૅક ક્લેરેટ ક્લાર્ક ગ્રુપડ્રાઈવર સ્ટેનોગ્રાફર ડાયરેક્ટર ભરતી 8 પાસ/ગ્રેજ્યુએટ ફીસ 600. 8077210270 0040541844

Gujarati પેક્સિલ પેકિંગ ચારની મહિલા પુરુષ 95000 કમાઓ વોટ્સએપ 82668 80130 0040541789

શૈક્ષણિક

જોઈએ છે ડાયરેક્ટર- ડેપ્યુટી ડાયરેક્ટર (મહિલા ઉમેદવાર) ૬-૫ છાત્રાલય સરદારગ્રામ અમદાવાદ માટે, ક્વાલ્ટ, ડોમ્પુટર જાણકાર, અનુભવી, આકર્ષક પગાર, www.sardardham.org પર અરજી કરવી, અરજી કરવાની છેલ્લી તા. 10- 9- 25. 0040541845

વાંચનારને ઓછા લેવી જે કોઈ પણ જાહેરાતબાબતે જાણકારી જોઈતી હોય તો સંબંધિત જાહેરાતકર્તાનો સંપર્ક કરવો. વાંચનારો બોગસી લોભી પૂરતી ખાતરી કરીને જોગ્ય નિર્ણય લેવાનો રહેશે.

- ગુજરાતમિત્ર મેનેજર

ધોળાવીરા-રાપરવાયા ભાવનગર બસ શરૂ કરવા માટે માગ કરાઈ

(સંજય પ્રતિનિધિ)

નખત્રાણા તાલુકાના ધોળાવીરાથી રાપર વાયા ભાવનગર નવી બસ શરૂ કરવાની માગ કરાઈ હતી.

આ અંગે ભારતીય મજદૂર સંઘના ગુજરાત પ્રદેશ મંત્રી ભાવેશભાઈ ઉપાધ્યાયે રજૂઆત કરતાં જણાવ્યું હતું કે, ધોળાવીરા-રાપર-ભાવનગર આવવા જવા માટે ખાસ મુશ્કેલી પડી રહી છે.

જો ધોળાવીરા-રાપર-ભાવનગર બસ શરૂ કરવામાં આવે તો ટ્રાફિક પણ મળી રહેશે. તેથી સત્વરે આ નવો રૂટ શરૂ કરીને પ્રવાસીઓને સુવિધા ઉપલબ્ધ કરાવાય તેવી માગ કરાઈ હતી. આ વિસ્તારમાં પ્રવાસન વિકસ્યું છે તેથી દેશ-વિદેશના લોકો આવે છે, પરંતુ આવજા-જવા માટે એક પણ બસ નથી તેથી સત્વરે બસ શરૂ કરવામાં આવે તેવી માગ કરાઈ હતી. નવી બસ શરૂ થાય તો પ્રવાસીઓને સારી સુવિધા મળી રહે તેમ છે.

નવી બસ શરૂ કરવામાં આવે તો પ્રવાસીઓની સુવિધામાં વધારો થાય

GUJARAT INDUSTRIES POWER CO. LTD.

TENDER FOR BIENNIALRATE CONTRACT FOR COMPLETE ELECTRICAL SYSTEM AT SURAT LIGNITE POWER PLANT (SLPP) INCLUDING 5MW&1MW SOLAR PLANT FOR THE YEAR 2025-27

Interested Vendors may submit their Bids on two-part basis through (n) Procure (Tender ID is 220127). It can also be viewed from Company's website www.gipcl.com. The last date of submission of bid is 23/09/2025 up to 17:30 hrs.

ADDITIONAL GENERAL MANAGER (O&M) SLPP

ગુજરાત ઈન્ડસ્ટ્રીઝ પાવર કંપની લિમિટેડ

જી.આઈ.ડી.સી. વારોલી, સાયણ – ૩૯૪૧૫૦.

ઓપરેટરશ્રીના કાર્યાલય (૦૨૬૨૧) ૨૪૩૦૪૨ / ૨૪૩૦૪૯, ફેક્સ : www.gipcl.com

જાહેર સૂચના

ગુજરાત ઇલેક્ટ્રીસીટી બોર્ડ હસ્તકની વિદ્યુત કંપની લિમિટેડ (ગુજરાત જે.વી. કો લિ.) હાલ નાણાકીય ગુજરાત ઇલેક્ટ્રીસીટી રેગ્યુલેટરી કમિશન દ્વારા કરવામાં આવેલ ઓર્ડર મુજબની આવશ્યક ડિસ્કોમ/ટ્રાન્સમિશન/જનરેશન કંપનીઓ માટે ઇન્ટર સ્ટેટ ટ્રાન્સમિશન સિસ્ટમ (ISTS) સંબંધિત છે.

૧. સદરહુ ક્રમાંક ૨૨૭૮/૨૦૨૨-૨૩ મુજબ ઉકાઇ ખાતે ૨૫૦ MW ના ૨ x ૫૦૦ MW ક્ષમતાનું ટુપ્લિ સિમ્પલ, સબક્રિટીકલ કોલ આધારિત વીજ મથક સ્થાપવા માટેની મંજૂરી આપવા, ઓપન એક્સેસ ધારા અંતર્ગત ૨૫૦ MW ની ઇન્ટર સ્ટેટ ટ્રાન્સમિશન સિસ્ટમ (ISTS) સાથે જોડાણ માટે ઉકાઇ ખાતે

બંને સગીર પિતરાઈ બહેનોને પટ્ટા વડે માર મારવા સાથે વીજ શોટ આપતા સાયલામાં સારવાર લેવી પડી

સાયલા ગ્રામ્યની બે સગીરાને મોરબી પોલીસે ઢોર માર માર્યો

આક્ષેપ શ્રમિક પરિવારનો : રઝળેશ્વરના મેળામાં ચોરીના આરોપસર પોલીસ પકડી જવા સાથે ગેરકાયદે રીતે ગોંધી રાખી





(સાયલા)

સાયલા ગામમાં રહેતો શ્રમિક પરિવાર મોરબીના રઝળેશ્વર ખાતે અમાસના મેળા નીમીતે ગયા હતા. પરિવારની રજૂઆત મુજબ તેમની ૧૦થી ૧૨ વર્ષની બે સગીર પિતરાઈ બહેનો પાણીના પાઉચનો વેપાર કરતી હતી. તે સમયે મોરબી પોલીસના સ્ટાફ દ્વારા બન્નેને તમે મેળામાં ચોરીનો આરોપ લગાવી લઈ જઈ માર માર્યો હોવાનો ચોંકાવનારો આક્ષેપ કરતા ચકચાર મચી જવા પામી છે.

મામા, કાકીની બહેનો એવી આ બન્ને સગીરાને પોલીસ દ્વારા આઠ દિવસ અગાઉ મેળામાંથી લઈ ગયા બાદ તેઓની ભાળ મેળવવા પહોંચેલી ત્રીજી બહેનને પણ પોલીસ રાવટીમાં બેસાડી દીધી હતી. આ સમયે પોલીસના કોઈ વ્યક્તિએ કહેલ કે તારી બહેનોએ ૪ લાખની કિંમતનો સોનાનો ચેઈન ન ચોરી કરેલ છે. જો આ બાબતમાંથી બચવું હોય તો મને બે લાખ આપવા પડશેનું કહ્યું હતું તેમજ જો નહીં આપો તો મેળામાં ચોરીના ૪૦ બનાવ બનેલ છે. તે તમામનું આજ તમારી દીકરીઓ પર લગાવીશું તેમ જણાવ્યું હતું. પરિવારની રજૂઆત પ્રમાણે ગત તા.૨૩મીથી ૨૭મી ઓગસ્ટ સુધી બન્ને સગીરાને મોરબી તાલુકા પોલીસ દ્વારા તેઓની અટકમાં રાખી પટ્ટા વડે તેમજ ઈલેક્ટ્રિક્ડ શોટ આપી પરાણે ચોરીના ગુનાની કબુલાત કરાવવા પ્રયત્નો કર્યા હતા તેમજ સોમવાર સુધી ઓપી રાખી ઢોર માર મરાવાના આક્ષેપ સાથે મોરબી જિલ્લા પોલીસ અધિક્ષક, સુરેન્દ્રનગર એસપી, જિલ્લા કલેક્ટર, રાજ્યના ગૃહમંત્રી સહિતને લેખિત રજૂઆત સાથે આ બાબતે ન્યાય અપાવવાની અપીલ કરતા ખાખી બેડામાં દોડધામ મચી જવા પામી છે. ભોગ બનનાર પરીવારની બન્ને સગીરાઓને કથીત ઢોર માર મારવાના બનાવ બાદ સાયલા ગ્રામ્ય સરકારી હોસ્પિટલ ખાતે લાવવામાં આવી હતી.

ત્યારે પક્ષ પરિવારે આ બાબતે ન્યાયની માંગણી દોહરાવી જવાબદારો સામે પગલા ભરવાની માંગ ઉચ્ચારી હતી. કથીત અલેપીત બનાવમાં જો સત્ય હોય તો રક્ષક જ ભક્ષક બનવા સાથે ખાખી પર ડાઘ લાગવાનો વધુ એક બનાવ બનવા પામ્યાનું માની શકાય. જ્યારે આગામી સમયમાં પોલીસ તપાસ દરમિયાન શું ઉજાગર થાય છે. તે પણ જોવું રહ્યું.

ટેકાના ભાવે વેચાણ માટે ૧૫ સપ્ટે. સુધીમાં રજીસ્ટ્રેશન કરાવી લેવું

(સંવાદદાતા)

ખેડૂતોને આર્થિક રક્ષણ મળી રહે અને ઉત્પાદન પોષણક્ષમ ભાવો મળી રહે તે માટે રાજ્ય સરકારે વર્ષ ૨૦૨૫-૨૬ ખરીફ સિઝનમાં મગફળી, મગ, અડદ, સોયાબીન ટેકાના ભાવથી ખરીદવાનું આયોજન કર્યું છે. આ માટે ખેડૂતો ૧૫મી સપ્ટેમ્બર સુધીમાં ઓનલાઈન નોંધણી કરાવી શકશે.

જિલ્લા મેનેજરની અધિકારીની યાદીમાં જણાવ્યું છે કે, ટેકાના ભાવના વેચાણ માટે ખેડૂતો ઓનલાઈન નોંધણી જાતે કરી શકે છે અથવા ગ્રામ્ય કક્ષાએ ઈ-ગ્રામ કેન્દ્રો ખાતે પી.પી.ઈ. ટેબલ ગ્રામ કક્ષાની સહકારી મંડળીઓ મારફતે વિનામૂલ્યે નક્કોના ઈ-ગ્રામ્યુડિ પોર્ટલ પર કરવાની રહેશે. આ માટે જરૂરી ડોક્યુમેન્ટ ગામની નમૂના ૮-અ, તલાટીનો વાવેતર અંગેનો દાખલો અથવા ૭-૧૨, આધાર કાર્ડની નકલ, બેન્ક પાસબુકના પ્રથમ પાનાની નકલ (આઈએફએસસી કોડ સાથે) જોડવા જણાવેલ છે.

ICICI Bank

ખાસ નોટિસ – ડોરામા વધિત કમાણીના ઉદ્દેશમાં ૨૫ ઈ-હરાજ્ય ખાદ્યનું ૨-૦૨

ક્રમ નં.	દેવાદાર/ઈ. ખાતેદાર/ઈ. ગ્યારંટર/ના વારસદાર/ના કાનૂની વારસદાર (૨)	ગીરો મિલકત (૩)	બાકી રકમ (૪)	અનામત કિંમત (૫)	ઈ-હરાજીની તારીખ અને સમય (૬)	ઈ-હરાજીની તારીખ અને સમય (૭)
૧.	યુવરાજ દુર્યોધનસિંહ જગદીશભાઈ ચાવડા (ઓથોરાઈઝ્ડ ઓફિસર) ICICI Bank Ltd. LBRA00008925364	ફ્લેટ નં. ૩૦૬, ટેનન્ટ કાર્પેટ એ. ૧૩૬.૩૬ ચો.મીટર બિલ્ટ અપ એરિયા ૨ બી.એચ.કે. ફ્લેટ, ૩જો માળ, બ્લોક નં. ૨, બિલ્ડિંગ નં. ૨૬/૨, સાગર સંકુલ-૨ તરીકે ઓળખાતી ઈમારત તરીકે ઓળખાતી મિલકતનો તે ભાગ, સર્વે નં. ૨૦૪૮ પૈકી ૧, ૨૦૪૯ પૈકી ૧, ૨૦૫૦ પૈકી ૧, ૨૦૫૧ પૈકી ૧, ૨૦૫૨ પૈકી ૧, ૨૦૫૩ પૈકી ૧, ૨૦૫૪ પૈકી ૧, ૨૦૫૫ પૈકી ૧, ૨૦૫૬ પૈકી ૧, ૨૦૫૭ પૈકી ૧, ૨૦૫૮ પૈકી ૧, ૨૦૫૯ પૈકી ૧, ૨૦૬૦ પૈકી ૧, ૨૦૬૧ પૈકી ૧, ૨૦૬૨ પૈકી ૧, ૨૦૬૩ પૈકી ૧, ૨૦૬૪ પૈકી ૧, ૨૦૬૫ પૈકી ૧, ૨૦૬૬ પૈકી ૧, ૨૦૬૭ પૈકી ૧, ૨૦૬૮ પૈકી ૧, ૨૦૬૯ પૈકી ૧, ૨૦૭૦ પૈકી ૧, ૨૦૭૧ પૈકી ૧, ૨૦૭૨ પૈકી ૧, ૨૦૭૩ પૈકી ૧, ૨૦૭૪ પૈકી ૧, ૨૦૭૫ પૈકી ૧, ૨૦૭૬ પૈકી ૧, ૨૦૭૭ પૈકી ૧, ૨૦૭૮ પૈકી ૧, ૨૦૭૯ પૈકી ૧, ૨૦૮૦ પૈકી ૧, ૨૦૮૧ પૈકી ૧, ૨૦૮૨ પૈકી ૧, ૨૦૮૩ પૈકી ૧, ૨૦૮૪ પૈકી ૧, ૨૦૮૫ પૈકી ૧, ૨૦૮૬ પૈકી ૧, ૨૦૮૭ પૈકી ૧, ૨૦૮૮ પૈકી ૧, ૨૦૮૯ પૈકી ૧, ૨૦૯૦ પૈકી ૧, ૨૦૯૧ પૈકી ૧, ૨૦૯૨ પૈકી ૧, ૨૦૯૩ પૈકી ૧, ૨૦૯૪ પૈકી ૧, ૨૦૯૫ પૈકી ૧, ૨૦૯૬ પૈકી ૧, ૨૦૯૭ પૈકી ૧, ૨૦૯૮ પૈકી ૧, ૨૦૯૯ પૈકી ૧, ૨૧૦૦ પૈકી ૧, ૨૧૦૧ પૈકી ૧, ૨૧૦૨ પૈકી ૧, ૨૧૦૩ પૈકી ૧, ૨૧૦૪ પૈકી ૧, ૨૧૦૫ પૈકી ૧, ૨૧૦૬ પૈકી ૧, ૨૧૦૭ પૈકી ૧, ૨૧૦૮ પૈકી 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૧, ૨૭૨૫ પૈકી ૧, ૨૭૨૬ પૈકી ૧

ફ્લાઈંગ રાણી, વલસાડ-વડોદરા, વિરાર-ભરુચ ટ્રેન હવે ઉધના ઊભી રહેશે

ઉધના રેલવે સ્ટેશનનું પ્લેટફોર્મ નંબર એક મુસાફરો માટે ખૂલ્લું મૂકી દેવાયું

આગામી દિવસમાં પ્લેટફોર્મ નંબર ચાર અને પાંચ કામગીરી માટે બંધ કરાશે

| સુરત |

ઉધના રેલવે સ્ટેશન પર રીડેવલપમેન્ટની કામગીરી વચ્ચે વીતેલા ૧૨૦ દિવસથી બંધ પ્લેટફોર્મ નંબર એક મુસાફરો માટે ખૂલ્લું મૂકી દેવામાં આવ્યું છે. આ સાથે જ ત્રીજા સપ્ટેમ્બરથી ફ્લાઈંગ રાણી, વલસાડ-વડોદરા એક્સપ્રેસ, વિરાર-ભરુચ એક્સપ્રેસ સહિતની ટ્રેનો ઉધના સ્ટેશને થોભશે. અલગ અલગ ૮ ટ્રેનોને કારીથી ઉધના સ્ટેશને સ્ટોપેજ આપી દેવાયું છે. બીજી તરફ પ્લેટફોર્મ નંબર ૬ની ઊંચાઈ વધારવાનું કામ ચાલી રહ્યું છે. આ કામગીરી પૂર્ણ થયા બાદ પ્લેટફોર્મ નંબર ચાર અને પાંચ પર રીડેવલપમેન્ટની કામગીરી કરવા બંધ કરાશે.

ઉધના રેલવે સ્ટેશનના પ્લેટફોર્મ નંબર એક પર કોનકોર્સ એરિયાની કામગીરીને પગલે ચાર મહિના પહેલા મુસાફરોની અવર-જવર બંધ કરી દેવામાં આવી હતી. ત્યારબાદ પુલના પોરસે કામગીરી આરંભી દેવામાં આવી હતી. ડરમિયાન ત્રીજા સપ્ટેમ્બરથી આ તમામ ટ્રેનો ઉધના રેલવે સ્ટેશન પર થોભશે.

આ સાથે જ ઉધના રેલવે સ્ટેશન પર પ્લેટફોર્મ નંબર છની ઊંચાઈ વધારવાની કામગીરી પૂરજોશમાં ચાલી રહી છે. સંભવત દિવાળી પહેલા પ્લેટફોર્મ નંબર છની કામગીરી પૂર્ણ કરી કાર્યરત કરી દેવાશે. દિવાળી સ્પેશિયલ ટ્રેનો સંભવત આ પ્લેટફોર્મ પરથી જ દોડાવાશે. હવે પ્લેટફોર્મ નંબર છની કામગીરી પૂર્ણ થયા બાદ ઉધનાનું પ્લેટફોર્મ નંબર ચાર અને પાંચ મુસાફરોની અવર-જવર માટે બંધ કરાશે. અહીંયા કોનકોર્સની કામગીરી શરૂ કરાશે.

ઓનલાઈન પાર્ટટાઈમ જોબની લાયમાં મહિલા વકીલે ૧૬.૯૦ લાખ ગુમાવ્યા

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પાર્ટટાઈમ જોબની લાલચમાં અમરોલી છાપરાભાઠાની મહિલા વકીલે ૧૬.૯૦ લાખ ગુમાવવાનો વારો આવ્યો છે. ઘરે બેઠા ગુગલમાં રિવ્યુ ટાસ્ક પુરા કરવાના નામે ૧૬.૯૦ લાખ રૂપિયા ગઠિયાઓએ પધાવી પાડ્યા હતા.

ગૂગલ રિવ્યૂના ટાસ્કમાં સારા નફાની લાલચ આપી નાણાં પડાવ્યા

સાઈબર ક્રાઈમ પોલીસ પાસેથી મળતી માહિતી પ્રમુખ અમરોલીમાં છાપરાભાઠા ખાતે રહેતી પરિણીતા વકીલાતનું કામ કરે છે. ગત ૭ મેના રોજ પરિણીતાને અજાણ્યા ગ્રુપમાં એડ કરવામાં આવી હતી. જેમાં ગુગલમાં રિવ્યુ આપી અનેક ઓર્ડર કરી દેવાશે. ત્યારબાદ ટેલિગ્રામ ચેનલમાં જોઈન કરાવી ટાસ્ક આપવામાં આવ્યા હતા. જે પૈકી ૩૦૦૦ રૂપિયા ગણે ચુકવી આપ્યા હતા. જેથી પરિણીતાને વિશ્વાસ બેસતા તેમણે ટાસ્ક પૂરા કરવા શરૂ કર્યા હતા. જેમાં પરિણીતાએ ૧૬.૮૪ લાખ રૂપિયા પરત આપ્યા ન હતા. આખરે પરિણીતાને છેતરપિંડીનો અહેસાસ થતાં સાઈબર ક્રાઈમ પોલીસ સ્ટેશનમાં ફરિયાદ નોંધવી હતી. પોલીસે અજાણ્યા સામે વિરુદ્ધ છેતરપિંડીનો ગુનો નોંધી વધુ તપાસ હાથ ધરી છે.

ફેમિલી ગ્રૂપમાં મેસેજ કરીને કતારગામમાં આધેડે ફાંસો ખાઈને આપઘાત કરી લીધો

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કતારગામ વજેરા સર્કલ પાસે રહેતા ૫૦ વર્ષિય આધેડ ફાંસો ખાઈ જીવન ટુંકાવ્યું હતું. કેમેરી ચુપમાં "આઈ એમ સોરી, આઈ એમ ફ્રસ્ટ્રેટ" લખ્યા બાદ પગલું ભરી લીધું હતું. આખિર તંગીને લઈ અંતિમ પગલું ભર્યું હોવાની શક્યતા સેવાઈ રહી છે.

પત્ની ઘર નજીક ગાર્ડનમાં મોર્નિંગ વોક માટે ગઈ અને આધેડે જીવન લીલા સંકેલી લીધી

પ્રાપ્ત માહિતી મુજબ મુળ અમરેલીના વતની અને હાલ કતારગામ વિસ્તારમાં ગજેરા સર્કલ પાસે આવેલ આલીશાનનગરમાં રહેતા ૫૦ વર્ષિય જયસુખભાઈ કાળુભાઈ માલવીયા એમ્બ્રોઈડરી મશીન ચલાવી પત્નિ અને બે સંતાન સહિતના પરીવાર સુ ગુજરાન ચલાવતા હતા. તેમના બંને સંતાન લાઈ ડિગ્રીમાં છે. જયસુખભાઈ તેમની પત્નિ સાથે રહેતા હતા. ડરમિયાન મંગળવારે વહેલી સવારે જયસુખભાઈએ કેમેરી ચુપમાં "આઈ એમ સોરી, આઈ એમ ફ્રસ્ટ્રેટ"નો મેસેજ લખ્યો હતો, જોકે બાદ ઘરે પંખા સાથે દુપટ્ટો બાંધી ફાંસો ખાઈ લીધો હતો. પત્નિ વહેલી સવારે ૬૨ નંબરી આવેલ લેક ગાર્ડનમાં મોર્નિંગ વોક માટે ગઈ હતી. કેમેરિ ચુપમાં લેખેલો મેસેજ પરીવાર જનોને જોતા જયસુખભાઈની પત્નિને જાણ કરી હતી. જેથી પત્નિ ઘરે જતા જયસુખભાઈ ફાંસો ખાધેલી હાલતમાં માલી આવ્યા હતા. સ્થાનિક કતારગામ પોલીસને જાણ કરી હતી. પોલીસની ટીમ સ્થળ પર પહોંચી કાર્યવાહી શરૂ કરી હતી. મૃતક પાસેથી સુસાઈડ નોટ પણ મળી હતી, જેમાં તેમણે "આઈ એમ સોરી" સહિતનું પરીવારને સંબોધીને લખ્યું હતું. હાલતો કોઈ સ્પષ્ટ કારણ સામે નથી આવ્યું, પરંતુ આર્થિક તંગીને પગલે જીવન ટુંકાવ્યાની શક્યતા સેવાઈ રહી છે.

કાપડના યુવાન વેપારીએ ચાર માસ અગાઉ પ્રેમલગ્ન કર્યા હતા

અમરોલીમાં પ્રેમલગ્ન કરીને સાસરે રહેતી યુવતીનું તેના વાલીઓએ અપહરણ કર્યુ

યુવતીના વાલીઓ મકાનને તાળા અને મોબાઈલ ફોન બંધ કરીને ફરાર

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અમરોલી - કોસાડ રોડ ઉપર રહેતા કાપડના યુવાન વેપારીએ ચાર માસ અગાઉ સૌરાષ્ટ્રની યુવતી સાથે કોર્ટમાં પ્રેમલગ્ન કર્યા હતા. એ પછી યુવતી સાસરે રહેતી હતી. ડરમિયાન ગઈકાલે સોમવારે સવારે યુવતીના માતાપિતા અને કાકા કાકીએ સાસરે જઈને યુવતીનો હાથ પકડીને કારમાં બેસાડીને ઉઠવી ગયા હતા. અમરોલી પોલીસે યુવતીના વાલી વિરુદ્ધ અપહરણ કરવા અંગે ગુનો નોંધીને તપાસ હાથ ધરી છે.



પોલીસના જણાવ્યા મુજબ મુળ ભાટાદ જિલ્લાના વિકળીયા ગામના વતની અને હાલ અમરોલી કોસાડ રોડ ઉપરની સાંઈકૃપા રેસીડન્સીમાં રહેતા હર્ષિલ નરેશભાઈ શીંગાળા (ઉ.૨૪) કાપડના ધંધા સાથે સંકળાયેલ છે. વેપારી હર્ષિલે ગત તા. ૧૯ એપ્રિલ ૨૦૨૫ ના રોજ પાકી નામની યુવતી સાથે કોર્ટમાં પ્રેમલગ્ન કર્યા હતા. લગ્ન કર્યા પછી બંને સાથે રહેતા હતા. ગઈકાલે તા. ૧ સપ્ટેમ્બરના રોજ પાકી પોતાના સાસરે હતી, ત્યારે સવારે ૧૦ કલાકે તેના પિતા અરવિંદ જીવરાજભાઈ વસાણી, માતા મંજીતાબેન (રહે. આસોપ રો હાઉસ,અમરોલી) ઘરે પહોંચી આવ્યા હતા. તેમજ પરકામ કરતી યાસીનો હાથ પકડીને ઘરની બહાર લઈ ગયા હતા. તેમજ પાડોશ ઉભેલી કારમાં બેસાડીને લઈ ગયા હતા. યુવતીને લઈ જતી વેળાએ સાસરીયા પક્ષના સભ્યો કે પતિ હર્ષિલ સાથે વાતચીત નહીં કરીને કારમાં લઈ જતાં તમામ ગભરાય ગયા હતા.

આ બનાવ અંગે અરવિંદ વસાણી સહિત વિરુધ્ધ અમરોલી પોલીસ મથકમાં પતિ હર્ષિલ શીંગાળાએ ફરિયાદ નોંધાવી છે. આ બનાવ બાદ પોલીસે અરવિંદ અને અશ્વિનના ઘરે જઈને તપાસ કરતાં મકાનને તાળા મારી અને મોબાઈલ ફોન બંધ કરી પલાયન થઈ ગયા હોવાનું જાણવા મળેલ છે.

દસ્તાવેજમાંથી પાના કાઢીને ખોટી સહીઓ કરી કારસો રચ્યો હતો

ફાડચાની જમીનનું આઈટી એનઓસી નહીં આપીને દસ્તાવેજ સાથે છેડછાડ

કંપની હસ્તક કરનારે રજીસ્ટારમાંથી જમીનનો દસ્તાવેજ છોડાવવા જતાં હકીકત બહાર આવી

| સુરત |

કડચામાં ગયેલી જમીનના મુળ માલિકોએ જમીનને પાર્ટનર લીમીટેડ કંપનીને હસ્તગત કરી દીધા બાદ આઈટીનું એનઓસી આપ્યું જ ન હતું. કરોડોની જમીનમાં ફાલ્સ બનાવીને મુળ માલિકોએ દસ્તાવેજમાંથી મહત્વના પાનાઓ કાઢી લઈ સિવિલ દાવા કરવા ખોટી સહિઓ કરી હતી. કંપની દ્વારા દસ્તાવેજ છોડાવવા જતા આ સમય કૌભાંડ બહાર આવ્યું હતું અને દસ્તાવેજ સાથે છેડછાડ કરનાર ઇસમો સામે ગુનો નોંધાયો છે.

જમીન કૌભાંડમાં સંડોવાયેલાઓના નામ

જયંતિલાલ નગીનભાઇ પટેલ રહે. પટેલ ફળિયુ, કતારગામ, દોલતભાઇ નગીનભાઇ પટેલ રહે, પટેલ ફળિયુ કતારગામ, દિલીપ ગભનભાઇ પટેલ રહે, સહયોગ સોસાયટી, સુમુલ ડેરી રોડ, મહેન્દ્ર છોટુભાઇ પટેલ રહે. સહયોગ સોસાયટી, સુમુલ ડેરી રોડ, બિનોદ જયંતિભાઇ પટેલ રહે, પટેલ ફળિયુ કતારગામ, નિતાબેન બિનોદભાઇ પટેલ રહે. પટેલ ફળિયુ, કતારગામ , કર્ણવ બિનોદભાઇ પટેલ, દિપક જયંતિભાઇ પટેલ, તલ્લીબેન દોલતભાઇ પટેલ, જનક દોલતભાઇ પટેલ, મંજય દોલતભાઇ પટેલ તમામ. રહે પટેલ ફળિયુ, કતારગામ.

કચેરીમાં જ પેન્ડીંગ પડ્યો હતો. ત્યારબાદ સને-૧૯૮૦માં ટીપી સ્કીમ અમલમાં આવતા જમીન બેચનારને નોટીસ ફટકારાઈ હતી. જમીનના માલિકો અને વારસદારોની ઢાલ બનાવી હોવાથી તેઓએ સરકારી કચેરીના રેકર્ડમાં પેન્ડીંગ કામે કરી હતી. જેમાં જયસુખભાઈની પત્નિને જાણ કરી હતી. જેથી પત્નિ પરે જતા જયસુખભાઈ ફાંસો ખાધેલી હાલતમાં માલી આવ્યા હતા. સ્થાનિક કતારગામ પોલીસને જાણ કરી હતી. પોલીસની ટીમ સ્થળ પર પહોંચી કાર્યવાહી શરૂ કરી હતી. મૃતક પાસેથી સુસાઈડ નોટ પણ મળી હતી, જેમાં તેમણે "આઈ એમ સોરી" સહિતનું પરીવારને સંબોધીને લખ્યું હતું. હાલતો કોઈ સ્પષ્ટ કારણ સામે નથી આવ્યું, પરંતુ આર્થિક તંગીને પગલે જીવન ટુંકાવ્યાની શક્યતા સેવાઈ રહી છે.



કડચામાં ગયેલી જમીનના મુળ માલિકોએ જમીનને પાર્ટનર લીમીટેડ કંપનીને હસ્તગત કરી દીધા બાદ આઈટીનું એનઓસી આપ્યું જ ન હતું. કરોડોની જમીનમાં ફાલ્સ બનાવીને મુળ માલિકોએ દસ્તાવેજમાંથી મહત્વના પાનાઓ કાઢી લઈ સિવિલ દાવા કરવા ખોટી સહિઓ કરી હતી. કંપની દ્વારા દસ્તાવેજ છોડાવવા જતા આ સમય કૌભાંડ બહાર આવ્યું હતું અને દસ્તાવેજ સાથે છેડછાડ કરનાર ઇસમો સામે ગુનો નોંધાયો છે.

અડવા પોલીસના જણાવ્યા પ્રમાણે કતારગામમાં આવેલી રેવન્યુ સર્વે નં. ૩૧૪ વાળી જમીનનો બનાવટી જેન્ટે સમયે જમીનના માલિકો જયંતીભાઇ નગીનભાઇ પટેલ, રમન નગીન પટેલ, દીપક નગીન પટેલે તેમજ છોટુ નગીન પટેલે દિવ્યા વસુંદરા ફાઈનાન્સર પા.લી. કંપનીને કરી આપ્યો હતો. કંપનીને જરૂરી પરવાનગી આપી દસ્તાવેજ કરવાનો સમય આવ્યો ત્યારે જમીનના માલિકોએ ઈન્કપટેશનું એનઓસી રજૂ ન કરાતાં દસ્તાવેજ છોડાવવાનો રહી ગયો હતો. આ દસ્તાવેજ કતારગામ સબરજીસ્ટાર કચેરીમાં જ પેન્ડીંગ પડ્યો હતો. ત્યારબાદ સને-૧૯૮૦માં ટીપી સ્કીમ અમલમાં આવતા જમીન બેચનારને નોટીસ ફટકારાઈ હતી. જમીનના માલિકો અને વારસદારોની ઢાલ બનાવી હોવાથી તેઓએ સરકારી કચેરીના રેકર્ડમાં પેન્ડીંગ કામે કરી હતી. જેમાં જયસુખભાઈની પત્નિને જાણ કરી હતી. જેથી પત્નિ પરે જતા જયસુખભાઈ ફાંસો ખાધેલી હાલતમાં માલી આવ્યા હતા. સ્થાનિક કતારગામ પોલીસને જાણ કરી હતી. પોલીસની ટીમ સ્થળ પર પહોંચી કાર્યવાહી શરૂ કરી હતી. મૃતક પાસેથી સુસાઈડ નોટ પણ મળી હતી, જેમાં તેમણે "આઈ એમ સોરી" સહિતનું પરીવારને સંબોધીને લખ્યું હતું. હાલતો કોઈ સ્પષ્ટ કારણ સામે નથી આવ્યું, પરંતુ આર્થિક તંગીને પગલે જીવન ટુંકાવ્યાની શક્યતા સેવાઈ રહી છે.

પીપલોદમાં સ્પાની આડમાં ધમધમતું કુટણખાનું ઝડપાયું

| સુરત |

પીપલોદ વિસ્તારમાં આવેલ નંદનવન સોસાયટીમાં પહેલા માળે કોમ્પ્લેક્સ સ્ક્રીનવેર અન્ડ નામે સ્પાની આડસમાં બહારથી યુવતીઓને બોલાવીને દેહવ્યાપારનો ધંધો ચાલી રહ્યો હતો. જેના પગલે ઉમરા પોલીસે સ્પામાં છાપો મારીને પાંચ કોક્રગર્લને પકડી પાડીને રૂ.૨૪૦૦ અને સ્પા સંચાલક કમલે કરીને મહિલા સંચાલિકા સોનલની પરપકડ કરી હતી. પોલીસે કબી સાધક બોકલીને કુટણખાનાનું પકડી પાડ્યુ હતુ.

ઉમરા પોલીસના જણાવ્યા મુજબ પીપલોદ સ્થિત નંદનવન સોસાયટીમાં પ્લોટના પહેલા માળે કોમ્પ્લેક્સ સ્ક્રીનવેર એન્ડ ની દુકાનમાં સ્પાની આડસમાં કુટણખાનું ચાલી રહ્યુ હોવાની બાતમી ઉમરા સર્વેલન્સ સ્ટાફને મળી હતી. ડરમિયાન પોલીસે બહારથી યુવતીઓને બોલાવીને ગ્રાહકો પાસેથી ૧૫૦૦ થી ૫૦૦૦ સુધીની રકમ વસુલાત કરીને દેહવેપાર કરવામાં આવી હોવાના પગલે સ્પામાં ગત રોજ છાપો માર્યો હતો. તેમજ સ્પાની સંચાલિકા સોનલ મંતોષભાઈ યાદ (ઉ.૪૩) રહે. કેવડીયાધામ, વિજયપોર, નવસારી-ની પરપકડ કરીને સ્પાની આડસમાં કામ કરતી પાંચ કોક્રગર્લને રીટેઈન કરી હતી. તેમજ પોલીસે રોકડા રૂ.૨૪૦૦ અને સાત નંગ કોન્ડોમ કબજે કર્યા હતા.

રત્નકલાકારોને પોલીસનો દમ મારી લૂંટી લેનાર બે રીક્ષા ચાલકો પકડાયા

રૂપિયા ૩૯૦૦ લૂંટી લેનાર બે પૈકી રાજ નામનો આરોપી અગાઉ ચોરી અને પોક્સોમાં સંડોવાયો

| સુરત |

અમરોલી વિસ્તારમાં આવેલ તાડવાડી પાસે બે રીક્ષા ચાલકો પોતે પોલીસ સ્ટાફ હોવાનો રોફ જતાવીને બે રત્નકલાકારોને લેક ગાર્ડન પાસે ઉઠવી ગયા હતા. જ્યાં માર મારીને રોકડા રૂ.૩૯૦૦ લૂંટી લઈને આ વાત કોઈને કહેશો તો અન્ય કેસમાં ફીટ કરી દેવાની ધમકી આપીને ભાગી છુટ્યા હતા. જો કે અમરોલી પોલીસે લૂંટ કરનાર બંનેને પકડી લઈને વધુ તપાસ હાથ ધરી છે.

અમરોલી પોલીસના જણાવ્યા મુજબ તાડવાડી પાસેની ટાંકી પાસે ગુલનિર્માણ ઓર્ડમાં રહેતા અજય ઈન્દ્રજીત જયસ્વાલ અને તેનો મિત્ર રાહુલ બંને સિરાના કારખાનામાં રત્નકલાકાર તરીકે કામ કરે છે. ગત તા. ૩૦ ઓગષ્ટના રોજ રાત્રે ૧૦ કલાકે બંને મિત્રો પાણીની ટાંકી પાસે ઉભા હતા. જ્યાં એક રીક્ષા પસી આવી હતી. જેમાં રીક્ષામાંથી ઉતરેલા યુવાને પોતે પોલીસ અને સર્વેલન્સ સ્ટાફ હોવાનો દમ માર્યો હતો. તેમજ અજય અને રાહુલ બંનેને રીક્ષામાં બેસાડીને લેક ગાર્ડન તરફ લઈ જઈને અજાણ્યા માણમાં હાથમાં ફોરવાનું કડું મારીને ખીસ્સામાંથી રૂ.૨૫૦૦ અને રાહુલના ખીસ્સામાં રહેલા રૂ.૧૯૦૦ એમ કુલ ૩૯૦૦-ની લૂંટ કરી હતી. પોલીસ સ્ટાફમાં રહેલા બંનેએ આ વાતની કોઈને વાત કરવી નહીં, અન્યથા બીજા કેસમાં ફીટ કરવાની ધમકી આપીને કરાર થઈ ગયા હતા. આ બનાવ બાદ રત્નકલાકાર અજય જયસ્વાલે અમરોલી પોલીસ મથકમાં ફરિયાદ નોંધવી હતી. અમરોલી પોલીસ મથકના પીએઆઈ જે.બી.ચન્નારે પોલીસના નામે લૂંટના બનાવ અંગે તાત્કાલિક તપાસ હાથ ધરીને અમરોલીમાં રહેતા બે રીક્ષા ચાલક રાજ ઉર્ફે રાજેશ દિનેશભાઈ રાઠોડ અને સંજય જયસ્વાલને પકડી પાડ્યા હતા. રાજ રાઠોડ અગાઉ વરાછામાં ચોરીમાં અને અમરોલીમાં પોક્સોના ગુનામાં પકડાયેલ હોવાનું પોલીસે વધુમાં જણાવ્યુ હતુ.

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Surat Bhagar, Nr. Gujarat Gas Office, Umarwada Road, Amleshwar- 393 001,Dt. Bharuch (Guj.), E-mail: info@nclc.co.in, CIN : U40101GJ2000NPL037236 TEL NOS.: 6489745285, 9227576221
PRE-QUALIFICATION OF VENDORS
Narmada Clean Tech invites expressions of interest from vendors for pre-qualification of 250 KVA 3-phase online UPS (2 Nos), including 10 minutes battery backup set, cabling and required accessories with design, supply, installation, commissioning at FETP Final Pump House Premises with 1 Year AMC.
Please refer company website (www.nctc.co.in) for pre-qualification criteria and procedures.
Interested vendors may complete the same within the required time frame i.e. by 09 or before 04.30 PM, 9th Sept 2025
નિર્માતાની પૂર્ણ જાહેરાત
નર્મદા ક્લીન ટેક એમ્બ્રોઈડરી-એસ્સેન્શ્યલ કારખાના ખાતે કાર્યરત માટે 250 KVA, 3 ફેસ ઓનલાઈન UPS (દસ-૨ નંગ) ૧૦ મીનીટ બેકઅપ પાવર માટે ડીઝાઈન,સપ્લાય,ઈન્સ્ટોલેશન અને કમીશનીંગ(૧ વર્ષ કોન્ટ્રેક્ટ સહીત) માટે પૂર્ણ લાયકાત ધરાવતા નિર્માતાઓને આમંત્રણ પાઠવી છે. પૂર્ણ થયી લાયકાત ધરાવતા નિર્માતાઓએ નોંધણીની પ્રક્રિયા માટે કંપનીની વેબસાઈટ www.nctc.co.in પરથી માહિતી મેળવી લેવી. ઉક્ત લાયકાત નિર્માતાઓએ તા.૦૯/૦૯/૨૦૨૫ના રોજ સાંજ સાડા૪ વાગ્યા સુધીમાં પહોંચી જવી.

જાહેર લિવિદા નં.૭ સને ૨૦૨૫-૨૬
ગુજરાત સરકારના રાજ્યપાલ વતી કાર્યપાલક ઇજનેરશ્રી, ઉકાઈ ડાબા કાંઠા નહેર સંશોધન વિભાગ નં.૨ પાલોડ તા.પાલોડ જી.તાપી.પીન કોડ નં.૩૯૪૬૫૦ ફોન નં.૦૨૬૨૫-૨૨૨૦૫૨ ઘ્વારા કુલ ૧ (એક) કામ માટે જેની અંદાજીત રકમ રૂ.૧.૨૬ લાખ છે. ગુજરાત સરકારના ન.જ.ખા.પુ. અને કચ્છર વિભાગ/ મારી સાને મકાન વિભાગમાં સોધ્ય કક્ષાનાં નોંધણી ધરાવનાર માન્ય ઠાકેદારો પાસેથી ઓન લાઇન ટેન્ડરો મંગાવવામાં આવે છે. જેના ટેન્ડરો www.tender.nprocure.com ઉપરથી ખાલી સાને સદર પેજ સાદર ઉપર ઓન લાઇન ભરવાના રહેશે. પ્રમુખ ટેન્ડર પેજ સાદર ઉપરથી ઓનલાઇન તા.૩-૦૯-૨૦૨૫ થી તા.૧૭-૦૯-૨૦૨૫નાં રોજ ૧૮.૦૦ કલાક સુધી ઓન લાઇન ભરવામાં રહેશે. તેમજ વિકત કામના ટેન્ડરના પાર્ટ ઓક તા.૧૮-૦૯-૨૦૨૫ના રોજ ૧૨.૦૦ કલાકે ઓન લાઇન ખોલવામાં આવશે.
૧. સદર કામ અંગે વધુ વિગતો ઉપરોકત પેજ સાદર પર અથવા કાર્યપાલક ઇજનેરશ્રી, ઉકાઈ ડાબા કાંઠા નહેર સંશોધન વિભાગ નં.૨ પાલોડ તા.પાલોડ જી.તાપી.પીન કોડ નં.૩૯૪૬૫૦ ફોન નં. ૦૨૬૨૫-૨૨૨૦૫૨ ની સંપર્ક કરવા જણાવવામાં આવે છે.
૨. નોંધ:- સદર કામની લિવિદા અંગેનો સુધારા/વધારા ફક્ત ઉકત ઓનલાઇન પેજસાઇટ પર પ્રસિધ્ધ કરવામાં આવશે.
ક્રમાંક : માહિતી-સુરત/૫૫૨/૨૦૨૫

"ઘ"-ટેન્ડરીંગ લિવિદા નં.- ૦૯ સને: ૨૦૨૫ - ૨૬
ગુજરાત રાજ્યનાં રાજ્યપાલ વતી નીચે દર્શાવેલ મુજબના કામ માટે કાર્યપાલક ઇજનેરશ્રી, ડાંગ (મા.મ.) વિભાગ, આહવા મેઈન રોડ ફોન નં. (૦૨૬૩૧) ૨૨૦૨૨૮ દ્વારા ઈ-ટેન્ડરીંગ પધ્ધતીથી ટેન્ડરો મંગાવવામાં આવે છે.

ક્રમ નં.	કામનું નામ	અંદાજીત રકમ ટેન્ડર - ફી / બેંયાના
૧	કમ્પાઉન્ડવોલ ઓફ કલેકટર બંગલો એટ આહવા, તા.આહવા, જી.ડાંગ (પ્રીબાયડીંગ કમ્પાઉન્ડ વોલ એન્ડ રીટેનીંગ વોલ)	રૂા. ૩૭.૬૨ લાખ રૂા. ૨૪૦૦/- "ડી" ક્લાસ અને ઉપરના

જે ટેન્ડરના દસ્તાવેજો વેબસાઈટ "www.tender.nprocure.com" ઉપર તા.૧૫/૦૯/૨૦૨૫, ૧૮.૦૦ કલાક સુધી જોવા મળી શકશે. સદર ટેન્ડરને લગત કોઈપણ સુધારો (ન) procure ના માધ્યમથી ફક્ત Online મુકવામાં આવશે. ફક્ત નિવિદા રાજ્ય સરકારની વેબસાઈટ www.stattenders.com ઉપર જોવા મળી શકશે.
વધારાની વિગતો માટે અમારી ઉપર દર્શાવેલ વેબસાઈટ જોવા વિનંતી છે.
ક્રમાંક : માહિતી/ડાંગ/૧૦૬/૨૦૨૬

ગુજરાત રાજ્ય પોલીસ આવાસ નિગમ લિ., સુરત
જાહેર નિવિદા નં. ૦૯ (૨૦૨૫-૨૬)
ગુજરાત રાજ્ય પોલીસ આવાસ નિગમ લિમિટેડ; સુરત જિલ્લાનાં કર્મચારી ૩૬, નર્મદ નગર સોસાયટી, જિલ્લા સેવા સદન-૨ ની સામે, ઉધનારોડ ઉપર આવેલ ઠાકોરની બાજુની ગલીમાં, સાર્વજનિક બોયેજ હોસ્પેટલ સામે, અડાજણ(પ્લેન્સ, સુરત. (ફોન નં. ૦૨૬૧-૨૬૬૭૮૩) દ્વારા બાજ ઉપલબ્ધ ઠાકોરો પાસેથી જુદા જુદા કામો માટેના ટેન્ડરો મંગાવવાનું નક્કી કરેલ છે. આ કામેની વિગતવાર જાહેર નિવિદા કચેરીના નોટિસ બોર્ડ ઉપરાંત નિગમની વેબસાઈટ http://gsphc.gujarat.gov.in તથા https://gsphctender.nprocure.com તથા રાજ્ય સરકારશ્રીની માહિતી ખાતાની વેબસાઈટ www.statetenders.gujarat.gov.in પર જોવા મળશે. આ કામો અંગેની વધુ વિગતો કામકાજના દિવસો દરમિયાન ઉપરોકત ઠેકાણેનો તથા ઓફી ૦૪૬૧ની (ફોન નં. ૦૩૮-૨૩૨૫૬૮૦૦ થી ૨૩૩૫૬૮૦૩) ઓફર સાધવાથી મળી શકશે. સદર કામો માટે ટેન્ડર ડાઉનલોડીંગ અને ઓન-લાઈન ચાલુ થયાથી અને ટેન્ડર પરત સ્વીકારવાની તારીખ નીચે મુજબ છે.

ક્રમ	ટેન્ડર ઓનલાઈન ઉપલબ્ધ થવાની તારીખ	ટેન્ડર ઓનલાઈન સબમીટ કરવાની ઉેલ્લી તારીખ અને સમય	ટેન્ડર ફી, બાનાની રકમ અને એકકોડેબોલ ઓનલાઈન ફીસીટલમાં જમા કરવાની ઉેલ્લી તારીખ
૧ થી ૨	૦૩-૦૯-૨૦૨૫	૧૬-૦૯-૨૦૨૫ ૧૮:૦૦ કલાક	૨૩-૦૯-૨૦૨૫ ૧૪:૦૦ કલાક

સહી/- કાર્યપાલક ઇજનેર
ગુજરાત રાજ્ય પોલીસ આવાસ નિગમ લિ., સુરત
ક્રમાંક : માહિતી-સુરત/૭૪૮/૨૦૨૫

GUJARAT INDUSTRIES POWER CO. LTD.
TENDER FOR BIENNIAL RATE CONTRACT FOR COMPLETE ELECTRICAL SYSTEM AT SURAT LIGNITE POWER PLANT (SLPP) INCLUDING 5MW&1MW SOLAR PLANT FOR THE YEAR 2025-27
Interested Vendors may submit their Bids on two-part basis through (a) Procure (Tender ID is 220327). It can also be viewed from Company's website www.gipcl.com. The last date of submission of bid is 23/09/2025 up to 17:30 hrs.
ADDITIONAL GENERAL MANAGER (O&M) SLPP

ગુજરાત નેશનલ લો યુનિવર્સિટી, ગાંધીનગર
કોલ, ગાંધીનગર-૩૮૨૦૨૬, ગુજરાત
Email : gnluphd@gnlu.ac.in, Website : www.gnlu.ac.in
Phone : ૦૭૯-૨૩૨૦૭૬૬૬/૬૪
જાહેરાત સંદર્ભ નંબર : GNLU/Ph.D./2025/01
ડોક્ટર ઓફ ફિલોસોફી (પી.એચ.ડી.)માં પ્રવેશની સૂચના: શૈક્ષણિક વર્ષ ૨૦૨૫ માટે કાયદા અને સંબંધિત વિષયો (ઈન્ટરડિસિપ્લિનરી) માં પીએચ.ડી. પ્રોગ્રામમાં પ્રવેશ માટે લાયક ઉમેદવારો પાસેથી અરજીઓ મંગાવવામાં આવે છે. વધુ માહિતી માટે, કૃપા કરીને મુલાકાત લો.
https://www.gnlu.ac.in/GNLU/Ph.D.Programme
Registrar

ગુજરાત ઇન્ડસ્ટ્રીઝ પાવર કંપની લિમિટેડ
પી.એસ. કોલોની, વાંકોલ - ૩૯૪૧૫૫.
ઈમેલ એડ્રેસ: (૦૨૬૨૪) ૨૭૩૨૪૬૮ / ૨૭૩૨૪૮૨, વેબ : www.gipcl.com
જાહેર ટેન્ડર
ગુજરાત ઇન્ડસ્ટ્રીઝ પાવર કંપની લિમિટેડ (જી.આઈ.પી.સી.એલ.) દ્વારા વાંકોલિ ખાતે આવેલ ગુજરાત લિગ્નાઈટ કોર્પોરેશન લિમિટેડ (જી.એલ.સી.) ની માલિકીના સુરત લિગ્નાઈટ પાવર પ્લાન્ટ (SLPP) ખાતેના...
૧. ઓછા કેમેરા સ્પષ્ટતાવાળા ફુલ્લ વિકાસ પામ્યા ના ૨૩ વર્ષ જેમાં ઓટોમેટિક ગુનિવાળા ફિલ્મો, ઓટોમેટિકવાળા કેમેરા અદ્યતન ટેકનોલોજી સાથે જે ઓછા પ્રકાશમાં પણ સારી ગુણવત્તા ધરાવતા હોય, તેમજ મહિલા કેદીઓ માટે અલગ બેરેક અને બાળકો માટે ક્રેચ વગેરે સુવિધાઓ ધરાવતા હોય.
૨. ઓછા કેમેરા સ્પષ્ટતાવાળા: ફુલ્લ વિકાસ પામ્યા ના ૨૩ વર્ષ જેમાં ઓટોમેટિક ગુનિવાળા ફિલ્મો, ઓછા પ્રકાશમાં પણ સારી ગુણવત્તા ધરાવતા હોય તેવા કેમેરા અને મહિલા કેદીઓ માટે અલગ બેરેક અને બાળકો માટે ક્રેચ વગેરે સુવિધાઓ ધરાવતા હોય.
૩. ઓછા કેમેરા સ્પષ્ટતાવાળા: ફુલ્લ વિકાસ પામ્યા ના ૨૩ વર્ષ જેમાં ઓટોમેટિક ગુનિવાળા ફિલ્મો, ઓછા પ્રકાશમાં પણ સારી ગુણવત્તા ધરાવતા હોય તેવા કેમેરા અને મહિલા કેદીઓ માટે અલગ બેરેક અને બાળકો માટે ક્રેચ વગેરે સુવિધાઓ ધરાવતા હોય.
૪. ઓછા કેમેરા સ્પષ્ટતાવાળા: ફુલ્લ વિકાસ પામ્યા ના ૨૩ વર્ષ જેમાં ઓટોમેટિક ગુનિવાળા ફિલ્મો, ઓછા પ્રકાશમાં પણ સારી ગુણવત્તા ધરાવતા હોય તેવા કેમેરા અને મહિલા કેદીઓ માટે અલગ બેરેક અને બાળકો માટે ક્રેચ વગેરે સુવિધાઓ ધરાવતા હોય.
૫. ઓછા કેમેરા સ્પષ્ટતાવાળા: ફુલ્લ વિકાસ પામ્યા ના ૨૩ વર્ષ જેમાં ઓટોમેટિક ગુનિવાળા ફિલ્મો, ઓછા પ્રકાશમાં પણ સારી ગુણવત્તા ધરાવતા હોય તેવા કેમેરા અને મહિલા કેદીઓ માટે અલગ બેરેક અને બાળકો માટે ક્રેચ વગેરે સુવિધાઓ ધરાવતા હોય.
૬. ઓછા કેમેરા સ્પષ્ટતાવાળા: ફુલ્લ વિકાસ પામ્યા ના ૨૩ વર્ષ જેમાં ઓટોમેટિક ગુનિવાળા ફિલ્મો, ઓછા પ્રકાશમાં પણ સારી