



**Gujarat Industries Power Company Limited (GIPCL)**

**Surat Lignite Power Plant (SLPP)**

**At & Post: Nani Naroli, Taluka: Mangrol, District: Surat - 394 110  
(Gujarat)**

**Phone Nos.: EPABX (02629) 261063 to 261072,**

**Fax Nos.: (02629) 261112, 261080**

**Tender Document for:**

**Biennial Rate Contract (BRC) for Repair / Replacement /  
Strengthening of ESP casings & hoppers and structure /  
support / duct assemblies of flue gas ducts (FGD) including  
ESP maintenance for proper and smooth compliance of  
Revised Environmental Norms at 4 x 125 MW Surat Lignite  
Power Plant.**

**Tender Ref. No.: SLPP/MECH/BMD/FGD/2026-28**

**(n)procure Tender Id: 267608**

**Contract Period: Two (2) years**

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### **NOTE:**

**All the Bidders shall study entire Tender document carefully & may carry out Plant visit before quoting & submitting their online Bid to understand scope of work and its importance.**

## NOTICE INVITING TENDER (NIT)

### TENDER NO.: SLPP/MECH/BMD/FGD/2026-28

Name of work	BRC for Repair / Replacement / Strengthening of ESP casings & hoppers and structure / support / duct assemblies of flue gas ducts (FGD) including ESP maintenance for proper and smooth compliance of Revised Environmental Norms at 4 x 125 MW Surat Lignite Power Plant. [Contract Period: Two (2) years]
Place of work	Surat Lignite Power Plant, Village: Nani Naroli, Taluka: Mangrol, Dist.: Surat- 394 110 (Gujarat).
Quantity	The successful Bidder will be awarded this Contract involving total quantities of various items as mentioned against item descriptions in BOQs.
Contract period	Contract period shall be two (2) years starting from date of Letter of Intent (LoI) / Work Order.
EMD	<b>Rs. 2,97,000/-</b> by RTGS/NEFT/Online mode of payment/Demand Draft (payable at Mosali-Surat/Nani Naroli-Surat/Surat)  <div style="text-align: center;"><u>or</u></div> Bank Guarantee in favour of GIPCL from approved Banks mentioned in this tender in subsequent clauses.
Cost of Tender Document / Tender Fee	<b>Rs. 2,950/-</b> to be submitted in form of RTGS/NEFT/online mode of payment only.
Availability of online E-Tender document	On (n)procure portal: <a href="https://tender.nprocure.com/">https://tender.nprocure.com/</a> On GIPCL's E-Tender portal: <a href="http://etender.gipcl.com/">http://etender.gipcl.com/</a> (for viewing and downloading Tender Document)
Last date of online submission of offer	<b>12-02-2026 up to 17:30 hours</b> on (n)procure portal ( <a href="https://tender.nprocure.com/">https://tender.nprocure.com/</a> )
Submission of EMD, Tender fee and other supporting documents for Technical Bid in physical form.	On or before <b>12-02-2026 up to 17:30 hours</b> at the Office of Surat Lignite Power Plant (SLPP)

#### **NOTES:**

1. Amendment / corrigendum of the Tender Document, forms, schedules, etc. may be done any time by the GIPCL during the period of publication of Tender on the website.

The Bidders are required to visit the website regularly till the last date & time of Bid submission.

2. GIPCL reserves the right to reject any or all the tenders without assigning any reason thereof.
3. The Bidders are required to quote the rate strictly as per the terms and conditions mentioned in the tender document, adhering to technical specifications as well.
4. The Bidders are required to submit their Bids online only through (n)Procure portal (<https://tender.nprocure.com/>)
5. The EMD, Tender fee & other supporting documents are to be submitted in physical form only at the following address:

**Chief General Manager (Thermal),**  
Gujarat Industries Power Company Limited,  
Surat Lignite Power Plant,  
At Village: Nani Naroli,  
Taluka: Mangrol, Dist.: Surat - 394 110, Gujarat.

**Contact Person for Tender:**

Mr. B. G. Gajjar  
AGM (BMD and TG & BoP)  
E-mail: [bggajjar@gipcl.com](mailto:bggajjar@gipcl.com)  
M: (+91) 99099 25808

## **SECTION – A**

### **INSTRUCTIONS TO BIDDERS**

#### **1. PLANT SYNOPSIS**

Gujarat Industries Power Company Limited (GIPCL) (henceforth be named Company/GIPCL), is a Premier Power Utility in the State of Gujarat with an installed capacity of more than 1550 MW comprising of various conventional and renewable projects.

GIPCL commissioned its first power project; a 145 MW gas based combined cycle power plant in 1992 at Vadodara. It expanded its capacity 165 MW Naphtha and gas based Combined Cycle Power Plant at Vadodara in 1997.

Surat Lignite Power Plant (SLPP) with four units of 125 MW capacity each is located at Village: Nani Naroli, Taluka: Mangrol, District: Surat in Gujarat. GIPCL is also operating its own captive Lignite and Lime Stone Mines close to the Power Plant. The Power Plant is based on Circulating Fluidized Bed Combustion (CFBC) technology for the Boilers, where Lignite is burnt along with Lime Stone in the Combustor of the Boiler.

GIPCL commissioned 5 MW solar power station at SLPP in 2012. Also, GIPCL has commissioned 1 MWp Distributed Solar Power Projects at two locations in Gujarat viz. at Village: Amrol, Dist.: Anand and at Village: Vastan, Taluka Mangrol, Dist.: Surat.

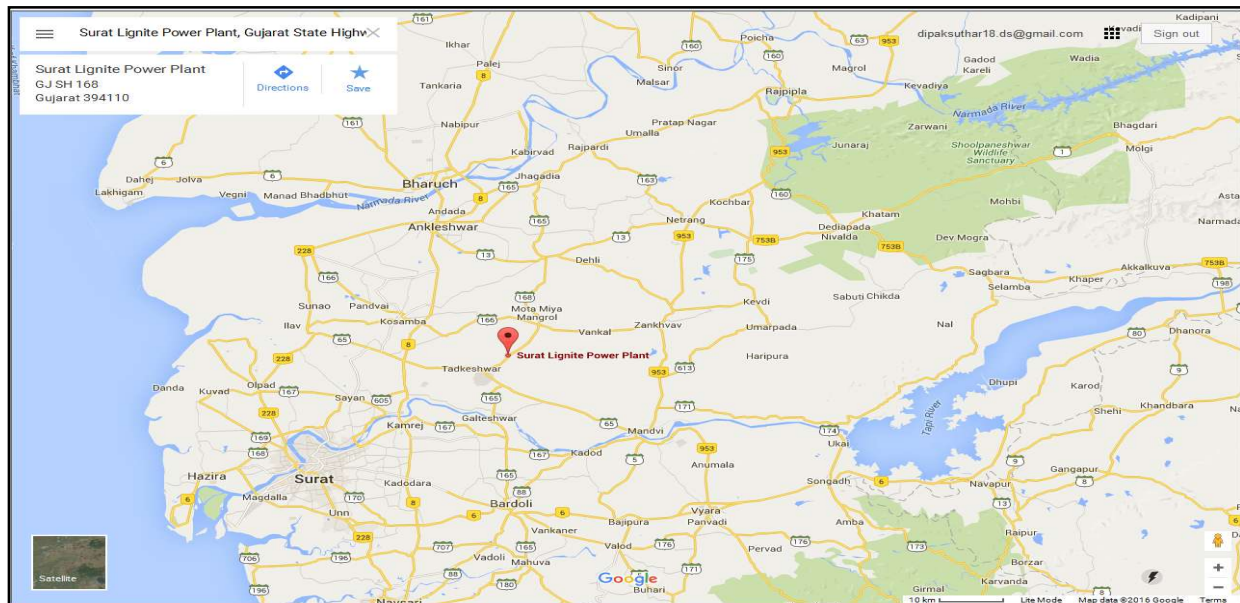
GIPCL has successfully commissioned a 2 x 40 MW Solar Project in 2017 as well as a 75 MW Solar Power Project in 2019 at Gujarat Solar Park, Village Charanka, Dist.: Patan. GIPCL has also successfully commissioned 112.4 MW wind farms at different location of Gujarat. GIPCL has commissioned the 100 MW Solar project at the Raghanesda Solar Park, Banaskantha, Gujarat.

GIPCL is developing 2375 MW Renewable Energy Park at Khavda, Dist.: Kutch.

GIPCL is implementing Solar PV Projects of 600 MW + 500 MW (i.e. 1100 MW) and 315 MW part commissioned at the Khavda RE Park. GIPCL has successfully commissioned 75 MW Group Captive Solar Power Plant at Vastan.

Surat Lignite Power Plant (SLPP) is accessible by road from Kim and Kosamba, which are on Mumbai-Ahmadabad highway. From Kosamba, SLPP is around 32 KM, out of which 27 KM is part of the National & State Highway and balance 5 KM is District Road. From Kim, SLPP is

around 18 KM, out of which 13 KM is the State Highway and balance 5 KM is District Road. The nearest Broad-Gauge Railway Line is at Kim, which is around 21 KM from the SLPP. Surat



is approximately 50 KM from the SLPP. Location Map for SLPP is as under:

The Company intends to award the Biennial Rate Contract for Repair / Replacement / Strengthening of ESP casings & hoppers and structure / support / duct assemblies of flue gas ducts (FGD) including ESP maintenance at 4 x 125 MW Surat Lignite Power Plant [Contract Period: two (2) years] and is therefore inviting e-Tenders online on (n)Procure portal (<https://tender.nprocure.com/>) from experienced & resourceful Contractors.

## 2. **BRIEF SCOPE OF WORK**

- Detailed scope of work is specified vide Clause No. 1 of Section D: Special Conditions of Contract.
- Brief scope of work is described as follows:
  - **Specifications for ESPs installed and in operation at Surat Lignite Power Plant (SLPP) are as tabulated below:**

ESP Description	Phase-I: Unit 1 & 2	Phase-II: Unit 3 & 4
<b>Make</b>	<b>BHEL</b>	<b>BHEL</b>
<b>Type of ESP</b>	2xFAA-7x45(45) -126-135-2	2xFAA-7x45(45) -132-135-2
<b>No of passes</b>	2	2
<b>Number of fields per pass</b>	Seven (7)	Eight (8)

<b>Total No. of fields</b>	14 in each unit, 28 in Phase-1	16 in each unit, 32 in Phase-2
<b>Pitch between Two Collecting Electrode</b>	300 mm (Pitch of some of the fields converted to 400 mm)	400 mm
<b>No of rows for CE</b>	<p><u>For fields having 300 mm pitch:</u> 43 rows per field, each row comprises of 6 plates</p> <p><u>For fields where pitch converted to 400 mm:</u> 32 rows per field, each row comprises of 6 plates</p>	34 rows per field, each row comprises of 6 plates
<b>No of rows for EE</b>	<p><u>For fields having 300 mm pitch:</u> 42 rows per field, each row comprises of 54 electrodes (18 each in 3 tiers)</p> <p><u>For fields where pitch converted to 400 mm:</u> 31 rows per field, each row comprises of 54 electrodes (18 each in 3 tiers)</p>	33 rows per field, each row comprises of 54 electrodes (18 each in 3 tiers)

❖ The brief scope of work as per this tender is mainly covered in the following:

- [ A ]** Mobilization and maintaining of adequate manpower and resources for execution of ESP casings, hoppers & flue gas ducts (FGD) repair & ESP related routine maintenance (during running Units & forced outages of Units) work in routine days i.e. non-AOH days on Round the year basis.
- [ B ]** Mobilization of additional manpower and resources for pre-shutdown activities prior to AOH & planned outage of any Unit for preparatory work pertaining to ESP casings, hoppers & flue gas ducts (FGD) & repair work.
- [ C ]** Mobilization of additional manpower and resources for extensive repair works to be executed in ESP casings, hoppers & flue gas ducts (FGD) and overhauling of ESP fields i.e. internal maintenance & repairs during AOH and planned outage of any Unit
- [ D ]** Item wise scope of work is broadly covered into the following five (5) parts and the same are briefed below & detailed in Section-D, Clause No. 1:

Sr. No.	Part & Description
1	Part 1 - Flue gas path repair/ replacement/strengthening/ Correction activity including insulation
2	Part 2 - ESP Maintenance / Servicing / Repair / Replacement of internals including inspection
3	Part 3 - ESP Running/ Routine external maintenance
4	Part 4 - Fabrication Activity
5	Part 5 - For execution of work not covered in Parts 1 to 4 (Un-foreseen jobs)

▪ **Part-wise detailed scope of work is given in Clause No. 1 of Section D: Special Conditions of Contract.**

- 2.1 The Bid submitted by the Bidder not covering the total scope of work and services as detailed out in the tender document shall be liable for rejection.
- 2.2 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.
- 2.3 All the miscellaneous activities pertaining to specific work to be executed for satisfactory performance is in the scope of Contractor in his quoted rates.
- 2.4 Servicing/ Repairing of above ESP and its' auxiliaries - equipment shall be done as per best practices & checklist provided by GIPCL.
- 2.5 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 confirm to the specifications, safety norms, legal & statutory requirements.
- 2.6 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.

### **3. GENERAL INSTRUCTIONS**

- 3.1 The Bidders who are interested in participating in the Tender must read and comply with the instructions and the Terms & Conditions contained in the Tender Document.
- 3.2 The Bids shall be filled in by the Bidders clearly, neatly and accurately. Any alteration, erasures or overwriting shall be liable to make the tender invalid unless the same is



neatly carried out and attested over the full signature of Bidder. The decision of the Company to interpret the information and rates filled in by the Bidder shall be final and binding on the Bidder.

- 3.3 The Bidders are requested to make themselves fully conversant with the General Conditions of Contract, Special Conditions of Contract, Technical Specifications, Site conditions, Safety & Health Aspects and Norms to be observed etc. before submitting their bids so that no ambiguity arises in these respects subsequent to submission of the Bids.
- 3.4 Before quoting the rates, the Bidder should go through the specifications, scope of work etc. and get himself fully conversant with them. The Bid should include cost of mobilization and cost to adhere to all Safety Norms as described in the Tender. No relaxation or request for revision of quoted / accepted rates shall be entertained subsequent to the opening of Bid on account of mobilization or Safety costs.
- 3.5 Bidder has to submit all the information as per required Bid document. Failure to furnish all the information as per required Bid documents or submission of a Bid containing deviations from the contractual terms and conditions, specifications and requirements, shall be rejected.
- 3.6 The Bids shall be submitted within the time frames set out in the Notice Inviting Tender ('NIT') and Bids submitted thereafter shall not be accepted and considered.
- 3.7 The Tender Document shall not be transferable.
- 3.8 The Bidders are expected to examine all instructions, forms, terms & specifications in the Bid documents and to get fully acquainted themselves with all the conditions and matters which may affect the subject matter of the work/tender or the cost thereof. If any Bidder finds any discrepancies or omissions in the specifications and documents or any doubt in true meaning or interpretation of any part, he shall seek necessary clarifications in writing if required.
- 3.9 Conditional offers shall not be considered and liable to be rejected.
- 3.10 The Company reserves the right to extend the deadlines for submission of the Bids by giving amendments.
- 3.11 During evaluation of Bids the Company may, at its discretion ask the Bidder(s) for clarification of their Bid. The request for clarification and the response shall be in writing and no change in prices or substance of the Bid shall be sought, offered or permitted.
- 3.12 The Company reserves the right to amend / modify the Bidding documents at any time prior to the deadline for submission of Bids, either at its own discretion or in response to the clarification requested by a prospective Bidder. In such case, the Company may in its discretion extend the deadline for submission of Bids in order to facilitate the prospective Bidders for incorporating the effect of the amendment in their Bids.
- 3.13 The Bidders shall bear all costs and expenses associated with the preparation and submission of their respective Bids, to attend meetings or conferences, if any,

including any pre-award discussion with the successful Bidder, technical and other presentations etc. and the Company shall not be liable for any expense thereof.

3.14 If the successful Bidder is a joint venture, formed of two or more companies, the Bidder along with the partners shall accept joint and several responsibilities and liabilities for all obligations under the Contract.

3.15 Timely and satisfactory completion of the work and strict adherence to the allotted time frames for jobs shall be the essence of the contract.

3.16 The Company reserves the right to qualify/disqualify any applicant without assigning any reason.

3.17 The Bidder shall be disqualified if any untrue statement or misrepresentation is made in the Bid forms, attachments and other supporting documents submitted by the Bidder.

#### **4. PLANT VISIT**

It is perquisite and advisable for all interested bidders to visit the site/plant after downloading the tender copy to understand the actual working conditions, compliance related to labour, safety etc. before submitting their offer. Failing which, any consequential liabilities arising will be to bidder's account. The bidders shall examine the site of works and its surroundings at his own responsibility. The bidders shall collect information that may be necessary for preparing the bid and entering into a contract. All costs and liabilities arising out of the site visit shall be at bidder's account.

The bidder is deemed to have examined and understood the tender document, obtained his own information in all matters whatsoever that might affect the carrying out the works expressly mentioned or works which may have to be carried out to fulfill his contractual obligation within the scheduled rates and to have satisfied himself to the sufficiency for his offer.

The submission of tender by a contractor implies that he has visited the site and read these instructions, conditions of the contract etc. and has himself aware of the scope, nature of works & specifications of the works to be done, General & Special Terms and Condition. GIPCL will not, therefore after acceptance of contractor's rate, pay any extra charges for any other reason in case the contractor is found later on to have misjudged the site conditions.

Any error in description or quantity or omission in the contract document shall not vitiate the contract or release the contractor from executing the work comprised in the contract according to scope of works, magnitude of the works, requirement of materials, equipment, tools & tackles, labour, etc. Contractor has to complete the work in accordance with the

contract documents irrespective of any defects, omissions or errors that may be found in the contract documents.

Bidder shall inspect the site, examine and obtain all information required and satisfy himself regarding matters such as access to site, communication, transport, working condition including constraint of work place, confined area, quantum of dusting, running equipment, importance of work, round the clock working conditions, safety requirements, temperature of fresh drained hot bed material and associated risks, right of way, high flood level in River, flow of water during monsoon/dry season in the River/Nullah, the type and number of equipment and facilities required for the satisfactory completion of work, the quantity of various items of the work, the availability of local labour, availability and rates of material, local working conditions, uncertainties of weather, obstructions and hindrances that may arise, etc which may affect the work or cost thereof, before submission of his Bid. Ignorance of site conditions shall not be accepted by the GIPCL as basis for any claim for compensation. The submission of a Bid by the Bidder will be construed as evidence that such an examination was made. Any later claims / disputes in regard to rates quoted shall not be entertained or considered by the GIPCL.

The rates quoted by Bidder shall be based on his own knowledge and judgment of the conditions and hazards involved and shall not be based on any representations of the Engineer.

## **5. ELIGIBILITY CRITERIA**

The following criteria shall be adopted for qualifying the Bidders for further proceeding:

5.1 Bidder should possess minimum **three (3) years** of experience **in similar works as defined below during last five years ending last day of the month previous to the one in which tender is invited** on the basis of AMC / ARC / O&M / Work contract of:

**(A)** Similar nature of work for repair / replacement / strengthening of casing & hoppers of Electro Static Precipitator (ESP) & casing / structure / support / duct assemblies of Flue gas path carrying flue gas along with duct NMEJ repair/replacement work  
**OR**

**(A)** Experience in fabrication, erection, welding, scaffolding, insulation, painting of (i) Steel structure or (ii) Casing plates / tanks / vessels or (iii) Repair / replacement of ducts / non-pressure part or (iv) ESP / ESP casing wall etc.

**AND**

**(B)** Servicing / repairing / overhauling work of maintenance / rate contract for ESP internals & auxiliaries.

Bidder should enclose proof of the same as above. Bidder shall submit necessary evidence for the same like self-attested copies of work orders / work execution / work completion certificates from clients. The work completion certificate shall comprise of Order value & Executed value. Bidders should have executed the work directly. The work executed as a sub-contractor or subletting agency shall not be taken in to consideration.

If bidder have experience of similar nature of work related to ESP & FGD as specified above as a part of O&M contract / AMC / ARC or other contract with broad scope of work in power plant, in such case only value of work matching with above eligibility criteria will considered for qualifying the tender. In such case bidder shall submit certificate from client for executed amount for matching scope of work for meeting eligibility criteria.

Note: For evaluation of the bid, the executed value mentioned in the work completion certificate will be considered.

5.2 Bidder should produce evidence of **having experience of successfully completed similar works as defined above during last five years ending last day of the month previous to the one in which tender is invited**, satisfactory progress of ongoing works etc. along with certified copies of documentary evidence preferably photo copies of work experience from the clients.

**The experience should be either of the following:**

- a. One similar completed / executed work each costing not less than the amount equal to Rs. 139.78 lakhs (including GST)      OR**
- b. Two similar completed / executed works each costing not less than the amount equal to Rs. 93.18 lakhs (including GST)      OR**
- c. Three similar completed / executed works each costing not less than the amount equal to Rs. 69.89 lakhs (including GST)**

Bidder should specifically mention fulfilling of above criteria in his offer along with details of work orders & work completion / execution certificates issued by clients.

5.3 Contractor has to submit satisfactory work completion certificate from the clients. Experience as a sub-contractor will not be allowed and Price Bid of such Bidders will be rejected.

5.4 Tender fee: The tender fee shall be accompanied in form of RTGS/NEFT/any other online mode of payment only.

5.5 EMD: The EMD shall be accompanied in the form of Demand Draft/RTGS/NEFT/any other online mode of payment or Bank Guarantee issued by banks as described in clause no. 7 of tender document.

- 5.6 Bidder should have separate Employees Provident Fund code number towards registration of firm with RPF commissioner.
- 5.7 Attested copies of relevant documents duly signed & seal on each & every page shall be submitted. The above documents will be analyzed and after satisfaction, the Price Bid will be open. GIPCL may verify the documents, experience certificates issued by concern authority. After opening of technical Bid, if any required attested documents found missing in the technical Bid submitted by the Bidder, the tender inviting authority may inform to that Bidder only once by E-mail to submit the missing required documents within stipulated time limit. If Bidder/Bidders fail to submit within stipulated time, their Bid will be declared technically disqualified and no further correspondence will be entertained.
- 5.8 Bidder should have minimum average annual turnover of amount equal to **Rs. 69.89 lakhs** for last three financial years i.e. **FYs 2022-23, 2023-24 & 2024-25**. Bidder shall furnish annual audited financial statement duly certified by Chartered Accountant for the last three financial years to demonstrate the financial healthiness of the company. The balance Sheet must be in the name of the company. Any type of MOU for this purpose will not be entertained.

Note: In case, the annual turnover is less than the statutory guideline which does not require audit, the bidder shall submit the turnover certificate from Chartered Accountant.

- 5.9 The Bidder has to submit Income Tax Permanent Account Number (PAN) and GST Registration No. Copies of the same shall be submitted.
- 5.10 The net worth of the bidder should be positive as evidenced from audited accounts of last financial year i.e. on 31.03.2025.
- 5.11 In case Bidder is a Consortium/Joint deed of undertaking of company, the above requirements/credential of consortium leader/bidder shall be considered unless otherwise specifically mentioned in the tender.
- 5.12 If Bidder or its Partner(s) or Director(s) is/are/was Black Listed/Deregistered/ Stopped or banned from dealing in the past by any Govt, of Gujarat Undertakings I Depts./ Authorities and Govt. of Gujarat supported companies I undertakings I organizations, bid of that party may be liable to be rejected. Bidder agrees and undertakes to accept decision of GIPCL in this regard as final and binding on the Bidder without any demur and that no further correspondence shall be done in this regard at any stage. Bidder shall have to submit "Declaration for Contractual Litigations" enclosed as Annexure-D in Section-F of this tender document.
- 5.13 Bidder shall have to submit the "Declaration-cum-Undertaking for Compliance of Safety Laws and Regulations" enclosed as Annexure-D in Section-F of tender document.
- If any major violation of any safety law(s)/rule(s) is/are found during the preceding three (3) years, bid of that Bidder will be liable to be rejected. Bidder agrees and undertakes to accept decision of GIPCL in this regard as final and binding on the Bidder

without any demur and that no further correspondence shall be done in this regard at any stage.

- If any of the details submitted in the prescribed Annexure / Form to the Bid is/are found to be false, incorrect at any time in future, then the Contract awarded to that Bidder/Contractor shall be liable to be terminated forthwith without any notice/correspondence and Bidder agrees and undertakes to accept decision of GIPCL in this regards as final and binding on the Bidder without any demur and that no further correspondence shall be done in this regard at any stage. Further, Performance/ Security Deposit will also be liable to be forfeited. Any dues to GIPCL from the Bidder/Contractor shall be recovered from the pending bills or any other dues payable to the Bidder/Contractor, if any or otherwise through any other recourse available under the Laws.

The Bidder shall submit all the evidences, documents, attested copies of work orders & work completion certificates etc. as a proof with EMD & Tender Fee and also provide the requisite details online for meeting the pre-qualification requirements. GIPCL will verify the experience, performance, capability & strength of Bidders, independently for executing the job. GIPCL may visit the site & consult the owner of the industry/property where similar job is executed by the Bidder. GIPCL reserves the right to accept/cancel/reject any/all Bids without assigning any reason thereof. The tenders of qualified Bidder/Bidders shall only be considered for further evaluation.

Notwithstanding anything stated above, GIPCL reserves the right to verify all statements/information submitted by Bidders to confirm the Bidder's claim on experience and to assess the Bidder's capability and capacity to perform the contract. GIPCL will do performance evaluation and necessary due diligence of the Bidders and reserves the right to reject the bid based on feedback including Owner/user feedback of completed works & ongoing works. GIPCL's decision in this regard shall be final and binding to the Bidder without any demur.

## **6. LANGUAGE OF BID**

The Bid prepared by the Bidder, and all correspondence and documents relating to the Bid exchanged by the Bidder and the Company, shall be written in the English language. Any printed literature furnished by the Bidder, written in another language shall be accompanied by an English translation for the purpose of interpretation of the Bid.

## **7. EARNEST MONEY DEPOSIT (EMD) and TENDER FEE**

- 7.1 An **EMD** of **Rs. 2,97,000/-** and Non-refundable **Tender fee** of **Rs. 2,950/-** shall accompany with Bid. The Tender fee shall be submitted in the form of a RTGS/NEFT/online mode of payment only (account details as specified below).

- 7.2 The EMD shall be submitted in the form of DD/irrevocable Bank Guarantee in favour of Gujarat Industries Power Company Limited from any Schedule Public Sector Bank or Schedule Private Sector Bank such as All Nationalized Banks, Axis Bank, ICICI Bank, HDFC Bank, Kotak Mahindra Bank, IndusInd Bank, Federal Bank, Bandhan Bank, IDBI Bank and Karur Vysya Bank. Proforma of BG enclosed (Annexure-B in Section-F) with this tender.

Alternatively, the EMD also may be submitted through RTGS/NEFT/online mode of payment by Bidders as per the account details provided below:

Bank Name: State Bank of India  
 Branch: Nani Naroli  
 IFSC: SBIN0013423  
 Beneficiary Name: Gujarat Industries Power Company Limited  
 Account No.: 33514692834

- 7.3 In case EMD is paid in the form of BG, the same shall be valid for a period of 180 days after the due date for submission of the Bid.
- 7.4 The EMD of the successful Bidder will be returned after payment of Security Deposit by successful Bidder.
- 7.5 The EMD will be refunded to the unsuccessful Bidder as soon as the Tender is finalized and after award of Lol / Work Order.
- 7.6 Any bid not accompanied with EMD and Tender fee will be rejected. Tender Fees and EMD should be submitted in physical form directly to GIPCL.
- 7.7 No interest shall be payable on EMD.
- 7.8 The EMD will be forfeited if the Bidder (i) withdraws his Tender after acceptance or (ii) withdraws his Tender before the validity date of the tender.

#### **7.9 SCHEDULE OF EMD & TENDER FEES:**

<p>EMD, Tender fee and other documents duly signed to be submitted in physical form <b>on or before due date of closing of tender.</b></p>	<p><b>Address for Submission:</b>                      Chief General Manager (Thermal),                      Gujarat Industries Power Co. Ltd. - Surat Lignite Power Plant,                      Village – Nani Naroli, Taluka – Mangrol, District – Surat 394 110, Gujarat.</p> <p>Contact Person for Tender:                      Mr. B. G. Gajjar - AGM (BMD and TG &amp; BoP)                      E-mail: <a href="mailto:bggajjar@gipcl.com">bggajjar@gipcl.com</a>; M: (+91) 99099 25808</p>
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## **8. SUBMISSION OF BIDS**

### **A. MODE OF SUBMISSION**

The Bids shall be submitted online on (n)Procure portal <https://tender.nprocure.com/> within the dates specified in the NIT along with the details of Tender Fees, EMD in two parts as under:

- (a) Pre-qualification and Techno-commercial Bid without price.
- (b) Price Bid.

#### **(a) Pre-qualification and Techno-commercial Bid without price:**

The Tender document duly signed in all pages without price bid along with techno-commercial deviations, if any, shall accompany the Bid. The following information also to be provided in the techno commercial bid:

- 1. Qualification and Experience of Site In-charge, Supervisors/Engineers.
- 2. Schedule of deviation (Annexure-E in Section-F) Technical as well as commercial, if any.

The following supporting documents shall also be submitted along with EMD & Tender Fee in physical form:

- 1. The Tender Document duly signed in all pages without price bid along with Techno-commercial deviations, if any.
- 2. Proof of experience meeting the minimum Eligibility Criteria as mentioned in this Tender document.
- 3. Performance certificate issued by clients.
- 4. Previous Work Order copies.
- 5. Details of present Work Order (if any).
- 6. Average annual turnover for the last three financial years i.e. i.e. FYs 2022-23, 2023-24 & 2024-25, audited annual accounts / financial statements i.e. Profit and Loss account and Balance Sheet duly certified by a practising CA will be required.
- 7. P.F Number and Allotment Letter.
- 8. PAN Number.
- 9. GST registration number/certificate.

#### **(b) Price Bid:**

- 1. Price Bid (including 18% GST) shall be submitted **online only** through (n)Procure portal <https://tender.nprocure.com/>. **Quoted price shall include cost of all manpower, equipments, vehicles, consumables, fuel, tools & tackles, transportation, safety, statutory compliance, mobilization etc.**
- 2. Bidder shall have to quote the rates in the form of percentage (%) i.e.



**AT the Estimated Contract value OR**

**\_\_\_\_\_ % BELOW the Estimated Contract value OR**

**\_\_\_\_\_ % ABOVE the Estimated Contract value**

3. Goods & Service tax shall be paid, at actual, as per prevailing rates as declared by Central Government on submission of documentary evidence.
4. The quantities shown in **Section-E: Schedule of Quantities and Price** are approximate for the contract period and may vary as per job requirement.
5. The Bidder shall fill the Bid documents with utmost care in consonance with the instructions contained in the Bid documents.

#### **B. METHOD OF TENDERING / SIGNATURE ON BIDS**

- (i) The Bid must contain the postal address like name, residence and place of business of the person or persons submitting the Bid and must be signed and sealed by the Bidder with his usual signature. The name of all persons signing the documents shall also be typed or printed below the signature on each page.
- (ii) Bid by a joint venture/partnership firm must be furnished with full names of all partners and be signed with the partnership name, followed by the signature and designation of one of the authorized partners or other authorized representative(s). A certified copy of the power of attorney authorizing such partner or representative shall also be submitted.
- (iii) Bids by a Corporation/Company must be signed with the legal name of the Corporation/Company i.e. by the President/Managing Director/Secretary or other person or persons authorized to Bid on behalf of such Corporation/Company. A certified copy of the board resolution/power of attorney authorizing such partner or representative shall also be submitted.
- (iv) The Bidder's name stated on the proposal shall be the exact legal name of the firm.
- (v) Erasures or other changes in the Bid Documents shall be initialed by the person signing the Bid.
- (vi) Bids not conforming to the above requirements of signing shall be disqualified.

#### **9. MODIFICATION AND WITHDRAWAL OF BIDS**

- a. The Bidder may modify or withdraw the bid prior to the deadline prescribed for submission of bids.
- b. No Bid shall be modified subsequent to the deadline for submission of Bids.
- c. No Bid shall be withdrawn in the interval between the deadline for submission of Bids and the expiration of the period of bid validity.

#### **10. POLICY FOR BIDS UNDER CONSIDERATION**

- a. Bid shall be deemed to be under consideration immediately after opening of the Bid and till official intimation of award / rejection made by the Company to the Bidders.

- b. While the Bids are under consideration, Bidders and / or their representative or other interested parties are advised to refrain from contacting by any means, the Company. The Engineer, if necessary, will obtain clarifications on the Bids by requesting for such information from any or all the Bidders, in writing as may be necessary. The Bidder will not be permitted to change the price or substance of the Bid after the Bid has been opened.

#### **11. EFFECT AND VALIDITY OF THE BID**

- a. The Bid should be kept valid for acceptance for a period of one hundred and eighty (180) calendar days from the last date of submission of Bids.
- b. The submission of any Bid along with the required documents and specifications shall constitute an agreement that the Bidder shall have no cause of action or claim, against the Company for rejection of his Bid. The Company shall always be at liberty to reject or accept any Bid or Bids at his sole discretion and any action will not be called into question and the Bidder shall have no claim in that regard against the GIPCL.

#### **12. OPENING OF BIDS**

1. GIPCL will open the Pre-qualification / Technical Bid / Price Bid, as the case may be, in presence of Bidder's representatives whenever such a procedure has been specified. Otherwise the tender will be opened by the authorized officers of GIPCL.
2. Preliminary Examination:
  - 2.1 The Company will examine the Bids for any computational errors, for sureties furnished by Bidder, for authentication of documents submitted and completeness of the Bids.
  - 2.2 Arithmetical errors will be rectified on the following basis:
    - (a) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price will be corrected & will be binding to the bidders.
    - (b) If there is a discrepancy between the Total Bid Amount and the sum of total prices, the sum of total prices shall prevail and the Total Bid Amount will be corrected & will be binding to the Bidders.

#### **13. EVALUATION & COMPARISON OF BIDS**

1. GIPCL shall evaluate the Bids received and accepted by it to ascertain the lowest evaluated Bid in conformity with the specifications of the tender document. **The**

**overall lowest bidder for all the sections of Section-E schedule for quantities & price after considering GST will be treated as L1 bidder post e-reverse auction.**

2. The Technical Bids will be examined for minor matters regarding qualification of bids. Subsequent to correspondence with the respective bidders, the decision of Tender Committee will be final.
3. All responses to requests for clarifications shall be in writing and shall be presented to the Company through e-mail or in a sealed envelope on or before the given date requested by the Company. If the Technical clarifications sought by the Company do not reach the Company on or before due date, the Bid will be rejected.
4. The comparison of all the Bids shall be carried out with reference to the scope of work as per the technical specification. Any deviation / omission shall be evaluated at highest quoted price of the deviation / omission quoted by any of the Bidder. In case a separate price (for omission) is not given by any other Bidder, a reasonable price of the same shall be taken & the same shall be binding to the Bidders.
5. The commercial deviation, if any, shall be loaded to bring all the Bids at par. The loading shall be carried out at an interest rate of 2% above PLR of SBI.
6. A Bid to be substantially responsive shall be one which on evaluation confirms to all the terms, conditions and specifications of the Bid documents without any material deviation or reservation.
7. For the above referred purpose, a 'material deviation' shall be one:
  - (a) Which affects in any substantial way the Scope, Quality or performance of the Contract, or
  - (b) Which limits in any substantial way and in a manner inconsistent with the Bid documents, GIPCL's right or the Bidder's obligations, under the contract, or
  - (c) Whose rectification of it would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.

#### **14. RIGHT OF REJECTION OF TENDERS**

1. GIPCL reserves the right to accept or reject any Bid or to cancel the Bidding process and reject all Bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders regarding the same.
2. Any Tender without EMD and Tender Fee will be treated as non-responsive and shall be rejected at the outset & no further correspondence shall be entertained regarding this.
3. GIPCL reserves the right to debar any Bidder from participation in future Bids if such Bidder has quoted an abnormally low rate in the Bid document/Price Bid.
4. **The bidders worked at GIPCL-SLPP in the past but performance of work not found satisfactory or failed to perform as per scope of work and terms and conditions of**

**work order including delay in mobilization, delay in execution of work, statutory compliance etc. then in such case GIPCL reserves the right to reject the bid and such bidders shall not be allowed to participate in the bidding process. Decision of GIPCL would be final for deciding about poor performance in execution of such past contract.**

**15. AWARD OF CONTRACT**

1. GIPCL will award the Contract to that Bidder whose quotation has been determined to be substantially responsive and evaluated as the lowest quotation post e-reverse auction in conformity with the requirements of the specifications and documents contained herein, provided further that the bidder is determined and evaluated to be qualified to perform the contract satisfactorily.
2. The successful bidder shall be intimated of his selection through the Letter of Intent or Letter of Award/ Work Order which shall be sent to him through registered e-mail, courier or fax.
3. GIPCL reserves the right to cancel/short close the contract during the contract period without assigning any reason.
4. GIPCL reserves the right to split the contract quantity between vendors.

**16. CONTRACT PERIOD**

- a) The contract will be valid for a period of **Two (2) years** from the date of work order.
- b) GIPCL reserves the right to extend the Contract Period up to **six (6) 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 (1) 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.

**17. COMPLETION SCHEDULE (FOR AOH & PLANNED OUTAGE WORK):**

Schedule for completion of job is as below:

- a) 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.
- b) Major quantum of ESP casings, hoppers & FGD repair works i.e. plates patch-up, plates replacement, insulation removal & re-application etc. shall be carried out during (i) Annual

Overhauling (AOH) of Units which are planned tentatively between June to September of calendar year & (ii) planned outage (say short AOH) of any single Unit generally taken in the months of November to December. Detailed planning for jobs to be executed as per scope of work during these AOHs & planned outages shall be done during pre-shutdown meetings. The tentative period of AOHs of any Unit at SLPP is 22-30 days while the same of planned outage of any Units is around 15 days. However, outage duration may increase or decreased according to work planned in other areas of boiler. GIPCL will intimate contractor in advance above duration of outage and tentative quantum of work to be taken up during each outage.

- c) Completion schedule for the ESP casings, hoppers & FGD repair works to be taken up in AOHs & planned outages of respective Units shall be intimated by GIPCL during pre-shutdown meeting depending upon the overall schedule of Units AOHs & planned outages during the contract period.
- d) Work shall be completed as per the completion schedule decided as specified above. Actual completion time shall be considered from the date of handing over the front to contractor up to the date of handing over the ESP for normal operation. Any delay in prescribed completion schedule will attract liquidated damages (LD) as per Clause No. 26 – Liquidated Damages (LD).
- e) The pre-shutdown activity period is excluded from above prescribed completion schedule for calculation of LD.
- f) Any observations/corrections required as per air load test or field test charging shall be attended as per instructions of EIC.
- g) Contractor has to arrange sufficient manpower to carry out work on round-the-clock basis (in 2 shifts of 12 hours).
- h) 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 along with 10% overhead charges.

## **18. ASSIGNMENT AND SUB-LETTING**

The Contractor shall not directly or indirectly assign or sub-let total/any part of the contract to any other party or agency.

## **19. CONTRACTOR'S OBLIGATIONS**

### **A. Deployment and Responsibility of Manpower**

- (i) The Contractor shall deploy suitably qualified and sufficient manpower for timely & satisfactorily execution of the works under the contract.

- (ii) The Contractor shall deploy sufficient skilled, semi-skilled and Un-skilled manpower separately to properly complete the job in given/scheduled time.
- (iii) The Contractor shall depute its own workmen/labour with proper identification to enter the plant premises after ensuring that the jobs are scheduled.
- (iv) At the time of deploying manpower, the Contractor shall strictly comply all the applicable labor laws/Acts norms including but not restricted to the age of the workers, women workers and shall also ensure that a police verification and security check for all the workmen/labor engaged at the GIPCL site is done and necessary documents regarding the same shall be submitted to the GIPCL's authorized representative/officer-in-charge. Any default in complying with the same or any misrepresentation regarding compliance of the same shall compel GIPCL to initiate appropriate civil or criminal proceedings regarding the same.
- (v) The Contractor shall also comply with the safety requirements and provide his workmen / labour with safety equipments like helmets, masks, gum boots, a uniform (minimum 3 pairs for AMC/ARC) and other necessary PPEs for properly undertaking the operations involved under this contract. Following are also to be issued by contractor:
  - (a) Safety shoes
  - (b) Goggles / Face shield
  - (c) Ear plug / Ear muff
  - (d) Hand gloves like electrical hand gloves / cotton hand gloves / chemical hand gloves
- (vi) Contractor shall nominate / authorize senior experienced person in writing as Site In-charge to co-ordinate with GIPCL Engineer and who shall bear overall responsibility for performance of the contract. Such person shall remain always available at site or site office allotted to the contractor at SLPP site. Contractor has to submit the authority letter and documentary proof for the same.
- (vii) The Contractor shall appoint a supervisor who shall co-ordinate with GIPCL Engineer In-charge for daily entrusted job. They have to maintain daily records dully signed for the works carried out and duly certified by Engineer-In-Charge. The Contractor in co-ordination with the Engineer-In-Charge shall ensure the availability of adequate manpower to carry out the job satisfactorily on a daily basis. As per the instruction of Engineer-In-Charge they have to allot the work and execute the same in specified time limit.
- (viii) During execution of the works, one or more jobs may be required to be done simultaneously and the Contractor shall mobilize additional resources accordingly.
- (ix) During emergency or similar situations, the Contractor shall be required to mobilize additional resources as per need within the period of 24 hours as directed by GIPCL. If the contractor fails to mobilize sufficient manpower to complete the job in time, GIPCL will execute the job through other agency at the risk and cost of the contractor with

10% overhead charges plus applicable GST as per extant GST laws & the same will be recovered from the Contractor's bill.

- (x) During working in high risk area like hot lines of steam/ water/ oil the workman must wear a suitable safety apron, safety belt, safety hand gloves and goggles. It is the contractors/contractor's supervisor's responsibility to ensure it without fail.
- (xi) During unit overhauling, the contractor has to enhance the site manpower as per the requirement to ensure the timely completion of work (During overhauling period quantum of work increases substantially). For this, enhanced work shall be completed by deploying additional manpower with separate supervisor. Payment will be made on item rate basis only. The work during the overhauling period is to be carried out round the clock. Contractor should mobilize sufficient number of manpower and execute the work in all shifts with independent manpower. Contractor should not continue the same manpower for more than 12 hours/day (i.e. manpower to be engaged in two shifts of 12 hours each).

#### **B. Tools & Tackles:**

- (i) All tools and tackles required to execute the contract are in the scope of the contractor. The contractor should ensure that tools and tackles are in healthy & working condition. All consumable items i.e. cloth, cotton waste, kerosene oil, gases (Oxygen, D/A, Argon), welding machine, lifting tools, winch machine, grinding machine, welding electrode, anti-corrosive / bituminous paint, wire brushes, water pump with flexible pipes etc. would be in the scope of the contractor. The welding electrode should be of approved make i.e. Advani, Oerlikon, ESAB, D&H and L&T.

**Note: If work is suffered due to want of sufficient manpower, tools & tackles, vehicles, equipments and/or required consumables then 25% of the total job cost plus applicable GST as per extant GST laws will be levied as a penalty for each and every instance.**

- (ii) The Contractor shall be required to shift spares, material etc in required quantity duly approved by GIPCL's Engineer In-charge whenever necessary from GIPCL store/ warehouse to site or site store as per the instructions of Engineer In-charge. Contractor shall be required to arrange transportation for above. The cost of transportation will be on contractor's account. The contractor shall be responsible for safe transportation, handling and storage. If equipment fails due to improper material shifting / handling, cost of such damages shall be recovered from contractor's bills. It is the responsibility of contractor to keep various materials separately to avoid intermixing. The failure/defects of equipment due to improper method of work, equipment assembly due to contractor negligence, and the losses will be recovered from contractor's bills.

- (iii) In case of breakdown of equipment, the contractor should work round the clock for putting back the area in service immediately within minimum time. In case of any emergency arising during night hours the contractor should be in a position to mobilize the manpower immediately within minimum time.
- (iv) Arrangement for lighting at the work spot has to be made by the contractor. He has to arrange all lighting equipment such as power cable, hand lamps. The contractor has to take prior approval for taking electrical power supply. The contractor should keep hand lamps of 24 volt for confined space and sufficient quantity of 240 volt and halogen lamp for other area ensuring safety at work place.
- (v) Pin sockets of IS standards should be used for all connections. For any accident take place & any damage to the equipment and/or injury to human due to carelessness in loose connection, contractors will be held responsible & liable for any recovery/actions.
- (vi) The Contractor must ensure that all the generated scrap materials are removed from the site immediately and he must ensure cleaning of the site. Further, these items should be disposed off to the scrap yard or any other designated place as instructed by Engineer In-charge. In case of heavy weight items, if required transportation may be arranged by the GIPCL at the discretion of the Engineer In-charge 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 bill.
- (vii) It is the responsibility of Site In-charge to segregate and remove the scrap from site. Work will be certified by Engineer In-charge only after removal of scrap to the scrap yard.
- (viii) If any equipment or part are found damaged due to negligence / fault of contractor, the cost of such damages shall be recovered from the contractors' bill.
- (ix) The decision of the Engineer In-charge shall be final and binding on the contractor for defining the terms and condition included in this contract.
- (x) 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.

## **20. CLARIFICATION OF BIDDING DOCUMENTS**

If any Bidder requires any further information or clarification in the Bidding Documents, may notify the Company before one week of last date of submission of online Bid, in writing or by E-mail at the GIPCL's mailing address [bggajjar@gipcl.com](mailto:bggajjar@gipcl.com) as indicated in the Invitation to Bids. The GIPCL's response (including an explanation of the query) will be sent in writing or by E-mail to all prospective Bidders who have received the Bidding Documents.



## **21. 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'.

## **22. UNDERSTANDING & CLARIFICATION ON DOCUMENTS & SPECIFICATION**

The Bidder is required to carefully examine the specifications and documents, all the conditions and matters work wise & cost wise. If any Bidder finds any discrepancies or omissions in the specifications and documents or is in doubt for any meaning of any part, he shall request in writing for an interpretation/ clarification to the GIPCL.

All such interpretations and clarifications shall form a part of the Bid documents.

## **23. PAYMENTS**

All the payments against the work order shall be in Indian currency and payable through cheque / RTGS only.

## **24. POINTS TO BE CONSIDERED DURING QUOTING ONLINE PRICE BID**

- a. Section-E: Schedule of Quantities and Price shall be read in conjunction with Instructions to Bidders, General Conditions of Contract, Special Conditions of Contract and Technical specifications.
- b. The quantities given in the Section-E: Schedule of Quantities and Price are estimated and will be made as per actual work carried out as per the rates of Work Order.
- c. The method of measurement of completed work for payment shall be in accordance with the method of measurement specified in the Tender document.
- d. No separate amount shall be payable for use of auxiliary equipment incidental to or in day to day operation in the course of fulfillment of contractual obligation of the supplier.

## **25. 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 the 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 specifications and instructions which shall involve any curtailment of the work as originally contemplated. Further GIPCL may allot the similar work of ESP field internal/ FGD to other agency as per the need of AOH schedule or any other requirement, at discretion of GIPCL.

**26. LIQUIDATED DAMAGES (LD)**

- a. Entire work in all respect shall be completed within time period decided and intimated by GIPCL during pre-shutdown meeting or by E-mail.
- b. In the event of contractor fails to complete the entire job as decided and conveyed to contractor, LD @ 0.5% of Executed work value (Including GST) for each day delayed beyond the prescribed time schedule will be deducted from the contractor's bills. LD shall be levied separately for each ESP work.
- c. However, the total amount of penalty/LD shall not exceed 10% of the contract value.

**27. CROSS FALL BREACH CLAUSE:**

Notwithstanding the execution of Contract for Mechanical execution for Repair / Replacement / Strengthening of ESP casings & hoppers and structure / support / duct assemblies of flue gas ducts (FGD ), ESP fields overhauling in Phase-I & II Boilers during AOHs, Bidder shall be solely responsible for successful completion of the entire work covered in these contracts and performance of the systems as per the Contracts and accordingly the overall responsibility for the successful completion shall rest with bidder. It is expressly understood and agreed by bidder that any breach under any one of these contracts shall automatically be deemed as a breach under all the other contracts and vice-versa. Any breach or occurrence giving GIPCL the right to terminate any one contract and/or recover damages there under shall also give GIPCL the right, at their sole discretion, to terminate the other contracts and/or recover damages and/or get the work done under the breached contracts from alternate sources at bidder's costs and responsibilities. However, any such breach in any one of these contracts shall not automatically relieve bidder of any of their obligations under the other contracts.

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## **SECTION - B**

### **INSTRUCTIONS TO BIDDERS FOR ONLINE TENDERING**

1. Tender documents are available only in electronic format and same can be downloaded from the website <https://tender.nprocure.com/> and it can also be viewed from company's website [www.gipcl.com](http://www.gipcl.com).
2. All Bids i.e. pre-qualification/techno-commercial bid (Part-1) and price bid (Part-2) should be submitted online through the website <https://tender.nprocure.com/> only. **No physical submission of Price Bid will be entertained as it should be submitted online only on (n)procure portal.** Also, no fax, e-mail, letters will be entertained for the same.
3. Following should be submitted 'off-line' in sealed covers separately during dates & time set in 'NIT' at our office at Village: Nani Naroli, Taluka: Mangrol, Dist.: Surat - 394 110, Gujarat:
  - Tender Fee,
  - EMD,
  - Supporting Documents for Technical Bid
4. Bidders who wish to participate in online tenders will have to procure / should have legally valid Digital Certificate (Class III) as per Information Technology Act-2000, using which they can sign their electronic bids. Bidders can procure the same from any of the license certifying Authority of India or can contact (n)code solutions- a division of GNFC Limited, who are licensed Certifying Authority by Government of India.
5. All bids should be digitally signed. The bidders are required to contact at the below mentioned address for detailed training on online tendering and also for any other requirement:

(n) Code Solutions - A division of GNFC Ltd.  
403, GNFC Infotower, S.G Road,  
Bodakdev, Ahmedabad- 380 054 (Gujarat, India)

Toll Free: 1-800-419-4632 / 1-800-233-1010,

Tel: 079-26857315 / 316 / 317

E-mail: [nprocure@ncode.in](mailto:nprocure@ncode.in)

Website: <https://tender.nprocure.com/>

**Note: Interested Bidders are requested to submit the online tender at least two days in advance from the due date set for online submission of bid in order to avoid non-participation in e-tender due to probable technical problem in (n)procure portal.**

**e-Reverse Auction:**

1. GIPCL reserves the right to conduct e-reverse auction through (n)procure portal.
2. e-Reverse Auction shall be conducted amongst the lowest 50% eligible bidders (rounded to the next higher whole number) from the total bids received OR Minimum three (3) lowest bidders; whichever is higher, shall be invited for participation in e-Reverse Auction through E-reverse auction platform.
3. Lowest landed cost among all the bids shall be base price / opening price for reverse auction. Opening Price, Decremental value and duration for the e-Reverse Auction shall be informed to the qualified bidders before start of e-Reverse Auction.
4. After e-reverse auction process, L1 bidder shall be decided on lowest total contract price. Post e-Reverse auction, Reduction in prices will be distributed proportionately on price schedule of each line item.
5. To participate in e-Reverse Auction, Bidders have to create e-Auction user Id on <https://e-auction.nprocure.com>, so that the bidder shall be allowed to participate the e- reverse auction.
6. In case of any further information regarding online bidding or if Bidder needs any assistance in accessing / submission of online bid / clarification or if training is required for participating in online e-reverse auction, the Bidder can contact the following office for assistance or training:

(n)Procure cell,  
(n) Code Solutions - A division of GNFC Ltd.  
403, GNFC Info Tower, S.G. Road,  
Bodakdev, Ahmedabad- 380 054 (Gujarat, India)  
Toll Free: 1-800-419-4632 / 1-800-233-1010,  
Tel: 079-26857315 / 316 / 317  
Fax: 079-26857321 / 40007533  
E-mail: [nprocure@ncode.in](mailto:nprocure@ncode.in)  
Website: <https://tender.nprocure.com/>

Bidder may visit <https://tender.nprocure.com/support> for information regarding e-tendering registration process.

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## **SECTION - C**

### **GENERAL CONDITIONS OF CONTRACT**

#### **1. CONTRACT SECURITY DEPOSIT/ PERFORMANCE BANK GUARANTEE**

As a Contract Security / Performance Bank Guarantee, the successful Bidder, to whom the work is awarded, shall be required to furnish a Performance Bank Guarantee (PBG) / Initial Contract security deposit (SD) in favor of Gujarat Industries Power Company Limited of an equivalent amount of five percent **(5%)** of the "Annual Contract Price excluding taxes and duties from any Schedule Public Sector Bank or Schedule Private Sector Bank in the format Annexure - A attached in **SECTION-F** of tender document, and it shall guarantee the faithful performance of the 'Contract' in accordance with the terms and conditions specified in these documents and specifications. Contract security deposit / PBG shall be submitted strictly within twenty-one days from the date of LOI or work order, whichever is earlier. The PBG / Security Deposit shall be valid up to retention / Claim period of three months from the contract completion date. The Guarantee amount shall be payable to the Company in Bidder's home currency without any condition whatsoever.

GIPCL reserves the right to forfeit Performance Bank Guarantee (PBG)/Initial Contract security deposit.

The Performance Bank Guarantee (initial security deposit ) will be returned/released to the Vendor/Contractor without any interest after 3 months of completion of contract and on fulfilling contractual obligations throughout the Defect Liability Period (of 3 Months). However, any delay in submission of PBG will result in equivalent late release of entire PBG after Retention period.

Further, five percent **(5%)** amount of each RA bill will be retained as a cash security deposit from each RA Bill. This retention amount will be released without any interest after fulfillment of contractual obligation completion throughout defect liability period of 3 months for respective work.

Bid security / EMD should be refunded to the successful bidder on receipt of Performance Bank Guarantee.

#### **2. PENALTY AND RECOVERY:**

- (i) In the event the Contractor causes undue delay in performance or the performance is unsatisfactory causing harm to the plant and property of GIPCL, then in such a case, GIPCL (Engineer In-charge) shall be entitled to levy a penalty on the Contractor at the rate of 1.5 times of the item rate up to a maximum of 10% of the contract value plus applicable GST as per extant GST laws. The said penalty amount may be recovered either from the monthly invoices or the Security deposit.
- (ii) In addition to and without prejudice to the above, GIPCL shall also have the right to get the affected work completed by a third party or agency at the risk and cost of the

Contractor/and the Contractor shall be liable for any differential amount in the Contract price.

- (iii) In case of any damage of equipment/machinery due to negligence of contractor or any other reasons attributed to contractor the decision of Engineer In-charge regarding the amount of recovery shall be final and binding subject to a maximum of 10% of contract value plus applicable GST as per extant GST laws. Recovery will be affected from the monthly bills and/or retention money/security deposit.
- (iv) If the contractor fails to execute the work as per directions of Engineer In-charge within the time frame given in work order and as per day to day instructions by Engineer In-charge, GIPCL shall get the work done by third party at the risk & cost of the contractor with GIPCL's 10% additional overhead charges plus applicable GST as per extant GST laws.
- (v) The ascertainment of the cause of the damage shall be done by the GM (SLPP) and his decision in this regard shall be final.
- (vi) The decision of the Engineer In-charge as regard the amount of damages to be recovered from the Contractor shall be final.
- (vii) The aforesaid amounts of penalty and damages shall be recoverable from the monthly invoices of the Contractor *or* the Security deposit. If the amount of damages recoverable from the Contractor exceeds the total of invoices and/or Security deposit amount, then the Contractor shall become liable to pay the same to GIPCL and GIPCL shall be entitled to initiate appropriate proceedings against the Contractor for the same.

### **3. DEDUCTIONS FROM CONTRACT PRICE**

All costs, charges or expenses that GIPCL may have paid, for which, under the Contract the Contractor is liable, shall be recovered by the GIPCL. The Contractor shall pay all such claims within 15 days of claim failing which the same shall be deducted from the bills of Contractor.

### **4. TERMINATION OF CONTRACT BY GIPCL**

Contractor shall be responsible to complete the jobs within agreed time schedule and in case Contractor fail to complete the job, GIPCL shall recover from his bill, Security Deposit and / or whatsoever for expenses incurred to complete the job with additional 10% overhead charges plus applicable GST as per extant GST laws.

In case if contractor's services are not found satisfactory with respect to mobilization, time bound completion of work, workmanship & safety (OHSAS policy of GIPCL) etc. then GIPCL has right to terminate the contract at any time by giving you 15 days advance notice

without assigning any reason and will make the alternate arrangement at the risk & cost of contractor.

GIPCL may terminate the contract after due recoveries of pending jobs / damages after giving 15 days advance notice to the Contractor if any of the following events occur:

- i. Contractor is adjudged as insolvent.
- ii. Contractor has abandoned the contract.
- iii. Contractor fails to proceed with the work with due diligence as per requirements of the contract.
- iv. Contractor has neglected or failed persistently to observe or perform any of the acts, matters or things, which as per the contract are to be observed and performed by the Contractor.
- v. Contractor repetitively violating the safety norms for more than three incidents.
- vi. Any major contradiction of applicable labour laws.
- vii. Any major deviations from contractual terms and conditions including quality of job.
- viii. GIPCL reserves the right to terminate the contract without giving any reason whatsoever and forfeit the PBG.

## **5. FAILURE & TERMINATION**

If the Contractor after receipt of written notice from the GIPCL/Engineer In-charge requiring compliance, with such further drawings and/or the GIPCL/Engineer In-charge's instructions fails within seven days to comply with the same, the GIPCL/Engineer In-charge may employ and pay other agencies to execute any such work whatsoever as may be necessary to give effect thereto and all costs incurred in connection therewith shall be recoverable from the Contractor by the GIPCL on a certificate by the GIPCL / Engineer In-charge as a debt or may be deducted by him from any money due or to become due to the Contractor.

If the Contractor fails to execute the work or fails to mobilize the resources and equipments as per directions of GIPCL / Engineer In-charge within the time frame given and/or violating the GIPCL's safety rules & regulations, GIPCL / Engineer In-charge shall get the work done by third party at the risk & cost of the Contractor with additional 10% overhead charges plus applicable GST as per extant GST laws and all costs incurred in connection therewith shall be recoverable from the Contractor by the GIPCL / Engineer In-charge as a debt or may be deducted by him from any money due or to become due to the Contractor.

## **6. SETTLEMENT OF DISPUTES**

- a. Any disputes or difference of opinion between parties arising out of the contract to the extent possible shall be settled amicably between the parties. If amicable settlement cannot be reached all the disputed issues shall be resolved through arbitration before a Sole Arbitrator appointed by Managing Director, GIPCL according to the provisions of The Arbitration & Conciliation (Amendment) Act-2019, as amended from time to time. The place of arbitration shall be at Vadodara/ Surat or any other place within state of Gujarat.
- b. Work under the contract shall be continued by the contractor during arbitration proceedings unless GIPCL shall order suspension thereof or any part thereof in writing or unless the matter in such work cannot possibly be continued unless the decision of the Arbitration proceedings is obtained.

## **7. INTERPRETATION OF CLAUSE**

In case of disputes as regards interpretation of any of the clauses or specification, the decision of Chief General Manager (Thermal) will be final and binding on the Contractor.

## **8. EMPLOYEE'S COMPENSATION INSURANCE**

Contractor shall take all risk Insurance Policy to cover all his workmen/employees, staff applicable under the Employee Compensation Act 1923 or any amendment thereof as also insurance cover for third party liability. The Contractor shall keep the GIPCL indemnified from all liabilities arising out of his action in pursuance of this contract. The E.C. Policy should be obtained from Surat jurisdiction and shall be assigned to GIPCL. E.C. Policy should cover the specified contract period.

Contractor shall also obtain additional Off-duty coverage insurance policy for all his workmen.

## **9. STATUTORY REQUIREMENTS**

### **A. COMPLIANCE OF LABOUR LAWS**

The contractor shall at his own cost comply with the provision of labour laws, rules, orders and notifications whether central or state or local as applicable to him or to this contract from time to time. These Acts/Rules include without limitation of the followings:

1. Contractor shall be solely responsible and shall fully comply with all the provisions of all the labour laws applicable such as the Minimum Wages Act, 1948, Contract Labor



- (Regulation & Abolition) Act 1970, Factories Act, 1948, Payment of Bonus Act 1965, Employees Provident Fund and Miscellaneous Provision Act 1952, Industrial Dispute Act 1947, Workmen Compensation Act 1923, Payment of Gratuity 1972, Interstate Migrant Workmen Act 1979, Equal Remuneration Act with Rules, Order and Notifications issued/made there under from time to time.
2. All other Acts, Rules/Bye-Laws, Orders, Notifications etc. present or future applicable to the contractor from time to time for performing the contract job.
- 2.1. The Contractor shall provide and be responsible for payment of Wages, Salaries, Bonus, Social charges, Insurance, Food, Accommodation, Transport, Medical and Canteen facilities and other statutory privileges and facilities to his personnel as per law/rules/regulations and orders of the Central Government, State Government, Local Authorities or other authorities as are in force from time to time. All employees of the Contractor shall be employee of the Contractor.
- 2.2. The contractor shall have a valid license obtained from Licensing Authority under the Contract Labor (Regulation & Abolition) Act-1970 at the time of execution of the contract covering all his employees working at SLPP site and furnish the same failing which GIPCL may terminate the contract at its sole discretion.
- 2.3. The Contractor shall at the time of execution of the contract have EPF Code Number obtained from the Authorities concerned under the Employees Provident & Miscellaneous Provisions Act, 1972 and remit contributions in respect of the employees employed by him at SLPP Site to the P.F office concerned every month failing which GIPCL will recover from the outstanding payment to the contractor from GIPCL.PF code of Gujarat region should be taken.
- 2.4. The Contractor shall maintain all records/registers required to be maintained by him under various labor laws mentioned above and produce the same before the Statutory Authorities whenever required.
- 2.5. The Contractor shall also submit periodical reports / returns to the various statutory authorities such as the Contract Labour (Regulation & Abolition) Act- 1970, Employees Provident Fund Act etc. under intimation to HR&A dept.
- 2.6. The Contractor shall not pay less than the Minimum Wages notified by the Government from time to time to his employees of corresponding categories.
- 2.7. The Contractor shall be responsible for payment of overtime wages to his workmen, if any, in case they are required to work beyond the prescribed hours under law as per applicable rates.
- 2.8. The contractor shall take Workmen Compensation Insurance Policy for all his employees working at GIPCL. The contractor shall indemnify the company against any liability due to any work injury or accident to any of its employees.
- 2.9. The Contractor shall in the event any of his workmen / employee sustains any injury or disablement due to an accident arising out of and in the course of his employment,

- provide necessary medical treatment and pay compensation as applicable, required under the Workmen's Compensation Act, 1923.
- 2.10. If any of the persons engaged by the Contractor misbehave with any of the officials or the Company or commit any misconduct with regard to the property of the Company or suffer from any serious communicable disease, the Contractor shall replace them immediately.
- 2.11. The Contractor shall not engage / employ persons below the age of 18 years. Employment of women shall be strictly according to applicable laws.
- 2.12. GIPCL will have right to deduct and disburse the claims of the individual / parties being a principal employer on any account whatsoever in relation to their employment with the contractor. The Security deposit will be released to the contractor at the end of the contractual tenure subject to an undertaking by the contractor that in the event any of his workmen or the heirs of workmen puts up a claim for recovery of money due to him from the contractor before the appropriate authority under the I. D. Act 1947 or under any other labour laws or for compensation under the Workmen's Compensation Act, 1923 and the appropriate authority has given a direction for making payment the contractor will meet the same or indemnify GIPCL if in the event GIPCL pays it as Principal Employer.
- 2.13. The contractor shall make payment of wages to his employees on fixed date within the period specified under the applicable law, in presence of representative of the company. He will submit a true copy of wage sheet, attendance register and P.F. remitted challan on monthly basis to HR&A dept. for verification and record.
- 2.14. The Contractor shall provide Safety items / kits to his employees such as safety shoes, goggles, ear plugs, hand gloves, safety belts etc. if any, required under the law.
- 2.15. The contractor shall conduct pre-induction and periodic medical checkup of his workmen as per applicable laws.
- 2.16. The contractor shall be solely responsible for any accident caused to his workers and should adhere to all rules / regulations as per labour laws of Government and other statutory laws as applicable.
- 2.17. The contractor should register himself under the Contract Labour Act, Employee Compensation Act and PF Act (Code no. to be mentioned) and submit the copy of registration certificate and should possess the same from the date of commencement of work, failing which the contract is liable to be cancelled. The E.C. Policy copy should be submitted to the GIPCL before commencement of the work and Labour License should be obtained within one week from the date of issue of Form-V. Contractor should apply for Form-V immediately after receipt of LOI. A copy of Labour License shall be submitted to GIPCL, HR&A department.
- 2.18. Contractor shall have to insure his workmen / supervisors etc. under Group Insurance scheme.
- 2.19. The Contractor shall be responsible for compliance of all statutory rules, regulation,

act enforced from time framed by the government such as Factory Act, Employee Compensation Act, payment of 'Wages Act', Minimum Wages Act', Provident Fund Act, All Labour Laws Act in respect of employees engaged by him for the work and shall have to maintain necessary records. In case any amount becomes due to be payable by him to his employees or to the Government under the above rules, regulation, Acts, GIPCL reserves the right to recover the same from the running bill of the contract.

- 2.20. Documentary evidence of deposit of PF paid shall have to be produced by the contractor along with the next bill.
- 2.21. Records as per the provisions of various statutory Acts will have to be maintained by the contractor and submitted as and when required.
- 2.22. All employees of contractor should maintain due discipline and respect local sentiments. GIPCL reserves the right to direct the contractor to remove any such person who does not comply with it.
- 2.23. The list is indicative in nature and not an exhaustive one. Any amendment/ alteration/notifications or addition to the existing law or a new statute shall automatically and immediately become applicable.
- 2.24. Annual Health Check Up: As per statutory requirement, Contractor has to inform workmen deployed at site for annual health check up as per schedule prepared by HR&A department.

## **B. LEGAL ASPECTS**

1. Contractor shall maintain all register required under the Labour Laws and make the payment as per the Minimum Wages Act to the workers employed by him.
2. Contractor shall obtain requisite license to carry out this contract under the provisions of Contract Labour Act, 1970 and maintain necessary records and registers under the said Act.
3. Contractor shall submit a copy of each of the registration certificates with respect to Employees Provident Fund and Employee Compensation Act within one-week time, from the date of award of this contract.
4. Contractor's employees, agent or sub-agent shall not smoke or light anything within the premises of the GIPCL and carry match box / lighter or any other explosive and /or inflammable material inside the plant.
5. Contractor shall abide by all the statutory rules and regulations like P.F., Labour Laws etc.
6. Contractor shall issue an appointment order to each casual workman stating therein the nature of job to be performed by him and fix time for which the concerned workmen are likely to be deployed. Contractor shall also issue a temporary identity card specifying the period for which the workmen has been deployed.

7. Contractor is fully liable for the persons engaged by him for above work; however, GIPCL reserves the right to deduct any amount legally justified towards any liability not fulfilled.
8. Contractor shall indemnify GIPCL from any liabilities arising out of the employment of the manpower.
9. If the Contractor fails to complete the allocated job within specified time frame, GIPCL shall get the work done by third party at the risk and cost of Contractor.

#### **10. PAYMENT OF WAGES**

Contractor shall be responsible for compliance of all statutory rules, regulation, act enforced from time framed by the government such as Factory Act, Employee Compensation Act, payment of 'Wages Act', Minimum Wages Act', Provident Fund Act, Payment of Bonus Act, Labour Law Act, maternity benefit act in respect of employees engaged by him for the work and shall have to maintain necessary records. In case any amount becomes due to be payable by him to his employees or to the Government under the above rules, regulation, Acts.

#### **11. ACCIDENT TO WORKMEN**

Contractor shall be fully responsible for injury or death of any of your or third-party workmen due to any act omission / indiscretion on your part while undertaking the work and Contractor shall fully abide by the statutory requirements of the employee's compensation act. GIPCL shall not be liable for any compensation due to accident, death or injury to any of Contractor's workmen or any third party due to negligence, act or omission on your part.

#### **12. LIGHTING**

Power supply for necessary illumination at works area will be provided by GIPCL. White LED lights, as per requirement, shall be mobilized by Contractor.

#### **13. NIGHT/SUNDAY/HOLIDAY SHIFT**

The Contractor shall depute qualified and adequate resources for working in night shifts, Sundays, holidays etc. for any emergency job.

#### **14. SAFETY ASPECT**

Contractor shall observe all the safety and security rules and regulation of the GIPCL which are at present in force and which may come into force during the pendency of the contract. Any violation of any rules and regulations will entail immediate termination of the contract.

When contractor moves his lifting tools and tackles to the plant area, required test certificates as per the Factory Act 1948 and the state factories rules has to be submitted to Safety dept. Safety dept. will check the certificates and if found okay, then only materials will be allowed to enter inside the plant. Material inward gate pass will be made only after certification from Safety dept. Security dept. will inform to Safety dept., as & when such tools and tackles brought at the gate for making entry in the maintenance site.

The contractor has to submit the list of required safety gears along with safety equipments available with him to Safety dept. Safety dept. will check for quantity and quality of the safety gears and then allowed permission of work. Poor quality material will not be allowed to take inside the Plant. If quantity of required safety equipments is not satisfactory, contractor will not be allowed to carry out the work using such safety gears inside the Plant for the work.

#### **15. GENERAL SAFETY CLAUSES**

1. The Contractor shall observe and comply, with regard to his workmen working at the SLPP site, the safety norms as per the safety operating standards.
2. The Contractor shall ensure that his workmen are informed and trained regarding the safety standards to be adopted while operating within the SLPP Plant & Mines premises and the Contractor shall brief them regarding the same and use of the Personal Protective Equipment ('PPE').
3. The Contractor shall issue safety shoes and safety helmet of IS standard to all his workmen immediately on execution of the work and the contractor shall ensure that his workmen wears the protective equipment at all times during the work operation. Contractor shall issue safety shoes every year. Brand name for safety shoe & safety helmet shall be suggested by safety representative of SLPP site such as:

#### **Helmet:**

Sr. No.	Model	Company	Specifications
1	Tough Hat, HP-TH	Sure Safety	IS: 2925 – 1984, ANSI / ISEA Z89.1-2009
2	V-Gard	MSA	
3	PN 521 - Sheltmet	Karam	

#### **Safety shoes:**

Sr. No.	Model	Company
1	Acme Fabrik Plast Co.	SSTEELE (Strom) – Double Density

2		TRIMAX (Adjacent) – Double Density
3	Favourite Safety Products	Waves Nile D/D
4		FSP Nile DD

4. Other safety gears like ear plug, dust mask, hand gloves, safety goggles, gum boots, full body safety uniform and belts, safety net etc. shall be issued and used as per the job requirements. Safety helmet shall be of Yellow colour only. Contractor will procure safety shoes & safety helmet from a reputed company with at least 12 months' guarantee and shall produce the guarantee certificate and IS standard certificate to the safety department. Contractor should purchase safety shoes of reputed brands. Safety shoes will be issued every year. IS certificate and guarantee certificate must be obtained from the vendor and submitted to the Safety department. Safety shoes should be heat, water, oil and chemical resistant, having an anti-slippery sole of 15298- 2002 make.
5. It is the duty of contractor to ensure that his workmen are wearing required PPEs as per work requirement. Contractor should ensure that their workers are wearing Safety helmet, safety shoes, dust mask, goggles, ear plug etc. at all times when they are at work throughout the contract period. The contractor has to maintain the PPE issue register with signature of workmen.
6. Contractor will reissue these PPEs in case of damage or misplacement of the same. Replacement shall be made immediately. PPEs shall be available for all the persons and all the persons shall be using the same always.
7. The contractor shall be responsible for providing first aid or emergency medical help and treatment to his workmen in the event of any accident or injury.
8. If it is observed that contractor is not issuing required PPEs timely and that of required quality, GIPCL will issue the required PPEs to contract workers and back charge the same with 25% overhead charges of GIPCL.
9. All lifting tools and tackles shall be duly certified by competent person in conformity with the statutory requirements and certificate in form no. 10 as per rule 60 of Gujarat Factories Rules, 1963 and section 29 of the Factories Act, 1948 shall be submitted every year before using such tools and tackles. In case of purchase of new lifting tools and tackles, form no. 10 as per the said rules shall be submitted before they are taken into use. All lifting tools and tackles shall be of reputed make having International manufacturing standard and shall be maintained in proper and workable condition. All lifting tools & tackles and equipment shall be tested as per statutory requirements and valid test certificates are available. Winches, hoists and cranes shall be operated by experienced persons only.
10. The Contractor shall nominate one Safety Officer with required qualification for supervising the daily job/shutdown jobs for observing and maintaining the safety aspects at site. He is solely responsible for any safety measures during maintenance

work. He has to ensure that all the workmen working at site are equipped with essential PPE's and proper safety arrangement is made at the SLPP site.

11. After mobilization of any tools & tackles to site, which includes chain pulley blocks, D-shackles, wire ropes, winch machines, Mobile crane, Hydra etc. shall be offered for inspection with all above statutory test certificate before using at site for any work. They should use all tools and tackles only after certification by GIPCL representative/safety officer.
12. When working at height, working on ceiling or roof covered with fragile materials, full body harness safety belt, ladders and crawling boards shall be used to prevent accident. Further, during working on height, proper scaffolding of still pipes, safety net, full body safety belt, fall arrestor system etc. shall be utilized by Contractor. Advice and instructions of Engineer In-charge/ Safety In-charge shall be strictly complied with in this regard. All necessary safety precautions shall be taken by the contractor to prevent accident and personnel injuries while working on height.
13. All scaffolding pipes, clamps, jallies and associated parts shall be in good condition and safe for usage.
14. Flash back arrestors made of reputed manufacturer shall be provided on cutting torch, on DA cylinders and on O2 cylinder. All gas cutting sets shall be equipped with flash back arresters at both end of the hose pipe of DA and oxygen. All gas cylinders heads are covered with caps and the same shall be required for handling the cylinders at height area. Gas cylinders shall be transferred through gas cylinder trolley only with cylinder cap and stored up right (vertical) position only. All gas cylinders shall be hydro tested / certified as per gas cylinder rules 2004. Gas cylinders shall be stored, handled as per gas cylinder rules 2004.
15. All grinding and cutting machines are equipped with guard.
16. All vehicles shall be operated by licensed drivers only. All vehicles' PUC to be tested as per Government approved RTO guidelines. All Vehicles must be parked in Parking space designated by GIPCL. If any vehicle is found inside the plant premises other than the parking area such vehicles shall be handed over to Security dept. and their entry shall be cancelled for movement inside the plant premises with immediate effect.
17. All electrical equipment shall be in good condition, safe for usage and free from any defect. Electrical tools & equipment i.e. welding machine, grinding and drill machine etc. may be checked by the electrical engineer of the contractors regularly, every six months at least and report to be submitted to concerned HOD and safety depts.
18. All welding machines, hand lamp, grinding machine, extension boards etc. are fitted with ELCB or RCCB and in working condition to prevent electrical shock. ELCB / RCCB shall be provided with rating of 9-30 milli amperes on welding machines and all portable power tools and ELCB/RCCB shall be checked regularly.
19. 24V AC lighting to be used for portable lighting / hand lamp.
20. Extension boards shall be standard industrial boards with male / female sockets.

21. All cables, wires shall be in good conditions and without joints and cut marks and shall be terminated with plugs and applicable insert pins.
22. Electrical related work shall be carried out through qualified & experienced electrician only.
23. During hot work, contractor will use fire curtains like asbestos sheets or fire blankets to prevent falling and spreading of sparks and hot material on and around the work area. Contractor will procure and use such items.
24. The contractor shall fill – up Incident notification form (S-I), Incident Investigation form (S-II) and near miss report within time limit as specified in forms, if any accident, Incident, near miss occurred while working at SLPP site.
25. Contractor shall appoint/nominate one qualified safety officer and he shall be responsible for addressing all the safety related aspects of execution of contract jobs and he will in close co-ordination with safety officer of SLPP and attend all safety related meeting such as safety committee, on job safety training etc. Where the contractual man power is less than 50, the site in charge of the contractor will act as a safety officer and he will perform all the duties of safety officer as mentioned above.
26. No loose connection / joints allowed in electrical cables during performance of any kind of job.
27. Safety shoes to be issued to female employees also.
28. All the vehicles shall be fit as per RTO guidelines and valid fitness certificate is required as per RTO guidelines.
29. The Contractor's nominated safety officer shall be imparted regular on-job safety training like tool-box talk etc. and submit a record of such training in safety dept, respective dept and HR&A dept.
30. Qualified and experienced safety supervisor and electricians, as applicable, shall be available round the clock.
31. The Contractor shall comply all the new requirements related with safety as informed by the HOD / Safety department from time to time.
32. Penalty to be imposed for Violation of safety norms is proposed as follows:

The Contractor & Contract workmen shall strictly adhere to Safety standards / Guidelines as per practices. The list provided below is an indicative list to explain the principles behind safety practice. If the contract workmen fail to comply with safety standards as per category A, B & C below, penalty shall be levied on the contractor as per the table mentioned below:



Category	Classification	Examples / Cases	Penalty
A	PPEs Related	Working without helmet, shoes, safety belts, gloves etc.	Rs. 100/- per instance.
B	WI Related	Failure to adhere to HSE guidelines / plans, careless attitude in material handling, Machine being used with damaged machine guard unsafe electrical work - workout plug top/improper electrical joints/cables lying on ground, electrical equipment working without proper earthing, machine being used without machine guard, Welding machine without ELCB / RCCB of proper rating, Gas cylinder without test certificate, Cylinder cap, NRV / Flash back arrester, Cylinder trolley etc.	<ul style="list-style-type: none"> <li>• Rs. 500 /- per instant.</li> <li>• After three incidences, per incidence Rs. 2,500/-</li> <li>• Continuous unsafe acts will disqualify the Contractor from further participation in tender of GIPCL-SLPP.</li> </ul>
		Unsafe working practices at height more than 3 meters.	
		Working without permit or non-compliance with permit conditions like hot work, height work etc. as applicable, lifting tools and tackles being used without third party inspection certificates in form no. 9/10 as per Factory Act – 1948 etc.	
C	Unsafe Practices	Breach of safe practices by a particular person repeatedly for three times	<ul style="list-style-type: none"> <li>• Suspend the entry gate pass for one week.</li> <li>• After two suspensions his gate pass will be cancelled.</li> </ul>

Penalty so levied against the contractors and company employees will be used during the observation of National Safety Day.

The contractor, workmen following good safety practices in their work area continuously will be rewarded / honored on National safety day.

**16. REJECTION OF WORK:**

If, as a result of inspection, examination or testing, the GIPCL's representative/Engineer In-charge decides that any materials, work or workmanship is defective or otherwise not in accordance with the Contract, GIPCL/Engineer/GIPCL's representative may reject such plant, materials, work or workmanship and shall notify the Contractor promptly, stating his reasons. The Contractor shall then promptly make good the defect and ensure that the rejected item complies with the Contract. If Contractor failed to rectify the rejected work or workmanship, GIPCL/Engineer reserves the right to deduct or withhold amount against rejected work or Workmanship. Contractor shall not entitle for any claim or release of hold payment until rectify the defect up to satisfactory of GIPCL. If Contractor failed to rectify any such defective work or workmanship, GIPCL reserve the right to rectify at risk and cost of the Contractor and deducted by the GIPCL from any amount due, or to become due, to the Contractor's dues.

If GIPCL/Engineer/GIPCL's representative requires such materials, work or workmanship to be retested, the tests shall be repeated under the same terms and conditions. If such rejection and retesting cause the GIPCL additional costs for the traveling and lodging costs of GIPCL/Engineer's personal for attending the retest, such costs shall be recoverable from the Contractor by the GIPCL and may be deducted by the GIPCL from any amount due, or to become due, to the Contractor.

**17. GENERAL TERMS AND CONDITIONS:**

- a. All tools & tackles, labour, equipments, machinery etc. to execute the contract are in the scope of the Contractor. The Contractor should ensure that tools & equipments are in healthy condition.
- b. The decision of the Engineer In-charge shall be final and binding on the Contractor for defining the terms and condition included in this contract.
- c. If the work is not found satisfactory, Engineer In-charge reserves the right to take suitable action.
- d. Contractor shall depute full time independent experienced Site In-charge / Supervisors at site. They shall co-ordinate with GIPCL Engineer In-charge and shall bear overall responsibility of contract including supervision, inspection, billing etc. Such person shall function from site office of contractor at SLPP.
- e. Contractor shall also nominate one safety supervisor at site and shall submit nomination of safety supervisor in writing before commencement of contract. Safety supervisor shall arrange small safety talk on every day morning or whenever required with all workers working under this contract. He shall coordinate with concern department's Engineer In-charge on daily basis and report daily observations, tool-box talk records

- etc. The work shall not be allowed without deploying safety supervisor and a penalty equal to Rs. 1,000/- per day absent of safety supervisor shall be levied from Contractor.
- f. Contractor shall strictly follow the existing work permit system of GIPCL and any future revisions.
  - g. The Contractor has to take EC insurance policy / Off-duty insurance coverage for their workmen. The Contractor has to submit labour license and PF account number to the Engineer-in-charge before start the work.
  - h. The Contractor has to do the job timely. GIPCL shall not compromise in delay. In case of delay of work without any valid reason, GIPCL reserves the rights to carry out the work by deploying other agencies at the risk & cost of Contractor with additional 10% overhead charges plus applicable GST as per extant GST laws.
  - i. Contractor shall mobilize the resources as per the respective mobilization schedules for (i) routine days; (ii) pre-shutdown activities for AOH & (iii) AOH days detailed in Section-D, Clause No. 1. If the Contractor fails to mobilize sufficient resources to complete the job in time, GIPCL will execute the job through other agency at the risk and cost of the Contractor with additional 10% overhead charges plus applicable GST as per extant GST laws.
  - j. The prices / item rates quoted shall remain firm till completion of the contract and any agreed extensions thereafter and shall not be subject to any escalation, idle charges for labour, machinery, overhead expenses etc. due to any reason whatsoever. No price escalation/idle charges shall be entertained due to delay in work on unavailability of work front, unavailability of Contractor's supervisor, violation of safety rules, and unsafe act by any of Contractor's worker, negligence & ignorance of safety & quality instructions of GIPCL Engineer In-charge or any other reason whatsoever.
  - k. Contractor must fulfill all the safety regulations and to take safety measures to avoid hazards. Contractor shall arrange all standard adequate healthy safety PPEs like but not limited to approved quality safety shoes & safety helmets, standard dust masks, safety goggles, etc. as required and shall use exclusively under this contract for all the time during working at specified locations failing which, the Engineer In-charge may hold the work and will take necessary action including penalty as decided. If the Contractor repeatedly violates safety rules/regulations (more than three successive incidents), Engineer In-charge may take necessary action against the Contractor, including appropriate financial penalty and/or termination of contract.
  - l. One or more jobs may be required to be done simultaneously and Contractor shall mobilize additional resources accordingly.
  - m. Timely completion of all jobs and works shall be the essence of this Contract. Contractor should closely monitor each activity and complete the jobs as per the time given by and under the supervision of the Engineer In-charge and shall ensure that sufficient manpower is deployed for the same.

- n. The contractor has to complete the works as per the planning schedule and their respective supervisor has to interact with Engineer In-charge for PTW (Permit to work), work instruction, return of permit etc.
- o. The contractor has to submit daily reports showing work carried out with details of available manpower etc.
- p. Any job other than the listed jobs in work order shall be executed by the Contractor on instruction from GIPCL and payment shall be made to the Contractor on respective item rate only.
- q. The Government of India has enacted the Micro, Small and Medium Enterprises Development Act, 2006 (the "Act") and the Act has come into force from October 2, 2006. The Bidder shall confirm whether your organization is registered under the Micro, Small and Medium Enterprises Development Act, 2006. If your organization is registered under the Act, please specify the category i.e., Micro Enterprise, Small Enterprise or Medium Enterprise under which it is registered and kindly attach a copy of your registration certificate.
- r. The Bidder shall provide details of registration along with copy of the registration certificate issued by the District Industries Centre/Department of Industries, etc of the respective State Government. It is to be noted that large scale industries and trading firms have been excluded from the purview of the Act.
- s. 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/labour work in accordance with them.
- t. All laws, rules, regulations, notifications, etc. stated in this tender document, as amended from time to time shall be applicable. Where applicable self-certified true copies of the required documents to be furnished, unless stated otherwise explicitly.

## **18. CONTRACTOR'S SUPERVISION**

The Contractor shall, during the whole time the work is in progress, employ a qualified experienced Site In-charge of the works with adequate experience in handing of jobs of this nature and with the prior approval of the GIPCL / Engineer In-charge. Such Site In-charge shall be constantly in attendance at the site during working hours. During Contractor's Supervisor's absence during working hours, if unavoidable, and also beyond working hours, when it may be necessary to give directions, orders may be given by the GIPCL / Engineer In-charge and shall be received and obeyed by the Contractor's superintendent who may have charge of the particular part of the work in reference to which orders are given. If requested to do so, the Engineer In-charge / GIPCL shall confirm such orders in writing. Any directions, instructions or notices given by the Engineer In-charge / GIPCL to him, shall be deemed to have been given to the Contractor. The representative of the Contractor shall have all necessary powers to

receive materials from the GIPCL, issue valid receipts for the same, engage labour or purchase materials and proceed with the work as required for speedy execution.

None of the Contractor's Superintendents, Supervisors or workmen should be withdrawn from the work without due notice being given to the GIPCL / Engineer In-charge; further no such withdrawals shall be made if in the opinion of the GIPCL / Engineer In-charge such withdrawals will jeopardize the required pace of progress / successful completion of the work.

The Contractor shall employ in or about execution of the work only such persons as area careful, skilled and experienced in their respective trades, and the GIPCL shall be at liberty to object to and require the Contractor to remove any person employed by the Contractor in or about execution of works who in the opinion of the Engineer misconducts himself or is incompetent or negligent in the proper performance of his duties and all such persons shall not again be employed upon the works without the prior permission of the GIPCL.

Neither the Contractor nor the Engineer shall hire or employ any employee of any other party except by mutual consent.

**19. CONTRACTOR TO REMOVE ALL OFFENSIVE MATTER IMMEDIATELY AND CLEAN-UP:**

All loose materials, wastage, packing materials, cut pieces or other matter of an offensive nature shall not be deposited on the surface, but shall at once be carted away by the Contractor to some pit or place provided by him away from the site of work and approved by local authorities.

As a part of the work included in this contract, the Contractor shall completely remove and satisfactorily dispose of all temporary works to the extent directed. He shall tear down and dispose of all temporary works, shall remove or grade, to the extent directed, all plant and equipment, shall satisfactorily dispose off all rubbish resulting from the operations under this contract and shall do all work necessary to restore the territory embraced within the site of his operations to at least as good order and conditions as at the beginning of the work under this contract.

**20. FACILITIES TO BE PROVIDED BY GIPCL:**

**A.** The company shall provide the following facilities to the Contractor at the site:

- a. Electricity & water at nearest available one point shall be provided. Further distribution to be done by contractor at their cost.
- b. Quarter(s) on chargeable basis in GIPCL township shall be provided for Contractor's

supervisors / engineers only, if available, and at sole discretion of GIPCL.

- c. Hydra for loading, unloading and shifting of materials, equipment, machinery etc. shall be provided on chargeable basis (based on availability). If GIPCL's Hydra is not available, contractor has to arrange on their own as the material shifting as per requirement from GIPCL warehouse up to work site is in contractor's scope.
- d. 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.
- e. Site office shall be provided at site.
- f. First aid facilities as available on chargeable basis.

Apart from the above, no other facilities shall be provided by GIPCL.

- B.** GIPCL shall also conduct an orientation program appraising the workmen regarding the safety norms and measures to be observed during work operations at the plant site.

## **21. WORK MEASUREMENT / CERTIFICATION**

- a. The work to be performed being a specialized nature, the contractor should be fully conversant with modern practices and should be able to carry out works independently of large thermal power plant. The contractor shall therefore be required to engage qualified / experienced personnel to undertake the work as per specifications and requirement.
- b. Contractor should maintain one computer with printer for keeping daily records and maintain the data.
- c. All the work measurements shall be jointly recorded in a measurement sheet/register/relevant documents by the contractor / authorized representative of the contractor and the Engineer In-charge. The measurements shall be clearly written indicating date of measurement, location, reference to drawings, if any, and jointly signed.
- d. The Contractor shall be required to furnish satisfactory job completion report to GIPCL. The submission of report should be on daily basis, the monthly bill payment shall be released based on the certified reports of the works.
- e. 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.

## **22. PUBLIC HOLIDAYS:**

The Contractor shall be responsible for giving benefit to all his employees, employed in

whatsoever capacity, nine (9) public / paid holidays and the same shall be notified in advance and due communication thereof shall be made to the management.

**23. BENEFIT PAYABLE IN CASE OF ACCIDENT OUTSIDE PREMISES OR NOT DURING THE COURSE OF EMPLOYMENT (OFF DUTY COVERAGE):**

The Contractor shall provide an insurance coverage (medical + death benefit) for sum of Rs. 1 Lakh to all his workmen/labour deployed at GIPCL-SLPP site for the accident taking place anywhere outside the Company premises or at any place when the workman is not in course of his employment.

**24. FORCE MAJEURE**

The performance of the obligations herein contemplated may be suspended without incurring the penalty in the event of the subsistence of Force Majeure conditions.

If a Force Majeure situation arises, the affected Party shall promptly notify the other Party in writing of such conditions and the performance shall be suspended as per mutual agreement.

For the purposes of this clause, 'Force Majeure' means an event beyond the control of the Party and not foreseeable by the Party and shall include events of floods, explosions, riots, wars, hurricane, epidemics, any other Act of God, quarantine restrictions, terrorism, government actions and provided always that such acts result in the impossibility of the further performance of the contract.

**25. INDEMNITY**

The Contractor shall indemnify and keep harmless GIPCL from and against all actions, proceedings, claims, demands, losses, costs, damages and expenses whatsoever which may be brought against or suffered by GIPCL which it may sustain, pay or incur as a result of or in connection with the performance / purported performance / non-performance of the contract by the Contractor.

In case, in any litigation pertaining to labour employed through Contractor if any direction or order is issued by court at any point of time the Contractor shall comply with and implement such direction or order whether passed at the time of award of contract or during the pendency of contract. Further, the Contractor shall indemnify the GIPCL against all consequences arising and affecting GIPCL owing to the compliance of the orders by the Contractor.

**26. GOVERNING LAW AND JURISDICTION**

This tender document and contract shall be governed by the laws of India and the Courts at Baroda / Surat shall have jurisdiction regarding the same.

- 27.** Where any portion of the General Condition of Contract is repugnant to or at variance with any provisions of the Special Condition of Contract, then unless a different intention appears, the provision of the Special Conditions of Contract shall prevail to the extent of such repugnancy of variance.

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## **SECTION - D**

### **SPECIAL CONDITIONS OF CONTRACT**

#### **1. DETAILED SCOPE OF WORK**

The technical details of ESPs of Phase-I & Phase-II are as tabulated in Section-A, Clause No. 2: Brief Scope of Work.

**Some of the technical details of ESP internals installed at SLPP is briefed hereunder for reference purpose only. Detailed scope of work as per this tender shall follow subsequently.**

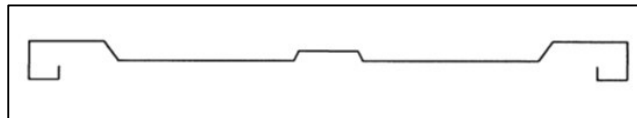
- **Collecting electrode suspension system:**

The collecting plates are made of 1.2 mm 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. Collecting electrodes are provided with slots, which are engaged on the hooks welded on the suspension angles. All the collecting electrodes in a row are held in position by a shock bar at the bottom. The shock bars are spaced by guides.

**The technical specifications for collecting electrodes [for ESP type FAA-6 X 45 (45)-132-135-2] are as specified below:**

- Nominal height of Collecting electrode plate: 13,560 mm
- Nominal width of collecting electrode: 750 mm
- Material of Construction: Corten steel Grade A as per latest BHEL standard for collecting electrode
- Collecting electrode thickness: 1.2 mm (+/- 0.02)

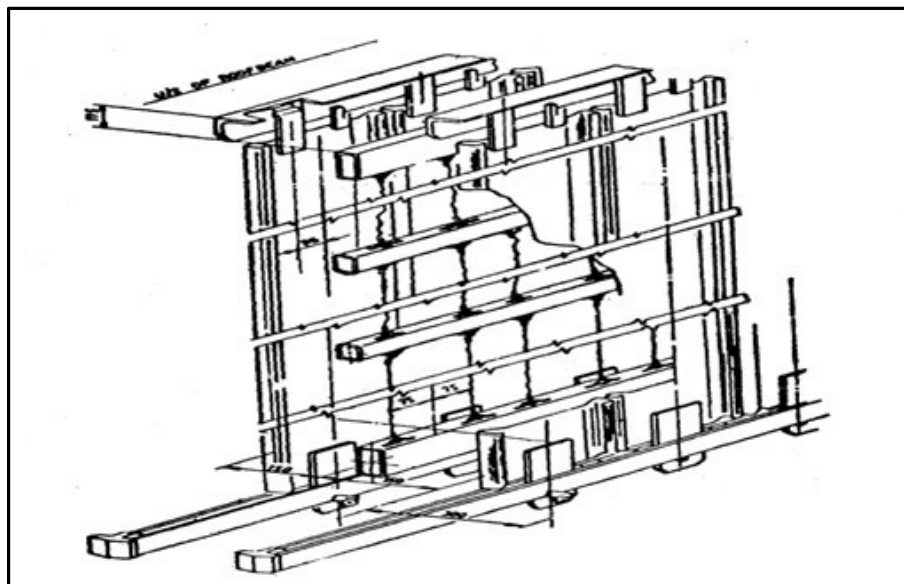
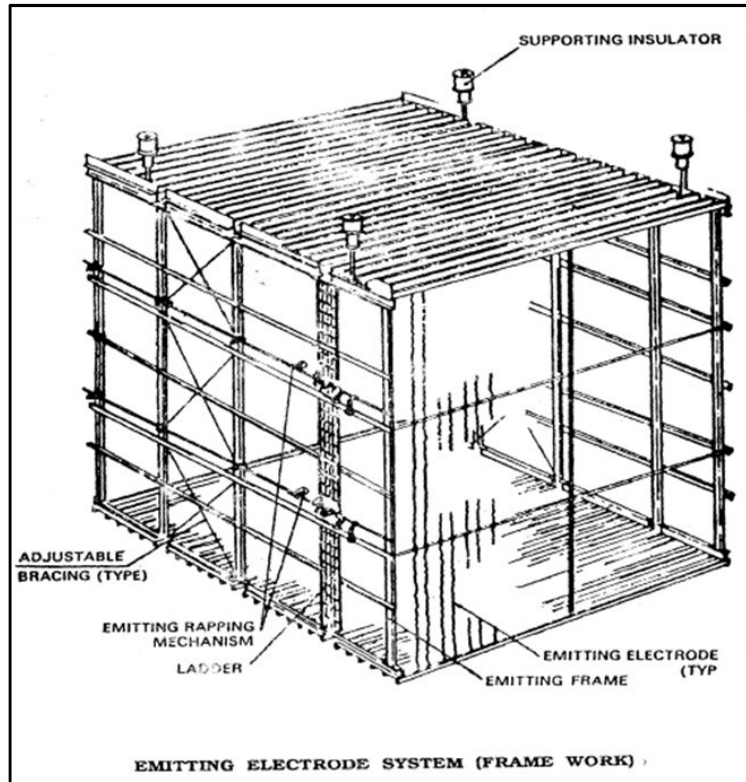
Cross sectional shape for collecting electrode as displayed in figure below:

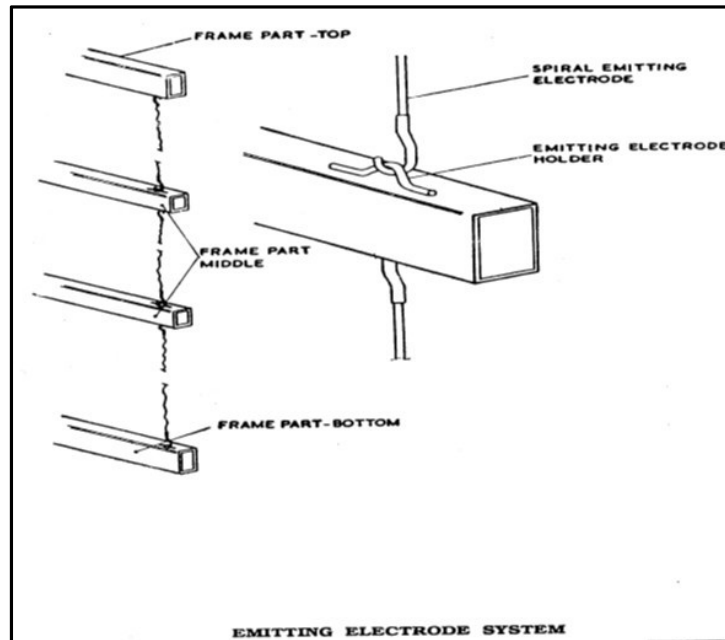


- **Emitting electrode suspension system:**

The most essential part of precipitator is emitting electrode system. This is supported by four insulators. The frames for holding the emitting electrodes are located centrally between

collecting electrode curtains. The entire discharge frames are welded to form a rigid box like structure and the emitting electrodes are affixed between the frames as displayed in following figures:





**The technical specifications of emitting electrodes [for ESP TYPE FAA-6 X 45 (45)-132-135-2] are as specified below:**

- Emitting electrode type: Spiral with hooks
- Emitting electrode size: 2.7 mm dia.
- Emitting electrode material: Stainless steel confirming to UHB 904 L

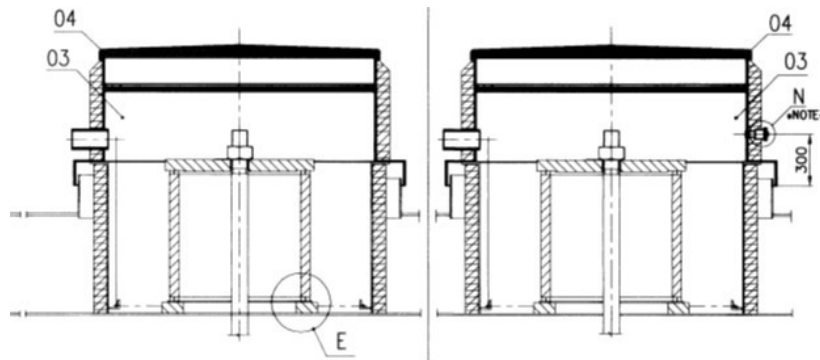
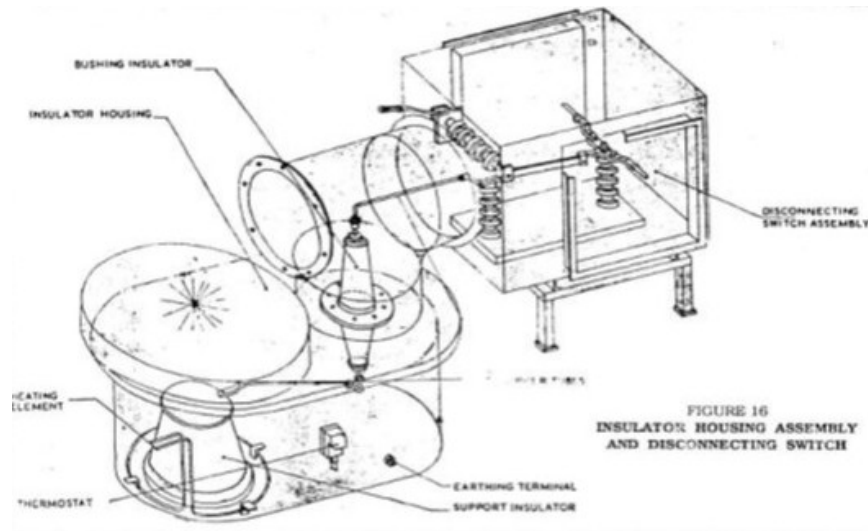
▪ **Rapping systems:**

Rapping systems are provided for collecting and emitting electrodes (CERMs & EERMs). Geared motors drive these rappers. The hammers are positioned at an angular displacement of 210 degree / 195 degree for collecting rapping mechanisms of 300 mm pitch / 400 mm pitch respectively. For the emitting electrode the same is positioned at 240 degree. The rapping system employs tumbling hammers, which are mounted on a horizontal shaft. As the shaft rotates slowly the hammers tumble on to the shock bar/shock beam which transmits the blow to the electrodes. One complete revolution of the rapping shaft will clean the entire field. The rapper programmer decides the frequency of rapping. Rapping frequency chart is given in this manual. The tumbling hammer disposition and the periodicity of rapping are selected in such a way that less than 2 % of the collecting area is rapped at any instance. This avoids re-entertainment of dust and puffing at the stack. The rapping shaft of emitting electrode system is electrically isolated from the geared motor drive by a shaft insulator. The space around the shaft insulator is continuously heated to avoid condensation.

### **Support Insulators & Insulator housings:**

The support insulators, supporting the emitting electrode system are housed in insulator housing. The HV DC connection is taken through a bushing insulator mounted on the insulator-housing wall.

In order to avoid the condensation on the support insulators, each insulator is provided with one electrical heating element. Heating elements of one pass are controlled by one Thermostat.



**The broad scope of work mainly covers the following:**

Work shall be executed in all four Units i.e. Unit-1, 2, 3 & 4 at Surat Lignite Power Plant.

The bid submitted by the bidder not covering the total scope of work and services as detailed out in the tender document shall be liable for rejection.

Broad Scope of Work for successful execution of all the jobs listed in the various parts and clauses of Section-E: Schedule of Quantities and Price shall cover the following:

- [ A ]** Mobilization and maintaining of adequate manpower and resources for execution of ESP casings, hoppers & flue gas ducts (FGD) repair & ESP related routine maintenance (during running Units & forced outages of Units) work in routine days i.e. non-AOH days on Round the year basis.
- [ B ]** Mobilization of additional manpower and resources for pre-shutdown activities prior to AOH & planned outage of any Unit for preparatory work pertaining to ESP casings, hoppers & flue gas ducts (FGD) & repair work.
- [ C ]** Mobilization of additional manpower and resources for extensive repair works to be executed in ESP casings, hoppers & flue gas ducts (FGD) and overhauling of ESP fields i.e. internal maintenance & repairs during AOH and planned outage of any Unit
- [ D ]** Activity wise detailed scope of work as given in Section-E: Schedule of Quantities and Price.

Detailed description of all above is as hereunder:

- [ A ] Mobilization and maintaining of adequate manpower and resources for execution of ESP casings, hoppers & flue gas ducts (FGD) repair & ESP related routine maintenance (during running Units & forced outages of Units) work in routine days i.e. non-AOH days on Round the year basis;**

The scope includes mobilization of necessary manpower (that includes skilled/unskilled workmen, skilled technicians, riggers, execution supervisors, site in-charge etc.) along with necessary tools, tackles etc. for execution of ESP casings, hoppers & flue gas ducts (FGD) repair & ESP related routine maintenance **during running Units & forced outages of Units** work in routine days i.e. non-AOH days. **Adequate manpower and resources shall be mobilized at SLPP site within fifteen (15) days from award of Work Order.**

❖ **Tentative mobilization for routine days i.e. Non-AOH days is as tabulated below:**

Sr. No.	Description	Tender Conditions
1	<b>Mobilization schedule of manpower &amp; resources</b>	Mobilization of manpower and resources within <b>fifteen (15) days of written intimation given by GIPCL's Engineer In-charge</b> for routine day to day work, along with mobilization of additional manpower & resources, if required and as intimated, during forced outages / boiler tube leakages (BTL) of Units, shall be done. The same consists of skilled supervisors, skilled technicians, skilled fitters, skilled riggers, welders, gas cutters and helpers in adequate quantity, to execute the routine jobs within prescribed time schedules. The scope here also includes the mobilization of all materials, consumables (such as welding electrodes, cutting gases, cotton wastes, adhesives etc.), special tools necessary for ESP fields alignment (such as J-bolts, support insulator nut spanners, emitting electrode stretching tools, penthouse sheets fasteners/tools etc.) equipment, tools & tackles, machineries (includes welding machines, gas cutting sets, cutting torches, heating torch etc.), pulley blocks, winch machines, standard industrial safety PPEs etc.
2	<b>Minimum resources to be mobilized</b>	<p>Contractor shall timely mobilize following minimum manpower with requisite skill, experience and knowledge of the work. Deployment of manpower &amp; resources shall be as specified below:</p> <p>❖ <u>Tentative Manpower mobilization:</u></p> <p>Site In charge - 1 No. Site Supervisor – 1 Nos. Safety Supervisor – 1 No. <b>Total administrative staff: 3 Nos. as above</b></p> <p><b>Total workmen of suitable skill set to be mobilized &amp; maintained at site for <u>routine days i.e. non-AOH days</u>: 28 Nos. that includes the following:</b></p> <ul style="list-style-type: none"> <li>• Mechanical teams – having 20 workmen i.e. 3 fitters; 4 welder + 3 gas-cutter + 6 common helper and 4 riggers.</li> <li>• Dedicated manpower for insulation work. – 4 Nos.</li> </ul>

Sr. No.	Description	Tender Conditions
		<ul style="list-style-type: none"> <li>• Mobilized manpower should possess skill sets for erecting scaffolding also.</li> <li>• Among above team, minimum one (1) team to be competent for carryout field internal repair &amp; maintained at site for ESP Internal associated work / PM work.</li> <li>• Additional manpower, if required, for insulation application work / fabrication work / special team to carryout un-foreseen nature of job as per site requirement / as per work instruction.</li> </ul> <p><u>Tentative resources (tools &amp; tackles, equipment etc.) to be mobilized:</u></p> <ul style="list-style-type: none"> <li>• Minimum five (5) welding machines, three (3) welding electrode oven along with all other required/instructed accessories including cable/wire length of around 60 meter per welding machine, holders/short cables etc.</li> <li>• Minimum five (5) Cutting set along with all other required/instructed accessories including acetylene/oxygen hose of around 60 + 60 meter per cutting set, flashback arresters per set etc.</li> <li>• Minimum three (4) Nos. Grinding machine with consumables.</li> <li>• Scaffolding material: Equivalent to closed cubical of minimum 3,000 m<sup>3</sup> or as mentioned elsewhere in the tender document.</li> <li>• 4 sets of all applicable tools &amp; tackles like spanners / measure tapes etc.</li> <li>• Common lifting &amp; shifting tools &amp; tackles required to carry out the job.</li> </ul> <p><b>Important Note:</b></p> <ol style="list-style-type: none"> <li>1. The above figures are purely tentative &amp; minimum, which shall be mobilized at site for round the year work execution. It is to be noted that deputation of above referred resources does not relieve contractor from their responsibility of completing the work within prescribed time schedule in all respects. If actual work progress as well as deputed manpower is not adequate to match the prescribed completion schedule, then in such case, contractor has to augment additional resources (manpower + tools &amp; tackles /</li> </ol>

Sr. No.	Description	Tender Conditions
		<p>equipment) so as to complete the work within prescribed time schedule without any delay.</p> <p>2. GIPCL reserves the right to take suitable actions in line with terms and conditions of tender / work order in case contractor fails to take necessary actions to make up the delay OR not responding to GIPCL's instruction in this regard. This will be treated as failure of contractor to perform and GIPCL reserves right to get the balance work done with other available agency at the risk and cost of contractors as per terms and condition of this tender.</p>
3	<b>Accommodation for manpower</b>	Accommodation of contractor's workmen shall not be provided / allowed in the plant premises. Contractor has to make their own arrangement for the accommodation and conveyance of their manpower.

**[ B ] Mobilization of additional manpower and resources for pre-shutdown activities prior to AOH & planned outage of any Unit for preparatory work pertaining to ESP casings, hoppers & flue gas ducts (FGD) repair work.**

Pre-shutdown activities includes:

- Supply and shifting of adequate quantity of scaffolding associated material like pipes, jallies, plank sheets, jack, clamps, ladders, toe guards etc. and any other material which is not mentioned here but required to complete scaffolding in all respect to site. All required scaffolding material will be in the scope of contractor.
- Erection of safe scaffolding at different locations ESP casings, hoppers & flue gas ducts inside or outside from APH outlet to chimney inlet ducts as per instruction of Engineer In-charge and safety guidelines of GIPCL.
- Removal of insulation from ESP casings, hoppers & flue gas ducts from APH outlet to chimney inlet ducts as directed by Engineer In-charge.
- Shifting of Corten steel plates / MS plates / chequered plates etc. and other heavy / structural materials from GIPCL warehouse up to ESP area of respective Unit undergoing in AOH or planned outage.
- Clean & complete the housekeeping of the area. Remove all the accumulated scrap including insulation wool scrap & transport it to the scrap yard / mines pit as per instructed by Engineer In-charge. **Hydra/tractor/any other vehicle arrangement for the same shall be in contractor's scope.**



Tentative mobilization for pre-shutdown activities prior to AOH & Planned Outage of any Unit is as tabulated below:

Sr. No.	Description	Tender Conditions
1	<b>Mobilization schedule of manpower &amp; resources</b>	Mobilization of manpower and resources within <b>seven (7) days of written intimation given by GIPCL's Engineer In-charge</b> . <u>Pre-shutdown activities shall be initiated minimum 15 days prior to commencement of AOH.</u> The same consists of skilled supervisors, skilled technicians, skilled fitters, skilled riggers, welders, gas cutters and helpers in adequate quantity to execute the pre-shut down activities, mainly materials shifting from warehouse, scaffolding material shifting and erection of scaffolding in all respects, removal of insulation as directed by GIPCL Engineer In-charge etc. before commencement of AOH & planned outage. The scope here also includes the mobilization of all materials & consumables to be utilized during AOH that includes additional scaffolding related material, additional consumables (such as welding electrodes, cutting gases, cotton wastes, adhesives etc.), additional tools & tackles, additional equipment & machinery (such as welding machines, gas cutting sets, cutting torches, heating torch etc.), additional pulley blocks & winch machines, standard industrial safety PPEs and special tools necessary for ESP fields alignment (such as J-bolts, support insulator nut spanners, emitting electrode stretching tools, penthouse sheets fasteners/tools etc.).
2	<b>Minimum resources to be mobilized</b>	Contractor shall timely mobilize the following minimum manpower (with requisite skill set, experience and knowledge of the work) and resources:  ❖ <u>Tentative additional manpower mobilization for pre-shutdown activities:</u>  Site Supervisor – 1 Nos.

Sr. No.	Description	Tender Conditions
		<p><b>Total workmen of suitable skill set to be mobilized for <u>pre-shutdown activities</u>: 20 Nos. that includes the following:</b></p> <ul style="list-style-type: none"> <li>Two (2) teams – each having 10 workmen i.e. 1 fitter; 1 welder; 1 gas-cutter and 7 nos. comprising helpers, riggers &amp; scaffolders.</li> </ul> <p><u>Tentative additional resources to be mobilized for pre-shutdown activities:</u></p> <ul style="list-style-type: none"> <li>Additional scaffolding material: Equivalent to close cubical of minimum 10,000 m<sup>3</sup> or as per requirement.</li> <li>Common lifting &amp; shifting tools &amp; tackles required to carry out the job.</li> </ul> <p>➤ GIPCL reserves the right to take suitable actions in line with terms and conditions of tender / work order in case contractor fails to take necessary actions to make up the delay OR not responding to GIPCL's instruction in this regard. This will be treated as failure of contractor to perform and GIPCL reserves right to get the balance work done with other available agency at the risk and cost of contractors as per terms and condition of this tender.</p>
<b>3</b>	<b>Accommodation for manpower</b>	Accommodation of contractor's workmen shall not be provided / allowed in the plant premises. Contractor has to make their own arrangement for the accommodation and conveyance of their manpower.

**[ C ] Mobilization of additional manpower and resources for extensive repair works to be executed in ESP casings, hoppers & flue gas ducts (FGD) and overhauling of ESP fields i.e. internal maintenance & repairs during AOH and planned outage of any Unit**

The scope here includes:

- Mobilization of necessary manpower (that includes skilled/unskilled workmen, skilled technicians, riggers, execution supervisors, site in-charge etc.) along with necessary tools, tackles etc. to execute extensive repair works to be executed in ESP casings, hoppers &

flue gas ducts (FGD) and overhauling of ESP fields i.e. internal maintenance & repairs during AOH and planned outage of any Unit. Mobilization of manpower and resources for AOH/ planned outage activity shall be done minimum two (2) days prior to commencement of respective Unit AOH. Accordingly written intimation for additional manpower mobilization will be given by GIPCL's Engineer In-charge well in advance in line with pre-shutdown activities mobilization.

- It also consists skilled supervisor, skilled technicians, riggers, welders, gas cutters and helper in sufficient quantity to complete the work within given time schedule.
- It may include the mobilization of telescopic crane of suitable load bearing capacity, suitable boom length and suitable radius as per site requirement (if at all necessary and as planned during the pre-shutdown meetings). The route for travelling of crane within plant etc. shall be predefined and corrective action to clear the path shall be carry out by contractor. Hiring of telescopic crane shall be in scope of contractor.
- Supply and shifting of adequate quantity of scaffolding associated material like pipes, jallies, plank sheets, jack, clamps, ladders, toe guards etc. and any other material which is not mentioned here but required to complete scaffolding in all respect to site. All required scaffolding material will be in the scope of contractor.
- Erection of safe scaffolding at different locations ESP casings, hoppers & flue gas ducts inside or outside from APH outlet to chimney inlet ducts as per instruction of Engineer In-charge and safety guidelines of GIPCL.

Tentative mobilization for AOH period & for planned outage is as tabulated below:

Sr. No.	Description	Tender Conditions
1	<b>Mobilization schedule of manpower &amp; resources</b>	Additional adequate manpower and resources shall be mobilized minimum two (2) days prior to commencement of AOH/planned outage of respective Unit, to meet the total requirement of minimum 64 + 4 = 68 Nos. manpower in total (this includes manpower already mobilized for pre-shutdown activities). <b>Manpower &amp; resources mobilized at site for routine days i.e. non-AOH days shall not be deputed for AOH/ Planned outage work. Manpower for routine work shall be engaged for routine maintenance of running unit only.</b> If required and as planned during the pre-shut down meetings looking to the assessment of jobs during AOHs, additional manpower & resources may have to be augmented.

Sr. No.	Description	Tender Conditions
		<p>Mobilization here also comprises of skilled supervisors, skilled technicians, skilled fitters, skilled riggers, welders, gas cutters and helpers in adequate quantity, to execute the AOH jobs within prescribed time schedules of AOHs/planned outages. The scope here also includes the additional mobilization of all materials, consumables (such as welding electrodes, cutting gases, cotton wastes, adhesives etc.), special tools necessary for ESP fields alignment (such as J-bolts, support insulator nut spanners, emitting electrode stretching tools, etc.), additional tools &amp; tackles, additional equipment &amp; machineries (includes welding machines, gas cutting sets, cutting torches, heating torch etc.), additional pulley blocks &amp; winch machines, standard industrial safety PPEs etc.</p>
2	<p><b>Minimum resources to be mobilized</b></p>	<p>Contractor shall timely mobilize the following minimum manpower (with requisite skill set, experience and knowledge of the work) and resources:</p> <p>❖ <u>Manpower mobilization and/or to be maintained at site during AOH (tentative):</u></p> <p>Site In charge - 1 No.  Site Supervisors – 4 Nos. (3 Nos.-Day shift &amp; 1 No.-Night shift)  Safety Supervisor – 2 Nos. (1 No.-Day shift &amp; 1 No.-Night shift)  <b>Total administrative staff: 7 Nos. as above for AOH &amp; Planned outage period.</b>  <b>Total minimum workmen of suitable skill set to be mobilized &amp; maintained at site for <u>AOH/ planned outage activities</u>: 64 + 4 Nos. that includes the follows:</b></p> <ul style="list-style-type: none"> <li>• Eight (8) mechanical teams – each having 8 workmen i.e. 1 fitter; 2 welder + 1 gas-cutter + 2 common helper and 2 rigger which possesses skill sets for erecting scaffolding also.</li> <li>• Dedicated manpower for insulation work – 4 Nos.</li> <li>• Additional manpower, if required, for insulation application work / fabrication work / special team to</li> </ul>

Sr. No.	Description	Tender Conditions
		<p>carryout un-foreseen nature of job as per site requirement / as per work instruction.</p> <p><u>Resources (tools &amp; tackles, equipment etc.) to be mobilized and/or maintained at site during AOH (teantative):</u></p> <ul style="list-style-type: none"> <li>• Minimum fourteen (14) welding machines, four (4) welding electrode oven along with all other required/instructed accessories including cable/wire length of around 60 meter per welding machine, holders/short cables etc.</li> <li>• Minimum eight (8) cutting sets along with all other required/instructed accessories including acetylene/oxygen hose of around 60 + 60 meter per cutting set, flashback arresters per set etc.</li> <li>• Minimum four (4) Nos. grinding machines with consumables.</li> <li>• Additional scaffolding material equivalent to closed cubical of minimum 10,000 m<sup>3</sup> shall be available at site at any point of time for erection during pre-shutdown activities / during AOH.</li> <li>• 4 sets of all applicable tools &amp; tackles like spanners/measure tapes etc.</li> <li>• Common lifting &amp; shifting tools &amp; tackles required to carry out the job.</li> </ul> <p><b>Important Note:</b></p> <p>1. The above figures are purely tentative and minimum, which shall be mobilized at site for work execution during AOH days. It is to be noted that deputation of above referred resources does not relieve contractor from their responsibility of completing the work within prescribed time schedule in all respects. If actual work progress as well as deputed manpower is not adequate to match the prescribed completion schedule, then in such case,</p>

Sr. No.	Description	Tender Conditions
		<p>contractor has to augment additional resources (manpower + tools &amp; tackles / equipment) so as to complete the work within prescribed time schedule without any delay.</p> <p>2. GIPCL reserves the right to take suitable actions in line with terms and conditions of tender / work order in case contractor fails to take necessary actions to make up the delay OR not responding to GIPCL's instruction in this regard. This will be treated as failure of contractor to perform and GIPCL reserves right to get the balance work done with other available agency at the risk and cost of contractors as per terms and condition of this tender.</p>
3	<b>Accommodation for manpower</b>	Accommodation of contractor's workmen shall not be provided / allowed in the plant premises. Contractor has to make their own arrangement for the accommodation and conveyance of their manpower.

**Common Notes related to mobilization & scaffolding as per above:**

- Each workmen team shall be formed based on the skill matrix & competency for specified work execution as per the scope of work for this tender. Supervisory staff deputed at site shall be skilful and competent with the total scope of work as per this tender.
- Each Teams detail (Name, Skill possessed i.e. Fitter, Welder, Cutter, Grinder, Rigger/s, Helper/s, working location, work progress w.r.t. previous day work, Nos. of tools & tackles issued by contractor i.e. Gas cutting set, welding machines, Grinder machines, Chain pulley block, etc.) to be submitted on daily basis to GIPCL EIC deputed for respective jobs/locations.
- Various jobs such as, but not limited to, scaffolding erection, dismantling and associated work; Lifting & shifting of plates/structural elements through lifting/ shifting tools & tackles like chain blocks, winch machines; Insulation removal and re-application work, air ingress exploration work; welding and associated work; measurements & edge preparation of plates & structural materials; internal inspection of ESP fields and subsequent correction/rectification/repair/replacement etc. of ESP internals for restoration of ESP fields during forced outages, AOHs & planned outages; ESP fields interlocking arrangement by keys etc. shall be needed to be executed as a part of scope of this tender and the workmen deployed shall possess specific skill sets for the same.

**Penalty in case of inadequate mobilization of manpower & resources:** Contractor shall mobilize adequate manpower and resources as mentioned above within stipulated time as intimated by GIPCL's Engineer In-charge. In case of delay in the mobilization of adequate manpower & resources beyond stipulated time as decided during pre-shutdown meetings, then penalty of **Rs. 500/- per day per workmen** and **Rs. 1000/- per day per Supervisor** shall be deducted from the RA bill of respective Unit.

- Tentative quantity pertaining to 3000 m<sup>3</sup> [closes cubical equivalent] to be maintained round the year at site:

6-meter length pipe: 480 Nos.	Clamp (Fix): 1280 Nos.
3-meter length pipe: 360 Nos.	Jallies: 160 Nos.
Clamp (Movable): 480 Nos.	Ladder: 20 Nos.

- Monthly verification of scaffolding materials/welding machines/Cutting set/Hose pipes/ other tools & tackles etc. may be carried out by GIPCL Engineer In-charge.
- GIPCL may scrutinize/screen manpower/site supervisor/site in-charge/safety supervisor etc. based on their skill/competency/experience/suitability to carry out the work specified. In case of any discrepancy w.r.t. skill/competency/experience/ suitability etc., it will be intimated and contractor needs to initiate corrective action in due course of time.

**[ D ] Item wise details for the following parts of scope of work as per Section-E: Schedule of Quantities and Price:**

Sr. No.	Part & Description
1	Part 1 - Flue gas path repair/ replacement/ Correction activity including insulation
2	Part 2 - ESP Maintenance / Servicing / Repair / Replacement of internals including inspection
3	Part 3 - ESP O&M Activity/ Routine external maintenance
4	Part 4 - Fabrication Activity
5	Part 5 - For execution of work not covered in Parts 1 to 4 (Un-foreseen jobs)

❖ **Part 1 - Flue gas path repair/ replacement/ Correction activity including insulation**

**Summary:**

Clause	Clause Description	Sub Clause	Sub Clause Description	UOM
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. Up to 12mtr. Close cubical size only & Actual height irrespective of length of pipe.	---	up to 12m	m <sup>3</sup>
2	--- Do --- but for height 12 m to 25 m in above clause AND at CERM Floor. Close cubical size only & Actual height irrespective of length of pipe	---	CERM FLOOR & 12m to 25 m	m <sup>3</sup>
3	Provide scaffolding material, erection and dismantling of scaffolding inside ducts and hoppers in all four units. Close cubical size only & Actual height irrespective of length of pipe	---	---	m <sup>3</sup>
4	Provide scaffolding material, erection and dismantling of scaffolding for MEJ/NMEJ and miscellaneous work at outside area in all four units. Close cubical size only & Actual height irrespective of length of pipe	4.1	up to 12m	m <sup>3</sup>
		4.2	12 to 25m	m <sup>3</sup>
5	Removal & re-application of hot insulation with cladding sheet on ducting / ESP casing / hoppers etc. in Unit-1 to 4	---	---	m <sup>2</sup>
6	Shifting of MS Plate/ Corten steel plate/ Structure from ware house to various location within Plant, Cutting, Preparation, Lifting & Fitting / Alignment + complete Welding in all respect + Painting.	6.1	up to 15m	MT
		6.2	15m to 25m	
		6.3	Inside Hopper/Duct	
7	Dismantling existing plates and structure / stiffener & Scrapping Charges (based on actual weighment slip submission during removal of scrap)	---	---	MT
8	Dismantling & Scrapping the damaged field internals of complete ESP fields in Unit-1 or 4 as directed by EIC	---	---	per Field
9	Welding Per Single Pass per One meter	9.1	with 3.15 mm 6013 Electrode	meter
		9.2	with 3.15 mm 7018 Electrode	
10	Anti-corrosive Painting	---	---	m <sup>2</sup>



11	Opening / Closing of MHD Clamp Type	11.1	Clamp Type	No.
		11.2	Flange Type	No
12	Installation of non-metallic expansion joints (NMEJ) on existing metallic expansion joints (MEJ)	---	---	Mtr.
13	Cleaning Activity / Removal activity Fly Ash & Debris of corroded steel accumulated.	---	---	Per MP Per Day

### **Detailed Scope of Work for Part-1**

**P1.1: 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. Up to 12mtr. Close cubical size only & Actual height irrespective of length of pipe:**

- Maximum Height: From ground level up to 12-meter elevation as per instruction given by engineer in charge.
- Maximum Length: Length of ESP is approximately 52 meters for Phase-2 and 46 meters for Phase-1.
- Width: Width to be select considering safe aspect of scaffolding unit required for working at height and location of work.
- Proper ladder to be provided to reach platform.
- 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.
- Unit of measurement: Based on close 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.
- Scaffolding erected without ladder & Hand railing subject to deduction of 20% quantity.
- Scaffolding retention period is as per work requirement/work progress in each unit.
- Scaffolding material along with required accessories will be in the scope of contractor.

**P1.2: 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. (12 m to 25 m). Close cubical size only & Actual height irrespective of length of pipe:**

**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 [CERM Floor]. Close cubical size only & Actual height irrespective of length of pipe:**

- Maximum Height: From ground level up to 25-meter elevation, from CRM floor as per instruction given by engineer in charge.
- Maximum Length: Length of ESP is approximately 52 meters for Phase-2 and 46 meters for Phase-1.
- Width: Width to be select considering safe aspect of scaffolding unit required for working at height and location of work.
- Proper ladder to be provided to reach platform.
- 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.
- Unit of measurement: Based on close 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
- Scaffolding erected without ladder & Hand railing subject to deduction of 20% quantity.
- Scaffolding retention period is as per work requirement in each unit.
- Scaffolding material along with required accessories will be in the scope of contractor.

**P1.3: Provide scaffolding material, erection and dismantling of scaffolding inside ducts and hoppers in all four units. Close cubical size only & Actual height irrespective of length of pipe:**

- 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.)
- Unit of measurement: Based on close 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.
- Proper ladder to be provided to reach platform.
- Platform: Safe Platform to be provided including railing for attending air ingress / air leakage to identify or to repair flue gas path.
- Scaffolding retention period is as per work requirement in each unit.
- Work to be executed inside Flue gas path and ESP shall be carried out by the party within prescribed time limit of AOH/Short Shutdown + BTL.
- Scaffolding material along with required accessories will be in the scope of contractor.

**P1.4: Provide scaffolding material, erection and dismantling of scaffolding for MEJ/NMEJ and miscellaneous work at outside area in all four units. Close cubical size only & Actual height irrespective of length of pipe:**

- 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.)
- 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.
- Proper ladder to be provided to reach platform.
- Platform: Safe Platform to be provided including railing for attending air ingress / air leakage to identify or to repair flue gas path.
- Scaffolding erected without ladder & Hand railing subject to deduction of 20% quantity.
- Scaffolding material along with required accessories will be in the scope of contractor.
- Applicable for following sub-clauses:

Sub Clause	Clause Description
4.1	up to 12
4.2	12 to 24

- Contractor 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. Scaffolding shall be retained at site at least for 10 days incase work front is not available due to due to non-availability of front due to Load Revision / Outage Planning & spare Material.

**P1.5: Removal & re-application of hot insulation with cladding sheet on ducting / ESP casing / hoppers etc. in Unit-1 to 4:**

It includes mobilization of manpower along with necessary tools & tackles. Contractor has to mobilize sufficient quantity of scaffolding materials, drilling machine (either pneumatic or electrical), cutter, welding machine, cutting set, material shifting and lifting arrangements, cleaning equipment etc. for the hot insulation application and repairing work. It also includes mobilization of necessary consumables etc. required for the operation of pneumatic machine, electric machine, welding electrodes etc. Party has to mobilize sufficient tools & tackles with a backup arrangement for breakdown of any machine.

Contractor has to arrange skilled, semiskilled and unskilled manpower, technician for carrying out Insulation application/ repair work. Contractor has to mobilize all necessary safety equipment, PPEs etc. required for carrying out the Insulation works at site as:

- Remove the insulation cladding & mineral wool.
- 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 and should prevent rain water ingress.

- Thickness of insulation is 50 mm having density 100 kg/cu. Meter.
- Removal of the damaged Hot Insulation by manual chipping / cutting depending upon the requirement either up to lines or ducts or headers or other area etc. and removal of old insulation rod by grinding and cleaning the same.
- Care should be taken to avoid any damage to duct or line or header etc... while removing, repairing and application the Hot Insulation.
- Thoroughly cleaning of the shell plate, duct, pipe line and other area shall be carried out by grinding/chipping and to be offered for inspection to EIC.
- Shifting of dismantled Insulation scrap to ground floor & at temporary scrap yard area marked by EIC. From temporary scrap yard scrap is to be shifted to scrap yard/ mine pit as per instructions of EIC within 5 to 10 Km radius within three days after completion of works. 5% of the application amount will be hold unit wise till site is not cleared.
- Contractor has to shift Insulation material and other all material from ware house.
- Ensure proper surface preparation and weld the rod with suitable welding rod at suitable distance. Cross check/inspect jointly with EIC. (Recommended welding electrodes Advani/D & H/Oerlikons, ESAB, L&T).
- Paint the rods and retainers with black bituminous paints. Apply insulation as per drawing provided by GIPCL or as per instruction from EIC.
- Contractor has to execute the work and submit the report to GIPCL.
- The scope of work also includes the erection of temporary supports, required scaffolding, platform and lifting arrangements for hot Insulation application / repair works as per the site requirements. No separate payment will be done on this account.
- The estimated quantity of hot Insulation application/ repair as per Price / Qty Schedule.
- Contractor has to make joint protocol with detail report. Detail report shall indicate the areas of hot Insulation application/repair along with sketches & material specifications. Party has to submit this detail report along with the invoice. This is mandatory; it is to be attached along with invoice for processing.
- The payment will be done as per actual execution of quantity.
- Contractor has to dump the insulation wool in scrap yard/designated location as per GIPCL Engineer In-charge immediately after removal within 5 to 10 Km radius within three days after completion of works. The insulation scrap wool is to be collected in Gunny Bags & bags are to be packed so that wool scrap will not spread. Gunny Bag/ adequate arrangement in contractor scope. This is an environmental hazard.

**P1.6: Shifting of MS Plate/Corten steel plate/Chequered plate/Structure from ware house to various location within plant, cutting, preparation, fabrication as per requirement, lifting & fitting/alignment + complete welding in all respect + painting:**

**Shifting:**

- It includes shifting of plates and structure/stiffener from stores including pre-assembly/ assembly.

- Material Issue voucher to be collect from GIPCL E-I-C.
- Shifting of raw material from GIPCL store will be in Vendor scope. Hydra/vehicle for shifting is in contractors' scope. However, GIPCL Hydra shall be provided on chargeable basis for shifting of MS Plates, Corten steel plates subject to availability for loading/unloading and discretionary power of Engineer In-charge.
- Contractor has to arrange vehicle at their cost for transfer of steel structure, Stiffener, Assembly, Pre-Assembly insulation from warehouse to site.
- Watch and ward of steel is in contractor's scope once issued to contractor.
- 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.
- Actual work will be checked in MT on measurement basis and accordingly steel will be reconciled.
- At the end of every month, contractor 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.
- Sometime GIPCL directly unload the material at junction point (maximum 4) within site itself in line with contractor's requirement. In such a case no payment given w.r.t. shifting as no resources of contractor used in unloading process.
- Above provision is only for MS Plate/ Structure/ Stiffener / Assembly / Pre-Assembly only and not for fastener / NMEJ fabric/ Insulation & its accessories etc. where hydra not required.

**Cutting, preparation, fabrication as per requirement, lifting & fitting/alignment + complete welding in all respect + Painting:**

- After unloading of plates and structure/stiffener from stores in line with associated Clause above, plates and structure/stiffener,
- Cut/Prepare at ground floor before erection of new plate / pre-assembly / assembly/ structure/stiffener.
- Open the manholes of duct as per clause 11 and inspect /asses before preparing plate/stiffener/ structure.
- 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 in line with scaffolding clauses mentioned above.
- Prepare the steel plate with proper edge preparation i.e. after cutting of desire dimensions, grinding to be compulsory done at all the edges and remove cutting spatter from all edges. As per instructions of Engineer I/C; cut the damaged duct plates & erection of new plate.

- Removal to be done of rust, oil, moisture, paint at least 25 to 30 mm from weld area.
- Correct fit up and alignment to be done with L-key fixtures.
- Welding to be done in two pass manner i.e. root pass (for penetration & sealing) & Final pass (for strength, profile & durability).
- Welding is to be done by certified welders or approved welder by GIPCL only. Contractor has to submit Welder competency certificate to GIPCL working and present at site.
- Carry out the welding on all four sides of the new plate. Welding quality to be ensure.
- Post welding, total slag to be remove and inspect the welding quality. Welding to be on respective area, irrespective of number of run until required strength & sealing achieved.
- Leak proof, gas tight Welding to be done which should be free from any cracks, porosity and lack of fusion.
- 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.
- Welding electrodes of pre heated AWS 7018/6013 electrodes to be used for fitting/Alignment and erection work (ADOR, L&T, ESSAB, D&H MAKE and ADVANI only). Approval of electrode taken before use.
- 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.
- It is to be ensure while cutting / Preparing the plate to be patch up / replace that edge to be match with cut/removed casing maximum extent possible and small element like fins/rod welding to adjust fitting/aligning plate need to be avoid.
- Prepared plates are properly clean by wire brush / buffing before painting.
- One coat of red oxide primer with one coat of synthetic anticorrosive paint to be applied as per instruction of GIPCL engineer. Paint & thinner shall be provided by GIPCL. Required wire brush, paint brush, painting roller will be in contractors' scope.
- If required, replace the duct stiffeners of ISMC.
- Close the all manholes & tighten it as per applicable clause.
- Carry out the air test; rectify the defects noted in air test & reapply insulation (i.e. mineral wool & sheeting) in line with applicable Clause.
- The duct plate, bracing pipe, ISA, ISMC or ISMB material is of standard make supply by GIPCL.
- Area supervisor has to ensure that work area is free of fire hazard during and after completion of work.
- Contractor has to make joint protocol with detail report. Detail report shall indicate the areas of plate replacement/repair/patch up along with sketches & material specifications. Party has to submit this detail report along with the invoice. This is mandatory; it is to be attached along with invoice for processing.
- 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).

- Safety net to be used wherever required, while erection to avoid fall of person / object. (Safety net shall be in the scope of contractor).
- All safety measures are to be followed while erection of the structures/ plates /assembly / pre-assembly.
- Applicable for following sub-clauses:

Sub Clause	Clause Description
6.1	Cutting, Preparation, fabrication as per requirement, lifting & fitting / alignment + complete welding in all respect + painting of plates and structure/stiffener <b>up to 15m</b>
6.2	---- Do---- but <b>from 15 m up to 25m</b>
6.3	---- Do---- but <b>inside hoppers &amp; ducts</b>

**P1.7: Dismantling existing plates and structure / stiffener & disposal of scrap (based on actual weighment slip submission during removal of scrap):**

- During carrying out Patch-up and subsequent welding of Flue gas ducts casing including plates and structure/stiffener some time or in line with work instruction of GIPCL E-I-C, Existing casing element need to cut/grouse/finish and remove it from its location.
- Contractor need to arrange cutting set at respective location/Height.
- Scaffolding to be erect to approach work location in line with scaffolding clause.
- Contractor need to secure element to be cut and remove in such a way that it not falls downward on completion of cutting.
- Cutter and supporting staff need to wear all required safety PPEs along with safety belt and safety belt need to clamp/hinge with safety belt retainer element.
- Arrangement for safety belt retainer element to be done suitably at location.
- If required safety barricade arrangement below cutting area to be arrange.
- Contractor needs to comply all safety norms for working at height.
- Transfer removed element to ground floor in controlled/safe manner.
- Collect it to provisional scrap location prescribed by GIPCL E-I-C nearby.
- Fill Scrap note, specified scrap type to be transfer to scrap yard.
- Sign scrap note from GIPCL EIC, Process it through HOD of department.
- Approach to warehouse/store department for collecting instruction regarding finalization for point of unloading of scarp at scrap yard.
- Load it to tractor/ trolley for transferring it from provisional location to scrap yard.
- Weighment to be done at GIPCL weighing bridge (free of cost) and collect weighment slip before unloading the scrap at scrap yard.
- Unload at scrap yard in line with prescription by store department.
- One copy of weighment slips to be submitted to GIPCL E-I-C without fail.

- Contractor needs to submit size (Width & Height) of plates / structure / stiffener and thickness/Layer with respective location from where scrap removed.
- The payment will be done as per weighment slip only and with location wise scrap removal report submission.
- Sometimes scrap to be transfer to intermediate location looking in to approach to scrap yard during rainy season.
- Area supervisor has to ensure that work area is free of fire hazard during and after completion of work.
- 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).
- All safety precaution needs to be taken before, during & after work.

**P1.8 Dismantling of the damaged field internals of complete ESP fields as directed by Engineer In-charge & disposal of scrap:**

- During AOHs and planned outages, damaged ESP field internals shall be dismantled as instructed by GIPCL EIC.
- Scope here includes dismantling of all damaged collecting electrodes, emitting electrodes, shock bars, shock pads, shock bar guides, shock bar top angles, damaged emitting horizontal tubes at bottom elevation and/or middle elevation and/or top elevation of the ESP fields, collecting & emitting rapping mechanism and its sub elements of systems.
- Contractor needs to decide the methodology/process of removal of field internals within stipulated time and submit the detailed plan to GIPCL EIC for approval.
- Contractor shall decide to remove ESP field internal from hoppers/ CERM manhole door/ cutting of ESP top roof & Inner roof or any other means of removal ESP field internal. The plan shall be subjected to GIPCL E-I-C approval.
- Contractor need to arrange cutting set at respective location/Height.
- Scaffolding to be erect to approach work location. No separate payment will be done on this account.
- Contractor need to secure element to be cut and remove in such a way that it not falls downward on completion of cutting.
- On completion of dismantling the damaged field internals, all scrap to be removed from respective field hoppers i.e. metal and/or ash.
- In case of partial dismantling of field internals, payment shall be made on pro-rata basis.
- Cutter and supporting staff need to wear all required safety PPEs along with safety belt and safety belt need to clamp/hinge with safety belt retainer element.
- Cutting of outer roof, inner roof, hoppers, re-fitting & welding of inner roof, outer roof & hoppers is included in the scope here.



- Welding of inner roof, outer roof & hoppers to be carried out i.e. double pass with root welding (for penetration & sealing) & final pass (for strength, profile & durability).
- Welding of inner roof, outer roof & hoppers should be gas tight, leak proof, and free from any cracks, porosity and lack of fusion.
- Welding is to be done by certified welders or approved welder by GIPCL only. Contractor has to submit Welder competency certificate to GIPCL working and present at site.
- Inner roof & Outer roof welding to be done by pre heated welding electrode AWS 7018 (Recommended welding electrodes Ador, L&T, Esab, D&H & Advani make only).
- Hopper plate welding to be done by pre heated welding electrode AWS 6013 (Recommended welding electrodes Ador, L&T, Esab, D&H & Advani make only). Approval of electrode to be taken before use.
- Welding rod drier/ oven to be used / maintain as and when required /recommended.
- Contractor need to arrange life line inside ESP field for work force for hanging / clamping of safety belt.
- Arrangement for safety belt retainer element to be done suitably at location.
- If required safety barricade arrangement below cutting area to be arrange.
- Contractor needs to comply all safety norms for working at height.
- Transfer removed element to ground floor in controlled/safe manner.
- Collect it to provisional scrap location prescribed by GIPCL E-I-C nearby.
- Relevant scrap notes to be collected from GIPCL EIC.
- Approach to warehouse/store department for collecting instruction regarding finalization for point of unloading of scrap at scrap yard.
- Loading of scrap in tractor/ trolley for transferring it from provisional location to scrap yard.
- Weighment to be done at GIPCL weighing bridge and collect weighment slip before unloading the scrap at scrap yard.
- One copy of weighment slips to be submitted to GIPCL E-I-C without fail.
- Contractor needs to submit detailed report specifying list & quantity of dismantled elements which shall consist data like row no., elevation, hammer no., CRM/ ERM system, etc. with respective location.
- Sometimes scrap to be transfer to intermediate location looking in to approach to scrap yard during rainy season.
- Area supervisor has to ensure that work area is free of fire hazard during and after completion of work.

#### **P1.9 Welding Per Single Pass per One meter:**

- Shifting of plates and structure/stiffener from stores, fabrication of plate, erection and fit-up the new plate on damaged portion (patching up or replacement) of duct plate size of 600 mm x 600 mm or lesser which is equivalent to 0.36 m<sup>2</sup> or less area of plate.
- Billing will be done on the basis of length of welding carried out on one round basis on per meter basis only up plate size of 600 mm x 600 mm or equivalent to 0.36 m<sup>2</sup>.
- Open the manholes of duct as per applicable clause.

- Carry out the welding on all four sides of the new (/patched) plate / casing element as per standard operating welding procedure.
- Chipping to be carryout after completion of each pass of welding.
- If instructed, post Chipping Second pass of welding to be carryout
- Welding is to be done by certified/competent welders or approved welder by GIPCL only.
- 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.
- Welding electrodes of pre heated AWS 7018/6013 electrodes to be used for fabrication Welding and erection work (Recommended welding electrodes Ador, L&T, Esab, D&H & Advani make only). Approval of electrode to be taken before use.
- If required; stitch welds the corners of duct plate by ISA 50 / 75 / stiffener of appropriate size as per instruction of Engineer in-charge.
- Welding rod drier/ oven to be used / maintain as and when required /recommended.
- Applicable for following sub-clauses:

Sub Clause	Sub Clause Description
9.1	6013 Electrode / 3.15 mm rod
9.2	7018 Electrode / 3.15 mm rod

**P1.10: Anti-corrosive Painting to plate / structure:**

- Anti-corrosive paint application to be done at already installed plate/ structure/ pre-fabricated material as per instruction by GIPCL engineer.
- Plates/ structure/ pre-fabricated material needs to be properly clean by wire brush / buffing before painting.
- One coat of red oxide primer with one coat of synthetic paint/epoxy to be applied as per instruction of GIPCL engineer.
- Paint and thinner shall be provided by GIPCL.
- All tools required for painting will be contractor's scope like wire brush, paint brush, painting roller, etc.

**P1.11: Opening & Closing of various Man Hole Door [MHD] Bolted/ clamped of flue gas path / ESP inner-Outer roof or casing / hopper MHD:**

- Open manhole door. Replace ceramic rope with new one and jointly inspect the FGD duct / ESP as per instruction of engineer in-charge. Box up then after.
- For replacement of ceramic rope, adhesive/ fevicol is in scope of contractor.
- Applicable for following sub-clauses:

Sub Clause	Sub Clause Description
11.1	Clamp Type
11.2	Flange Type

**P1.12: Installation of non-metallic expansion joints (NMEJ) on existing metallic expansion joints (MEJ):**

- 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 (Billing clause for insulation associated work is through corresponding clause).
- Cleaning of MEJ and ceramic wool stuffing in the corrugation of MEJ from inside as well as outside.
- Fabrication & Erection of flange (back-up bar) for NMEJ installation.
- Welding of back-up bar as per the instruction of EIC. Welding electrodes of AWS 7018 low hydrogen electrodes/6013 to be used for erection work. Welding is part of this clause.
- Erection of NMEJ i.e. bolster and fabric clothes above the MEJ. In case bolster is not available Ceramic wool to be apply minimum 3-4 layer between two flanges of 348 mm height.
- Punching of holes in the bolster and fabric clothes and fixing with fasteners on the back-up bar.
- Tighten the fasteners in sequential manner.
- Jointing the bolster, fabric clothes with electric heating machine as per E-I-C.
- 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 most quality control towards this job.
- Hot tightening of fasteners as per the instruction of EIC after the boiler is put on load.
- Apply insulation and cladding sheet on NMEJ and duct.
- Note: Width of NMEJ fabric is 400 mm to 900 mm.
- 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.
- Example: Suppose Size of the Duct is 3052 X 6852 mm<sup>2</sup> and flange projection is 348 mm.
- Hence, peripheral duct length =  $2 \times [(3052 + 348) + (6852 + 348)] = 21,200 \text{ mm}$  (21.2 meter). 348mm = Projection of NMEJ Flange outside duct size.
- 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)
- In case of existing NMEJs only damaged fabric & bolster replacement following to be carried out & considered:
  - a. Removal of back up bar by cutting of old fasteners (M10 bolts). Back-up bar to be retained.
  - b. Removal of damaged NMEJ fabric & old ceramic wool
  - c. Installation of new ceramic wool of minimum 3-4 layer
  - d. Installation of new NMEJ fabric

- e. Punching of holes in the bolster and fabric clothes and fixing with fasteners on the back-up bar.
  - f. Tighten the fasteners in sequential manner.
  - g. Jointing the bolster, fabric clothes with electric heating machine as per E-I-C
- In case of only NMEJ fabric replacement along with ceramic wool stuffing, 60% of Item rates shall be payable.

**P1.13: Cleaning Activity / Removal activity Fly Ash & Debris of corroded steel accumulated:**

- 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.
- Contractor need to engage un-skill temporary manpower to clean ash accumulation inside duct / hopper during initial period of shutdown.
- This is required to identify exact location of leakage.
- If required scaffolding (in line with scaffolding clause) to be erect inside duct to approach the location for cleaning.
- Sometime light hammering also needs to carryout inside duct to remove sticky/dry ash.
- Contractor also needs to arrange to evacuate/draining of accumulated fly ash from the duct to ground floor.
- From Ground floor debris to be transferred to steel scrap in gunny bag and fly ash to be dump/compile at ground floor.
- It is also required for confirming weld-ability of Plate.
- Layering / Accumulation may also affect the desire flow pattern through flue gas path.
- Contractor need to issue face mask / goggles / dust mask /Helmet/ Safety Shoes/ Hand gloves to their work force as fly ash is highly dangerous and may penetrate in human body.
- Contractor need to arrange life line inside duct for cleaning work force for hanging / clamping of safety belt.
- Contractor need to arrange proper lighting arrangement at work area to cleaning work force.
- Contractor need to engage his supervisory staff / foreman to assist and guide the cleaning work force.
- Shift duty considered for payment is of 8 HR excluding lunch/rest and evidences of work execution to be submit at the end of each shift, in case lack of work pace / work progress / work quality /commitment observed, GIPCL EIC can deduct Qty accordingly between 0% to 30% (maximum) according to his/her observation in consensus with site in charge.
- GIPCL EIC will provide reasonable / fair target for cleaning every day shift & night shift along with maximum manpower to be engage location wise.
- As it is time base payment not work base payment and lapse in work pace / work progress / work quality /commitment observed in such a case.
- Before engagement of manpower to the cleaning location, written instruction to be collect from GIPCL EIC.
- GIPCL will not entertain any claim of engagement of manpower in cleaning unless and until written instruction / consent not taken before initiating of work.

❖ **PART-2 ESP Maintenance / Servicing / Repair / Replacement of internals including inspection**

Sr. No.	Name of the Activity	Scope of Work	UOM
1	CRM /ERM/GDRM oil top up.	Check for oil level/condition, Oil top up/replace if reqd.	No
2	PM of CRM /ERM/ GDRM gear box.	clean the ERM/CRM/GDRM (Any one) gear box externally open the Motor/Gear box flange, inspect the internals. Check for any leakage from oil seal, view glass and if required attend the same.	No
3	Replacement of emitting electrode. ONE ELE-1 QTY	Remove the wire snapped electrode. Inspect for tension / worn out emitting electrode. Replace new electrode using stretching tool device only to ensure required tension. Box up. In case of old EE removed, but new EE not fitted in that location, 40 % of execution shall be considered for billing.	No
4	Replacement of shaft insulators for emitting rapping mechanism	Open ERM MHD, Decouple the motor gear box assembly. Remove the cover plate. Replace the insulator, replace ceramic rope of door, clean the shaft insulator housing thoroughly from inside, close ERM MHD.	No
5	Alignment of collecting / emitting gear box.	Align the collecting / emitting gear box assembly with the rapping mechanism shaft.	No
6	Servicing of collecting / emitting rapping gear box.	Un load damaged gear box from site and shift it to maintenance area/ work shop. Dismantle whole gear box as per standard maintenance practice or instruction of E-I/C. Identify the damaged, wear & tear parts and hand over list to E-I/C. Issue required spare from ware house. install new parts/spare in existing gear box assemble gear box for ready for install/replace and tagged the same and shift it to site/warehouse/spare assembly area.	No
7	Replacements of gear box of emitting / collecting rapping.	Un load damage gear box from position and shift same to spare assembly area/ware house / work shop. Issue new gear box and shift it from spare assembly area/ware house / work shop to site and install it in position and couple it with existing gearbox/motor/rapping system.	No
8	Field internal inspection for dead shot One field-1qty	Receipt of key from engineer in charge. Open man hole door as per instruction of E-I/C, Do the earthing as per standard procedure. Install safety mechanism as per engineer in charge. Check the field for any abnormalities or for dead shot and mark the same.	No

		Field casing, hoppers, inner roof to be inspect of air ingress/ leakage/ damage. Give the list of finding to E I/C. attend the defect. Perform holder test. Normalize the field and handover key to GIPCL E I/C. (Must engage 4 ESP known manpower with properly charged high beam torch with all required PPEs) Note: If 4 high beam torches not used during inspection 33 % amount will be deducted.	
9	Replacements of CRM / ERM coupling.	Decouple the gear box, replace the coupling with new one, Align and couple.	No
10	ESP casing/hopper manhole door open/leakage attending	Open the manhole door. Attend the leakages by rope fixing or applying sodium silicate, plate welding in the door. Box up.	No
11	Removal of collecting plate	Identify the damaged plate. Remove the damaged plate after confirmation from GIPCL E I/C.	No
12	ESP & APH hoppers drain de-chocking work	Includes Open the door of hopper as per instruction of E-I-C. Remove the foreign materials from ESP & APH hoppers drain. Box up the door.	No
13	ESP GD screen Deflector/dummy plate Fixing/removal	ESP GD screen Deflector/Dummy plate fixing and/or removing from primary & secondary screen as per chart / instruction of engineer in-charge	No
14	Plain/Fix Bearing Replacement/Repairing	On identification of defect, Removing/Repairing of Existing plain/Fix bearing, Install new plain bearing. Includes Seam adjusting, Aligning, Bolting, tack welding and assist trial run.	No
15	Hammer Replacement	Replacement of inner arm and/or outer arm of Rapping mechanism. Includes removing of existing Hammer from rapping shaft and replace it with new one, Tacking, Angle positioning, confirm hitting to correct spot on trial.	No
16	Shock Pad Replacement	Replacement of Shock pad. Includes Cutting of existing shock pad bolt, install new shock pad & tacking/locking bolt. Confirm hitting to correct spot on trial. On replacing only loose bolts, 50 % of execution shall be considered for billing.	No
17	GD screen /hopper baffles Replacement/ repairing	Replacement/installation on new GD screen including joining with existing GD screen	No
18	Replacement of support insulator	After identification of defect of support insulator, open top door of respective support insulator and open flange cover also. Remove old damaged support insulator and scrap from support insulator chamber. Clean chamber. Shift new support insulator from ware house to site. Open nut from load carrying stud, remove washer plate. Carry out load on temporarily J	No

		bolt fix support insulator, re install washer plate and transfer load on new support insulator. Remove J bolts. Normalize the system/chamber verify internal of ESP post repair and on confirmation box up system. Includes open/ close of top door & flange cover.	
19	Replacement of Shaft insulator	Open ERM MHD, Decouple the motor gear box assembly. Remove the cover plate. Replace the insulator, replace ceramic rope of door, close ERM MHD.	No
20	Locking of CE	Locking of CE with shock bar if instructed by engineer in charge.	No
21	Re-positioning of Collecting Electrode	Reposition/removal of Collecting Electrode	No
22	Repair of collecting plate	On identification of defect the affected / damage plate needs to be either lock with shock bar or with casing as per instruction of E I/C. Through welding/ bolting or by installing flats in between damage CE to shock bar to individual CES.	No
23	Locking of row of CE (1 row = 6 CEs)	Sometime whole six CE need to locked with shock bar through single pipe/flat. <b>In case 3 CE locking, cost consider for whole one row.</b> Provide post at two ends and support to linear pipe/flat by post. Linear pipe/flat must be locked with CE at junction point	No. of row
24	Inspection of Shaft/Support insulator 1 Qty	For identification of defect, open/close MHD/ flange cover, clean the Shaft/ Support insulator with cotton waste, inspect for any crack/ damage. Submit the report.	No
25	Fly ash cleaning over collecting plate/emitting electrode	fly ash cleaning over collecting plate/emitting electrode for <b>1 Hour</b> in line with instruction of EIC	Hours
26	Detail Field internal inspection for Assessment. One field-1 qty for overhauling preparation	Receipt of key from engineer in charge. Open man hole door as per instruction of E-I/C, open the manhole door, Do the earthen as per standard procedure. Install safety mechanism as per engineer in charge. Check the field for any abnormalities or for dead shot and mark the same. Field casing, hoppers, inner roof to be inspect of air ingress/ leakage/ damage. Give the list of finding to E I/C. Give the list of finding to E I/C. Normalize the field and handover key to GIPCL E I/C. submit in-detail report about observation & damage component (mutually prescribed) found. (Must engage 4 ESP known manpower with properly charged high beam torch with all required PPEs) Note: If 4 high beam torches not used during inspection 33 % amount will be deducted.	No

<b>27</b>	Field internal inspection during partial loading	Receipt of key from engineer in charge. Open man hole door as per instruction of E-I/C, open the manhole door, Do the earthen as per standard procedure. Install safety mechanism as per engineer in charge. Check the field for any abnormalities or for dead shot and mark the same. Give the list of finding to E I/C. Normalize the field and handover key to GIPCL E I/C. (Must engage 4 ESP known manpower with properly charged high beam torch with all required PPEs) Note : If 4 high beam torch not used during inspection 33 % amount will be deducted. . Payment in this clause only given if inspection of individual field complete and prescribed report submitted within 1 Hr from time of handover of front during partial loading otherwise clause No. 8 is applicable.	No
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**Common scope for Clause 2.1 to 2.27:**

All specific scope of work is as tabulated above; however general scope of work is as mentioned below:

- PTW to be ensured with EIC before commencement of any work mentioned above.
- List of spares required restoring / repairing specific field to be submit to GIPCL EIC along with field inspection report / assessment report.
- MIV to be collect from EIC.
- Manpower to be engage for collecting spare which is approximately 500 m away from Unit # 1 and 1000 m away from Unit # 4.
- Shifting of spare from warehouse to ground floor up to point of lifting.
- Lifting of spare from point of lifting to point of use/application.
- Installation of spare according to applicable clause.
- Verify/ trail for component replacement/Repair carried out.
- ESP field holder test carried out after rectification of field internal work.
- Replace Ceramic rope, if required. Box up MHD if opened. (Adhesive/ fevicol in scope of contractor)
- Interlock application of MHD, if applicable.
- Handover keys on complete box up of pass after carrying out each and every rectification as instructed by EIC.
- Assist the charging / Reading collection post repair/rectification of Fields/Pass.



❖ **PART-3 ESP O&M Activity/ Routine external maintenance**

<b>Sr. No.</b>	<b>Name of the Activity</b>	<b>Unit of Measurement (UoM)</b>
<b>3.01</b>	Hopper Ash/foreign material evacuation minor (lump-sum)	No.
<b>3.02</b>	Hopper Ash/foreign material evacuation major	Per HR Per MP
<b>3.03</b>	Hopper minor leakage arresting work through sodium/wool + minor patch work (max 4 Hr. job 1 team); major if any to be carryout through job clause (lump sum)	No.
<b>3.04</b>	Flue gas path inspection running unit / from outside ESP both pass + APH Exhaust to ESP inlet + ID Exhaust to chimney inlet	No.
<b>3.05</b>	Identification of leakage major (Leakage size: more than 300 mm x 300 mm)	per leakage
<b>3.06</b>	Identification of leakage minor Leakage size: less than 300 mm x 300 mm	per leakage
<b>3.07</b>	Flue gas path inspection outage unit or pass / from inside single ESP pass	No.
<b>3.08</b>	Flue gas path inspection outage unit or pass / from inside APH Exhaust to ESP inlet	No.
<b>3.09</b>	Flue gas path inspection outage unit or pass / from inside ESP Exhaust to ID inlet	No
<b>3.10</b>	Flue gas path inspection outage unit or pass / from inside ID Exhaust to chimney inlet	No
<b>3.11</b>	ERM / CRM auto mode operation / Frequency verification per pass	No.
<b>3.12</b>	ERM / CRM Frequency verification per hour for specific ERM or CRM	No.
<b>3.13</b>	ESP Field Reading collection per pass in prescribed format / prescribed frequency	No.
<b>3.14</b>	Interlock system servicing / greasing during shutdown per pass basis	No.
<b>3.15</b>	Shaft insulator / support insulator temperature measurement per SI basis	per SI
<b>3.16</b>	Joint leakage survey hopper with AHS per unit / per hopper	per Hopper.
<b>3.17</b>	Hopper MHD Replacement work (Readymade MHD will be provided by GIPCL)	No.
<b>3.18</b>	ERM frame / MHD Replacement work (Readymade MHD will be provided by GIPCL)	No.
<b>3.19</b>	CRM Frame / MHD Replacement (Readymade MHD will be provided by GIPCL)	No.
<b>3.20</b>	Pre-shutdown in detail inspection	per field
<b>3.21</b>	Deputation of expert engineer / special fitter	per day

**Clause 3.01 to 3.21:**

All specific scope of work is as tabulated above; however general scope of work is as mentioned below:

- PTW to be ensured with EIC before commencement of any work mentioned above.
- List of spares required restoring / repairing specific field to be submit to GIPCL EIC along with field inspection report / assessment report.
- MIV to be collect from EIC.
- Manpower to be engage for collecting spares which is approximately 500 m away from Unit # 1 and 1000 m away from Unit # 4.
- Shifting of spare from warehouse to ground floor up to point of lifting.
- Lifting of spare from point of lifting to point of use/application.
- Installation of spare according to applicable clause.
- Verify/ trail for component replacement/Repair carried out.
- ESP field holder test carried out after rectification of field internal work.
- Replace Ceramic rope, if required. Box up MHD if opened. (Adhesive/ Fevicol in scope of contractor)
- Interlock application of MHD, if applicable.
- Handover keys on complete box up of pass after carrying out each and every rectification as instructed by EIC.
- Assist the charging / Reading collection post repair/rectification of Fields/Pass.

**P3.01 Hopper Ash / foreign material evacuation minor (Lump sum): UOM: Per No.**

**P3.02 Hopper Ash / foreign material evacuation major: UOM: Per Hour Per Manpower**

- Receipt PTW (Permit to Work) from BMD EIC for work execution.
- As per isolation of ESP, related keys for opening of MHD and as confirmation of isolation, keys to be received/ taken from exchange box/main control room.
- Outside Scaffolding to be erected, if required, with following all standard safety norms.
- Proper lighting arrangements to be done. Work associated tool and tackle to be provide
- Survey to be done for quality of ash dry/wet/foreign material from CRM MHD, if possible
- With proper precaution and safety, Hopper MHD to be open or appropriate opening to be made accordingly by cutting hopper after removing cladding and insulation, if required.
- After opening of MHD/ opening made by cutting, ash (dry/wet/foreign material) to be completely (totally) evacuated from hopper associated hopper/hoppers.
- Visual joint inspection will be carried out by Site in charge/EIC for confirmation of clearing the hopper
- After clearing of hopper, clearance to be taken from BMD EIC before box up of hopper MHD
- As per BMD EIC instruction/clearance further activity for box up or Rework to be carried out.

- Hopper, casing MHD to be close/box up to be done with new insulation Rope, application of fevicol.
- For Minor (Clause No. 3.01) Hopper to be evacuate from Bottom drain opening / Hopper MHDs / Pad Opening
- Maximum de-chock after commencement of work @ site: 4 Hrs with 1 Team.
- By default, applicable clause is 3.01 only. If in case after reviewing site condition if it found suitable/applicable, GIPCL will instructed to proceed for initiate work w.r.t. Clause No. 3.02
- For Major (Clause No. 3.02)
- Opening, if made, to be close by fit up of plate and proper quality of welding with parent plate of hopper. Stiffeners to be fit up and weld if removed previously for making of hopper opening.
- New insulation to be applied with cladding sheet by skilled manpower in proper manner. As per insulation billing clause.
- Removal of scaffolding after BMD EIC clearance
- Scrap foreign material to be shifted to scrap yard and maintain cleanliness where work carried out.
- After completion of job, keys to be handover to BMD EIC and clearance to be given for cancellation of PTW.

**P3.03: Hopper minor leakage arresting work through sodium/wool + minor patch work (max 4 Hr. job 1 team); major if any to be carryout through job clause (lump sum)**

- Hopper leakages to be identified
- Hopper leakages to be immediately attend through sodium/wool as a temporary manner.
- It includes scaffolding erection up to approach to Hopper MHD top flange to 1 meter above.
- Hopper Leakage to be permanently attends through plat patch up / replacement /welding as recommended by GIPCL EIC.
- Trail to be taken or attending to be verify after attending the job permanently or temporary
- Then after scaffolding to be dismantle.

**P3.04 Flue gas path inspection running unit / from outside ESP both pass + APH Exhaust to ESP inlet + ID Exhaust to chimney inlet**

- With following all safety standards, as per define frequency/instruction by GIPCL following need to inspect from outside through approach platforms:
- Both pass of ESP including hoppers to ESP top roof,

- Both pass inlet funnel to both pass outlet funnel from outside
- ESP Exhaust to ID fan inlet duct system.
- APH Exhaust to APH Hoppers | APH to DC duct | DC Hoppers to ESP inlet duct | ESP inlet duct Leg # A | ESP inlet duct Leg # B.
- Chimney Inlet duct
- Inspection to be carried out during running unit as per GIPCL EIC instruction where suitable platform available and explore the other location / areas for leakage / Air ingress possibility by erecting of scaffolding up to approachable height & width, if required. Suitable scaffolding clause will be applicable.
- During inspection lighting arrangement, cleaning to be done, if required
- Identified Leakages Detail report to be submitted to BMD EIC in written format or in Mail.
- All the observations/ Identified Leakages to be submitted to EIC through electronic communication/ written format area wise.

**Sr. No. 3.05 Identification of leakage major (Leakage size: more than 300 mm x 300 mm)**

**Sr. No. 3.06 Identification of leakage minor Leakage size: less than 300 mm x 300 mm)**

- During the course of contract period during running unit, or other time while executing the contract (Only applicable to running unit & clause 3.04); If contractor identify the leakage below size specified (i.e. 300 mm x 300 mm) & attend identified leakage through carrying out corrective activity mentioned in part #1, Clause 3.06 is applicable.
- If the identified leakage is above size specified (i.e. 300 mm x 300 mm), Clause 3.05 is applicable.
- Contractor need to submit/report in soft form in prescribed soft format which include following:
  - One Photograph
  - Unit No.
  - Unit Condition: FSD / Partial Loading / Running / Other
  - Exact Location
  - Date & time
  - Reporting member
  - Planning for repairing/correction of identified leakage

**P3.07 Flue gas path inspection outage unit or pass / from inside single ESP pass**

- In case of plant outage or force shut down or single pass outage, inside inspection of particular ESP pass to be carried out thoroughly (i.e. ESP inlet funnel, all inlet gabble zone, All fields CRM side casing, Non-CRM side casing, Inner roof, all ERM casing ducts, All outlet gabble zone, ESP outlet funnel, all related MHD).
- PTW to be received from BMD EIC for work execution.

- As per isolation of ESP, related keys for opening of MHD and as confirmation of isolation, keys to be received/ taken from exchange box/main control room. It includes opening/closing of respective duct MHD. Replacement of ceramic rope, if required. No separate payment will be done on this account.
- GDRM, Fields Rapping and non-rapping MHD or required MHD for cooling purpose, to be open.
- It includes opening/closing of respective duct/ area MHD of flange type/ clamp type. No separate payment will be done on this account.
- After cooling as per BMD EIC's intimation open that pass all CRM MHD, Outer roof MHD, Inner roof MHD, if required to enter in field and check all fields casing, all hoppers, all gabble Zone, including both funnels.
- During inspection lighting arrangement, cleaning to be done/ carried out, if required.
- Erection of scaffolding to approach the leakage to be done, if required. (Payment for scaffolding erection will be as per Part 1 respective clause).
- Identified Leakages Detail report with exact location to be submitted to BMD EIC in written format or in Mail.

### **P3.08 Flue gas path inspection outage unit or pass / from inside APH Exhaust to ESP inlet**

- PTW to be received from BMD EIC for work execution.
- In case of plant outage or force shut down, Required MHD to be open, inside inspection of APH PA bottom block- APH hopper, APH to DC Duct (DC Horizontal Duct & DC Vertical Duct), DC Hoppers, NMEJ, MEJ, ESP inlet Funnel and all related MHD, to be carried out as per GIPCL EIC instruction and explore the areas where possibility of leakage. It includes opening/closing of respective duct/ area MHD of flange type/ clamp type. Replacement of ceramic rope, if required. No separate payment will be done on duct MHD opening.
- If Hoppers MHD open, in that case separate payment will be done as per Part 1 respective clause.
- During inspection lighting arrangement, cleaning to be done, if required.
- Erection of scaffolding to approach the leakage to be done, if required. (Payment for scaffolding erection will be as per Part 1 respective clause).
- Identified Leakages Detail report to be submitted to BMD EIC in written format or in Mail.

### **P3.09 Flue gas path inspection outage unit or pass / from inside ESP Exhaust to ID inlet**

- PTW to be received from BMD EIC for work execution.
- Work Instruction to be received from BMD EIC.
- In case of plant outage or force shut down, Required MHD to be open, inside inspection of ESP outlet funnel, H- duct, ID inlet duct and all related MHD, to be carried out as per

GIPCL EIC instruction and explore the areas for leakage possibility. It includes opening/closing of respective duct/ area MHD of flange type/ clamp type. Replacement of ceramic rope, if required. No separate payment will be done on duct MHD opening.

- During inspection lighting arrangement, cleaning to be done /carried out, if required.
- Erection of scaffolding to approach the leakage to be done, if required. (Payment for scaffolding erection will be as per Part 1 respective clause).
- Identified Leakages Detail report to be submitted to BMD EIC in written format or in Mail.

**P3.10 Flue gas path inspection outage unit or pass / from inside ID Exhaust to chimney inlet**

- PTW to be received from BMD EIC for work execution.
- Work Instruction to be received from BMD EIC.
- In case of plant outage or force shut down, Required MHD to be open, inside inspection of Both ID Fan individual Outlet Duct, ID Fan common Outlet Duct, Chimney Inlet duct, to be carried out from inside as per GIPCL EIC instruction and explore the areas for leakage possibility. It includes opening/closing of respective duct/ area MHD of flange type/ clamp type, Replacement of ceramic rope, if required. No separate payment will be done on duct MHD opening.
- During inspection lighting arrangement, cleaning to be done / carried out, if required.
- Erection of scaffolding to approach the leakage to be done, if required. (Payment for scaffolding erection will be as per Part 1 respective clause).
- Identified Leakages Detail report to be submitted to BMD EIC in written format or in Mail.

**P3.11 ERM / CRM auto mode operation / Frequency verification per pass**

- As per define frequency by GIPCL, Visit ESP Control room and verify all CRM and ERM in panel for Auto Mode selection, check all individual CRM, ERM indication and operation time/ frequency in panel.
- Visit CRM Floor, verifying frequency and operation, healthiness of each system by visually check all CRM Rotating frequency and note down the individual CRM motor run time with frequency.
- Then Visit ERM Floor/ESP Top, verifying frequency and operation, healthiness of each system by visually check all ERM Rotating frequency and note down the individual ERM motor run time with frequency.
- Create Report of this, in which write Start time and Stop time for 2-3 consecutive cycles of Rapping motor and also mentioned run time.
- Detail report to be submitted to BMD EIC in written format or in Mail.

**P3.12 ERM / CRM Frequency verification per hour for specific ERM or CRM**

- As per define frequency by GIPCL, Specific CRM or ERM running frequency and operation, healthiness of particular system given by BMD EIC, to be observed.
- Visit ESP Control room and verify Specific CRM and ERM in panel for Auto Mode selection check individual CRM, ERM indication and operation time/ frequency in panel.
- Then visit CRM Floor, verifying frequency and operation, healthiness particular given system for observation, by visually check Specified CRM Rotating frequency and note down the individual CRM motor run time with frequency.
- Then visit to ERM Floor/ESP Top, verifying frequency and operation, healthiness of each system by visually check Specified ERM Rotating frequency and note down the individual ERM motor run time with frequency.
- Create Report of this, in which write Start time and Stop time for 2-3 consecutive cycles of Rapping motor and also mentioned run time.
- Detail report to be submitted to BMD EIC in written format or in Mail.

**P3.13 ESP Field Reading collection per pass in prescribed format / prescribed frequency**

- During the normal running condition of ESP or after shutdown maintenance charging of pass / passes or after outage maintenance charging of pass / passes, ESP all fields reading to be taken at various time of interval and at various mA combinations and field parameters tuning to be done if required.
- Readings and data should be filling in prescribed format which include all necessary parameters of field. All data to be collect from to ESP Control Room / Panel Room, of that Unit which asked by BMD EIC.
- Report to be submitted to BMD EIC in written format or in Mail in prescribed format.

**P3.14 Interlock system servicing / greasing during shutdown per pass basis**

- During shutdown/ force outage, interlock system servicing/greasing/restoration to be done.
- Each and every (tentatively 130) location interlock system healthiness to be check.
- If found damaged/altered/modified then restore it.
- Restoration including taken MIV of material from BMD EIC and issue the material from store transport the same from store to site/location and installed it using specific proper methodology.
- Detail report to be submitted to BMD EIC in written format or in Mail.

**P3.15 Shaft insulator / support insulator temperature measurement per SI basis**

- There are heaters arrangements provided for removing moisture or heating purpose of shaft and support insulators. It is essential to maintain temperature for healthiness of insulator and subsequently dryness of support & shaft insulator chamber. Temperature

measurement to be done by temperature gun on each and every shaft and support insulator (tentatively 80 locations).

- Work Instruction to be received from BMD EIC.
- Collect PTW (Permit To Work) from BMD EIC for work execution.
- On isolation confirmation associated keys to be received from Main Control room/ESP control room Exchange box.
- Approach to the site at ERM floor at 25-meter elevation (ESP top) as per point No. 2.
- Open the cover of support insulator, Open the flange of support insulator, remove wool stuffed for sealing and check for the crack if any, in support insulator and temperature reading collection at 3 point (1. At heating element, 2. At inner roof, 3. At side wall) from safe distance as prescribed by EIC. It includes opening/closing of respective area MHD of cover/ flange type/ clamp type, Replacement of ceramic rope, if required. No separate payment will be done on duct MHD opening.
- Temperature gun will be provided by GIPCL on returnable basis and as it is condition.
- Identification of leakage if any.
- Detailed Report to be submitted to BMD EIC in written format or in Mail in prescribed format.
- After analysis of report by BMD EIC clearance to be given for box-up of flange, cover, apply wool for sealing if required.
- Ensure proper box-up and take in line of Interlock safety.
- After confirmation and completion of job, keys to be handover to BMD EIC and clearance to be given for cancellation of PTW.

### **P3.16 Joint leakage survey hopper with AHS per unit / per hopper**

- As and when required / instructed joint inspection for primary identification of source of ash leakage as well as source of ingress carried out.
- Exact location to be logged and noted and to be submitted to GIPCL – EIC.

### **P3.17 Hopper MHD Replacement work (Readymade MHD will be provided by GIPCL)**

- Collect PTW (Permit to Work) from BMD EIC for work execution.
- Work Instruction to be received from BMD EIC.
- On isolation confirmation associated keys to be received from Main Control room/ESP control room Exchange box.
- Collect MIV from BMD Office for Readymade Hopper MHD and transport from Warehouse to Site/at location.
- Interlock system to be dismantled from old MHD without damaging.
- Dismantle old MHD.



- New MHD provided by GIPCL to be fit up, weld and proper erection to be done such that there must be no possibility of air leak/ingress from any of weld joint. Painting to be done on welding area as well as New MHD. Paint will be provided by GIPCL. Wire brush, paint brush in scope of contractor.
- Interlock system to be Install in new MHD.
- After checking by BMD EIC, Box-up MHD with proper Rope and fevicol as per BMD EIC's intimation. Fevicol in scope of contractor.
- Old Removed MHD to be shift at Scrap yard and all related scrap to be remove from site.
- After cancellation of PTW and system taken in line by operation department/concern department, attended areas to be check separately or in coordination with concern department as per BMD EIC instruction.
- Detail report to be submitted to BMD EIC.

**P3.18 ERM frame / MHD Replacement work (Readymade MHD will be provided by GIPCL)**

- PTW to be received from BMD EIC for work execution.
- Work Instruction to be received from BMD EIC.
- Collect MIV from BMD Office for Readymade ERM MHD and Bring from Warehouse to Site/at location.
- Dismantle old ERM Frame/MHD.
- New ERM Frame/MHD which is provided by GIPCL to be fit up, weld and proper erection to be done such that there must be no possibility of air leak/ingress from any of weld joint. Painting to be done on welding area as well as New MHD. Paint will be provided by GIPCL. Wire brush, paint brush in scope of contractor.
- After checking by BMD EIC, Box-up MHD with proper Rope and fevicol as per BMD EIC's intimation. Fevicol in scope of contractor.
- Old Removed ERM Frame/MHD to be shift at Scrap yard and all related scrap to be remove from site.
- After cancellation of PTW and system taken in service by operation department/concern department, attended areas to be check separately or in coordination with concern department as per BMD EIC instruction.
- Detail report to be submitted to BMD EIC.

**P3.19 CRM Frame / MHD Replacement (Readymade MHD will be provided by GIPCL)**

- PTW to be received from BMD EIC for work execution.
- Work Instruction to be received from BMD EIC.
- On isolation confirmation associated keys to be received from Main Control room/ESP control room Exchange box.

- Take MIV from BMD Office for Readymade CRM MHD and transport from Warehouse to Site/at location.
- Interlock system to be dismantled from old MHD without damaging.
- Dismantle old MHD.
- New MHD which is provided by GIPCL to be fit up, weld and proper erection to be done such that there must be no possibility of air leak/ingress from any of weld joint. Paint will be provided by GIPCL. Wire brush, paint brush in scope of contractor.
- Interlock system to be Install in new MHD.
- After checking by BMD EIC, Box-up MHD with proper Rope and fevicol as per BMD EIC's intimation. Fevicol in scope of contractor.
- Old Removed MHD to be shift at Scrap yard and all related scrap to be remove from site.
- After cancellation of PTW and system taken in line by operation department/concern department, attended areas to be check separately or in coordination with concern department as per BMD EIC instruction.
- Detail report to be submitted to BMD EIC.

#### **P3.20: Pre-shutdown inspection of field before AOH**

- Pre-shutdown inspection of field before AOH to be carried out through skilled / experience/ Competent team of ESP foreman/ supervisor as and when GIPCL instructed before commencement of ESP Field correction/repairing activity.
- All the mechanical aspect & electrical aspect to be consider while inspecting the field of Field internals / Field casing including hopper.
- Each CE rows /EE rows inspect for clearance.
- Each CE row /EE row to be check for any damage.
- Each CE row to be check for freeness.
- Each Hammer / Each Bearing to be check.
- Each Support Insulator & shaft insulator to be check
- Whole Rapping system thoroughness to be check
- Report in prescribed format to be submit, explain and if required joint inspection with EIC to be done for showing observations.

#### **P3.21 Deputation of expert engineer / special fitter as per requirement**

- Deputation of expert engineer / special fitter including transportation
- In case specialized service required at site, contractor need to depute their special fitter/foreman at site.
- The person must aware know-how ESP. he must be skilled, competent, qualified for handling any emergency / unforeseen / instructed special category job.

- GIPCL will intimate by mail for initiation on such a deputation at any point of time (24x7).
- Contractor need to depute service engineer within 36 Hrs. from mail.
- Payment is per day basis, To & Fro Travelling (maximum 1 day for Forward travel & maximum 1 day for return travel) also included in duration.

❖ **PART-4 Fabrication Activity**

Clause	Clause Description	UOM
1	Fabrication Charges (except plate bending) for thickness of plate below 6 mm (say 5 mm, 3.15 mm, 2 mm etc.) at ground floor. Scope covers full welding per MT (along with 1 coat red-oxide painted, paint will be issued by GIPCL).	MT
2	Fabrication Charges of Duct / MHDs / Hoppers etc. (except bending) for thickness 6 mm / 8 mm plate and 8 mm ISMC/ISMB/ISA and 10 mm thick ISMC/ISMB/ISA at ground floor. Scope covers full welding (with E6013 or E7018 whichever is applicable) per MT (along with 1 coat red-oxide painted, paint will be issued by GIPCL).	MT

**P4.1 to P4.2 Fabrication based on thickness of Plate / stiffener:**

All specific scope of work is as mentioned above; however general scope of work is as mentioned below:

- Site fabrication job.
- GIPCL E-I-C will provide work instruction regarding what to fabricate, how to fabricate, how many to fabricate either through rough drawing or fabrication drawing.
- Scope of covers up full/ total welding (6013) per MT.
- Scope of covers 1 coat red-oxide painted, paint will be issued by GIPCL.
- Fabrication include welding, cutting of job to be prepared, if required, workshop facility to be provided by GIPCL whatever is available only.
- In such a case contractor must aid machinist / operator.
- For Special machining/ tool/ skill required, contractor to be done through outside agency and in scope of contractor.

❖ **PART-5 For execution of work not covered in Parts 1 to 4 (Un-foreseen jobs)**

Sr. No.	Clause (Manpower type)	Clause (Manpower) Description	UOM
1	Specially Skilled Manpower	Fabricator fitter, Foreman for lifting /Dismantling, Special Fitter	Per Day (Normal)
2	Semi-skilled Manpower	Welder, cutter, Rigger, grinder, Refractory breaker operator	Per Day (Normal)
3	Un-skilled Manpower	Helper	Per Day (Normal)
4	Specially Skilled Manpower	Fabricator fitter, Foreman for lifting /dismantling, Special Fitter	Per hour (OT)
5	Semi-skilled Manpower	Welder, cutter, Rigger, grinder, Refractory breaker operator	Per hour (OT)
6	Un-skilled Manpower	Helper	Per hour (OT)

❖ **Common Scope of Work**

- Scaffolding erection is to be started 10-15 days prior to start of shutdown as per instructions of Engineer In charge.
- Take a permit to work at height.
- Proper approach of ladder is to be made on each scaffolding for inspection & repairing work. Also, side hand railings are to be provided.
- Structure of scaffolding should be erected by a competent person only.
- 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.
- Any damaged or defected component should be removed immediately to avoid use in installation of scaffolding.
- Scaffolding structure should be installed on solid foundation.
- Diagonal braces should be used to avoid displacement.
- Whole scaffolding structure should be secured with permanent structure.
- Ladder should be extended above platform up to top guard rail.
- Any modification or alteration of existing scaffolding should not be carried out without permission.
- During erection of scaffolding, “work in progress” (Yellow in color) & “Do not use” (Red in color) sign board to be display at respective area. After complete erection of scaffolding in all respect, “work in progress” (Yellow in color) & “Safe to Use” (Green in color) sign board to be display at respective area.
- Worker with height phobia or vertigo should not be allowed to access scaffolding.

- Working in extreme bad weather (dusty, windy or rainy), working on scaffolding should be restricted.
- Safety harness should be used by one and all working on scaffolding.
- Only permitted number of workers should be allowed work. Ensure it is not overloaded.
- Tools for working should be carried in a box.
- Scaffolding structure should be inspected at least on weekly basis.
- Any damaged components should be replaced by competent person only.
- Fabrication / Dismantling /Erection of structure to be carried out at different elevation from ground level to 30 meters.
- 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.
- Execution of the work is round the clock and in all the days.
- 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 equipment such as power cable, hand lamps etc. The contractor has to take prior approval for taking electrical power supply.
- 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 & statutory requirement is to be verified with GIPCL safety officer, after submitting required documents and checking.
- Necessary gate-pass for manpower from our HR & A dept and security dept. is to be taken during mobilization.
- The contractor shall have to submit daily reports showing fabrication / erection work carried out including material / consumables etc. used.
- Contractor have to deploy site-in-charge who will co-ordinate day to day activities with GIPCL and submit job-card daily.
- 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.
- Steel Material shall be issued in MT on measurement basis from our warehouse.
- 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.
- Watch and ward of steel is in your scope.
- Actual work will be checked in UOM on measurement basis and accordingly steel will be reconciled.
- It is a pre-condition that the contractor and the persons deployed by him are for a Contractual period only.
- 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.

- 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.
- Contractor shall make their own arrangement for transportation of manpower, T&P & consumables.
- 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 for loading/ unloading in vehicle/ transport arrangement. 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.
- Insulation removal is to be started immediate after completion of scaffolding work prior to start of shutdown as per instructions of Engineer in charge.
- 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.
- Contractor has to arrange vehicle at their cost for transfer of steel structure, insulation from warehouse to site and scrap to scrap yard.
- Contractor shall depute the safety officer for looking after the safe condition of scaffolding, work carried out on height etc.
- 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.
- 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 with 15% overhead charges.
- Daily manpower report needs to be submitted by contractor on daily basis as per jointly decided / predefine format in soft as well as hard copy.
- 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.

## **2.1 WORK EXECUTION:**

1. 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. GIPCL will provide advance intimation with work to be carryout in each of above area/sub area listed above including tentative /planned /foreseeable / anticipated /expected /projected quantum before at least 10 to 15 days in advance for planned AOH/COH.

## **2.2 DAILY WORK INSTRUCTION/PLANNING:**

1. Contractor's site in-charge during non AOH period need to daily visit /report/ approach to GIPCL Engineer-In-Charge for collection of work instruction at start of day (08:35AM).
2. Contractor's site in-charge during execution period need to daily visit /report/ approach to GIPCL Engineer-In-Charge for renewal of work PTWs and Process each PTW through operation department (at Main Control room of Phase 1 & 2 ) to Safety Department (at admin building ) & return to issuing GIPCL EIC. Total walking distance is 1100 meter / 40-45 Minutes)
3. On Intimation, Contractor's site in-charge during non AOH period need to daily visit /report/ approach for receipt of LOTO/ESP Interlock keys as and when required.
4. On End of Day, once again approach for reporting of activity carried out during day as well as work instruction for evening & night shift if any.
5. In case of BTL/FSD/SSD/ESP pass outage; Contractor need to retain partly or fully of manpower team as prescribed beyond working hours in line with work instruction / Plant Requirement / Work Requirement.
6. During assisting of work beyond normal working hours, Site in charge- Supervisor need to report to second shift E-I-C at 10 PM & Night shift E-I-C on leaving the plant.
7. All Height Work PTW to be cancel on or before expiration and to be renew accordingly.

### **▪ Weekly Work Instruction:**

Scrap survey to be carryout weekly.

### **▪ Monthly Work:**

Gate Pass to be Prepare and submit on monthly basis in Gate Pass prescribed format. Labor license if applicable and WC policy to be submit accordingly.

## **2.3 SCOPE OF GIPCL:**

Scope of GIPCL includes, Free issue of structural steel like M.S. Plate, Corten steel plate, Chequered plate, angles, channels, beam etc., Metallic and non-metallic expansion joints, ESP internal spares, Insulation material like mineral wool, ceramic wool, aluminum cladding sheet & other ancillary material, fasteners, paints etc.

## **2.4 PERIOD OF COMPLETION:**

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 (AOH) period is tentatively 22 to 30 days, Planned outage period is tentatively 15 days** for repair / replacement of damaged flue gas duct and MEJs/NMEJs replacement & normalizing of the system, ESP field overhauling & ESP maintenance and **post shutdown period is 15 days** for removal of scaffolding, site cleaning etc.

**However, this work against this tender will be continued throughout the contract period for repair / replacement of flue gas duct, ESP internal maintenance in running unit / Non AOH Period / minimum resources to be maintained as prescribed.**

## **2.5 EXPECTED DATE OF COMMENCEMENT:**

1. Time schedule for completion of job is as below:
2. Contractor need to mobilize required resource within 15 days from the date of WO for running unit job
3. For shutdown Contractor need to mobilize required additional resource within 7 days from the date of intimation.
4. Shutdown period: The tentative period of AOHs of any Unit at SLPP is 22-30 days while the same of planned outage of any Units is around 15 days. However, outage duration may increase or decreased according to work planned in other areas of boiler
5. The pre shut down activity period is excluded from this.
6. 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.
7. 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 during AOH and Planned Outage.
8. 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.
9. 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 inches. Party shall plan their resources accordingly to execute the work in time bound period and consider relevant idling of resources accordingly while quoting the bid.



## **2.6 FAILURE DURING EMERGENCY**

During any emergencies, contractor shall have to carry out the work by deploying additional force within seven (7) days from intimation of GIPCL's Engineer In-charge, failing which GIPCL reserves the right to carry out this work by engaging other party. For the expenditure occurred due to such situation, the Contractor will be held responsible & the same will be recovered from the Contractor's monthly bill / any other pending bills along with 10% overhead charges plus applicable GST as per extant GST laws.

For repetitive failure of such work for more than two incidents, GIPCL reserve the right to terminate the entire contract by forfeiting all pending dues, Security Deposit & other retention money, if any, after giving 15 days notice to the contractor & this will be binding to the contractor.

## **2.7 SCOPE OF CONTRACTOR**

1. All tools & tackles, equipment, machinery etc. to execute the contract will be in the scope of the contractor. The contractor should ensure for healthiness / working conditions of tools & tackles, equipment, machinery etc.
2. All consumable items like cloth, cotton waste, kerosene, cutting gases, welding electrodes, grinding & cutting wheels, emery papers, lighting appliances, diesel, lubricants, etc. will be in the scope of the contractor.
3. All safety/PPEs required during work at site are to be arranged by the contractor.
4. The Contractor shall have to provide necessary facilities including accommodation for their labour at their own cost outside plant premises.
5. The contractor has to arrange vehicles, machineries, equipment etc. for lifting/shifting of the materials of their own.
6. Contractor has to depute experienced Site In-charge & Supervisors for work execution as per specification and for day to day work planning & coordination with Engineer In-charge of GIPCL, to obtain day to day work permits, to get daily thorough work supervision, to record joint work done reports/measurements, to prepare bills, to prepare & apply manpower gate pass, to maintain statutory & legal compliance records etc.

## **2.8 TO REMEDY DEFECTIVE WORK**

If the work or any portion thereof shall be damaged in any way excepting by the acts of the GIPCL, or if defects not readily detected by proper inspection shall develop before the final completion and acceptance of the whole work, the Contractor shall forthwith make good, without compensation, such damage or defects in a manner satisfactory to the Engineer In-

charge / GIPCL. In no case shall defective or imperfect work be retained even if Contractor followed all technical specifications. GIPCL will not compromise for quality of materials, works & workmanship.

The Contractor shall remain liable under the provisions of this clause notwithstanding the passing by the GIPCL of any certificate, final or otherwise or the passing of any accounts.

## **2.9 DEFECT LIABILITY PERIOD**

The Contractor shall stand guarantee for any defect found in the workmanship for the period of three (3) months from the date of work completion and shall re-do or repair the same free of cost to demonstrate the performance of the works carried out. Further, contractor shall not be liable for any workmanship guarantee when arise due to defect in GIPCL supplied material.

## **2.10 WORK PROGRESS REPORT / WORK PROTOCOL:**

The Contractor shall provide information regarding spares requirement and progress of work, as required by the Engineer In-charge for compiling the progress reports / work protocols. On completion of work, contractor have to submitted detail work report carried out during work execution with photographs of condition before & after work execution. Reconcile the spares issued by GIPCL during course of work execution and return of surplus spares back to GIPCL warehouse with material return voucher generated by Engineer In-charge.

## **3. PRICE & RATES**

The rates quoted by the Bidder in the online Price Bid shall be inclusive of cost of all labour, supervision, cost of safety supervisor, shifting, transportation, loading, unloading, equipment, all tools & tackles, safety equipment & PPEs, royalties, rents, GST, stamp duties, central or state government or local body or municipal taxes or duties, turn-over tax, work contract tax, and / or any other duty / tax, levied by the central, state government or other public bodies 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 quoted 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, equipment, materials, etc.

The rates shall be firm for entire contract period and also during extension, if required and shall not be subject to any escalation in prices, idle charges for labour, machinery, overhead expenses etc. No price escalation / idle charges shall be due to any reason whatsoever.

The prices / item rates quoted by Bidder 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 remain unchanged and the payment shall be made as per the actual quantity executed as informed & certified by GIPCL representatives.

#### **4. TERMS OF PAYMENT**

##### **A. Conditions of Payment:**

The contractor shall raise the location wise separate running invoices 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 and submission of HR related compliance document whichever is later as per the following terms of payment:

- (i) **95%** of bill along with 100% taxes shall be released against the work executed duly certified by GIPCL Income Tax (IT) will be deducted at source from monthly RA bills as per the rules in force.
- (ii) **5%** of bill to be hold/retain as a security deposit and will be release as per PBG clause (post three (3) month of defect liability period)
- (iii) **Note: Contractor may also submit** HR related compliance document including format of monthly statutory compliance format and document in list mentioned below (of previous month) in advance before submission of RA bill dated in current month. This will avoid hold of payment beyond 21 days after submission of bill.
- (iv) **List of major documents to be submit as a part of statutory compliance:**
  - 1. Certificate of Compliance by Contractor
  - 2. Attendance Register
  - 3. Wages Register
  - 4. Wage slip
  - 5. Bank statement for deposition of Wages
  - 6. EPF challan
  - 7. ECR
  - 8. TRRN Confirmation by EPFO / Bank

##### **RA BILL:**

- Contractor must submit protocols for each RA bill on or before 20<sup>th</sup> of each month for certification of Engineer In-charge. After signing / Approval of

- protocol by concern engineer-in-charge, RA Bill completed in all respect shall be submitted before 25<sup>th</sup> of each month.
- For activities(/Part of the Bill) which are under review by engineer in charge till 20<sup>th</sup> date of month, Billing Activities need to be carry forward to next billing cycle for claiming of bill.
- (v) PBG at 5% of Annual contract value excluding taxes & duties shall be submitted as per clause no.: 1 of Section-C.
- (vi) 5 % of each RA bill may be hold/retain for “scrap removal/ site clearing” maximum up to 1 month. After 1 Month GIPCL will remove scrap /clear site at risk and cost of contractor with 15% overhead charges.
- (vii) GST shall be paid along with bills after fulfillment of following terms.
- (a) Submission of copy of registration certificate issued by GST Authority (to be furnished only once).
  - (b) Citing the Goods and service Tax Registration no. And the date of issue of registration certificate on invoices.
  - (c) Claim of GST amount with percentage (%) separately shown on the invoices.
  - (d) The contractor shall be required to submit the proof of payment of GST of previous month/quarter, as may be applicable as & when demanded by GIPCL/Owner/company.
  - (e) The Bidder shall inform the GIPCL in the event of its registration certificate is cancelled or discontinued for whatsoever reason.
- (viii) 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, equipment, vehicles etc. at site. The Contractor shall also furnish the checklist as per **Annexure-H in section-F (i.e. Form-B)** enclosed with the Section-F of tender document along with the RA bill of respective month.
- (ix) While making running account payment, the following deductions may be made by GIPCL, if applicable:
- (a) Cost of materials issued, if any, by GIPCL and to the extent consumed in the work.
  - (b) Security deposit recoverable if any.
  - (c) Advance on materials / work progress advance payments, if any.
  - (d) 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
  - (e) Any other dues recoverable by GIPCL from the contractor under the contract.
- (x) **The contractor along with monthly RA Bill shall submit copy of P.F. Challan, wages register of previous month, attendance sheet of respective month & ECR statement indicating the employee and employer's P.F contribution of previous month with respect of employees employed by him for the contract at GIPCL site.**
- (xi) 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

- (xii) 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.

#### **B. Validity and Uniformity of Rates**

The rates shall be firm and valid for the period of two (2) years of the Contract Period, and for any extensions to the contract period thereof.

#### **5. SUBMISSION OF TECHNICAL DOCUMENTS TO THE ENGINEER IN-CHARGE:**

Contractor shall submit following documents to the Engineer In-charge for verification purpose of the invoice:

- Measurement sheets along with joint record of work done in the form of joint inspection report/protocols duly signed by authorized representative of Contractor and GIPCL's Engineer In-charge.
- Report of Field Overhauling activities.
- Protocols of work executed.

The Invoice will not be entertained without submission of above documents.

#### **6. SUBMISSION OF STATUTORY COMPLIANCES WITH FINAL RA BILL:**

- (i) No claim - No arbitration certificate as per Proforma at Annexure-C in Section-F, after the final bill amount is certified by GIPCL for payment and the same is made known to the contractor by GIPCL & accepted by the contractor.
- (ii) Notarized Indemnity Bond as per Annexure-G in Section-F.
- (iii) Contractor shall submit the undertaking as per GIPCL Format, certifying that there is no outstanding payment of laborer's wages, bonus, PF, Statutory dues as well as outstanding payment of any other agencies like: scaffolding material provider, consumable merchants, or any other sub-agency related to work executed at GIPCL site. In case any such complaint is received by GIPCL regarding non-payment, GIPCL reserves right to hold the payment of contractor till such issue is amicably resolved.

Bill submitted without any of the above documents shall not be processed for payment.

#### **7. MOBILIZATION AND EXECUTION**

- a. GIPCL shall intimate for the mobilization of manpower along with tools & tackles in case of Annual Overhauling (AOH) of Unit(s). The Contractor shall mobilize the manpower along with all required tools and tackles, within seven (7) days of intimation.

- b. Contractor shall provide adequate supervisor(s) who will be responsible for supervision and execution of job in specified time with respect to quality, specifications, site preparations, safety, co ordination with GIPCL, joint measurements etc. The supervisors shall coordinate with the Engineer In-charge of GIPCL for proper execution of the job.
- c. The resources required for execution of above jobs will vary from time to time, hence Contractor shall mobilize the resources accordingly.
- d. The Contractor shall have to provide necessary facilities including accommodation for their labour at their own cost outside plant premises.

## **8. QUANTITY OF WORK**

The estimated quantities of work required to be carried out by the Contractor are as given in the Section-E: Schedule of Quantities and Price. These quantities are estimated and shall vary according to the exigencies of work at site. However, the rates quoted by Bidder shall remain firm irrespective of any variation in estimated quantities. Contractors shall engage required nos. of workmen along with required tools & tackles as per work load and emergency situations throughout the contract period to perform his contractual duties.

In case, contract quantity / amount exhausted before completion of contract period, GIPCL reserve the rights to increase the quantities or contract amount for successful completion of entire contract period. Contractor shall responsible to complete the particular job up to entire satisfaction of Engineer In-charge. The item rates remain firm & unchanged till completion of the contract and any agreed extensions thereafter and shall not be subject to any escalation, idle charges for labour, machinery, equipment, overhead expenses etc. for any reason whatsoever. The quantum of work of individual item may be up to any extent depending upon requirement. However, item rate remains unchanged. Under this contract, Contractor has to execute all work as per the Plant requirement.

## **9. GENERAL CONDITIONS OF CONTRACT**

**General Conditions of Contract (Section-C)** and detailed specification prepared by the company will be applicable for this contract. The same is enclosed herewith. Bidders are advised to go through the same.

Where any portion of the General Conditions of Contract is repugnant to or at variance with any provisions of the Special Conditions of Contract, then unless a different intention appears, the provision of the Special Conditions of Contract shall prevail to the extent of such repugnancy of variance.

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**SECTION – E**  
**Schedule of Quantities and Price**

<b>Part 1 - Flue gas path repair/replacement/correction activity including insulation</b>							
<b>Clause</b>	<b>Clause Description</b>	<b>Sub Clause</b>	<b>Sub Clause Description</b>	<b>UOM</b>	<b>Qty.</b>	<b>Rates (Rs.)</b>	<b>Amount (Rs. excl. GST)</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. Up to 12mtr. Close cubical size only & Actual height irrespective of length of pipe.	---	up to 12m	m <sup>3</sup>	15,600	125.11	19,51,686.36
2	--- Do --- but for height 12 m to 25 m in above clause AND at CERM Floor. Close cubical size only & Actual height irrespective of length of pipe	---	CERM FLOOR & 12m to 25 m	m3	17,000	155.05	26,35,824.50
3	Provide scaffolding material, erection and dismantling of scaffolding inside ducts and hoppers in all four units. Close cubical size only & Actual height irrespective of length of pipe	---	---	m <sup>3</sup>	20,000	161.46	32,29,286.00
4	Provide scaffolding material, erection and dismantling of scaffolding for MEJ/NMEJ and miscellaneous work at outside area in all four units. Close cubical size only & Actual height irrespective of length of pipe	4.1	up to 12m	m <sup>3</sup>	3,250	136.87	4,44,828.80
		4.2	12 to 25m	m <sup>3</sup>	1,400	167.88	2,35,032.14
5	Removal & re-application of hot insulation with cladding sheet on ducting / ESP casing / hoppers etc. in Unit-1 to 4	---	---	m <sup>2</sup>	4,815	540.00	26,00,083.15
6		6.1	up to 15m	MT	128	33,957.26	43,46,529.82

	Shifting of MS Plate/ Corten steel plate/ Structure from ware house to various location within Plant, Cutting, Preparation, Lifting & Fitting / Alignment + complete Welding in all respect + Painting.	6.2	15m to 25m		120	35,927.98	43,11,358.09
		6.3	Inside Hopper/Duct		90	38,804.40	34,92,396.10
7	Dismantling existing plates and structure / stiffener & Scrapping Charges (based on actual weighment slip submission during removal of scrap)	---	---	MT	170	15,672.73	26,64,364.12
8	Dismantling & Scrapping the damaged field internals of complete ESP fields in Unit-1 or 4 as directed by EIC	---	---	per Field	6	2,55,723.14	15,34,338.84
9	Welding Per Single Pass per One meter	8.1	with 3.15 mm 6013 Electrode	m.	4,400	275.34	12,11,516.90
		8.2	with 3.15 mm 7018 Electrode		1,143	386.02	4,41,217.77
10	Anti-corrosive Painting	---	---	M <sup>2</sup>	2,200	170.02	3,74,041.14
11	Opening / Closing of MHD Clamp Type	11.1	Clamp Type	No.	220	86.61	19,054.93
		11.2	Flange Type	No	95	259.84	24,684.79
12	Installation of non-metallic expansion joints (NMEJ) on existing metallic expansion joints (MEJ)	---	---	m.	260	5,206.42	13,53,669.64
13	Cleaning Activity / Removal activity Fly Ash & Debris of corroded steel accumulated.	---	---	Per MP Per Day	1,440	625.54	9,00,778.32
<b>sub Total - Part 1 (excl. GST)</b>							<b>3,17,70,691.41</b>



Part 2 : ESP Maintenance / Servicing / Repair / Replacement of internals including inspection					
Clause	Clause Description	UOM	Qty.	Rates (Rs.)	Amount (Rs. excl. GST)
1	CRM /ERM/GDRM oil top up.	No	28	212	5,928.20
2	PM of CRM /ERM/ GDRM gear box.	No	314	938	2,94,461.70
3	Replacement of emitting electrode. ONE ELE-1 QTY	No	167	156	26,071.67
4	Replacement of shaft insulators for emitting rapping mechanism	No	11	1,663	18,290.38
5	Alignment of collecting / emitting gear box.	No	9	1,246	11,211.61
6	Servicing of collecting / emitting rapping gear box.	No	7	3,322	23,256.21
7	Replacements of gear box of emitting / collecting rapping.	No	6	6,086	36,518.73
8	Field internal inspection for dead shot One field-1qty	No	233	1,744	4,06,358.59
9	Replacements of CRM / ERM coupling.	No	7	2,493	17,447.77
10	ESP casing/hopper manhole door open/leakage attending	No	23	1,820	41,858.82
11	Removal of collecting plate	No	157	2,082	3,26,862.55
12	ESP & APH hoppers drain dechocking work	No	42	1,758	73,833.03
13	ESP GD screen Deflector/dummy plate Fixing/removal	No	382	315	1,20,499.42
14	Plain/Fix Bearing Replacement/Repairing	No	57	710	40,470.87
15	Hammer Replacement	No	333	1,043	3,47,174.98
16	Shock Pad Replacement	No	475	315	1,49,835.66
17	GD screen /hopper baffles Replacement/ repairing	No	33	3,164	1,04,413.94
18	Replacement of support insulator	No	24	6,237	1,49,693.45
19	Replacement of Shaft insulator	No	6	1,554	9,322.16
20	Locking of CE	No	1,762	419	7,38,569.79
21	Re-positioning of Collecting Electrode	No	152	1,246	1,89,351.64
22	Repair of collecting plate	No	470	835	3,92,507.95
23	Locking of row of CE (1 row = 6 CEs)	No. of row	176	1,302	2,29,223.70

24	inspection of Shaft/Support insulator 1 Qty	No	38	132	4,997.91
25	fly ash cleaning over collecting plate/emitting electrode	No	266	125	33,278.75
26	Detail Field internal inspection for Assessment. One field-1 qty for overhauling preparation	No	30	3,488	1,04,641.70
27	Field internal inspection during partial loading	No	52	3,020	1,57,024.57
<b>sub Total - Part 2 (excl. GST)</b>					<b>40,53,105.73</b>

<b>Part 3 - ESP O&amp;M Activity/ Routine external maintenance</b>					
<b>Clause</b>	<b>Clause Description</b>	<b>UOM</b>	<b>Qty.</b>	<b>Rates (Rs.)</b>	<b>Amount (Rs. excl. GST)</b>
1	Hopper Ash/foreign material evacuation minor (lump-sum)	No.	20	1,130.25	22,605.00
2	Hopper Ash/foreign material evacuation major	Per hour per MP	900	120.83	1,08,747.81
3	Hopper minor leakage arresting work through sodium/wool + minor patch work (max 4 Hr. job 1 team); major if any to be carryout through job clause (lump sum)	No.	217	1,439.28	3,12,323.28
4	Flue gas path inspection running unit / from outside ESP both pass + APH Exhaust to ESP inlet + ID Exhaust to chimney inlet	No.	104	1,560.11	1,62,251.30
5	Identification of leakage major (Leakage size: more than 300 mm x 300 mm)	Per leakage	500	494.02	2,47,008.30
6	Identification of leakage minor Leakage size: less than 300 mm x 300 mm	Per leakage	500	198.89	99,444.90
7	Flue gas path inspection outage unit or pass / from inside single ESP pass	No.	80	2,352.46	1,88,196.80
8	Flue gas path inspection outage unit or pass / from inside APH Exhaust to ESP inlet	No.	16	1,176.23	18,819.68
9	Flue gas path inspection outage unit or pass / from inside ESP Exhaust to ID inlet	No	12	1,301.34	15,616.06
10	Flue gas path inspection outage unit or pass / from inside ID Exhaust to chimney inlet	No	8	1,463.87	11,710.97

11	ERM / CRM auto mode operation / Frequency verification per pass	No.	240	653.34	1,56,802.15
12	ERM / CRM Frequency verification per hour for specific ERM or CRM	No.	40	81.27	3,250.67
13	ESP Field Reading collection per pass in prescribed format / prescribed frequency	No.	626	124.04	77,648.29
14	Interlock system servicing / greasing during shutdown per pass basis	No.	8	1,130.25	9,042.00
15	Shaft insulator / support insulator temperature measurement per SI basis	per SI	16	494.02	7,904.27
16	Joint leakage survey hopper with AHS per unit / per hopper	per Hopper.	104	48.12	5,004.32
17	Hopper MHD Replacement work (Readymade MHD will be provided by GIPCL)	No.	40	4,039.82	1,61,592.62
18	ERM frame / MHD Replacement work (Readymade MHD will be provided by GIPCL)	No.	40	3,281.68	1,31,267.27
19	CRM Frame / MHD Replacement (Readymade MHD will be provided by GIPCL)	No.	24	7,909.61	1,89,830.69
20	Pre-shutdown in detail inspection	per field	26	2,380.26	61,886.81
21	Deputation of expert engineer / special fitter	per day	50	3,696.57	1,84,828.51
<b>sub Total - Part 3 (excl. GST)</b>					<b>21,75,781.70</b>

**Part 4 - Fabrication Activity**

Clause	Clause Description	UOM	Qty.	Estimated Rates (Rs.)	Estimated Amount (Rs. excl. GST)
1	Fabrication Charges (except plate bending) for thickness of plate below 6 mm (say 5 mm, 3.15 mm, 2 mm etc.) at ground floor. Scope covers full welding per MT (along with 1 coat red-oxide painted, paint will be issued by GIPCL).	MT	5	30,689.55	1,53,447.76

2	Fabrication Charges of Duct / MHDs / Hoppers etc. (except bending) for thickness 6 mm / 8 mm plate and 8 mm ISMC/ISMB/ISA and 10 mm thick ISMC/ISMB/ISA at ground floor. Scope covers full welding (with E6013 or E7018 whichever is applicable) per MT (along with 1 coat red-oxide painted, paint will be issued by GIPCL).	MT	30	27,279.98	8,18,399.45
<b>sub Total - Part 4 (excl. GST)</b>					<b>9,71,847.21</b>

<b>Part 5 - For execution of work not covered in Parts 1 to 4 (Un-foreseen jobs)</b>						
<b>Sr. No.</b>	<b>Clause (Manpower type)</b>	<b>Clause (Manpower) Description</b>	<b>UOM</b>	<b>Qty.</b>	<b>Rates (Rs.)</b>	<b>Amount (Rs. excl. GST)</b>
1	Specially Skilled Manpower	Fabricator fitter, Foreman for lifting /Dismantling, Special Fitter	Per Day (Normal)	68	1,032.94	70,240.18
2	Semi-skilled Manpower	Welder, cutter, Rigger, grinder, Refractory breaker operator	Per Day (Normal)	136	982.69	1,33,645.39
3	Un-skilled Manpower	Helper	Per Day (Normal)	204	905.70	1,84,762.21
4	Specially Skilled Manpower	Fabricator fitter, Foreman for lifting /dismantling, Special Fitter	Per hour (OT)	96	258.77	24,841.98
5	Semi-skilled Manpower	Welder, cutter, Rigger, grinder, Refractory breaker operator	Per hour (OT)	192	247.01	47,425.59
6	Un-skilled Manpower	Helper	Per hour (OT)	232	225.35	52,282.35
<b>sub Total - Part 5 (excl. GST)</b>						<b>5,13,197.70</b>

Summary of Part 1 to 5		
Sr. No.	Part & Description	Total Amounts (excl. GST)
1	Part 1 - Flue gas path repair/ replacement/ Correction activity including insulation	3,17,70,691.41
2	Part 2 - ESP Maintenance / Servicing / Repair / Replacement of internals including inspection	40,53,105.73
3	Part 3 - ESP O&M Activity/ Routine external maintenance	21,75,781.70
4	Part 4 - Fabrication Activity	9,71,847.21
5	Part 5 - For execution of work not covered in Parts 1 to 4 (Un-foreseen jobs)	5,13,197.70
Grand Total (excl. GST)		3,94,84,623.74
GST @ 18%		71,07,232.27
Grand Total (incl. 18% GST)		4,65,91,856.02

**Notes:**

- The quoted rates by Bidders shall include all labour cost, equipment, supervision, consumables, tools, tackles, all taxes & duties (exclude GST, which shall be paid as per extant GST laws).
- All required erection & commissioning activities, not mentioned above, but may be required for complete work execution shall be in Contractors' scope.
- Bidder shall have to quote the rates in the form of percentage (%) i.e.**  
**AT the Estimated Contract value OR**  
**\_\_\_\_\_ % BELOW the Estimated Contract value OR**  
**\_\_\_\_\_ % ABOVE the Estimated Contract value**

## **SECTION - F**

### **LIST OF ANNEXURE & FORMS**

#### **ANNEXURE – A**

#### **PROFORMA FOR CONTRACT SECURITY-CUM-PERFORMANCE GUARANTEE BY SELLER / CONTRACTOR** (To be executed on non-judicial stamped paper of approximate value)

B. G. No. \_\_\_\_\_ Date: \_\_\_\_\_

1. WHEREAS Gujarat Industries Power Company Limited having its office at PO: Ranoli, Dist. Vadodara – 391 350, Gujarat State, India (hereinafter referred to as “The Company/Owner” which expressions shall unless repugnant to the subject or context includes its legal representatives, successors and assigns) has entered into a contract with M/s \_\_\_\_\_/ has placed a purchase order on M/s \_\_\_\_\_ (hereinafter referred to as “Contractor(s)/ Seller(s)” which expression shall unless repugnant to the subject or context includes their legal representatives, successors and assigns) for \_\_\_\_\_ on the terms and conditions as set out inter alia, in the Company’s contract No. / P. O. No \_\_\_\_\_ date \_\_\_\_\_ and various documents forming part thereof hereinafter referred to as the “said contract” which expression include all amendments, modifications and/or variations thereto and where as the Contractor(s)/Seller(s) has agreed for due execution of the entire contract and guarantees its performance including any parts executed through any other agencies / subcontractors.

AND WHEREAS one of the conditions of the “said contract” is that “contractor(s)/ seller(s) shall furnish to the owner a Bank Guarantee from a bank for \_\_\_\_% (\_\_\_\_ percent) of the total value of the “said contract” against due and faithful performance of the “said contract” including performance guarantee obligations of the contractor(s)/seller(s) for execution/supplies made under the “said contract.”

2. We \_\_\_\_\_ Bank having its branch office at \_\_\_\_\_ do hereby agree and undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from the Company stating that in the opinion of the Company, which is final & binding, the amount claimed is due by reason of

default made by the Contractor(s)/ Seller(s) in performing any of the terms & conditions of the said Contract including defect liability obligations, in fulfilling the performance guarantee obligation or loss or damage caused to or would be caused to or suffered by the Company by reason of any breach by the said Contractor (s)/ Seller(s) of any of the terms & conditions of the contract. Any such demand made on the Bank by the owner shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only).

3. We undertake to pay to the Company any money so demanded notwithstanding any dispute or disputes raised by the contractor(s)/ Seller(s) in any suit or proceeding pending before any office, court or tribunal relating thereto our liability under this present guarantee being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under. Our liability to pay is not dependent or conditional on the owner proceeding against the Contractor(s)/ Seller(s).
4. The guarantee herein contained shall not be determined or affected or suspended by the liquidation or winding up, dissolution or change of constitution or insolvency of the said Contractor(s)/ Seller(s) but shall in all respect and for all purposes be binding and operative until payment of all money due or liabilities under the said contract(s)/ Order(s) are fulfilled.
5. This guarantee will remain valid up \_\_\_\_\_ days or \_\_\_\_\_ whichever is earlier. The Bank undertakes not to revoke this guarantee during its currency without previous consent of the OWNER/PURCHASER and further agrees that if this guarantee is extended for a period as mutually agreed between bidder & owner/purchaser, the guarantee shall be valid for a period so extended provided that a written request for such extension is received before the expiry of validity of guarantee.
6. We \_\_\_\_\_ Bank further agree with the Company that the company shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract(s)/ Order(s) or to extend the time of performance by the said Contractor(s) Seller(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the said Contractor(s)/ Seller(s) and to forbear or enforce any of the terms and conditions relating to the said Contract(s)/ Order(s) and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor (s) / Seller(s) or for any forbearance, act or omission on the part of the Company or any indulgence by the Company to

the said Contractor(s)/ Seller(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have affect of so relieving us.

7. Notwithstanding anything contained herein before, our liability shall not exceed Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) and shall remain in force till \_\_\_\_\_ Unless a demand or claim under this Guarantee is made on us within three months from the date of expiry we shall be discharged from all the liabilities under this guarantee.

Date \_\_\_\_\_  
Corporate Seal of the Bank

\_\_\_\_\_ Bank  
By its constitutional  
Attorney Signature of  
duly authorized person  
On behalf of the Bank  
With Seal & Signature code



**ANNEXURE - B**

**PROFORMA FOR BANK GUARANTEE FOR EARNEST MONEY DEPOSIT**

(To be executed on non-judicial stamped paper of appropriate value)

B.G. No. \_\_\_\_\_ Date: \_\_\_\_\_

1. WHEREAS M/s. Gujarat Industries Power Company Limited having its Corporate Office at PO: Ranoli, Dist. Vadodara – 391 350, Gujarat State, India (hereinafter called “The Company Owner” which expression shall unless repugnant to the subject or context includes its legal representatives, successors and assigns) has issued tender paper vide its Tender No. \_\_\_\_\_ for \_\_\_\_\_ (hereinafter called “the said tender”) to M/s \_\_\_\_\_ (hereinafter called the said Tenderer(s)” which expression shall unless repugnant to the subject or context includes their legal representatives, successors and assigns and as per terms and conditions of the said tender, the tenderer shall submit a Bank guarantee for Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) towards earnest money in lieu of cash.
2. We \_\_\_\_\_ Bank having its branch office at \_\_\_\_\_ do hereby undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Company stating that in the opinion of the company which is final and binding, the amount claimed is due because of any withdrawal of the tender or any material alteration to the tender after the opening of the tender by way of any loss or damage caused to or would be caused or suffered by the Company by reason of any breach by the said tenderer(s) of any of the terms and conditions contained in the said tender or failure to accept the letter of Intent Agreement or that the amount covered under this Guarantee is forfeited. Any such demand made on the Bank by the owner shall be conclusive as regards the amount due and payable by the Bank under this guarantee, However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only).
3. We undertake to pay to the Company any money so demanded notwithstanding any dispute or disputes raised by the tenderer (s) in any suit or proceeding pending before any office, court or tribunal relating thereto our liability under this present guarantee being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under. Our liability to pay is not dependent or conditional on the owner proceeding against the tenderer.
4. The guarantee herein contained shall not be determined or affected or suspended by

the liquidation or winding up, dissolution or change of constitution or insolvency of the said tenderer(s) but shall in all respect and for all purposes be binding and operative until payment of all money due or liabilities under the said contract(s)/ Order(s) are fulfilled.

5. We \_\_\_\_\_ Bank Ltd. further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the finalization of the said tender and that it shall continue to be enforceable till the said tender is finally decided and order placed on the successful tenderer(s) and or till all the dues of the company under or by virtue of the said tender have been fully paid and its claims satisfied or discharged or till a duly authorized officer of the company certifies that the terms and conditions of the said tender have been fully and properly carried out by the said tenderer (s) and accordingly discharges the guarantee.
6. That the Owner Company will have full liberty without reference to us and without affecting this guarantee to postpone for any time or from time to time the exercise of any of the power of the owner under the tender.
7. Notwithstanding anything contained herein before, our liability shall not exceed Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) and shall remain in force till \_\_\_\_\_ (Date to be filled up shall be 180 days from the date of submission of Bid).

Date \_\_\_\_\_  
Corporate Seal of the Bank

\_\_\_\_\_ Bank  
By its constitutional Attorney  
Signature of duly Authorized person  
On behalf of the Bank  
With Seal & Signature code

**ANNEXURE-C**

**Proforma Certificate (No claim, No arbitration)**

To,  
Addl. General Manager (O&M) - SLPP  
Gujarat Industries Power Company Limited,  
Surat Lignite Power Plant,  
Village: Nani Naroli, Ta. Mangrol,  
Dist. Surat – 394110 (Gujarat).

**Subject:** \_\_\_\_\_

**Ref:** Work Order No.: \_\_\_\_\_ dated \_\_\_\_\_

Dear Sir,

We hereby confirm with free consent as under: -

1. The measurements certified in final bill are full and final. We accept all the certified measurements and no claim related to the measurement is left.
2. The payment certified in that or above referred Lol / contract is full and final. We accept this, and no claim related to payment is left.
3. The rates of the Lol / contract and its amendments are firm till completion of contract and extension period. We shall not claim any escalation against these rates.
4. Along with the contract referred, the ARBITRATION CLAUSE also perishes i.e. we will not resort to arbitration.
5. No extra items are left to be settled.
6. We do not have any claims against any item related to the Lol than those items certified in the bills.
7. We are accepting the recoveries or hold amount from our bills, if any, made by GIPCL against non-compliance or as decided by GIPCL within terms & conditions of contract.
8. We have paid royalties, taxes for all the materials procured by us, for carrying out the works for above Lol and we indemnify GIPCL from any liability arising thereof.
9. In case of any disputes arising in future related to payment of royalties, all liabilities of settlement of dispute and its payment if any, will be borne by us.
10. We have paid wages to all the workmen who were deployed by us for carrying out above referred work as per prevailing Minimum wages act. We have also fulfilled all requirements of the P.F. Act. We have maintained all records necessary as per the statutory requirements. We hereby indemnify GIPCL from any disputes arising in future related to payment of labours, Provident Fund, etc. and confirm that all liabilities of settlements of disputes and their payment is our responsibility.

The above confirmation will come into effect as soon as payment from final bill after due recoveries will be received by us.

For, M/s. \_\_\_\_\_  
Signature, Stamp and date

**ANNEXURE-D**

**Declaration cum Undertaking for Safety Laws and Regulations Compliance**

(To be submitted on Company's Letter Head)

I \_\_\_\_\_ on behalf of \_\_\_\_\_ (Name of Bidder / Company) hereby confirm, agree and undertake that all the Statutory and Safety Laws and Regulations of the applicable Authority/ies shall be strictly followed for all types of works at the site during the period of the Contract, if awarded to me.

**Signed and stamped by the authorized signatory of the Bidder**

---

**Declaration for Contractual Litigations**

(To be submitted on Company's Letter Head)

**Please Tick (v) whichever is correct option**

I \_\_\_\_\_ on behalf of \_\_\_\_\_ (Name of Bidder / Company) hereby confirm that I /We have

- a.** Not invoked legal recourse e.g. litigation against any Govt, of Gujarat Undertakings / Depts. / Authorities and Govt. of Gujarat supported companies / undertakings / organizations for the last three (03) years. There are no ongoing/pending legal matter(s) with any of the Govt. of Gujarat Undertakings / GoG supported Companies, including GIPCL.

Please Tick (    )

**OR**

- b.** Invoked legal recourse e.g. litigation against any Govt, of Gujarat Undertakings / Depts. / Authorities and Govt. of Gujarat supported companies / undertakings / organizations for the last three (03) years.

Please Tick (    )

If "b" is applicable, please submit the details for the same.

The above is true, as on date, to the best of my knowledge. Any breach/ false statement in this regard shall amount to disqualification of the Bid being submitted herein.

**Signed and stamped by the authorized signatory of the Bidder**

**ANNEXURE-E**

**SCHEDULE OF DEVIATION FROM GENERAL AND TECHNICAL SPECIFICATIONS**

All the deviations from the general and technical specifications shall be filled by BIDDER clause by clause in this schedule.

<b>Sr. No.</b>	<b>SECTION</b>	<b>CLAUSE No.</b>	<b>AS PER TENDER DOCUMENT</b>	<b>DEVIATION</b>

**Company's Seal**

**Signature** \_\_\_\_\_

**Name** \_\_\_\_\_

**Designation** \_\_\_\_\_

**Company** \_\_\_\_\_

**Date** \_\_\_\_\_

The bidder here by certifies that the above mentioned are the only deviations from OWNER's Tender enquiry. The bidder further confirms that in the events any other data and information presented in the BIDDER's proposal and accompanying documents are at variance with specific requirements laid out in the OWNER's Tender Document, then the latter shall govern and will be binding on the BIDDER for quoted price.

**ANNEXURE-F**

**PARTICULARS OF THE BIDDER**

<b>Sr. No.</b>	<b>Particulars</b>	<b>Please provide information here.</b>
1.	Name of Bidder	
2.	a. Registered Office Address:  b. Address for Correspondence:  c. E-mail ID:	
3.	Contact Details:  Contact Person Name  Telephone No.:  Mobile No.:	
4.	Year of establishment  PAN No.  GST No	

**Company's Seal**

**Signature** \_\_\_\_\_

**Name** \_\_\_\_\_

**Designation** \_\_\_\_\_

**Company** \_\_\_\_\_

**Date** \_\_\_\_\_

**ANNEXURE-G**

**[On Rs.300/- Non-Judicial Stamp paper with notary]**

**INDEMNITY BOND**

We, M/s..... having registered office at..... thereby solemnly state, declare and represent: THAT we have been entrusted a job .....for year..... i.e. from .....to .....vide Work order No:.....Dated..... on contract basis by M/s Gujarat Industries Power Company Limited for it's Surat Lignite Power Plant at Village Nani-Naroli, Taluka Mangrol, Dist. Surat and we have undertaken the said work and have completed the same at GIPCL site during .....to ..... period.

THAT we are fully aware about the applicability of various Labour Legislation and Rules framed thereunder, to be Contractor & Contract Labours Legislations and Rules framed thereunder, to the Contractor & Contract Labours, which includes (1) The Contract Labour (Regulation & Abolition) Act, 1970. (2) The Employee's Provident Fund & Miscellaneous Provisions Act, 1952. (3) The Minimum Wages Act, 1948. (4) The Payment of Wages Act, 1936. (5) The Employee's Compensation Act, 1923. (6) The Payment of Bonus Act, 1965. (7) The payment of Gratuity Act, 1972. (8) The Equal Remuneration Act, 1976 etc. to our establishment and Gujarat Industries Power Company Limited.

THAT we have completed the execution of the said contractual job and now our final bill worth Rs..... /- is pending for payment. We state and declare that we have complied with all related provisions of the laws as applicable to our establishment and/or GIPCL during contractual period. In case any liabilities or responsibilities whatsoever arise in respect of the permanent and/or temporary we shall bear full responsibilities thereof (including that of sub-contractors) and shall meet with the requirement at any point of time, if the disputes is raised either by workman or their union or by way of inspection remarks passed by Govt. Agencies. THAT in consideration of the aforesaid liabilities due to us and/ or breach of any statutory provisions under any law, if any we hereby agree to indemnify, save keep harmless the company against all recoveries, claims, damages, costs and expenses which may be made against or suffered or incurred by Gujarat Industries Power Company Limited, Baroda/ Nani-Naroli by any reason or consequence of such payment/s and or Liability/ies.

Name, Signature & Seal of Proprietor/Owner

Place:

Date:

**ANNEXURE - H**

**CHECKLIST TO BE SUBMITTED ALONG WITH MONTHLY INVOICE**

(BIENNIAL RATE CONTRACT)

For month of: \_\_\_\_\_

- 1) Work Order/ P.O. No. & Contract value : \_\_\_\_\_
- 2) Nature of work : \_\_\_\_\_
- 3) Duration of Work Order : \_\_\_\_\_
- 4) Maximum number of manpower : \_\_\_\_\_ per day  
deployed in the month
- 5) Details of Labour License : \_\_\_\_\_
- 6) Details of W.C. policy : \_\_\_\_\_
- 7) Documents attached for verification for the previous month:
  - Wage & Attendance sheets Yes / No
  - P.F. Challan Yes / No
- 8) Documents attached for verification:
  - Bonus payment register Yes / No
  - Leave wage register Yes / No
- 9) Security Deposit lying with Company: Yes / No  
If Yes, d \_\_\_\_\_

Date: \_\_\_\_\_

Signature of Contractor  
with official stamp



## **ETHICS PACT**

### **GUJARAT INDUSTRIES POWER COMPANY LIMITED**

Reference PO Number

Date:

Integrity Pact No.:

Contract Period:

To create an environment where Business Confidence is built through best business practices and is fostered in an atmosphere of trust and respect between providers of goods and services and their users for the benefit of stakeholder, society and the nation.

<b>GIPCL'S COMMITMENT</b>	<b>PARTY'S COMMITMENT</b>
To maintain the highest ethical standards in business and professions	Not to bring pressure / recommendation from outside GIPCL to influence its decision.
To ensure maximum transparency to the satisfaction of all stakeholders.	Not to use intimidation, threat, inducement or pressure of any kind on GIPCL or any of its employees.
To fulfill the terms of agreement / contract and to consider objectively the viewpoints of other stakeholders.	To be prompt and reasonable in fulfilling the contract, agreement and legal obligations.
To ensure regular and timely release of payments.	To provide goods and / or services timely as per agreed.
To ensure that no improper demand is made by employees or by anyone on our behalf	To maintain the general discipline in our dealings and transactions.
To give maximum possible assistance to all the Vendors / Suppliers / Service Provider and others to enable them to complete the works in time.	To be truthful and honest in furnishing information.
To provide all necessary information to suppliers /contractors relating to contract / job to facilitate them to complete the contract / job successfully in time.	Not to divulge to others any information, business details about GIPCL made available during the course of business relationship without the written consent of GIPCL.
To ensure that no hurdles are caused to vendors / suppliers / contractors in execution of agreement / contract / work.	Not to enter into cartel / understanding whether formal or informal so as to influence the price.

Seal & signature

Seal & Signature

**(GIPCL's Authorized Signatory)**

**(Bidder's Authorized Signatory)**

**Name:**

**Name:**

**Designation:**

**Designation**