

GUJARAT INDUSTRIES POWER COMPANY LIMITED

(Surat Lignite Power Plant)

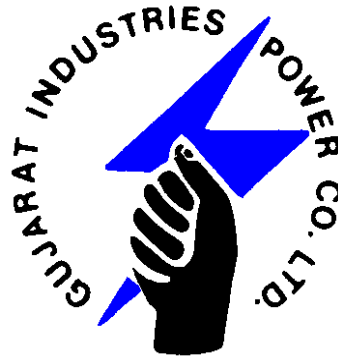
AT & POST NANI NAROLI, TALUKA: MANGROL, DIST: SURAT, PIN 394110 (GUJARAT)

Phone Nos.: EPABX (02629) 261063 to 261072, fax Nos.: (02629) 261112, 261080

TENDER DOCUMENTS FOR;

“Construction of RCC Road near Dungri-Vastan Crossing”

Bid No.: SLPP/Civil/Mines/RCC Road/2019



INSTRUCTIONS TO BIDDERS & CONDITIONS OF CONTRACT

INDEX

<u>Sr. No.</u>	<u>PARTICULARS</u>	<u>PAGE NO.</u>	
		From	To
(1)	<u>NOTICE INVITING TENDER (NIT)</u>	3	3
(2)	<u>SECTION – A</u> (Instructions to Bidders)	4	19
(3)	<u>SECTION – B</u> (Instructions to Bidders for online tendering)	20	20
(4)	<u>SECTION – C</u> (General Conditions of Contract)	21	33
(5)	<u>SECTION – D</u> (Special Conditions of Contract)	34	40
(6)	<u>SECTION – E</u> (Schedule of Rate)	41	42
(7)	<u>SECTION – F</u> (Annexures and Forms)	43	56
(8)	<u>SECTION – G</u> (Technical Specification)	57	76
(9)	<u>Drawing</u>	Separately attached	

NOTE: All the Bidders should study entire Tender documents carefully & may carry out site visit before quoting & submitting their online Bid to understand scope of work and its importance.

NOTICE INVITING TENDER

Name of work	Surat Lignite Power Plant - 4X125 MW, Unit # I to IV: “Construction of RCC Road near Dungri-Vastan Crossing”
Place of work	Surat Lignite Power Plant, Village: Nani Naroli, Taluka: Mangrol, Dist.: Surat - 394110 (Gujarat).
Quantity	The successful Bidder will be awarded this contract involving total quantities of various items as mentioned against item descriptions in SOR.
Contract period	4(Four) Months from the date of issue of LOI/Work order whichever earlier.
EMD	Rs.29,000/- by Demand Draft payable at Mosali-Surat/Nani Naroli/Surat or Bank Guarantee in favor of GIPCL from approved Banks mentioned in this tender in subsequent clauses.
Cost of tender document / tender fee	Rs.2,000/- by Demand Draft in favour of GIPCL payable at Motamiya-Mangrol or Nani Naroli.
Site Visit	Interested parties may carry out site visit to understand nature of work & site conditions. Site visit may be carried out during any of working day of online bid submission period.
Availability of online e-Tender document	On website: https://www.nprocure.com or https://gipcl.nprocure.com
Last date of online submission of offer	22.07.2019 up to 17:30 hrs. On website https://www.nprocure.com or https://gipcl.nprocure.com
Submission of EMD	On or before 22.07.2019, 17.30 hours at office of Surat Lignite Power Plant, Nani Naroli, Dist. Surat.
E-Reverse Auction	E-Reverse Auction will be executed through website: https://e-auction.nprocure.com (Schedule will be intimated later on to eligible bidders).

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 in 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 the website <https://www.nprocure.com> or <https://gipcl.nprocure.com>
5. The EMD & other supporting documents are to be submitted in physical form only at the following address:-
Chief General Manager (Mines)
Gujarat Industries Power Company Limited
Surat Lignite Power Plant
At Village: Nani Naroli,
Taluka: Mangrol, Dist.:Surat-394 110, Gujarat.
Phone: (02629) 261063-72. E-Mail: slppcivil@gipcl.com

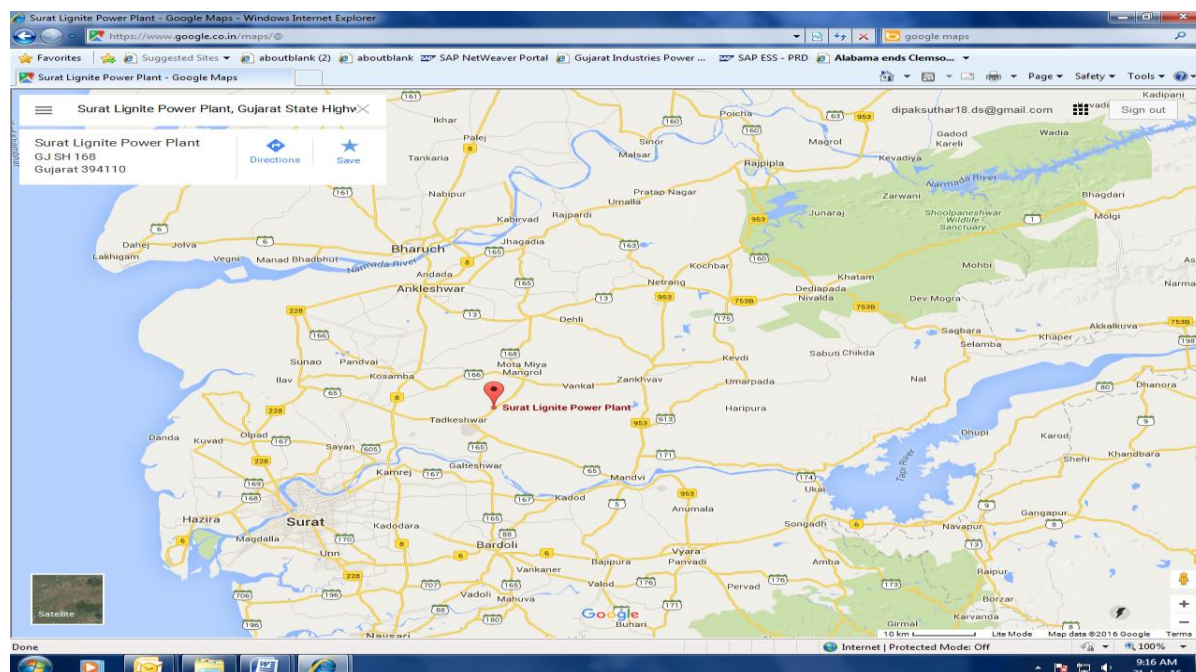
SECTION-A INSTRUCTIONS TO BIDDERS

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 810 MW and 5 MW Solar Power Plant. GIPCL has also commissioned 112.40 MW Wind Energy Farm as well as each 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

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 has 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.

Surat Lignite Power Plant (SLPP) is accessible by road from Kim and Kosamba, which are on Mumbai-Ahmedabad 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 work of “Construction of RCC Road near Dungri-Vastan Crossing” and is therefore inviting tenders from shortlisted experienced & resourceful contractors.

2. **SCOPE OF WORK**

The scope of work covered by this specification, in general, comprises the Construction of RCC Road outside plant boundary at Vastan-Dungri of Surat Lignite Power Plant-GIPCL.

Scope of works covered under this specification includes in general:-

(1) Earthwork in excavation and Backfilling:-

Earthwork in excavation below existing ground level not more than 400 mm in all class of Soil including excavation of existing bituminous road i.e. bitumen surface top such as Built up Spray Grout (BSG), Carpet, Seal coat and WBM as the case may be. Dressing of the excavated bottom in true line and level and compacting as required. Making Readiness for PCC by removal of all loose material, stacking of useful materials as required for back filling sides of Completed RC Road, backfilling and compacting the sides of RCC Road and also disposal of left out surplus earth/materials at designated location in mines within three km of lead.etc complete.

(2) Laying of Plain Cement Concrete (PCC):-

Providing and laying Plain cement concrete (PCC) 1:4:8 (1 cement : 4 sand : 8 graded stone aggregates 20 mm nominal size) around 50mm thick, including preparing and ramming the excavated loose base before placing the concrete, compacting the laid PCC, curing, dewatering (if required). All the construction materials such as Cement, aggregates, sand including labours, supervision, materials, equipments, tools & tackles, all lead & lift... etc. including cost of providing, fixing & removing of rigid formwork is in the scope of bidder.

(3) Laying of M30 grade design mix Reinforced cement concrete (RCC):-

Providing & Laying reinforced cement concrete M30 grade design mix with 20mm downgraded stone aggregates confirming to IS 456 (**Minimum cement Content 400 Kg/m³ of RCC of OPC 53 grade cement of manufacturer Ultratech, Sanghi, Siddhi or J.K. Laxmi**) including **mixing by mixer machine (Diesel operated)/Ready mix Concrete** and placing of concrete in position, compacting by poker vibration and finally by **surface vibrator for perfect top level**, rigid shuttering with camber in correct line and level by placing ISMC 100 & 150MM channels in centre of 6m wide road (since thickness of RCC road is 250mm and reinforcement is 100mm below top level at centre of 6m wide road) and by ply or channel at side end of RCC Road, leveling and finishing the surface of placed concrete by sprinkling Fosroc make Nito floor hardener at the rate of 1.5 Kg/sq.mt at top of finished surface and also including making of construction joint 10mm wide and 50mm deep at 5.0mtr x 3mtr interval in longitudinal and transverse direction respectively (by cutting groove in hardened concrete by cutter machine and filling bitumen mixed with sand in cut groove), making and breaking of vatta for curing including all cost of labour, cement, aggregate, curing, lead, Supervision, all materials, tools and tackles etc. Concreting shall be laid in alternate panel of 5.0mx3m. **Water required for concreting and Curing shall be provided by GIPCL** but necessary pipes of required size and joint fittings/Water tankers required for transportation of water shall be in the scope of bidder. **Bidder has to make arrangement for Design mix, aggregate testing and testing of concrete cube at approved laboratory of GIPCL.**

(4) Supplying and fixing of Fe 500 grade TMT/HYSD bar reinforcement:-

Supplying and fixing of Fe 500 grade TMT/HYSD bar reinforcement confirming to IS1786 of **Electrotherm, Sail or Vizag make** for R.C.C. Road work including transportation, loading, unloading, shifting, straightening, handling, cutting, bending, binding, placing and tie in position using cover blocks of same grade of concrete as that of concrete in all RCC items of work including cost of GI binding wire 18SWG double knot, cost of all required labours, supervision, materials, wastage and

equipments, tools & tackles, etc., all complete **Unavoidable laps shall be provided and paid as directed by Engineer in charge, however no payment shall be made for wastage, extra chairs and avoidable laps placed without direction of EIC shall not be payable.**

(5) Only fixing of supplied reinforcement:-

Only fixing of reinforcement bar for R.C.C. Road work including shifting from company's warehouse, loading, unloading, straightening, handling, **cleaning by buffing wheel machine**, cutting, bending, binding, placing and tie in position using cover blocks of same grade of concrete as that of concrete in all RCC items of work including cost of GI binding wire 18SWG double knot, cost of all required labours, supervision, wastage and equipments, tools & tackles, etc., all complete.

(6) Providing and fixing of expansion joint:-

Providing and placing in position 25 mm thick approved quality pre molded joint filler (Supreme make pre molded compressible Filler Board or equivalent) having minimum density 95 kg/Cu.Mt, Non staining with less than 1% water absorption & compression recovery of 92% minimum as per specification for expansion joints and also including making groove of 25 mm deep, cleaning of same and refilled it with Fosroc make COLPOR-200 or equivalent etc and also including fixing of 500 mm long 32mm dia MS rod @ 250mm c/c (32 mm dia reinforcement shall be supplied by GIPCL) including 250mm long PVC pipe sleeves and dowel cap, filling space between MS Rod & PVC Pipe Sleeve by cotton waste to maintain gap including all materials, labour, transportation, tools & tackles etc complete as per drawing and as directed by Engineer in charge.

Bidder shall engage full time site supervisor/engineer for supervision of RCC road work, safety of manpower & equipments, measurement etc as directed by Engineer-in charge.

Bidder shall carryout the work as given in tender documents within provided time period and the works shall conform to high standards of engineering, design, workmanship, proper line and level and quality plan and as directed by Engineer in charge

The quantities specified are only estimated and it may get vary at any stage during contract period, so contractor is required to carry out the scope of work as per specifications, nomenclature of Schedule of Rates (Section E) and as per the time to time instructions provided by Engineer-in-charge of GIPCL.

3. GENERAL INSTRUCTIONS

- 3.1 The interested Bidders must read and comply with the instructions and the Terms & Conditions contained in the tender documents **consist of instruction to bidders and conditions of contract with Section A to G as per index on page no 2.**
- 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, 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 quote Price Bid. However, GIPCL reserves the rights to allot contract to a single Bidder or GIPCL may split the contract between two parties. In case of splitting of the contract between two parties, the L2 Bidder shall match the rate with L1 Bidder.
 - 3.6 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.
 - 3.7 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.
 - 3.8 The tender documents shall not be transferable.
 - 3.9 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 or during Pre-Bid meeting if required.
 - 3.10 Conditional offers shall not be considered and liable to be rejected.
 - 3.11 The Company reserves the right to extend the deadlines for submission of the Bids by giving amendments.
 - 3.12 Pre-Bid meeting will not organized by the Company Bidders may seek any clarifications from the Company on their written request regarding the tender document.
 - 3.13 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.
 - 3.14 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.
 - 3.15 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.
 - 3.16 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.
 - 3.17 Timely and satisfactory completion of the work and strict adherence to the allotted time frames for jobs shall be the essence of the contract.
 - 3.18 The Company reserves the right to qualify/disqualify any applicant without assigning any reason.
 - 3.19 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.
 - 3.20 GIPCL reserves the right to opt for e-Reverse Auction of the subject work at the sole discretion of GIPCL.**
 - 3.21 To participate in e-Reverse Auction, bidders have to register on nProcure's e-Auction Portal: <https://e-auction.nprocure.com>**
 - 3.22 After e-Reverse Auction process, L1 bidder shall be decided on lowest offered rate amongst other bidders during specified e-Reverse Auction process.**

4. **SITE VISIT**

It is perquisite and necessary for all interested bidders to visit the Surat Lignite Power Plant (SLPP) after downloading the tender copy from website: <https://www.nprocure.com> or <https://gipcl.nprocure.com> to understand the actual working conditions, requirement of resources, 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/her 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/her 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/her contractual obligation within the scheduled rates and to have satisfied himself/herself to the sufficiency for his/her offer.

The submission of tender by a contractor implies that he/she has read these instructions, conditions of the contract etc. and has him/herself aware of the scope, nature of works & specifications of the works to be done. 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 him/herself regarding matters such as access to site, communication, transport, working conditions, gate pass system, safety requirements, work permit system, right of way, flow of water during monsoon/dry season, the type & number of equipments, tools & tackles, PPEs etc and facilities required for the satisfactory & timely completion of quality works adhering to safety, the estimated quantity of various items of the work, the availability of local labour, availability & rates of material, local working conditions, uncertainties of weather, obstructions & hindrances that may arise, etc which may affect the work or cost thereof, before submission of his/her 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 rate quoted by BIDDER shall be based on his/her own knowledge and judgment of the conditions & hazards involved and shall not be based on any representations of the GIPCL Engineer.

5. **ELIGIBILITY CRITERIA**

The following criteria will be adopted for qualifying the Bidders for consideration of the Bid for the further proceeding.

5.1 Bidder should possess minimum **Three years** of experience **out of last five years** (as per following Cl. No.5.2) in similar nature civil works such as Excavation, PCC, RCC works in Roads, Buildings, Drain, Bridge etc and should enclose proof of the same. Bidder shall submit necessary evidence for the same like attested copies of work orders along with work completion certificates from clients. The work completion certificate shall comprise of order value and executed value. Bidders should have executed the work directly. The work executed as a sub-contractor or subletting agency shall not be taken into consideration
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/executed similar works as defined hereunder during last **three years out of 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 Rs. 23.22 lakhs**
OR
- b. **Two similar completed/executed work each costing not less than Rs.14.51 lakhs.**
OR
- c. **Three similar completed/executed work each costing not less than Rs. 11.61 lakhs**

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

5.3 Contractor shall have to submit satisfactory work completion certificate from the client. 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 Demand Draft.

5.5 **EMD:** The EMD shall be accompanied in the form of DD or Bank Guarantee given by Bank as described in subsequent clause no. 8.

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 annual turnover of **Rs. 8.71 lakhs** for last three financial years **i.e. 2015-16 & 2016-17 and 2017-2018 or 2018-19**. 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.

5.9 The Net worth at the end of the last financial year should be positive. Bidder shall submit necessary evidence in the form of certificate from certified C.A.

- 5.10** The Bidder has to submit INCOME TAX Permanent Account Number (PAN), TIN/VAT no. of the firm. Copies of the same shall be submitted.
- 5.11** Bidder has to submit GST registration number if applicable. Copy of the same shall be submitted.
- 5.12** In case Bidder is a joint venture company since last seven years, the above requirements/credential of Joint Venture Company / Parent companies shall be considered.

5.13 ADDITIONAL PRE QUALIFICATION CRITERIA

1. If Bidder or its Partner(s) or Director(s) is /are/was in any Litigation(s), Court Case(s) or Arbitration(s), either completed or under progress during last five(5) years or Black Listed / Deregistered / Stopped or banned from dealing in the past by any Govt. of Gujarat Undertakings / Depts. / Authorities and Govt. of Gujarat supported companies / undertakings / organizations, Bid of that party will be liable to be rejected. 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.
2. Bidder shall have to submit the “Declaration-cum-Undertaking for Compliance of Safety Laws and Regulations” as per Performa **Annexure-G & Annexure-H** under **Section-F**.
 - a. If any Fatal Accident / Violation of any safety law(s) / Rule(s) is / are found during the preceding Three (3) years, Bid of that party will be liable to be rejected. 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.
 - b. 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 prequalification 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 Bidder. GIPCL reserves the right to accept/split/cancel/reject any/all Bids without assigning any reason thereof. The tenders of qualified Bidder/Bidders shall only be considered for further evaluation.

6. PRE-BID SITE VISIT

Site visit will be arranged at Surat Lignite Power Plant as per details given in the NIT (Notice Inviting Tender). **It is perquisite and necessary for all interested bidders to carry out site visit or bidder may send their authorized representative along with**

authorization letter for site visit before submission of bid. It is necessary to carry out site visit to understood in detail regarding actual working conditions, scope of work with respect to estimated requirements of manpower, supervisors, tools & tackles, statutory & legal requirements, special requirements, to understand, resource & equipment requirements, approaches, plant maintenance requirements, etc. Site visit may be carried out before submission of bid with prior intimation to GIPCL.

7. 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.

8. EARNEST MONEY DEPOSIT (EMD) AND TENDER FEE

- 8.1 An EMD of Rs. **29,000/-** (Rupees Twenty Nine Thousand only) and Nonrefundable Tender fee **Rs 2000/-** (Rupees Two Thousand) shall accompany with Bid. The EMD and Tender Fee shall be in the form of a crossed bank Demand Draft in favour of Gujarat Industries Power Co. Ltd. as per following details:

Bank	Payable at :
1. Bank of Baroda	Mosali, Dist: Surat
2. State Bank of India	Nani Naroli, Branch Code: 13423
3. Any Nationalized banks	Surat

The Tender fee shall be in the form of a crossed bank Demand Draft in favor of Gujarat Industries Power Co. Ltd. or RTGS as per following details:

Bank for Tender fee DD	Payable at :
State Bank of India	Nani Naroli, Branch Code: 13423

RTGS detail for Tender fee:

- 1 Name of account holder: Gujarat Industries Power Co. Ltd.
- 2 A/c. No.: 33514692834
- 3 Name of Bank: State Bank of India
- 4 Bank address: Utility Building, Nani Naroli, Ta. Mangrol, Dist. Surat. Pin 394110.
- 5 IFSC code: SBIN0013423
- 6 MICR code: 394002513

Or for EMD

- 8.2 The EMD, in alternative, may be submitted in the form of irrevocable Bank Guarantee in favor of Gujarat Industries Power Company Limited from any Nationalized Bank including Public Sector bank-IDBI Ltd or AXIS Bank, HDFC Bank, ICICI Bank or Kotak Mahindra bank, Yes Bank, Ratnakar Bank, IndusInd Bank, Karur Vysya Bank, DCB Bank, ING Vyasya Bank or The Kalupur Commercial Co-operative Bank Ltd, Rajkot Nagrik Sahakari Bank Ltd, The Ahmedabad Mercantile Co-operative bank Ltd, The Mehsana Urban Co-operative Bank Ltd, Nutan Nagrik Sahakari Bank Ltd as per Performa of BG enclosed with this e-tender under Section-F.
- 8.3 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
- 8.4 The EMD of the successful bidder will be returned after payment of Security Deposit by successful bidder.

- 8.5 The earnest money deposit paid in the form of demand draft will be refunded to the unsuccessful BIDDER as soon as the tender is finalized.
- 8.6 Any bid not accompanied with EMD and Tender Fee will be rejected. EMD and Tender Fee should be submitted in physical form directly to GIPCL as per NIT.
- 8.7 No interest shall be payable on EMD.
- 8.8 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.

8.9 SCHEDULE OF EMD & TENDER FEE

EMD and Tender Fee and other documents to be submitted in physical form as specified in NIT.	Address for Submission: Chief General Manager (Mines) GUJARAT INDUSTRIES POWER CO. LTD., (Surat Lignite Power Plant) Village: Nani Naroli, Taluka: Mangrol, District: Surat. PIN: 394 110, Gujarat. Phone : 02629-261063 (10 lines) Fax : (02629) 261073 / 261074
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9. SUBMISSION OF BIDS

A: MODE OF SUBMISSION

The bids shall be submitted online through website: <https://www.nprocure.com> or <https://gipcl.nprocure.com> within the dates specified in the NIT along with the details of tender EMD in two parts as under:

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

Note: EMD and Tender Fee to be submitted in physical form as specified in NIT.

(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 shall be provided in the techno commercial bid:

1. Schedule of deviation (Annexure-F) of section F Technical as well as commercial, if any.

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

1. The tender documents dully signed in all pages without price bid along with techno-commercial deviations, if any.
2. Proof of experience meeting the minimum eligibility criteria
3. Performance certificate issued by clients.
4. Previous work order copies.
5. Details of present work order (if any)
Turn over for the last three years, audited annual accounts/financial statements i.e. profit and loss account and balance sheet duly certified by a practicing CA will be required.

6. P.F. Number and Allotment Letter.
7. PAN Number.
8. GST registration number/certificate copy.

(b) Price Bid:

1. Price Bid shall be submitted only in soft form through n procure tendering portal. The quoted rate/price shall includes cost of all materials, manpower, equipments, vehicles, consumables, tools & tackles, transportation, Safety, statutory compliance, mobilization etc...
2. **Bidder shall have to quote the rates through online price format only. Bidder shall quote applicable GST separately in online price bid.**
3. Online quoted amount by bidder shall include applicable GST. Total amount derived by considering bidder's online quoted rate should include applicable GST as per prevailing rates as declared by Central/State Government. Any statutory changes in taxes & duties will be to GIPCL's account. In case of any reduction and/or removal of taxes, the same shall be passed on to GIPCL.
4. The quantities shown in the price Bid 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.

(c) E-Reverse Auction:

- 1) GIPCL reserves the right to opt for e-Reverse Auction for the subject tender at sole discretion of GIPCL.
- 2) To participate in e-Reverse Auction, bidders should have registered on nProcure's e-Auction Portal: <https://e-auction.nprocure.com> by selecting auctioneer as “Gujarat Industries Power Company Limited”.
- 3) For conducting e-Reverse Auction, lowest 50% out of total eligible Bidders (rounded to the next higher whole number) or up to 03 (three) nos. of eligible bidders L1 to L3 (whichever is higher) will be invited.
- 4) Original L1 price (including GST) will be declared through nProcure's e-Auction Portal: <https://e-auction.nprocure.com> to start e-Reverse auction process and final received lowest auction price in the value by e-Reverse auction process will be the final L1 price.
- 5) Minimum decremental value for the e-Reverse auction will be set by GIPCL prior to start of e-Reverse auction and this will be applicable during each reverse bid hit.
- 6) Duration for the e-Reverse auction will be 30 Minutes with a provision of extensions for further 15 Minutes at every single reverse bid received during the last 05 minutes, till there is no further reverse bid entry (hit) by the participating Bidders.
- 7) Evaluation of tender will be done on gross total quoted amount with GST.
- 8) After e-Reverse Auction process, final L1 bidder shall be decided on lowest offered rate amongst other bidders during specified e-Reverse Auction process.
- 9) After e-Reverse Auction process, the original rates quoted by the final L1 bidder for individual items/packages shall be reduced proportionately based on total % reduction from their original quoted gross price v/s price derived after e-reverse auction, keeping GST percentage (%) rate same as originally quoted by final L1 bidder.
- 10) Prorata reduction will be applied in the quoted rates for all the items of SoR after price discovery through e-Reverse Auction.

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 authorised partners or other authorised 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 authorised 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.

10. 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.

11. 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.

12. 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.

13. OPENING OF BIDS

- 13.1 The 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.

13.2 Preliminary Examination:

13.2.1 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.

13.2.2 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.

14. EVALUATION & COMPARISON OF BIDS

- 14.1 GIPCL shall evaluate the Bids received and accepted by it to ascertain the lowest evaluated Bid in conformity with the specifications of the tender documents.
- 14.2 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.
- 14.3 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.
- 14.4 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.
- 14.5 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.
- 14.6 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.
- 14.7 For the above referred purpose, a ‘material deviation’ shall be one which:
 - (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 would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.

15. RIGHT OF REJECTION OF TENDERS

- 15.1 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.
- 15.2 Any Tender without EMD will be treated as non responsive and shall be rejected at the outset & no further correspondence shall be entertained regarding this.
- 15.3 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.

16. AWARD OF CONTRACT

- 16.1 GIPCL will award the contract to that bidder whose quotation has been determined to be substantially responsive and evaluated as the lowest quotation 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.
- 16.2 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 e-mail, courier, fax or registered mail.

17. CONTRACT PERIOD

- 17.1 The contract will be for a period of 4(Four) months from the date of issue of LOI/Work order whichever earlier and as stated in the Work Order ('Contract Period').
- 17.2 GIPCL reserves the right to extend the Contract Period up to 3 months on the same rates and terms and conditions without any price escalation and entering into any new contract.

18. CONTRACT SECURITY DEPOSIT

As a Contract Security, the successful Bidder, to whom the work is awarded, shall be required to furnish a Performance Bank Guarantee (PBG)/Contract security deposit in favor of Gujarat Industries Power Company Limited for guarantee amount at **10%** of the “Annual Contract Price” from any Nationalized Bank including Public Sector bank-IDBI Ltd or AXIS Bank, HDFC Bank, ICICI Bank or Kotak Mahindra bank, Yes Bank, Ratnakar Bank, IndusInd Bank, Karur Vysya Bank, DCB Bank, ING Vyasya Bank or The Kalupur Commercial Co-operative Bank Ltd, Rajkot Nagrik Sahakari Bank Ltd, The Ahmadabad Mercantile Co-operative bank Ltd, The Mehsana Urban Co-operative Bank Ltd, Nutan Nagrik Sahakari Bank Ltd in the format attached in **SECTION-F (Annexure B)** , 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 shall be submitted strictly within twenty one days from the date of Lol or work order, whichever is earlier. **The guarantee shall be valid up to retention period of twelve months from the contract completion date.** The Guarantee amount shall be payable to the Company in Bidder's home currency without any condition whatsoever.

The Performance Bank Guarantee (initial security deposit) will be returned to the Vendor/Contractor without any interest at the end of the 'Retention Period' after completion of contract and on fulfilling contractual obligations throughout the retention period. However, any delay in submission of initial SD will result in equivalent late release of entire SD after guarantee period /defect liability period.

19. 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.

20. CONTRACTOR'S OBLIGATIONS

A: DEPLOYMENT & 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/labor 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/labor with safety equipment like helmets, masks, gum boots, hand gloves and other necessary PPEs for properly undertaking the operations involved under this contract. Following are also to be issued:
 - 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's Engineer In - Charge for daily entrusted job. They have to maintain daily records duly 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 resources as per need within the period of 04 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 15% supervision charges & the same will be recovered from the Contractor's bill.

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 would be in the scope of the contractor.
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 will be levied as a penalty for each and every instance.
- (ii) 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 In case of breakdown of equipment, the contractor should work round the clock for putting back the area in service immediately within minimum time.
- (iii) 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 24Volt for confined space and sufficient quantity of 240 Volt and halogen lamp for other area ensuring safety at work place
- (iv) 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.

21. 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 khmistry@gipcl.com & slppcivil@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.

22. 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'.

23. UNDERSTANDING AND CLARIFICATION ON DOCUMENTS AND 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 by telephonic conversation or by email.

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

24. PAYMENTS

All the payments against the work order shall be in Indian currency and payable through cheque only. However, RTGS system of online payment is also in operation and will be applicable based on submission of required documents.

25. POINTS TO BE CONSIDERED DURING QUOTING ONLINE PRICE BID

- a. The bidders shall quoted the rates in Price bid in conjunction with Instructions to Bidders, General conditions of contract, Special conditions of contract and Technical specifications.
- b. The quantities given in the Price Schedule 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 Special Conditions of Contract.
- 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.

Note: Interested bidders are requested to submit the online tender before due date set for online submission of bid in order to avoid non participation of e-tender due to probable technical problem in e-tender system.

26. QUANTITIES

The quantities specified are estimated and for tendering purpose only & contractor have to carry out various jobs as per day to day work requirements as informed by concern

Engineer-in-charge under respective item of SoR. 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. However, overall total contract price will remain unchanged. 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 in SoR at his discretion. Quantity of individual item of SoR may vary to any extent. However, contract value will remained firm. Contractor shall have no claim, whatsoever, on grounds of loss of anticipated profit etc. on account of the same.

After commencement of the work, GIPCL, for any reason may not require to be carried out the whole/part of the work as specified in the tender, the ENGINEER-in-charge shall inform the fact for thereof to the CONTRACTOR and contractor shall have no claim for any payment or compensation whatsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of the full amount of the work not having been carried out nor shall he have any claim for compensation by reason of any change having been made in the original specifications and instructions which shall involve any curtailment of the work as originally contemplated.

SECTION-B

INSTRUCTIONS TO BIDDERS FOR ONLINE TENDERING

**Subject:-Surat Lignite Power Plant: 4 x 125 MW, Unit # I to IV –
“ Construction of RCC Road near Dungri-Vastan Crossing”**

- 1 Tender documents are available only in electronic format which Bidders can download free of cost from the website <https://www.nprocure.com> and <https://gipcl.nprocure.com> up to date & time mentioned in NIT.
- 2 All bids (technical and price bid) should be submitted online through the website <https://gipcl.nprocure.com> only. No physical submission of price bid will be entertained as it should be furnished online only. Also no fax, e-mail, letters will be entertained for the same.
- 3 Following should be submitted ‘off-line’ in sealed covers separately at Village Nani Naroli, Taluka Mangrol, Dist.Surat-394 110, Gujarat up to the period specified in NIT
[1] E.M.D. [2] 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 at address mentioned below at clause 5.
- 5 All bids should be digitally signed. The bidders are required to contact at the below mentioned address for detailed training on on-line tendering.
(n) Code Solutions - A division of GNFC Ltd.
402, GNFC Infotower, Bodakdev,
Ahmedabad – 380 054 (India)
Tel: +91 26857316 / 17 / 18
Fax: +91 79 26857321
E-mail: nprocure@gnvc.net
www.nprocure.com
Toll Free: 1800-233-1010 (Ext. 501,512,517).
- 6 Kindly note that, valid Digital Signature Certificates is must for all the interested bidders. Online tendering process is not possible without valid digital signature certificate.
- 7 Interested bidders are also requested to complete their procedure for taking digital signature certificate in respect of filling of application form, supporting documents with necessary fees at least 3 days before last date of tender submission.
- 8 (n)code solutions reserves the rights to issue digital signature certificate after verification of application forms / supporting documents submitted by bidder.
(n)code solutions is fully authorized to issue digital signature certificate to bidders.
- 9 All the bidders who have no facility to participate in online tenders are requested to contact (n)code solutions for the same.
- 10 Free vendor training camp will be organized every Saturday between 4.00 to 5.00P.M. at (n) code solutions-A Division of GNFC Ltd., Bidders are requested to take benefit of the same (Advance Confirmation to (n) code is requested).
- 11 All the correspondence in respect of training, support or digital signature certificate should be addressed to (n)code solutions directly on the above mentioned address

SECTION-C GENERAL CONDITIONS OF CONTRACT

1. CONTRACT SECURITY DEPOSIT

As a Contract Security, the successful Bidder, to whom the work is awarded, shall be required to furnish a Performance Bank Guarantee (PBG)/Contract security deposit in favor of Gujarat Industries Power Company Limited for guarantee amount at **10%** of the “Annual Contract Price” from any Nationalized Bank including Public Sector bank-IDBI Ltd or AXIS Bank, HDFC Bank, ICICI Bank or Kotak Mahindra bank, Yes Bank, Ratnakar Bank, IndusInd Bank, Karur Vysya Bank, DCB Bank, ING Vyasya Bank or The Kalupur Commercial Co-operative Bank Ltd, Rajkot Nagrik Sahakari Bank Ltd, The Ahmadabad Mercantile Co-operative bank Ltd, The Mehsana Urban Co-operative Bank Ltd, Nutan Nagrik Sahakari Bank Ltd in the format attached in **SECTION-F (Annexure B)** , 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 shall be submitted strictly within twenty one days from the date of Lol or work order, whichever is earlier. **The guarantee shall be valid up to retention period of twelve months from the contract completion date.** The Guarantee amount shall be payable to the Company in Bidder's home currency without any condition whatsoever.

The Performance Bank Guarantee (initial security deposit) will be returned to the Vendor/Contractor without any interest at the end of the 'Retention Period' after completion of contract and on fulfilling contractual obligations throughout the retention period. However, any delay in submission of initial SD will result in equivalent late release of entire SD after guarantee period /defect liability period.

2. RECOVERY CLAUSE

- (i) In case of any damage of equipment/machinery/Cable/GIPCL asset 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. Recovery will be affected from the monthly bills and/or retention money/security deposit.
- (ii) If the contractor fails to execute the work as per directions of Engineer (I/c) 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 15% additional overhead charges of GIPCL.

3. ASSIGNMENT AND SUBLETTING OF THE CONTRACT

The contractor shall not assign or sub-let any part of the contract to any other party or agency without written permission from GIPCL.

4. 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.

5. 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 15% overhead charges.

In case if contractor's services are not found satisfactory with respect to mobilization, time bound activities, workmanship & safety (OHSAS policy of GIPCL) then GIPCL has right to terminate the contract at any time by giving him 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.

6. FAILURE & TERMINATION

If the CONTRACTOR after receipt of written notice from the GIPCL/ ENGINEER requiring compliance, with such further drawings and / or the GIPCL /ENGINEER instructions fails within seven days to comply with the same, the GIPCL /ENGINEER 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 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 within the time frame given and/or violating the GIPCL's safety rules & regulations, ENGINEER/ GIPCL shall get the work done by third party at the risk & cost of the CONTRACTOR with additional 15% overhead charges of GIPCL and all costs incurred in connection therewith shall be recoverable from the CONTRACTOR by the GIPCL /ENGINEER as a debt or may be deducted by him from any money due or to become due to the CONTRACTOR.

In case if contractor's services are not found satisfactory with respect to mobilization, time bound activities, workmanship & safety (OHSAS policy of GIPCL) then GIPCL has rights 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 cost and risk of the Contractor.

7. 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 Act, 1996. The place of arbitration shall be at Surat/Vadodara or any other place within state of Gujarat as may be mutually agreed by the parties in consultation with the tribunal.

- b. In appointment of the Sole Arbitrator, if the dispute claim is up to a sum of Rs. 25/- Lakh, a person having a position equivalent to a Retired District Judge shall be appointed; for the claim higher than Rs. 25/- Lakh and up to Rs. 100/- Lakh, the same shall be referred to a Retired High Court Judge and for a claim exceeding Rs. 100/- Lakh, the same shall be referred to a Retired Supreme Court Judge.
- c. 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.

8. INTERPRETATION OF CLAUSE

In case of disputes as regards interpretation of any of the clauses or specification, the decision of – Chief General Manager (Mines) - GIPCL will be final and binding on the contractor.

9. 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. EC policy should cover the specified contract period.

Contractor shall also obtain additional off-duty coverage insurance policy for all his workers as per clause no. 10 herein under.

9. STATUTORY REQUIREMENTS

a. COMPLIANCE OF LABOUR LAWS

- 1. The contractor shall at his own cost comply with the provision of labor 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.
- 2. Contractor shall be solely responsible and shall fully comply with all the provisions of all the labor 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.
- 3. 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.
 - 3.1 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.
 - 3.2 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.
- 3.3. The Contractor shall at the time of execution of the contract have a 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.
 - 3.4. 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.
 - 3.5. 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&Admn.Dept.
 - 3.6. The Contractor shall not pay less than the Minimum Wages notified by the Government from time to time to his employees of corresponding categories.
 - 3.7. 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.
 - 3.8. The contractor shall take Workmen Compensation Insurance Policy for all his employees working at SLPP. The contractor shall indemnify the company against any liability due to any work injury or accident to any of its employees.
 - 3.9. 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.
 - 3.10. 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.
 - 3.11. The Contractor shall not engage / employ persons below the age of 18 years. Employment of women shall be strictly according to applicable laws.
 - 3.12. 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 labor 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.
 - 3.13. 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 challans on monthly basis to HR&A dept. for verification and record.
 - 3.14. 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.
 - 3.15. The contractor shall conduct pre-induction and periodic medical checkup of his workmen as per applicable laws.
4. The contractor shall be solely responsible for any accident caused to his workers and should adhere to all rules / regulations as per labor laws of Government and other statutory laws as applicable.

5. The contractor should register himself under the Contract Labor 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 Labor 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.
 6. Contractor shall have to insure his workmen /supervisors etc. under Group Insurance scheme.
 7. 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 Labor 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.
 8. Documentary evidence of deposit of PF paid shall have to be produced by the contractor along with the next bill.
 9. Records as per the provisions of various statutory Acts will have to be maintained by the contractor and submitted as and when required.
 10. 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.
- 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.

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 labourer stating therein the nature of job to be performed by him and fix time for which the concerned labourers are likely to be deployed. Contractor shall also issue a temporary identity card specifying the period for which the labourer 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.

11. 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, Labor 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.

12. 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.

13. LIGHTING

General area lighting will be provided by GIPCL. However, work area specific lighting should be arranged by contractor.

14. NIGHT/SUNDAY/HOLIDAY SHIFT

The contractor shall depute qualified and adequate resources in night shift/Sunday/holidays for any emergency job, which may come up at night/Sunday/holiday.

15. 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 Deptt. Safety Deptt. 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 Deptt. Security Deptt. will inform to Safety Deptt., 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 Deptt. Safety Deptt 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.

16. 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 equipments at all times during the work operation. Brand name for safety shoe & safety helmet shall be suggested by safety representative of SLPP site.
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 registers with signature of workmen.
6. Contractor will reissue these PPEs in case of damage or misplacement of the same. Replacement shall be made immediately.
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.
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, fall arrester, etc. shall be used to prevent accident. Further, during working on height, contractor should arrange proper scaffolding of still pipes, safety net, full body safety belt, fall arrestor system etc. 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. Flash back arrestors made of reputed manufacturer shall be provided on cutting torch, on DA cylinders and on O2 cylinder. Cylinder caps also required for handling the cylinders at the work 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.

14. 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.
15. All electrical equipment shall be in good condition and free from any defect. Electrical tools & equipments i.e. welding machine, grinding and drill machine etc. may be checked by the electrical engineer of the contractors regularly, every six month at least and report to be submitted to concerned HOD and safety depts.
16. 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. ELCB / RCCB shall be provided with rating of 9-30 milli amperes on welding machine and all portable power tools.
17. 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.
18. Major AMC / ARC contractor (Where the man power strength is more than 50 and above) should 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.
19. No loose connection / joints allowed in electrical cables during performance of any kind of job.
20. Safety shoes to be issued to female employees also.
21. All the vehicles shall be fit as per RTO guidelines and valid fitness certificate is required as per RTO guidelines.
22. 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.
23. The Contractor shall comply all the new requirements related with safety as informed by the HOD / Safety department from time to time.
24. 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 belt, gloves etc.	Rs. 100 /- per instant.
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	<ul style="list-style-type: none"> • Rs. 500 /- per instant. • After three incidence,

		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.	<p>Per incidence Rs. 2500/-</p> <ul style="list-style-type: none"> Continuous unsafe acts will disqualify the contractor from further participation in tender of GIPCL-SLPP.
		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.	<p>Suspend the entry gate pass for one week.</p> <p><input type="checkbox"/> After two suspensions his gate pass will be cancelled.</p>

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.

17. REJECTION OF WORK:

If, as a result of inspection, examination or testing, the GIPCL's Representative/Engineer decides that any materials, work or workmanship is defective or otherwise not in accordance with the Contract, the 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 the 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.

18. GENERAL TERMS AND CONDITIONS:

- a. All materials, tools & tackles, equipments, machineries, all consumables, labours, etc... required to execute the contract are in the scope of the contractor. The contractor should ensure that tools & equipments are in healthy condition. 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.
- b. If the work is not found satisfactory, Engineer-in-charge reserves the right to take suitable action.
- c. Contractor shall depute full time site experienced supervisor. They shall co-ordinate with GIPCL engineer and shall bear overall responsibility of contract including joint measurement, billing etc. Such person shall function from site office of contractor at SLPP.
- d. 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.
- e. Contractor shall strictly follow the existing work permit system of the GIPCL and any future revisions.
- f. The contractor has to take EC insurance policy for their workmen. The contractor has to submit labour license and PF account number to the Engineer-in-charge before start the work.
- g. The contractor has to do the job timely. GIPCL shall not compromise in delay. In case of delay of work without any valid reason, the GIPCL reserves the rights to carry out the work by deploying other agencies at the risk & cost of contractor with additional 15% overhead charges.
- h. Contractor shall mobilize the resources as per need within the period of four hours. 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 15% overhead charges.
- i. Contractor should mobilize all resources for efficient & smooth execution of contract within seven days from the date of issue of Letter of Intent/Work Order.
- 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, non-issue of work permit, holding of work permit for any reason, unavailability of contractor's supervisor, unavailability of contractor's safety supervisor, violation of safety rules, 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 (Maximum of Rs. 1,000/- per incident per man-day and as per clause no. 16) 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 activities 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.
- o. The contractor has to submit daily reports showing work carried out with details of available manpower, tractors 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.

19. 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. Such in-charge shall be constantly in attendance at the site during working hours. During CONTRACTOR’S supervisory engineer 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 ENGINEER / GIPCL and shall be received and obeyed by the CONTRACTOR’S superintendent or Foreman 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 /GIPCL shall confirm such orders in writing. Any directions, instructions or notices given by the ENGINEER / GIPCL to him, shall be deemed to have been given to the CONTRACTOR. The representative of the CONTRACTOR shall have all necessary powers to engage labour or purchase materials and proceed with the work as required for speedy execution.

None of the CONTRACTOR’S Superintendents, engineers, supervisors or labour should be withdrawn from the work without due notice being given to the GIPCL / ENGINEER; further no such withdrawals shall be made if in the opinion of the GIPCL / ENGINEER 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 and the PURCHASER nor the ENGINEER shall hire or employ any employee of the other party except by mutual consent.

20. 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.

21. FACILITIES TO BE PROVIDED BY GIPCL

- A.** The Company shall provide the following facilities to the Contractor at the site:
- Electricity & water at nearest available point. Further distribution to be done by contractor at their cost.
 - Workshop facility as available at plant 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.
 - 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.

22. WORK MEASUREMENT/CERTIFICATION

- 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 bituminous road work. The contractor shall therefore be required to engage qualified/ experienced personnel to undertake the work as per specifications and requirement.
- Contractor should maintain one computer with printer for keeping daily records and maintain the data.
- 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.

- d. Inspection of work will be done by Engineer in Charge or his authorised 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.

23. 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.

24. 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.

25. GOVERNING LAW AND JURISDICTION

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

26. 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.

SECTION-D

SPECIAL CONDITIONS OF CONTRACT

1. DETAIL SCOPE OF WORK

The scope of work covered by this specification, in general, comprises the Construction of RCC Road outside plant boundary at Vastan-Dungri of Surat Lignite Power Plant-GIPCL.

Scope of works covered under this specification includes in general:-

(1) Earthwork in excavation and Backfilling:-

Earthwork in excavation below existing ground level not more than 400 mm in all class of Soil including excavation of existing bituminous road i.e. bitumen surface top such as Built up Spray Grout (BSG), Carpet, Seal coat and WBM as the case may be. Dressing of the excavated bottom in true line and level and compacting as required. Making Readiness for PCC by removal of all loose material, stacking of useful materials as required for back filling sides of Completed RC Road, backfilling and compacting the sides of RCC Road and also disposal of left out surplus earth/materials at designated location in mines within three km of lead.etc. complete.

(2) Laying of Plain Cement Concrete (PCC):-

Providing and laying Plain cement concrete (PCC) 1:4:8 (1 cement : 4 sand : 8 graded stone aggregates 20 mm nominal size) around 50mm thick, including preparing and ramming the excavated loose base before placing the concrete, compacting the laid PCC, curing, dewatering (if required). All the construction materials such as Cement, aggregates, sand including labours, supervision, materials, equipments, tools & tackles, all lead & lift... etc. including cost of providing, fixing & removing of rigid formwork is in the scope of bidder.

(3) Laying of M30 grade design mix Reinforced cement concrete (RCC):-

Providing & Laying reinforced cement concrete M30 grade design mix with 20mm downgraded stone aggregates confirming to IS 456 (**Minimum cement Content 400 Kg/m³ of RCC of OPC 53 grade cement of manufacturer Ultratech, Sanghi, Siddhi or J.K. Laxmi**) including **mixing by mixer machine (Diesel operated)/Ready mix Concrete** and placing of concrete in position, compacting by poker vibration and finally by **surface vibrator for perfect top level**, rigid shuttering with camber in correct line and level by placing ISMC 100 & 150MM channels in centre of 6m wide road (since thickness of RCC road is 250mm and reinforcement is 100mm below top level at centre of 6m wide road) and by ply or channel at side end of RCC Road, leveling and finishing the surface of placed concrete by sprinkling Fosroc make Nito floor hardener at the rate of 1.5 Kg/sq.mt at top of finished surface and also including making of construction joint 10mm wide and 50mm deep at 5.0 mtr x 3mtr interval in longitudinal and transverse direction respectively (by cutting groove in hardened concrete by cutter machine, cleaning of joints with blower and filling bitumen mixed with sand in cut groove), making and breaking of vatta for curing including all cost of labour, cement, aggregate, curing, lead, Supervision, all materials, tools and tackles etc. Concreting shall be laid in alternate panel of 5.0mx3m. **Water required for concreting and Curing shall be provided by GIPCL** but necessary pipes of required size and joint fittings/Water tankers required for transportation of water shall be in the scope of bidder. **Bidder has to make arrangement for Design mix, Aggregate testing and testing of concrete cube at approved laboratory of GIPCL.**

(4) Supplying and fixing of Fe 500 grade TMT/HYSD bar reinforcement:-

Supplying and fixing of Fe 500 grade TMT/HYSD bar reinforcement confirming to IS1786 of **Electrotherm, Sail or Vizag make** for R.C.C. Road work including

transportation, loading, unloading, shifting, straightening, handling, cutting, bending, binding, placing and tie in position using cover blocks of same grade of concrete as that of concrete in all RCC items of work including cost of GI binding wire 18SWG double knot, cost of all required labours, supervision, materials, wastage and equipments, tools & tackles, etc., all complete **Unavoidable laps shall be provided and paid as directed by Engineer in charge, however no payment shall be made for wastage, extra chairs and avoidable laps placed without direction of EIC shall not be payable.**

(5) Only fixing of supplied reinforcement:-

Only fixing of reinforcement bar for R.C.C. Road work including shifting from company's warehouse, loading, unloading, straightening, handling, **cleaning by buffing wheel machine**, cutting, bending, binding, placing and tie in position using cover blocks of same grade of concrete as that of concrete in all RCC items of work including cost of GI binding wire 18SWG double knot, cost of all required labours, supervision, wastage and equipments, tools & tackles, etc., all complete.

(6) Providing and fixing of expansion joint:-

Providing and placing in position 25 mm thick approved quality pre molded joint filler (Supreme make pre molded compressible Filler Board or equivalent) having minimum density 95 kg/Cu.Mt, Non staining with less than 1% water absorption & compression recovery of 92% minimum as per specification for expansion joints and also including making groove of 25 mm deep, cleaning of same and refilled it with Fosroc make COLPOR-200 or equivalent etc and also including fixing of 500 mm long 32mm dia MS rod @ 250mm c/c (32 mm dia reinforcement shall be supplied by GIPCL) including 250mm long PVC pipe sleeves and dowel cap, filling space between MS Rod & PVC Pipe Sleeve by cotton waste to maintain gap including all materials, labour, transportation, tools & tackles etc complete as per drawing and as directed by Engineer in charge.

Bidder shall engage full time site supervisor/engineer for supervision of RCC road work, safety of manpower & equipments, measurement etc as directed by Engineer-in charge.

Bidder shall carryout the work as given in tender documents within provided time period and the works shall conform to high standards of engineering, design, workmanship, proper line and level and quality plan and as directed by Engineer in charge

The quantities specified are only estimated and it may get vary at any stage during contract period, so contractor is required to carry out the scope of work as per specifications, nomenclature of Schedule of Rates (Section E) and as per the time to time instructions provided by Engineer-in-charge of GIPCL.

1.1 SCOPE OF CONTRACTOR

1. All labours, machinery such as JCB, Mixer machines, Poker Vibrator, Surface vibrator, Tractor with hydraulic trolley, Water tanker, Rebar cutting machine, Buffer wheel machine, Cube moulds, Slump cone, Calibrated Auto level, 100mm & 150mm MS Channels, tools & tackles to execute the contract will be in the scope of the contractor. The contractor should ensure for healthiness/working conditions of tools, tackles & vehicles.
2. All consumable items like lime powder, binding wire, line dori, Cover blocks, diesel, petrol, 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.

5. Contractor has to depute their full time experienced overall site supervisor for work execution such as level record, material record, billing etc as per specification and for day to day work planning & coordination with Plant's Engineer-in-charge.

1.2 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 / 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.

1.3 DAILY DIARY AND PROGRESS REPORT:

A daily diary register will be kept in the ENGINEER'S office. The CONTRACTOR will supply all detailed information every day at 9:00 hours for the day preceding and the diary will be jointly signed by the ENGINEER and the CONTRACTOR'S representatives, every day in token of its correctness. A works instruction book, serially numbered will also be kept in the ENGINEER'S office and all day to day instructions will be given in that book. The CONTRACTOR'S representative shall report every day to see these instructions and sign them at the bottom in token of his having seen them.

The CONTRACTOR shall supply all information regarding procurement of materials and progress of work, as is required by the ENGINEER for compiling the weekly progress reports. This information shall be supplied by 9:00 hours on every Monday, for the preceding week.

2. PRICE & RATES

The quoted item rates shall be inclusive of cost of all labour, all materials (including cement and reinforcement steel (as per item description), machinery, supervision, cost of safety supervisor, shifting, transportation, loading, unloading, equipment, all tools & tackles, all consumables, safety equipments & PPEs, Royalties, Rents, Stamp Duties, Central or State Government or Local body or Municipal Taxes or Duties, Turn over Tax, Octroi duty and / or any other duty / tax (excluding GST), 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, equipments, 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 remains unchanged and the payment shall be made as per the actual quantity executed as informed & certified by GIPCL representatives.

3. CONTRACT PERIOD

3.1 The contract will be for a period of 4 (Four) Months from the date of issue of LOI/Work order whichever earlier and as stated in the Work Order ('Contract Period').

3.2 GIPCL reserves the right to extend the Contract Period up to 3 months on the same rates and terms and conditions without any price escalation and entering into any new contract.

4. TERMS OF PAYMENT

A. Conditions of Payment:

The contractor shall raise the 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 as per the following terms of payment:

- (i) 100% of monthly RA bill along with applicable 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) Security deposit at 10% of contract value shall be retained from RA bill no. 1. Security deposit will be returned to the Contractor without any interest after retention period of twelve months from actual contract completion date as certified by Engineer-in-charge as per clause no.: 1 of Section-C.
- (iii) GST shall be paid along with bills as applicable.
- (iv) At the time of submission of the first monthly RA Bill, the Contractor shall submit a certificate from Engineer-in-charge regarding availability of tools & tackles, equipments, vehicles etc at site. The Contractor shall also furnish the checklist as per **ANNEXURE-A** enclosed with the Section-F of tender document along with the RA bill of respective month.
- (v) The contractor along with monthly RA Bill shall submit copy of P.F. Challan, Xerox copies of wages register of previous month, Xerox copies of attendance sheet of respective month & copy of 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.
- (vi) The Contractor shall submit his Final Bill within a period of three 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 three months.
- (vii) 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 valid for entire Contract Period and shall remain unaltered.

5. SUBMISSION OF TECHNICAL DOCUMENTS TO THE ENGR-IN-CHARGE

Contractor shall submit following documents to the Engineer-in-charge for verification purpose of the bill:-

- (i) **Measurement sheet along with joint record of work done in the form of joint inspection report** duly signed by authorized representative of contractor and GIPCL Engineer.

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

6. SUBMISSION OF STATUTORY COMPLIANCES WITH EACH BILL

Contractor shall submit each RA bill of work carried out along with following documents.

- (i) Copy of statutory compliance, labour compliance records as applicable to this contract.
- (ii) Notarized Indemnity Bond in case of Final bill.
- (iii) No claim - No arbitration certificate as per Performa (Annexure-D) in Section-F), after releasing final bill payment.

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

7. MEASUREMENT & DAILY REPORTS

The quantities specified in Section-E are only estimated quantities for tendering purpose only. Payment will be made, based on actual work done, as measured at site and certified by Engineer-in-charge of GIPCL as per mode of measurement.

Quantities of individual items may be revised during the course of contract period based on the requirement or any other unavoidable circumstances Contractor shall have no any right for any compensation on ground of such alteration in scope of work. GIPCL reserves the right to operate or decrease quantities in each item or omit any item included in Schedule of Rate in Section-E at his discretion. Contractor shall have no claim, whatsoever, on grounds of loss of anticipated profit etc. on account of the same.

The payment of scope of work done by contractor shall be made at unit rate quoted in the bid for respective items at the actual executed quantity as jointly measured at site with contractor & GIPCL Engineer-in-charge.

The contractor shall be required to furnish satisfactory job completion report and joint record of measurement to GIPCL. In the bill, payment shall be released based on the joint measurement record of the works.

Wherever any dispute regarding mode of measurement arise, the decision of the Engineer-in-charge shall be final and binding to the contractor.

8. MOBILIZATION AND EXECUTION

- a) Contractor shall mobilize the resources at site within 03 days from the time of intimation given by GIPCL.
- b) Contractor shall provide sufficient nos. of supervisors who will be responsible for supervision and execution of job in specified time. 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.

9. QUANTITY OF WORK

The estimated quantities of work required to be carried out by the contractor are as given in the Section-E (Price Schedule). The quantities specified in each item are estimated and shall vary according to the exigencies of work at site. However, the rates quoted by Bidder shall remain firm for entire duration of contract period irrespective of any variation in estimated quantities. Quantity of individual item/package of SoR may vary to any extent. However, contract value will remain firm. Contractor shall have no claim, whatsoever, on grounds of loss of anticipated profit etc. on account of the same. Contractors shall engage required nos. of labors 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 be 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 labor, machinery, 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.

10. GENERAL CONDITIONS OF CONTRACT

General Conditions of Contract (Section-C) and detail 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.

11. FREE ISSUE MATERIALS BY GIPCL

The rates are with free issue of reinforcement steel mainly 32mm dia plain bar for item no. 5 of schedule of quantities only. All free issue reinforcement materials shall be issued either from GIPCL store or storage area on specific request by contractor. Necessary transportation of free issue material is in the scope of contractor.

Reinforcement steel shall be issued on weight basis. The reconciliation of free issue material shall be done as under:-

- i. The contractor shall keep an up to date record of the materials issued by GIPCL and consumed on the work, in daily register. The actual consumption shall be calculated based on theoretical quantities worked out from drawing issued by engineer or as jointly recorded measurements on site.
- ii. Contractor shall utilize entire steel issued to them by providing necessary splices / lapping. The un-avoidable cut balance up to 3% of consumed quantity shall be returned to GIPCL store by weight basis and for this no amount will be recovered.
- iii. The recovery of balance quantity reinforcement steel above 3% will be made @ Rs. 50,000/- per MT or at market rate, whichever will be higher.
- iv. No unaccountable wastage will be allowed. No allowance shall be given for rolling tolerance, burning, due to cutting. Contractor shall give account for entire quantity of steel issued to him i.e. no invisible wastage will be considered / allowed.

SECTION-E PRICE SCHEDULE

Name of work: Surat Lignite Power Plant: 4 x 125 MW, Unit # I to IV – **Construction of RCC Road near Dungri-Vastan Crossing.**

Sr. No.	Item Description	Unit	Quantity	Rate (Rs)	Amount (Rs)
1	Earthwork in excavation below existing ground level up to 500 mm of existing bituminous road i.e. bitumen surface top such as Built up Spray Grout (BSG), Carpet, Seal coat and WBM as the case may be. Dressing of the excavated bottom in true line and level and compacting as required for PCC by removal of all loose material, stacking of useful materials as required for back filling and compacting the side shoulder of RCC Road and also disposal of left out surplus earth/materials at designated location in mines within three km of lead.etc. complete as directed by Engineer-in-charge.	M3	620.00		
2	Providing and laying Plain cement concrete (PCC) 1:4:8 (1 cement : 4 sand : 8 graded stone aggregates 20 mm nominal size) including preparing and ramming the excavated loose base before placing the concrete, formwork, laying concrete, compacting, curing etc. complete for all lead & lift as directed by Engineer in charge. The rate shall be including cost of all the construction materials including Cement, labours, supervision, materials, equipments and tools & tackles.	M3	77.00		
3	Providing & Laying reinforced cement concrete M30 grade design mix with 20mm downgraded stone aggregates confirming to IS 456 including rigid shuttering in correct line and level by placing channels, levelling and finishing the surface of placed concrete by poker vibration and surface vibrator, adding of Fosroc make Nito floor hardener at the rate of 1.5 Kg/sq.mt at top of finished surface, making of construction joint 10mm wide and 50mm deep at 5mx3m interval in longitudinal and transverse direction respectively (by cutting groove in hardened concrete by cutter machine and filling bitumen mixed with sand in cut groove) curing etc. complete for all lead & lift as directed by Engineer in charge. The rate shall be including cost of all the construction materials including Cement, labours, supervision, materials, equipments and tools & tackles. (Concreting shall be laid in alternate panel as directed by Engineer-in charge)	M3	393.00		

Sr. No.	Item Description	UoM	Quantity	Rate (Rs)	Amount (Rs)
4	Supplying and fixing of Fe 500 grade TMT/HYSD bar reinforcement confirming to IS1786 of Electrotherm, Sail or Vizag make for R.C.C. Road work including transportation, loading, unloading, shifting, straightening, handling, cutting, bending, binding, placing and tie in position using 18SWG GI binding wire double knot and cover blocks of same grade of concrete as that of concrete etc. complete as directed by Engineer in charge. The rate shall be including cost of all materials, labours, supervision, wastage and equipments, tools & tackles etc. (The unit rate for reinforcement shall include all wastages, binding wires, chairs, spacer bars, avoidable laps etc. for which no separate payment shall be made).	MT	03.50		
5	Labour charges for fixing of 32mm dia MS Round Bars for R.C.C. work of road including loading & shifting. from GIPCL Warehouse, unloading at required location, straightening, handling, cutting, bending, binding, placing and tie in position using 18SWG GI binding wire double knot and cover blocks of same grade of concrete as that of concrete etc. complete as directed by Engineer in charge and as per drawing. The rate shall be including cost of all required labours, supervision, binding wire and equipments, tools & tackles, etc.	MT	06.20		
6	Providing and placing in position 25 mm thick approved quality pre molded joint filler (Supreme make pre molded compressible Filler Board or equivalent) having minimum density 95 kg/Cu.Mt, Non staining with less than 1% water absorption & compression recovery of 92% minimum as per specification for expansion joints and also including making groove of 25 mm deep, cleaning of same and refilled it with Fosroc make COLPOR-200 or equivalent etc and also including fixing of 500 mm long 32mm dia MS rod @ 250mm c/c (32 mm dia reinforcement shall be supplied by GIPCL) including 250mm long PVC pipe sleeves and dowel cap, filling space between MS Rod & PVC Pipe Sleeve by cotton waste to maintain gap including all materials, labour, transportation, tools & tackles etc complete as per drawing and as directed by Engineer in charge. (32 mm dia reinforcement shall be paid under item no.5 above)	R.Mtr	48.00		
	Total Amount excluding GST >>>				
	Contractor's applicable GST				
	Total Amount including GST >>>				

Note: The rates shall include cost of all Materials (except item no. 5), labour cost, equipments, supervision, consumables, tools, tackles, all taxes & duties (except GST).

SECTION-F LIST OF ANNEXURES & FORMS

1.0 ANNEXURE-A

CHECKLIST FOR PASSING THE BILLS

- | | | | | |
|--|---|---------------------------|---|--------|
| | | For the month of : | | |
| 1) Work Order / P.O. No. & Contract value | : | | | |
| 2) Nature of work | : | | | |
| 3) Duration of Work Order | : | From | | to |
| 4) Maxi. No. of manpower per day deployed in the month. | : | M | F | Total |
| 5) Details of Labour License | : | Valid up to | | for |
| | | Persons. | | |
| 6) Details of E.C Policy | : | Valid up to | | for |
| | | Persons. | | |
| 7) Documents attached for verification for the previous month. | : | Wage & Attendance Sheets. | | Yes/No |
| | | P.F Challan | | Yes/No |
| 8) Documents attached for verification (in case of Final Bill) | : | Bonus Payment Register | | Yes/No |
| | : | Leave wage register | | Yes/No |
| 9) Security Deposit / Retention Money lying with Co. | : | Yes / No if yes, Rs. | | |

Date :

Signature of Contractor
with official stamp

2.0 ANNEXURE-B

PROFORMA OF BANK GUARANTEE FOR ORDER PERFORMANCE

(To be Stamped in accordance with Stamp Act)

Ref:

Bank Guarantee No.....

Date

Bank Guarantee Cover period from to

To
M/s. GUJARAT INDUSTRIES POWER COMPANY LTD.
At & Post Nani Naroli
Taluka Mangrol
Dist. Surat
Gujarat-394 110.

Dear Sir,

In consideration of the Gujarat Industries Power Company Limited (hereinafter referred to as the Purchaser which expression shall unless repugnant to the context/or meaning thereof include its successors, administrators, and assigns) having awarded to M/s.....having its Registered Office/Principal Office at (address) (hereinafter referred to as the "CONTRACTOR" which expression shall unless repugnant to the context or meaning thereof include its successors, administrators, executors and assigns) a Order by issue of Purchaser's Letter of Intent No.....dated.....and same having been unequivocally accepted by the CONTRACTOR datedvalued atfor (scope of order)and the contractor having agreed to provide a Order Performance Guarantee for the faithful performance of the entire order including for the quality of the materials and/or workmanship, successful commissioning and satisfactory performance of the equipments/system and satisfactory services rendered during the guarantee/warranty period of Months under the said LOI/Order equivalent to.....*..... (Percent) of the said value of the order to the purchaser
(Name & address of Bank)

having its Head Office at (hereinafter referred to as the "Bank" which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, executors, assigns) do hereby irrevocably guarantee and undertake to pay the Purchaser, on written demand any and all moneys payable by the CONTRACTOR to the extent of (in figures) (in words) as aforesaid at any time up to (days/months/year)

**..... without any demur, reservations, contest, recourse or protest and/or without any reference to the CONTRACTOR. Any such demand made by the Purchaser on the bank shall be conclusive and binding notwithstanding any difference between the Purchaser and CONTRACTOR of any dispute pending before any Court, Tribunal, Arbitrator or any other Authority.

....2

(2)

It shall be conclusive and enough for enforcement of the BANK GUARANTEE on the bank if GUJARAT INDUSTRIES POWER COMPANY LIMITED invokes the BANK GUARANTEE stating only that the default has been committed by the contractor, thus far and no further. The bank undertakes not to revoke this guarantee during its currency without previous written consent of the purchaser and continue to be enforceable till the Purchaser discharges this guarantee.

The Purchaser shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee from time to time to extend the time for performance of the Order by the CONTRACTOR. The Purchaser shall have the fullest liberty, without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the CONTRACTOR, and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce any covenants, contained or implied in the Order between the Purchaser and the CONTRACTOR or any other course of or remedy or security available to the Purchaser. The Bank shall not be released of its obligations under these presents by any exercise by the Purchaser of its liberty with reference to the matter aforesaid or any of them or by reason or any other acts of omission or commission on the part of the Purchaser or any other indulgence shown by the Purchaser or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving the Bank. The Bank also agrees that the Purchaser at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the CONTRACTOR and notwithstanding any security or other guarantee that the Purchaser may have in relation to the CONTRACTOR's liabilities.

Notwithstanding anything contained herein above our liability under this Guarantee is restricted to Rs..... and it shall remain in force up to the includingunless a written demand to enforce any claim under this Guarantee is lodged with us before expiry date, the Bank will be discharged from its liabilities under this Guarantee. This Guarantee shall be extended from time to time for such period or period as may be desired by the on whose behalf this guarantee has been given.

Dates this.....day of20.....
at

.....
Signature

Banker's rubber stamp:

Name

Designation with
Bank stamp:

Attorney as per power of
Attorney No.

Dated

3.0 **ANNEXURE-C**

PROFORMA FOR BANK GUARANTEE FOR EMD

(To be stamped in accordance with Stamp Act)

Ref

Bank Guarantee No.....

Date

Guarantee cover period: FromTo

To
M/s. Gujarat Industries Power Company Limited
At & Post – Nani Naroli
Taluka: Mangrol
Dist.Surat-394 110

Dear Sirs,

In accordance with your "Invitation for Bids" under your Specification No.....Dated.....

M/s..... having its Registered/Head office at.....

(Herein after called the Bidder) wish to participate in the said Bid for

As an irrevocable bank Guarantee against Bid guarantee for an amount of Rs..... valid for one (1) year from is required to be submitted by the Bidder as a condition precedent for participation in the said Bid, which amount is liable to be forfeited on the happening of any contingencies mentioned in the Bid Documents.

We, the Bank at, having our Head Office at (local address) Guarantee and undertake to pay immediately on written demand by Gujarat Industries Power Company Limited (hereinafter called the "Purchaser")

(In figures) (In words)

..... without any reservation, protest, demur and recourse. Any such demand made by said "Purchaser" shall be conclusive and binding on us irrespective of any dispute or difference raised by the Bidder. It shall be conclusive and enough for enforcement of Bank Guarantee on the Bank if Purchaser invokes the Bank Guarantee stating only that the default has been committed by the Bidder, thus far and no further.

Contd....2

(2)

This Guarantee shall be irrevocable and shall remain valid up to if any further extension of this guarantee is required, the same shall be extended to such required period on receiving instructions from on whose behalf the guarantee is issued.

In witness there of Bank, through its authorized Officer, has set its hand and stamp on this day of20 at
.....

.....
(Signature)

.....
(Name)

Designation with Bank

Stamp:

Attorney as per Power of
Attorney No.

Dated

4.0 ANNEXURE-D

PERFORMA CERTIFICATE
(No claim, No arbitration)

To,
Chief General Manager (Mines)
Gujarat Industries Power Company Limited,
Surat Lignite Power Plant,
Village: Nani Naroli, Ta. Mangrol,
Dist. Surat – 394110 (Gujarat).

Dear Sir,

Subject:_____

Ref: Work Order No.:_____ **Dated**_____

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.

5.0 **ANNEXURE-E**

LIST OF REQUIRED MINIMUM EQUIPMENTS, TOOLS & TACKLES

Sr. No.	Description	Quantity
	JCB	As and when required.
	Mixer Machine	01 working, 01 Standby
	Tractor trolley/Trailer	02
	Buffer wheel Machine	01
	Surface Vibrator (Minimum 3.5m long)	01
	Poker Vibrator (Electrical & Petrol)	02 & 01
	Water Tanker	01
	Needle (60 & 40)	02& 02
	Auto level (With calibration certificate)	01
	Cube Moulds	6 Sets
	Slump cone	01
	Drill Machine	01
	150&100MM MS Channel	Around 50m each
	Welding rod (Approved make)	As per the requirement
	Tools and Tackles (Ironpan, Spade, Pickaxe, Crowbar, PVC Pipes, line dori, lime powder, hand gloves etc)	As per the requirement.

NOTE:-

The Contractor shall note that above list is not exhaustive and if any additional tools & tackles or equipment, machinery etc., are required for proper performance of the contract, the contractor shall also arrange the same immediately without any extra cost to GIPCL. Above equipments shall be in good condition for execution of work, equipments older more than 10 years and running not properly shall not be allowed to work on site.

6.0 **ANNEXURE-F**



GUJARAT INDUSTRIES POWER COMPANY LIMITED (Surat Lignite Power Plant)

SCHEDULE OF DEVIATION

All the deviations from the general and special conditions of contract shall be filled by BIDDER clause by clause in this schedule.

Sr. No	SECTION	CLAUSE NO	AS PER TENDER DOCUMENT	DEVIATION

The bidder here by certifies that the above mentioned are the only deviations from GIPCL’s General/ Special Conditions of this 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 GIPCL’s General /Special Conditions, then the latter shall govern and will be binding on the BIDDER for quoted price.

COMPANY SEAL

SIGNATURE

NAME

DESIGNATION

COMPANY

DATE

7.0 **ANNEXURE-G**

(To be submitted on Company's Letter Head)

Declaration Cum Undertaking for Safety Laws and Regulations Compliance

I _____ on behalf of (Name of Party/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.

Further, I (Name of Party/Company) also hereby confirm, declare and undertake that there has not been any major Safety Violation and any single Fatal Accident during the execution of the contract/contracts awarded to me during the period of preceding Three years.

PLACE:

DATE:

Signed and Stamped by the
Authorized Signatory of the Bidder

8.0 **ANNEXURE-H**

(To be submitted on Company's Letter Head)

Declaration for Contractual Disputes/ Litigations

I _____ on behalf of (Name of Party/Company) hereby confirm that I/We have not been engaged in any Industrial Dispute(S) or have invoked legal recourse e.g. Arbitration and/or litigation against any Govt. of Gujarat Undertakings / Depts. / Authorities and Govt. of Gujarat supported companies / undertakings / organizations for the last Five (05) years. There are no ongoing/pending legal matter(s) with any of the Govt. of Gujarat Undertakings / GoG supported Companies, including GIPCL.

I/We also confirm that M/s. (Name of Party/Company) have not been Blacklisted/ deregistered / listed under stop Deal by any Govt. of Gujarat Undertakings / Depts. / Authorities and Govt. of Gujarat supported companies / undertakings / organizations, including GIPCL for the last Five (05) years.

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.

PLACE:

DATE:

Signed and Stamped by the
Authorized Signatory of the Bidder

9.0 **Form-A**

List of qualifying staff to be submitted with physical documents

Sr. No.	Name of Supervisor	Qualification	Experience

Contractor / Authorized Representative's
Signature, Company's / Organization's Seal & Date

10.0 **Form-B**

List of Tools & Tackles to be submitted with physical documents

Sr. No.	Description	Nos.	Status

Contractor / Authorized Representative's
Signature, Company's / Organization's Seal & Date

11.0 CHECK LIST FOR ELIGIBILITY CRITERIA AND SUPPORTING DOCUMENT SUBMISSION (TO BE SUBMITTED BY BIDDER WITH PHYSICAL DOCUMENT COVER)

CL. NO.	ELIGIBILITY CRITERIA (INSTRUCTIONS TO BIDDERS, CLAUSE NO. 5)	Ref. work Orders for similar nature works during period of 2013-14 to 2018-19	Attested copies submitted (Yes / No)
5.1	Bidder should possess minimum 03 years of experience out of last 05 years in similar nature of jobs.	W.O. No. & date (1): _____ Name of client: _____ W.O. Period: From date_____ to date_____ W.O. Value: Rs. _____ Satisfactory work comp. certificate No. with date: _____ Actual contract completion as per certificate: _____ Actual executed value as per certificate: Rs. _____ W.O. No. & date (2): _____ Name of client: _____ W.O. Period: From date_____ to date_____ W.O. Value: Rs. _____ Satisfactory work comp. certificate No. with date: _____ Actual contract completion as per certificate: _____ Actual executed value as per certificate: Rs. _____ W.O. No. & date (3): _____ Name of client: _____ W.O. Period: From date_____ to date_____ W.O. Value: Rs. _____ Satisfactory work comp. certificate No. with date: _____ Actual contract completion as per certificate: _____ Actual executed value as per certificate: Rs. _____ W.O. No. & date (4): _____ Name of client: _____ W.O. Period: From date_____ to date_____ W.O. Value: Rs. _____ Satisfactory work comp. certificate No. with date: _____ Actual contract completion as per certificate: _____ Actual executed value as per certificate: Rs. _____	
5.2	Detail of Minimum Order value	Ref. work Orders for similar works for the period of 2013-14 to 2018-19	Attested copies submitted (Yes / No)
	a) One similar completed/executed work each costing not less than the amount equal to Rs. 23.22 lakhs.	W.O. No. with date: _____ Name of client: _____ W.O. Period: From date_____ to date_____ W.O. Value: Rs. _____ Satisfactory work comp. certificate No. with date: _____ Actual contract completion as per certificate: _____	

		Actual executed value as per certificate: Rs. _____	
OR			
b) Two similar completed/executed works each costing not less than the amount equal to Rs. 14.51 Lakh.	(1) W.O. No. with date: _____		
	Name of client: _____		
	W.O. Period: From date _____ to date _____		
	W.O. Value: Rs. _____		
	Satisfactory work comp. certificate No. with date: _____		
	Actual contract completion as per certificate: _____		
	Actual executed value as per certificate: Rs. _____		
	(2) W.O. No. with date: _____		
	Name of client: _____		
	W.O. Period: From date _____ to date _____		
	W.O. Value: Rs. _____		
	Satisfactory work comp. certificate No. with date: _____		
	Actual contract completion as per certificate: _____		
	Actual executed value as per certificate: Rs. _____		
OR			
c) Three similar completed/executed works each costing not less than the amount equal to Rs. 11.61 Lakh.	(1) W.O. No. with date: _____		
	Name of client: _____		
	W.O. Period: From date _____ to date _____		
	W.O. Value: Rs. _____		
	Satisfactory work comp. certificate No. with date: _____		
	Actual contract completion as per certificate: _____		
	Actual executed value as per certificate: Rs. _____		
	(2) W.O. No. with date: _____		
	Name of client: _____		
	W.O. Period: From date _____ to date _____		
	W.O. Value: Rs. _____		
	Satisfactory work comp. certificate No. with date: _____		
	Actual contract completion as per certificate: _____		
	Actual executed value as per certificate: Rs. _____		
	(3) W.O. No. with date: _____		
	Name of client: _____		
	W.O. Period: From date _____ to date _____		
	W.O. Value: Rs. _____		
	Satisfactory work comp. certificate No. with date: _____		
	Actual contract completion as per certificate: _____		
	Actual executed value as per certificate: Rs. _____		
5.3 Bidder shall have to submit satisfactory work completion certificate from the client (Experience as a sub-contractor will not be allowed).	Satisfactory work comp. certificate No. with date: _____		
	Ref. Work Order with Name of client: _____		
	Satisfactory work comp. certificate No. with date: _____		
	Ref. Work Order with Name of client: _____		
	Satisfactory work comp. certificate No. with date: _____		
	Ref. Work Order with Name of client: _____		
	Satisfactory work comp. certificate No. with date: _____		

		Ref. Work Order with Name of client: _____	
5.4	Tender fee in form of DD through specified banks.	DD No. _____ Date _____ Amount Rs. _____ Bank _____	
5.5	EMD in form of DD or BG through specified banks.	DD / BG No. _____ Date _____ Amount Rs. _____ Bank _____	
5.6	EPF Code No.	PF Code No.: _____ Date _____	
5.7	Attested copies of relevant documents duly signed & seal on each & every page shall be submitted.	Please tick Submitted / Not submitted	
5.8	Minimum annual turnover should be Rs. 8.71 Lakh for last three financial years. Bidder shall furnish annual audited financial statement duly certified by C.A. for the last three financial years. In case, the annual turnover is less than the statutory guideline, the bidder shall submit the turnover certificate from C.A.	2015-16: Rs. _____	
		2016-17: Rs. _____	
		2017-18: Rs. _____	
5.9	The Net worth at the end of the last financial year should be positive. Bidder shall submit necessary evidence in the form of certificate from certified C.A.	Please tick Submitted / Not submitted	
5.10	Income Tax PAN No.	_____	
5.11	GST Registration No.	_____	

5.13	Annexure-G Annexure-H	Please tick Submitted / Not submitted Submitted / Not submitted	
9 (a-2)	Schedule of Deviation Annexure-F	Please tick Submitted / Not submitted	
9 (a-4)	The tender documents duly signed in all pages without price bid along with techno-commercial deviations, if any	Please tick Submitted / Not submitted	

SECTION G

TECHNICAL SPECIFICATIONS

1. STANDARD MAKES FOR MATERIALS

(To be used and strictly followed for the work Tendered)

- | | | | |
|----|---------------------|---|--|
| 1. | Cement | : | OPC 53 Grade Ultratech, Sanghi, Siddhi or J.K. Laxmi |
| 2. | Reinforcement Steel | : | Electrotherm, Sail or Vizag |
| 3. | Floor Hardener | : | FOSROC |
| 4. | Sealant | : | Fosroc make COLPOR-200 or equivalent |

SIGNATURE AND SEAL OF THE CONTRACTOR:

NAME AND ADDRESS:

DATE:

2. TECHNICAL SPECIFICATIONS

2.1 PREAMBLE

1. In the specification “as directed” / “approved” shall be taken to mean, “as directed /approved by the Engineer-in-charge”.
2. Wherever a reference to any Indian Standard appears in the specifications, it shall be taken to mean as a reference to the latest edition of the same in force on the date of agreement.
3. In “Mode of Measurement” in the specification wherever a dispute arises in the absence of specific mention of a particular point or aspect, the provisions on these particular point or aspects in the relevant Indian Standards shall be referred to.
4. All measurements and computations, unless otherwise specified, shall be carried out nearest to the following limits:

(i)	Length, width and depth (height)	0.01 Mt.
(ii)	Areas.	0.01 Sq.mt.
(iii)	Cubic Contents	0.01 Cu.mt.

In recording dimensions of work.

The sequence of length, width and height (depth) or thickness shall be followed.

5. The distance, which constitutes lead, shall be determined along the shortest practical route and not necessarily the route actually taken. The decision of the Engineer-in-Charge in this regard shall be taken as final.
6. Where no lead is specified, it shall mean “all leads”.
7. Definite particulars covered in the items of work, though not mentioned or elucidated in its specifications shall be deemed to be included therein.
8. Any material specified in detail specification of items shall be of quality and property as mentioned in the respective general specifications of materials mentioned in this tender.
9. Approval of the samples of various materials given by the Engineer-in-Charge shall not absolve the contractor from the responsibility of replacing defective material brought on site or materials used in the work found defective at a later date. The contractor shall have no claim to any payment or compensation whatsoever on account of any such materials being rejected by the Engineer-in-Charge.
10. The contract rate of the item of work shall be for the work completed in all respects.
11. No collection of materials shall be made before it is got approved from the Engineer-in-Charge. Collection of approved materials shall be done at site of work in a systematic manner. Materials shall be stored in such a manner as to prevent damage, deterioration or intrusion of foreign matter and to ensure the preservation of their quality and fitness for the work.
12. Materials, if and when rejected by the Engineer-in-Charge, shall be immediately removed from the site of work.

13. No materials shall be stored prior to, during and after execution of a structure in such a way as to cause or lead to damage on overloading of the various components of the structure.
14. All work shall be carried out in a workmanlike manner as per the best techniques for the particular item.
15. All tools, templates, machineries and equipments for correct execution of the work as well as for checking lines, levels, alignment of the works during execution shall be kept in sufficient numbers and in good working condition on the site of the work.
16. The mode, procedure and manner of, execution shall be such that it does not cause damage or over-loading of the various components of the structure during execution after completion of the structure.
17. Special modes of construction not adopted in general Engineering practice, if proposed to be adopted by the contractor, shall be considered only if the contractor provides satisfactory evidence that such special mode of construction is safe, sound and helps in strength and quality. Acceptance of the same by the Engineer-in-Charge shall not, however, absolve the contractor of the responsibility of any adverse effects and consequences of adopting the same in the course of execution of completion of the work.
18. All installations pertaining to water supply and fixtures thereof as well as drainage lines and sanitary fittings shall be deemed to be completed only after giving satisfactory tests by the contractor.
19. The contractor shall be responsible for observing the rules and regulations imposed under the “Minor Minerals Act” and such other laws and rules prescribed by Government from time to time.
20. All necessary safety measures and precautions (including those laid down in the various relevant Indian Standards) shall be taken as also of the work itself.
21. The testing charges of all materials shall be borne by the Contractor.
22. Approval to any or the executed items for the work does not in any way relieve the contractor of his responsibility for the correctness, soundness and strength of the structure as per the drawings and specifications.
23. All works shall be carried out strictly as per detailed technical specification provided in the tender. If not specified, the work shall be executed according to relevant applicable IS codes and standard engineering practice. In such case decision of the Engineer-in-charge shall be final and binding to the contractor and in no case the contractor will claim any extra for the same.
24. If Tenderer feels that detail technical specifications for items mentioned in Schedule “B” are not provided with the tender, he will raise such points before quoting rates and submitting the tender. No claim on the basis of such argument shall be entertained during the course of work.
25. All measurements shall be considered as mentioned in the drawings / schedule / detail specifications.

26. If Tenderers need any clarifications, they should obtain the same in writing from Owner/Engineer-in-charge.

mm	Millimetres
cm	Centimetres
mt.	Metres
Km.	Kilometres
Sqm	Square Metres
Cum .	Cubic Metres
R.Mt.	Running Metres
No.	Numbers
C.I.	Cast Iron
R.C.C.	Reinforced Cement Concrete
Wt.	Weight
Kg.	Kilogramme
M.T.	Metric Tonne
M.D.	Metre Depth
M.S.	Mild Steel
I.S.	Indian Standard

SIGNATURE AND SEAL OF THE CONTRACTOR:

NAME AND ADDRESS:

DATE:

QUALITY CONTROL PLAN FOR VARIOUS CIVIL MATERIALS AND WORKS

Sr no	Material /Activity	Tests to be conducted	IS code/Norms of acceptance	Frequency	Test conducted by
1	Coarse aggregate				
		Visual inspection	Clean, free from clay, vegetaion, etc.As per IS 383, IS 456	Once in beginning or at change of source	Site Incharge
		Flakiness and elongation indices test	As per IS 383, IS 2386, IS 456	Once in beginning or at change of source	Approved lab
		Sieve analysis	As per IS 383, IS 2386, IS 456	Once in beginning or at change of source	Approved lab
		Moisure content	as per IS 383, IS 2386, IS 456 and as per design mix report	Once in beginning or at change of source	Approved lab
		Crushing value	as per IS 383, IS 2386, IS 456 and as per design mix report	Once in beginning or at change of source	Approved lab
		Abrasion value	as per IS 383, IS 2386, IS 456 and as per design mix report	Once in beginning or at change of source	Approved lab
		Absorption value	as per IS 383, IS 2386, IS 456 and as per design mix report	Once in beginning or at change of source	Approved lab

	Material /Activity	Tests to be conducted	IS code/Norms of acceptance	Frequency	Test conducted by
1 Cont	Coarse aggregate				
		Soundness	as per IS 383, IS 2386, IS 456 and as per design mix report	Once in beginning or at change of source	Approved lab
		Limit of deleterious materials	as per IS 383, IS 2386, IS 456 and as per design mix report	Once in beginning or at change of source	Approved lab
		Specific gravity	as per IS 383, IS 2386, IS 456 and as per design mix report	Once in beginning or at change of source	Approved lab
2.	Fine aggregates				
		Sieve analysis, silt content, bulk density	as per IS 383, IS 2386, IS 456 and as per design mix report	Once in beginning or at change of source	Approved lab
		Specific gravity	as per IS 383, IS 2386, IS 456 and as per design mix report	Once in beginning or at change of source	Approved lab
		Moisture content, bulkage	as per IS 383, IS 2386, IS 456 and as per design mix report. Quantity of water in concrete to be suitably adjusted based on moisture content.	At regular close intervals	Field test

Tender for "Surat Lignite Power Plant 4 X 125 MW, Unit # I to IV: "Construction of RCC Road near Dungri-Vastan Crossing" Bid No.: SLP/Civil/Mines/RCC Road/2019/					
Sr no	Material /Activity	Tests to be conducted	IS code/Norms of acceptance	Frequency	Test conducted by
3	Earthwork in excavation				
		Visual inspection	Check layout, pre and post levels, dimensions and depth.	Record of levels and pour card	Site In charge
		Side slopes and other safety considerations	As per site condition As per IS 3764	Safety to be taken during excavation adjoining to existing structure/building and provide strutting /planks etc.	Site In charge
4.	Earth/Sand/bed material filling				
		Visual inspection	Free from organic material	During filling work	Site In charge
		Optimum moisture content, laboratory dry density, max and min dry density	As per IS 2720		Approved lab
5.	Formwork				
	Material	i)	Visual inspection for linearity and surface	Straight and plain, free undulations, warpage, etc. clean, smooth, shuttering with oil applied.	Pour card
	Shuttering	i)	Visual inspection for alignment, verticality, plumb for column members, rc wall and fixity of supports	As per technical specification and As per IS Code	Pour card
		ii)	Level checking	As per drawing or technical specification	Pour card and level record
6	Reinforcement work				
	Barbending	Prepare and check bar bending schedule	As per IS 456, IS 2502 and as per drawing	During work commenced of reinforcement work-daily	Site In charge

		Linearity, shape, size and no. of bars	As per IS 456, IS 2502 and as per drawing	During work commenced of reinforcement work-daily	Site In charge
		Guage and type of binding wire	As per technical specification	Each lot	Site In charge
		Size and mix of cover block	As per technical speciation and drawing	Each lot	Site In charge
		Location and number of bars	As per drawing or shown by site in charge	During work commenced of reinforcement work-daily	Site In charge
		Tying of bars	Properly tying as per IS 2502	During work commenced of reinforcement work-daily	Site In charge
7.	Concrete works				
	Prior work	Design of mix for grade of concrete mentioned in item description or as per technical specification or as per drawing	As per IS 456 and as per technical specification for minimum content of cement	For each mix initially once and thereafter for every change of source ingredients	Approved lab
		Inspection of ingredients	As per given Q.A. Plan for individual materials required for concrete work		Approved lab
	During concreting	Scaffolding for walkway	As per IS 3696 and IS 4014, Strong, proper with hand railing	During work commenced.	Site In charge
		Calibration of weigh batchers/batching plant	As per manufacturer's specification	Random	Site In charge
		Batching of materials	As per design mix	Pour card	Site In charge
		Slump cone test	As per design mix or As per IS 456, IS 10262	Random	Field test
		Compaction	Proper compaction as per IS 456	During work commenced.	Site In charge
		Compressive strength test samples	No. of cubes to be cast as per IS 456	During work commenced. 50 cum/ one	Site In charge

				set .	
		Flexural test samples	No. of cubes to be cast as per IS 456	During work of RCC road or RCC precast covers, etc.	Site In charge
		Level checking	As per drawing and technical specification	Pour card, records of levels	Site In charge
		Construction joint	Pre determined location as per site condition or as per technical specification. Material of construction joint to be tested in approved lab	Pour card or sketch	Approved lab
	Post concreting	Curing	Concrete surface to remain moist all the time as per IS 456 and as per technical specification	Up to period of curing to be checked and record	Site In charge
		Visual inspection after deshuttering	Smooth surface, free of honeycombs	After deshuttering	Site In charge
		Compressive strength test	As per IS 456, IS 616	All cubes cast to be tested	Approved lab

For item no 1

Excavation :-

1.1.0 General

Any soil which generally yields to the application of pickaxes and shovels or jumpers or scarifiers phawaras rakes or any such excavation implement or organic soil, gravel, silt, sand tuff loam, clay, peat etc. fall under this category.

1.1.1 Setting Out

After clearing the site, centre lines shall be marked in presence of the Engineer-in-charge. The contractor shall assume full responsibility for alignment, elevation and dimension of each and every part of the work. The contractor shall supply labour, materials, survey tools and tackles etc and shift the centerline from nearby existing foundations and make pillars. required for setting out the reference marks.

1.1.2 Excavation:

The excavation in roadwork shall be carried out in true line and level and shall have the width and depth as shown in the drawings or PCC dimensions of road or as directed. No extra payment shall be made for extra cutting for working space, soil

condition, safety requirements etc

1.1.3 Disposal of excavated materials:

Unsuitable materials obtained from clearing site and excavation shall be disposed off within a lead of 3.00 kms. as directed. Useful materials obtained from clearing site and excavation shall be stacked within lead of 3.0 Km and shall be used for backfilling after completion of road work as directed.

1.1.4 Mode Of Measurement And Payment:

The measurement for payment shall be the theoretical excavation volume only as per drawing i.e. for the volume of the block of the bottom excavation having the depth and maximum dimensions of the foundation structures including mud mat as per drawing. The contractor shall take into account in his rate the provision for any excess excavation for necessary working space, steps, sloping etc. required for excavation safely and other & re-filling the side slope/working space etc.

No payment shall be made for surplus excavation made in excess for above requirements or due to stooping and sloping back as found necessary on account of conditions of soil and requirements of safety or construction schedule requiring excavation to be done in parts

No extra payment shall be made for temporary pumping of water/sewage due to abnormal adverse conditions/climate. Sub soil water may envisaged during execution of work. Rates shall deemed to be included in rates.

The Plan area of PCC shall be measured for its length, breadth and depth, limiting dimensions to those specified on plan or as directed. The rate shall be for a unit of cubic meter.

The contractor shall maintain detailed joint record of ground level and finished work.

For Item no 2

Plain Cement Concrete (PCC)

2.1 Materials:

As approved

2.2 Workmanship:

2.2.1 General:

Before starting concreting the bed of subgrade shall be cleared of all loose materials, levelled, watered and rammed as directed.

2.2.2 Proportion of Mix:

The proportion of cement, sand coarse aggregate shall be 1 part of cement, 4 parts of sand 8 parts of stone aggregate shall be measured by volume.

2.2.3 Mixing:

The concrete shall be mixed in a mechanical mixer at the site of work. Hand mixing may however be allowed for smaller quantity of work if approved by Engineer-in-charge. When hand mixing is permitted by the Engineer-in-charge in case of break down of machinery's and in the interest of the work, it shall be carried out on a water tight platform and care shall be taken to ensure that mixing is continued until the mass is uniform in colour and

consistency. However in such case 10% more cement than otherwise required shall have to be used without any extra cost. The mixing in mechanical mixer shall be done for a period 1 ½ to 2 minutes. The quantity of water shall be just sufficient to produce dense concrete of required workability for the purpose.

2.2.4 Transporting and placing the concrete:

The concrete shall be handed from the place of mixing to the final position in not more than 15 minutes by the method as directed and shall be placed into its final position, compacted and finished within 30 minutes of mixing with water i.e. before the setting commences.

The concrete shall be laid in layers of 15 cms to 20 cms.

Compacting: The concrete shall be rammed with heavy iron rammer and rapidly to get the required compaction and to allow the interstices to be filled with mortar.

2.2.5 Curing: -

After the final set, the concrete shall be kept continuously wet, if required by ponding for a period of not less than 7 days from the date of placement.

2.2.6 Mode of measurements and payment:

The concrete shall be measured for its length, breadth and depth, limiting dimensions to those specified on plan or as directed. The rate shall be for a unit of one cubic meter.

For Item no 3

Reinforced Cement Concrete (RCC)

3.1.0 Material:

As approved

3.2.0 Proportioning Mix:

The mix of fine and course aggregates, cement and water shall be design by preliminary test to give the densest concrete requiring the minimum quantity of cement paste for binding the materials to give the required strength. Water content and the water cement ratio shall be determined from the results of preliminary tests of concrete to give the specified strength with the materials proposed for actual use in the work carried out before the work is started, adopting the consistency suitable for the work and method of compaction that will be actually used on site subject to the water cement Ratio as per IS codes tabulated separately.

3.3.0 Test:

Test shall confirm to the specification laid down in I.S. 456. These test shall be got done in an approved laboratory at the cost of contractor.

3.3.1 Preliminary Tests:

In preliminary test, three separate tests shall be carried out on samples collected from different stacks, each test shall be carried out with six samples of 15cm. (about 6") cubes and 3 of these shall be tested at 7 days and 3 at 28 days.

3.3.2 Work Test:

For each of the works test, 6 samples shall be prepared from the concrete used on the work 3 samples being tested at 7 days and the remaining 3 samples at 28 days. Works test shall be carried out on each of the first six days and subsequently once in three working days or for every 60 cu.m. of concrete whichever is less and also whenever the quality or grading of the materials is changed. When a relation between the strengths at 7 days and 28 days is established only 3 samples may be prepared and tested at 7 days only, this normal number of control specimen test may be increased if the Engineer considers it necessary.

3.4.0 Field Mix:

The actual proportions of the fine and coarse aggregates will be determined by preliminary tests. In the works tests, bulkage of sand due to moisture if any, should be allowed for different batches according to the moisture actually present at the time of mixing. This moisture will be taken into account in controlling the mixing water also. The proportions once fixed by preliminary tests shall not be changed so long as the materials are the same, subject only to the quantities of fine aggregate and water being adjusted to compensate for bulkage due to the moisture in sand and free water in fine aggregate at the time of use.

No change of materials shall be allowed unless fresh tests with new materials show satisfactory results.

Water and cement content per batch of concrete as determined by preliminary test shall be maintained constant except for suitable allowances to be made for surface moisture of the aggregate at the time of actual use.

Immediately upon the receipt of the award of the contract, the contractor shall inform the Engineer-in-charge the exact location of the sources of the acceptable materials which he proposes to use get the materials approved. The mix with the actual approved materials to be used shall be got designed in an approved laboratory by the contractor with minimum water cement ratio as specified later in this specification to give the specific strength in the preliminary tests and the proportions got approved by the Engineer-in-charge in writing. These proportions shall be used so long as the materials contains to be of the same quality and from the same sources subject only to slight changes in the relative quantities of fine and coarse aggregates for the purpose of promoting workability provided the works tests also show the required strengths. If during the progress of the work, the contractor wishes to change the materials, the proportion shall be fixed on the basis of fresh preliminary tests to give the required strength after the Engineer-in-charge is satisfied that the materials satisfy the specifications. No adjustment of the cost shall be made for change of proportions of cement mixed in the original preliminary tests.

3.5.0 Maximum Water Cement Ratio:

Sr. no.	Type of concrete	Mix Strength	Maximum water cement ratio
---------	------------------	--------------	----------------------------

1.	Reinforced concrete	(a) M-250	0.50
		(b) M-200	0.55
		(c) M-150	0.60

3.6.0 Proportioning of Field Mix:

The proportion of sand and coarse aggregate shall be determined by weight. The weigh-batch machine shall be used for maintaining proper control over the proportioning of aggregates as per mix design. The mix proportion shall be allowed either by volume or by weigh batcher. The decision of Engineer-in-charge shall be final

3.7.0 Workmanship:

3.7.1 Detail specifications for Concrete:

Concrete: Generally all concrete shall be as per IS 456

3.7.2 Cement:

The cement shall be ordinary Portland Cement confirming to IS:269. Under special circumstances other cements may be used with prior approval of Engineer-in-charge.

3.7.3 Aggregates:

Aggregates shall comply with the requirements of IS:383 . Generally aggregates having a nominal size of 20 mm shall be used. Coarse and Fine aggregates shall be batched separately.

3.7.4 Water:

Water used for mixing and curing shall be as per Clause 4.3 of IS:456.

3.7.5 Admixtures:

Admixtures such as plasticizer/super plasticizer may be used with prior approval of the Engineer-in-charge.

3.7.6 All reinforcement shall be free from loose mill scale, loose rust, and coats of paints, oil, mud or other coatings. The Contractor shall clean the reinforcement by using wire brush, rubbing with gunny bags, light acid itching etc. as required.

3.7.7 Grades of concrete to be used shall be M10, M15, M20, M25,.

3.7.7.1 Minimum cement content for different grades of concrete shall be as follows:

Grade	Minimum cement content in Kg.
M-100	200

M-150	300
M-200	345
M-250	390

3.7.7.2 Workability of concrete shall be as per Clause 6.0 of IS:456.

3.7.7.3 Durability :- In order to provide/produce durable concrete with low permeability, it must have an adequate cement content and a low water cement ratio. By using strong, dense aggregates, sufficient low water cement ratio, ensuring through compaction and sufficient hydration of cement through proper curing methods, a sufficient low permeability is achieved. Therefore cement content shall be sufficient to provide adequate workability with a low water cement ratio so that concrete can be completely compacted with the means available.
The permissible limits of chlorides and sulphate in concrete shall be as per Appendix A of IS 456.

3.7.8 Concrete Mix Proportioning :- The mix proportions of cement, aggregates and water for different grades of concrete shall be determined by designing the concrete mix. (Controlled concrete weigh batch). The Designed Mix Concrete when fresh shall have required workability suitable for the conditions of handling and placing so that after compaction it surrounds all reinforcements, and completely fills the formwork. When the concrete is hardened it shall have the required strength, durability and surface finish. For this purpose the Contractor shall establish a well equipped concrete testing laboratory at site. Different grades of concrete shall be designed in the laboratory. Necessary preliminary works cube tests shall be carried out by relevant Indian Standards. The results of these shall be sent to Consultant for their comments/approval/suggestion for modification of Design Mix.

3.7.8.1 Strength Requirement of Concrete:

Where ordinary portland cement conforming to IS:269 or portland blast furnace cement conforming to IS: 455 is used, the compressive strength requirements for various grades of concrete, controlled as well as ordinary shall be as given in Table-1. Where rapid hardening portland cement is used, the 28 days compressive strength requirement specified in Table-1 shall be met at 7 days. For controlled concrete, the mix shall be so designed as to attain in preliminary tests, a strength at least 33 percent higher than that required on work tests, for concrete mix upto and including M-200 and 25 percent higher for higher strengths. Preliminary tests need not be made in case of 'ordinary concrete'.

Grade of concrete	Compressive works strength in kg/cm ² on 150mm cubes as per testing conducted in accordance with IS:516	
	Min. at 7 days	Min. at 28 days
M-100	70	100
M-150	100	150
M-200	135	200
M-250	170	250

Note :-In all cases, the 28 days compressive strength specified in Table-1 shall alone be the criterion for acceptance or rejection of the concrete.

When the strength of a concrete mix, as indicated by tests, lies in between the strength for any two grades specified in Table-1, Such concrete shall be classified for all purpose as concrete belonging to the lower of the two grades between which its strength lies.

3.8.0 Mixing:

For all important works concrete shall be mixed in a mechanical mixer at the site of work. Care shall be taken to see that the mixer and other accessories are in first class working condition and maintained so throughout the construction. Mixing shall be continued till there is a uniform distribution of the materials and a uniform colour is obtained and each individual particle of the coarse aggregate shall show a complete coating of mortar continuing its proportionate amount of cement. In no case mixing shall be done for less than 1 minutes. The water cement ratio shall be as tabulated in the para of water cement ratio.

3.9.0 Transporting:

The concrete shall be handled from the place of mixing to the final position as quickly as practicable by methods which will prevent segregation and loss of ingredients. In no case shall be operation taken more than 15 minutes.

3.10.0 Placing:

The concrete shall be placed into its final position, compacted and finished within 30 minutes of mixing the water and before setting commences. The method of placing shall be such as to avoid segregation. Placing shall be done in a balanced manner to avoid eccentric loads on formwork. 100 mm dia. PVC pipes across the width of road shall be provided at 30 meter spacing before starting concreting. The rate of M20 concrete shall include providing and laying of 100mm dia. PVC pipes at 30 meter spacing.

As far as practicable the concrete for a particular portion shall be done in one continuous operation. The construction joints when required shall be made only where located on the plans or shown in the pouring schedule unless otherwise approved by the Engineer. The joint shall be regular and vertical and shall be made by placing a bulkhead at the joint. Before commencing subsequent concreting all loose particles, laitance etc. shall be removed and the surface shall than be covered by thick cement slurry as part of placement. Care shall be taken during the placing not to disturb the forms or the reinforcement. Concrete compacted manually if permitted shall preferably be laid in layers of 15cm to 20cm (about 6" to 8") the layers being decided by the time lapse between the successive layers. The time of laying one layer shall not exceed 30 minutes. The successive layers shall commence within 30 minutes.

Where work is to be resumed on a surface which has hardened, such a surface shall be roughened and scrubbed with brushes to remove laitance, care being taken to avoid dislodgment of coarse aggregate, swept clean, thoroughly wetted and covered with 6 mm (about 1/4") thick mortar layer composed of cement and sand in the same proportional as the cement and sand in the concrete

immediately before the commencement of concrete for securing good bond.

The concrete shall be normally laid in the dry. If the area is under water it shall be pumped dry and kept so while placing concrete and till it sets. Where it is necessary to deposit concrete under water, it shall be done as per I.S. 456. No extra payment will be made for the special arrangements, plant etc. need for the purpose or for the addition 10 percent cement required to be added.

Where cold construction joint is unavoidable as agreed by Engineer in charge, contractor shall use Nito bond chemical before placing of fresh concrete over the surface, strictly as per manufacturer's instructions.

3.11.0 Compacting:

The concrete shall be thoroughly compacted during depositing to get a dense concrete by use of mechanical vibrators.

The vibrators shall have not less than 3,600 and preferably about 5,000 impulses per minutes and shall be worked at an interval of about 60cm (about 2'). It shall be worked in one place for only such time as will allow formation of dense concrete without sinking and segregation of the coarse aggregate. Over vibration shall be avoided. Vibration shall be aided by spading and rodding.

3.12.0 Curing:

Immediately after compaction, concrete shall be protected against harmful effects of weather including rain, running water, shocks, vibration, traffic, rapid temperature changes, frost and drying out process. It shall be covered with wet sacking, hosing or by hesian cloth or other similar absorbent material approved, soon after the initial set and shall be kept continuously wet for a period of not less than 14 days from the date of placement. Masonry work over foundation concrete may be started after 48 hours of its laying but curing of concrete shall be continued for a minimum period of 14 days.

3.13.0 Finishing:

Immediately after the removal of forms, any undulations, depressions, cavities, honeycombing, broken edges or corners, high spots and other defects shall be made good and finished with cement mortar 1:2, But the necessary of such finishing must be exceptional and the total surface requiring finishing shall not exceed 1 percent on an average. If the initial experience shows that this percentage is exceeded the method of working itself should be changed to get the required cast finish.

Where the concrete surface is to receive plaster, the surface shall be roughened immediately after removal of forms and within a day thereof to secure a hold for the plaster. The rate for concrete is inclusive of this roughening and finishing. Concrete after finishing shall be cured for the full period.

3.14.0 Retempering:

Concrete shall be mixed only in such quantities as are required for immediate use and any concrete which has developed initial set shall not be used. Concrete which is partially hardened shall not be retempered or remixed but shall be destroyed or thrown away.

3.15.0 Sampling And Testing:

Sampling of materials and concrete shall be done carefully by the contractor under the direct supervision of the Departmental staff as per I.S. 456 at the cost of the contractor, All necessary labour, materials, equipment etc. for sampling, preparing test cubes, curing etc. shall be provided by the contractor. Testing of the materials and concrete will be arranged by the Department in an approved laboratory at the cost of the contractor. No plea will be entertained later on the ground that casting of the test specimen was faulty and that the result of the test specimen was faulty and that the result of the test specimen did not give a correct indication of the actual quality of concrete.

After the relation between strengths at 7 days and 28 days is reliably established for the particular set of materials from the same sources, subsequent tests may be carried out only on three cubes at 7 days. If the average strength of the cubes shows ultimate compressive strength less than the above, the Engineer shall have a right to order a change in the mix or water content for the remaining concrete without extra cost. Defective concrete having strength below 80 percent of the required strength liable to be rejected. Concrete of strength upto 80 percent of the required strength may be accepted as substandard work at a reduced rate provided such weak concrete is restricted to such members and in such quantities as will not endeavor the safety of the structure.

3.16.0 FORM WORK:

3. 16.1 Materials:

The shuttering to be provided shall be of timber planks, steel plates, MS channel or marine ply as and shall conform to required and ordered to be used by the Engineer in charge and shall conform to M:26 and relevant I.S. codes for the said materials.

The dimensions of scantlings and battens or steel shall conform to the design. The strength of the material shall not be less than that assumed in the design.

3. 16.2 Workmanship:

The dimensions of all the materials used shall conform to the design, the strength of which shall not be less than that assumed in the design.

3. 16.3 Cleaning & Treatment Of Forms:

All rubbish, particularly chippings shaving and saw dust shall be removed from the interior of the form before the concrete is placed and the form work in contact with concrete shall be cleaned and thoroughly wetted or treated. The surface shall be then coated with soap solution applied before concreting. The soap solution, for the purpose shall be prepared by dissolving yellow soap in water to get consistency of paint. Alternatively a coat of raw linseed oil/ or form oil of approved manufacturer may be applied in case steel shuttering is used, soap solution or raw linseed oil shall be applied after thoroughly cleaning the surface.

Care shall be taken that the coating does not get on construction joint surface and

reinforcement bars.

3.16.4 Stripping Time:

In normal circumstances and where ordinary cement is used forms may be struck after expiry of following periods

	PERIOD
(a) Sides of walls columns and Vertical faces of beams.	24 to 48 hours.

3. 16.5 Procedure When Removing The Form Work:

All form work shall be removed without such shock or vibrations as would damage the reinforced concrete surface. Before the soffit work and struts are removed, the soffits and the concrete surface shall be exposed where necessary in order to ascertain that the concrete has sufficiently hardened.

3. 16.6 Re-Use:

Before re-use all forms shall be inspected by Engineer in charge and their suitability ascertained. The forms shall be scarred, cleaned and joints gone over, peoaired where required, inside surface shall be retreated to prevent adhesion of concrete.

3.16.7 Keeping Record:

A day record authenticated by a responsible officer of the department and the representative of the contractor in the perform approved by the Engineer shall be maintained by the contractor on the work site and kept open for inspection. This shall contain important information such as receipt of cement of starting concreting and closure number of batches through the mixer, source of water, water cement ratio of concrete, slump, dates of erection of form work, passing of form work by the competent authority, dates of striking of forms, periods and method of curing and other events worthy of note. On completion of the work, the record shall be handed over to the Department.

3.18.0 Item to Include:

(1) all labours, materials, use of equipments, tools and plant installing, false work and forms necessary for the satisfactory completion of the item except reinforcement.

(2) Providing cement concrete of specified proportion including transporting, placing and compacting, finishing to the dimensions and shape shown on the plans and as ordered by the Engineer.

(3) Necessary sampling and tests for materials and concrete.

(4) Compensation for injury to persons and damage to the work or property.

3.19.0 Mode of measurement and payment:

3.19.1 The consolidated cubical contents of concrete work as specified in item shall be measured. The concrete laid in excess of section shown on drawings or as directed shall not be measure. No deductions shall be made for.

Opening upto 0.1 Sq.mt.

The volume occupied by reinforcement shall not be deducted from R.C.C. work.

- 3.19.2 The rate includes cost of all materials, labor, tools and plant required for mixing, placing in position vibrating and compacting, dewatering, finishing as directed, curing and all other incidental expenses for producing concrete of specified strength. The rate includes the cost of formwork .
- 3.19.3 The rate shall be for a unit of one cubic metre.

Item no 4

Reinforcement

5.1 Material

High yield strength deformed (HSD) steel bars Thermo Mechanically Treated (TMT) steel of approved brand.

5.2 Workmanship

The work shall consist of furnishing and placing reinforcement to the shape and dimensions as shown on the drawing or as directed.

Steel shall be clean and free from rust and loose mill scale at the time of fixing in positions and subsequent concreting.

Reinforcement shall be bent cold to specified shape and dimensions or/directed using a proper bar bender, operated by hand or power to attain proper radius of bends, Bars shall not be bent or straightened in manner that will injure the material. Bars bent during transport of handling shall be straightened before being used on the work. They shall not be heated to facilitate bending, unless otherwise specified a "type hook at the end bar shall invariably be provided to main reinforcement. The radius of the bend shall not be less than twice the diameter of the end of the curve shall be at least four times the diameter of circle having an equivalent effective area. The hooks shall be suitably excised to prevent any splitting of the concrete.

All the reinforcement bars shall be accurately placed in exact position shown on the drawings, and shall be securely held in position during placing of concrete by annealed binding wire not less than 1 mm dia. in size and by using stay blocks or metal chair spacers, metal hanger supporting wires or other approved devices at sufficiently close intervals. Bars shall not be allowed to sag between supports nor displaced during concreting or any other operations of the work. All devices used for positioning shall be of non-corrodible material. Wooden and metal supports shall not extend to the surface of concrete except where shown on drawings. Placing bars on layers of freshly laid concrete, as the work progress for adjusting bar spacing shall not allowed. Pieces of broken stone or brick and wooden blocks shall not be used. Layers of bars shall be separated by spacer bars. Reinforcement after being placing position shall be maintained in a clean condition until completely embedded in concrete. Special care shall be exercised to prevent and displacement of reinforcement in concrete already placed. To prevent reinforcement from corrosion, concrete cover shall be provided as indicated on drawings. Bars crossing each other where required shall be secured by

binding wires (annealed) of size not less than 1 mm dia. in such a manner that they do not slip over each other at the time of fixing and concreting.

As far as possible, bars of full length shall be used. In case this is not possible, overlapping of bars shall be done as directed. When practicable overlapping bars shall not touch each other, but be kept apart by 95 mm or 1.25 times the maximum size of the coarse aggregates whichever is greater by concrete between them.

All surfaces shall be cleaned properly. Ends of the bars shall be cleaned of all loose scale, rust grease, paint and other foreign matter before welding. Only competent welders shall be employed on the work. The M.S. electrodes used for welding conform to IS 814. Welded pieces of reinforcement shall be tested. Specimen shall be taken from the actual site and number and frequency of test shall be as directed.

Cold twisted steel bars shall be used with or without hooks at the ends. Deformed bars without hooks shall, however comply with relevant anchorage requirement.

5.3 Mode of measurement and payment:

Only the actual quantity of steel embedded in concrete including laps as shown on drawings or unavoidable laps as approved by OWNER/ENGINEER shall be measured and paid for, irrespective of the level or height at which the work is done. The unit rate for reinforcement shall include all wastages, binding wires, chairs, spacer bars, avoidable laps etc. for which no separate payment shall be made.

Bar bending schedule shall be prepared by contractor from approved drawings as per IS 2502-1963 (Reaffirmed 2004) and shall be submitted to GIPCL Engineer for approval well in advance. Payment shall be based on approved bar bending schedule and as per decision of Engineer in charge. No extra payment shall be made for avoidable overlaps. No extra payment shall be made for chairs, spacer bars, supports etc. and shall deemed to be included in quoted rates.

The rate for reinforcement includes cost of steel and binding wires, its purchase, carting and stacking to work site, cutting, bending, placing, binding and fixing in position as shown on the drawings and as directed. It shall also include all devices for keeping reinforcement in approved position, cost of joining as per approved method and all wastage and spacer bars. The rate shall be for a unit of one MT.

Rest Items

As per item description.

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