

NAME OF WORK: SERVICE CONTRACT FOR MECHANICAL, ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLDMILL SSTP BHEL- TRICHY

Enquiry No: 9472400081/ 11-09-2024 - GEM/2024/B/5349040

BHARAT HEAVY ELECTRICALS LIMITED– TIRUCHIRAPPALLI-620 014

WORKS CONTRACTS MANAGEMENT

NOTICE INVITING e-TENDER (GeM)

PART-I (TECHNO COMMERCIAL BID)

1.	Tender Ref. No. : GeM Bid No.:	Enquiry No: 9472400081/ 11-09-2024- GEM/2024/B/5349040
2.	Tender Type	Open Tender–Two Part (e–Tender)
3.	Name of work	SCHEDULE-1: SERVICE CONTRACT FOR MECHANICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL / SSTP BHEL- TRICHY SCHEDULE-2: SERVICE CONTRACT FOR ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLD MILL /SSTP BHEL- TRICHY SCHEDULE-3: SERVICE CONTRACT FOR MECHANICAL MAINTENANCE SUPPORT SERVICES IN COLD MILL/SSTP BHEL- TRICHY
4.	Location of work	SSTP / BHEL Trichy (Tamil Nadu)
5.	Period of contract	ONE YEAR (12 Months) from the date of award of contract.
6.	Earnest Money Deposit (EMD)	NIL
7.	PERFORMANCE SECURITY	5% of the Contract value should be paid fully before commencement of work.)
8.	Tender Document details	Technical bid pages from 1 to 66
9.	Mode for submission of offer	No physical submission of Tender. Tender only to be submitted electronically through GeM portal (https://gem.gov.in/) only.
10.	Contact details for queries related to tender	Shri K Prasath Sr. Engineer / WCM; 0431 257 1573; e-mail: prasath@bhel.in Shri Dineshwar Pahan, Addl. Engineer /WCM 0431-257 4564; e-mail: dineshwar@bhel.in
11.	Contact details for queries related to scope of work	Shri S Madhan Kumar/Manager / Hot Mill Mech Maintenance / SSTP 0431-2575759, EMAIL: madhan@bhel.in (SCHEDULE-1) Shri S Rajesh Kumar/ Manager/ Hot Mill Elec. Maintenance/ SSTP 0431-2578508 EMAIL: rajeshkumar.s@bhel.in (SCHEDULE-2) Shri K V Karthe/Manager / Cold Mill Mech Maintenance / SSTP 0431-2578587 EMAIL: karthe@bhel.in (SCHEDULE-3)
12.	Last Date for Receipt of Tender	21-09-2024 / 15:00 Hrs.
13.	Date of Techno Commercial Bid Opening	21-09-2024 / 15:30 Hrs.
	<u>This two-part e-tender consists of the following:</u> Part – I : Techno-Commercial Bid <ol style="list-style-type: none"> Qualifying criteria for the contract Scope of work, Bill of quantity and technical terms & conditions General terms & conditions of the contract Annexures (A1, A2, A3 & A4 etc.) Part – II: Price Bid format (Price Should Quoted in GeM Portal Only)	

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I. INSTRUCTIONS TO THE TENDERERS

GENERAL INSTRUCTIONS:

1. Tender only to be submitted electronically by logging to GeM portal i.e. <https://gem.gov.in/>. Physical submission of Tender shall not be accepted.
2. Any deviation to this Tender terms & conditions, and schedules of this Tender will lead to total rejection of the offer submitted.
3. The Tender must be signed digitally / physically by Partner/ Director of the Firm or by the person holding the Power of Attorney on behalf of the Firm concerned. In the latter case, a copy of Power of Attorney, duly attested by a Notary Public must accompany the Tender (As per annexure-A3)
4. Words imparting singular number shall be deemed to include plural number and vice-versa where the context so requires.
5. Should a Tenderer's or a Contractor's or in the case of a firm or company of contractors/any of its shareholder's or shareholder's relative is employed in BHEL, the authority inviting the Tenders shall be informed in writing of this fact at the time of submission of the Tender, failing which the Tender may be disqualified, or if such fact subsequently comes to light, the contract may be cancelled.
6. The Tender schedule, and the Tender shall be deemed to form an integral part of the contract to be entered into for this work.
7. Tenderer shall sign the Tender documents for having accepted the conditions and upload in GeM portal.
8. Tender can be cancelled at any stage due to unavoidable circumstances.
9. Kindly ensure that the total size of the scanned documents to be uploaded remains minimum. If required, documents may be scanned at lower resolutions say at 150 dpi. However, it shall be sole responsibility of bidder that the uploaded documents remain legible.
10. **If the contractor back outs after opening of Tender, the contractor is liable for forfeiture of the security deposit/ performance security paid and penal action will be taken as per GeM GTC.**
11. BHEL reserves the right to increase or decrease the Tendered quantity and BHEL does not guarantee ordering of any minimum quantity.
12. Income Tax deduction at source as applicable in the IT Act from time to time will be made on the value of the bills in the absence of Income Tax Exemption Certificate from the concerned IT officer.
13. All the Statutory Obligations such as ESI, PF, Labor Acts, Factories Act, Goods & Services tax (GST), etc. will have to be taken care of by the vendor. BHEL will have no liability on them. Notwithstanding the above, if any demand notice is served by the concerned Statutory Authorities for recovery of any of their dues on BHEL, the same would be paid to the statutory authorities without notice to the vendor and recovered as a due from any pending / future bills.
14. In case contract is not executed by vendor after award and acceptance of contract, BHEL may exercise the right to forfeit EMD, Performance Security / BG of such contractors and also suitable action will be taken by BHEL on those Contractors as deemed fit.
15. BHEL reserves the right to reject the Tender, if it contains any tampering to the Tender documents submitted by the bidder, at any stage.
16. The labors engaged under this contract cannot be deployed in any other work. Violation of this rule will be viewed seriously.
17. BHEL reserves the right to cancel the Tender or reject the lowest or any Tender in full or in part without assigning any reasons whatsoever.
18. In order to ensure compliance to Minimum Wage payment to all workmen entering the BHEL premises, the entry of manpower shall be regulated based on the awarded value and the prevailing minimum wages.
19. Other than the bidder, none of its group concerns or affiliates etc. are participating in the Tender either directly or indirectly through any other agency under same proprietor/ common director(s)/ common partner(s). The bidder should declare the same in the Tender. Even during the course of evaluation /finalization of Tender/ at any stage, if it is found that some of the parties are not fulfilling the above clauses, BHEL will not consider them for further participation in the Tender/ reject such Tender/contract.

IMPORTANT POINTS TO BE TAKEN CARE OF WHILE SUBMITTING OFFER:

- 1) **Should a Tenderer find discrepancies or omissions in the Tender documents or should there any**
Page 2 of 66 Contractor's Sign & Seal

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doubt as to their meaning, he should at once address the authority inviting the Tender, for clarification well before the due date, so as to submit his Tender in time. (No extension of time shall be given for submission of the Tender on any account) Every Endeavour is made to avoid any error which can materially affect the basis of the Tender but the successful Tenderer shall take upon himself to provide for the risk of any error which may be subsequently by discovered and shall make no subsequent claim on account thereof.

- 2) Conditional, unwitnessed, late Tenders, Tenders containing prima-facie absurd rates and amounts, Tenders which are incomplete or otherwise considered defective and Tenders not in accordance with the Tender conditions herein contained and the Tenders not in original ARE LIABLE TO BE REJECTED
- 3) Vendors are advised to get themselves acquainted with the site conditions, the scope / work details before submitting the offer.
- 4) The contractor shall quote only the lowest possible rate, inclusive of all taxes including GST that can be offered for the intended quantity.
- 5) If a Tenderer deliberately gives wrong information in his Tender or creates conditions favourable for the acceptance of his Tender, BHEL will REJECT SUCH TENDER AT ANY STAGE.
- 6) Canvassing in any form in connection with Tenders is strictly prohibited and the Tenders submitted by the Contractors who resort to canvassing will be liable for rejection. The Tender SCHEDULE 1 and the Tender shall be deemed to form an integral part of the Contract to be entered into for this work.
- 7) Late and Delayed Tenders will be summarily rejected and under no circumstances it will be considered and accepted.
- 8) All corrigenda/addenda/amendments/time extensions/clarifications, etc. to the Tender will be hosted on GeM portal, BHEL website only (i.e. <http://www.bhel.com>,) and will not be published in any other media. Bidders should regularly visit above website(s) to keep themselves updated.
- 9) BHEL may reject the bid or in case the contract has been awarded, then terminate the contract apart from taking any other suitable action under the contract or applicable legal provisions or BHEL guidelines including GeM GTC, without any liability for any compensation to the bidder if, BHEL discovers at any time that any statement made by the bidder in the affidavit cum undertaking is false, fraudulent or Any document submitted by the bidder was fake and forged Or If BHEL determines in the sole discretion that any statement was aimed at deliberately misleading BHEL with a view to ensure award of the subject contract to the bidder.
- 10) The contractor shall follow norms of BHEL security system for movement of men & materials within the complex including biometric system.
- 11) The workmen to be deployed by the contractor shall adhere to the safety / security rules and regulations of the Company and any person who is found to be violating the security / safety rules of the company shall be replaced immediately at the cost of the contractor.
- 12) The contractor shall strictly adhere to various labour laws in force.
- 13) The decision of In-charge for this contract shall be final and binding on the contractor regarding clarification of items of works.
- 14) Lowest prices received against BHEL Tenders need not be the technically acceptable one, and in that case, BHEL reserves the right not to consider the same.
- 15) BHEL would negotiate or re-float the Tender opened if L1 price is not the acceptable price to them inter-alia other reasons. Tenderers shall not increase their quoted rates in case BHEL negotiates for reduction of rates. Such negotiation shall not amount to cancellation or withdrawal of the original offer.
- 16) In all matters of disputes, the decision of the General Manager, BHEL, Tiruchirappali-14 shall be final and binding on the Contractor.
- 17) Care should be taken to ensure only correct bid for the corresponding enquiry is placed in appropriate cover super scribing the same, failing which the bid will be liable for rejection.
- 18) No bidder shall be allowed to use any electronic gadgets viz., mobile phones, tablets etc during Tender opening/ or at any other meeting with BHEL for the purpose of this Tender, which if found would be liable for rejection of their bid.
- 19) The rate offered shall provide for the complete cost towards labour, supervision, profits & overheads, and all other incidentals inclusive of applicable GST (As per BOQ), GST will be reimbursed on production of valid documentary proof for having paid the GST.

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- 20) The works contract to be entered into with the successful Tenderer will be governed by BHEL General Conditions of Contract in force.
- 21) The Tenderer shall carry out health performance test at his cost for all the workmen engaged in the work through a registered medical practitioner and produce certificate on demand.
- 22) The contractor has to make his own arrangements to provide refreshment for the workmen deployed by him.
- 23) If any of the workers employed by the contractor is found to indulge in acts subversive of discipline, the same will be brought to the knowledge of the contractor and he shall arrange for replacement of such personnel.
- 24) Contractor/Authorized representative must be present at site to supervise the activities on day-to-day basis and for giving necessary instructions regarding the work to be carried out.
- 25) Statement of completed works with detailed certified shall be submitted by the contractor in the last week of every month for processing their bill.
- 26) Works shall be carried out as per relevant IS standards and rules adhering to necessary safety precautions.
- 27) The contractor should extend fullest co-operation with the third party agencies engaged, if any by BHEL to adhere the Quality Control Procedures ensuring quality.
- 28) GST will be charged on the forfeited SD amount from the bidder at the applicable rates. GST tax Invoice will be issued to the vendor on receipt/recovery of GST amount from the vendor.
- 29) In case of opening day falls on holiday or happened to be declared as a holiday, opening of the Tender shall automatically fall on the same timing of the next working day.
- 30) Expenses incurred by bidder towards preparation of bid incidental to Tender irrespective of whether it is accepted or not, shall be borne by vendor only.
- 31) The offers of the Tenderer / bidders who are on the banned / Hold / Under Interim Suspension list and also the offer of the bidders, who engage the services of the banned Hold / Under Interim Suspension firms, shall be rejected. The list of banned Hold / Under Interim Suspension firms is available on BHEL web site (www.bhel.com → Tender Notification → List of Banned Firms).
- 32) **The Parties who have been suspended or black listed or under interim suspension by BHEL Trichy-14 or any other BHEL Unit will not be allowed to participate in the Tender and the bidder should declare the same in the Tender. Even during the course of evaluation / finalization of Tender if it is found that some of the parties are black listed / barred from business transactions / under business hold, BHEL will not consider them for further participation in the Tender.**
- 33) Similarly, the offers of the bidders who are black listed or under interim suspension or suspended (under hold/ delist) for business dealings by BHEL shall not be considered. Please note that **their name will be removed from the list of debarred firms across BHEL** after expiry of specified suspension period as per the lifting/ restoration of suspension (Ban/Hold/ De-list) of business dealing. **Wherever suspension is lifted, a communication to this effect will be given by the concerned units to the concerned suppliers/ contractors.**
- 34) The contractor should extend full co-operation to the other contractors who may be doing other works in the same areas to enable them to execute their portions of work without any delay or difficulty.
- 35) BHEL, at its discretion, may extend the duration of contract, beyond initial contract duration, on mutual consent.
- 36) Contractor has to ensure that the employees deployed in the premises of BHEL are physically and mentally fit and do not have any criminal record. Such employees should possess requisite skill, experience etc. acceptable to concerned department.
- 37) Contractors are advised that contract labours must be employed without any discrimination on caste or creed or religion or gender basis.
- 38) **The contractor shall submit police verification certificate in respect of the persons, engaged for first time by the contractor, for delivering services.**
- 39) The contractor by submitting the Tender undertakes that, they had never been found guilty by a court of law in India for any offence in involving fraud, dishonesty and moral turpitude. If at a later date, if it comes to the notice of BHEL about any such occurrences on the subject bidder, BHEL will have every right to reject the offer of such vendors at any point of time.
- 40) The Contractor shall ensure that his workmen movement is restricted to their relevant work areas only &

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shall vacate the premises after the shift is over.

- 41) If a Tender provides relaxation for vendors, and if a vendor fails to submit supporting documents, they will be treated at par with other vendors or their bid would be liable for rejection, whichever as the case may be.
- 42) In order to avoid unforeseen delay, it is advised that, any correspondence by vendor to BHEL shall be emailed to all the addressees instead of one individual, as mentioned in Tender. The correspondence through email wherever sought by BHEL shall be replied with all the addressees in 'cc' of the mail. Vendor shall furnish valid email id's in the Tender and regularly verify the same.
- 43) The Tenderer/Bidder or any of his authorized personnel or agents will be granted permission by the BHEL to enter upon its premises and lands for the purpose of site visit. However, the bidder shall undertake that he, his personnel, and agents will be responsible against all liability in respect thereof, including death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.
- 44) In general, Bidders shall themselves obtain all necessary information. A Bidder shall be deemed to have full knowledge of the Site, whether he inspects it or not and no extra claims due to any misunderstanding or otherwise shall be allowed. The cost of visiting the Site shall be at the Bidders' own expense.
- 45) The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.

46) Signing the Tender:

- Authorized signatory should have Power of Autonomy issued by MD or Board of Directors or authorized person for this purpose for quoting Tender and all procedures connected with, till finalization and execution of the Contract.
- The Tender shall be signed by the Authorized Signatory Only. Authorized signatory shall be the person holding 'power of attorney' on behalf of the firm / company / bidder-concerned authorized / empowered to act on behalf for the specific purpose.
- In case the Bidder is a Partnership Firm under Partnership Act, the Tender shall be signed by all the Partners of the firm or by the Managing Partner who have Signature and Seal of the Contractor authorized to do so or by a person holding the Power of Attorney on behalf of the Partnership Firm.
- A copy of the Partnership Deed and / or a copy of the Power of Attorney, Self-attested shall accompany the Proprietor or Partner of the Company.
- BHEL will not be bound by any other Power of Attorney granted or the change in the composition of the firm made, subsequent to the execution of the Contract agreement. They may however recognize such Power of Attorney or change in status after obtaining legal advice and the cost involved in that connection shall be chargeable to the bidder concerned.

If Tenderer expires after the submission of his Tender or after the acceptance of his Tender the BHEL may, at their discretion, cancels such Tender. If a partner of a firm expires after submission of Tender or after the acceptance of the Tender, BHEL may cancel such Tender at their discretion unless the firm retain its character. The works executed in the own name of the Tenderer only will be considered for eligibility criteria.

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PART – I (B)

TECHNO-COMMERCIAL BID

QUALIFYING CRITERIA FOR THE CONTRACT

Sl. No.	Qualifying Criteria	DETAILS
A	<p><u>Status of the company:</u></p> <ul style="list-style-type: none"> • Proprietorship: PAN card on owner name • For partnership firms: PAN card and PARTNERSHIP DEED • For others: PAN card in the name of company / firm / business and CERTIFICATE OF INCORPORATION / MOA and AOA. • GST Certificate (If applicable) <p>MSE Vendor – Proof as per tender condition (If applicable)</p>	Copy to be uploaded in GeM portal
B	<p><u>Income Tax Registration (PAN)</u> (Copy of PAN to be uploaded)</p>	<p>Details to be filled and documentary evidence to be uploaded in GeM portal</p>
C	<p><u>GST Regn. No.</u> (Copy of GST to be uploaded) Declaration to be attached if Vendor is Exempted from paying GST. For such exempted vendor, Vendor cannot claim GST from BHEL, during the execution of the contract (if awarded) even if their status under GST changes to regular taxpayer).</p> <hr/> <p>% OF GST APPLICABLE TO THE VENDOR FOR THIS WORK (In case of GST exempted vendor they can put NIL)</p>	
D	<p>Bidders have to mandatorily visit plant to understand the detailed scope & nature of work, before quoting and submit site visit certificate (Annexure-A5).</p> <p>Offer submitted without site visit certificate will be summarily rejected</p>	Copy to be uploaded in GeM portal
E	<p><u>Acceptance to Scope of work and General Terms and conditions of Contract.</u> (Duly signed and sealed copy of Tender Document to be uploaded)</p>	Copy to be uploaded in GeM portal
F	<p><u>“No deviation & Declaration certificate”</u> on bidder’s Letter head as per enclosed Annexure-A1 of tender document (Duly signed and sealed copy to be uploaded)</p>	Copy to be uploaded in GeM portal

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G	WORK EXPERIENCE: The bidder shall have previous experience in executing “Electrical/Mechanical Maintenance works in Industrial Production area” or “Works similar in nature of Scope of work” in any Central/State Govt. organization/PSU company/Public listed company during last 8 (eight) Financial years (2016-17, 2017-18, 2018-19, 2019-20, 2020-21, 2021-22, 2022-23 & 2023-24) in any of the following ways. Experience involving maintenance works in non-industrial production areas will not be considered. (Experience proof from BHEL shall contain work order copies and experience proof from other than BHEL shall contain work order / Documentary evidence (WO /Agreement/ Completion certificate) Above experience other than BHEL to be supported by TDS (Tax Deducted at Source) certificate issued by the organization OR Form 26 AS OR Bank statement for transaction of payment.)	WORK order value	<u>SCHEDULE-1: SERVICE CONTRACT FOR MECHANICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL / SSTP BHEL- TRICHY</u>	<u>SCHEDULE-2: SERVICE CONTRACT FOR ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLD MILL /SSTP BHEL- TRICHY</u>	<u>SCHEDULE-3 SERVICE CONTRACT FOR MECHANICAL MAINTENANCE SUPPORT SERVICES IN COLD MILL/SSTP BHEL- TRICHY</u>	Copy to be uploaded in GeM portal
		Three Similar Work (or)	7.9 Lakhs	7.8 Lakhs	4.5 Lakhs	
		Two Similar Work (or)	12.7 Lakhs	12.5 Lakhs	7.26 Lakhs	
		One Similar Work	19.0 Lakhs	18.8 Lakhs	10.8 Lakhs	
H	FINANCIAL SOUNDNESS: Average Annual financial turnover for any of the three consecutive years during the last six financial years i.e. 2017-18, 2018-19, 2019-20, 2020-21, 2021-22 & 2022-23 shall be equal to or more than the tabulated schedule: - Documents to Prove Financial Soundness of the Firm (in any of the following manner given below) for any three consecutive years out of six years i.e. Self-attested copy of Income Tax Submission Acknowledgment (SARAL), Audited Profit & Loss account and Balance Sheet indicating CA membership number for above mentioned Financial Years. OR Auditor’s certificate (with CA membership no. / UDIN) for consolidated minimum average annual turnover (as given above) should be enclosed	Average Annual Turnover	9.5 Lakhs	9.4 Lakhs	5.40lakhs	Copy to be uploaded in GeM portal
Qualifying value for Turnover/ Work experience of vendors opting to quote for multiple Schedules will be maximum algebraic sum of Turnover/ Work experience values corresponding to schedule for which vendor opts to quote.						
Note: 1. Bidders are requested to submit only the documents required to meet the pre-qualification criteria as per tender. Documents not relevant to tender pre-qualification criteria / tender shall not be enclosed along with the offer. 2. Digitally signed/ Self-attested copy of all the documents should be uploaded along with Tender. 3. At any stage, BHEL may ask for original documents and contractor has to submit the same. copy of all the documents should be uploaded along with Tender, if at any stage, the document(s) submitted by Contractor is / are found incorrect / false / fake, then necessary action will be taken by BHEL against Contractor viz., legal, Contractual, GeM Policy / Procedural Actions in whatsoever manner as deemed fit.						

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CONTRACTUAL CONDITIONS:-

1. CRITERIA FOR AWARD OF WORK (GeM Bid Method)

TWO PART BID :

After tender opening Technical bid only evaluated, price bid will be opened for technical qualified bidder only. If more than one bidder quoted the same Price (Multiple L1), then the L1, L2&. will be decided by MS Excel random number generation method. (GeM random selection method will also be used if required) All eligible bidders will be informed through email for witnessing the random number generation. Non-MSE bidder and MSE purchase preference non-selecting bidder in GeM portal will be excluded from Random number generation. MSE BENEFITS: Applicable as per GeM GTC

MSE bidders if not opted for MSE Purchase preference in GeM Portal will be consider as NON MSE bidder only. It is the responsibility of the bidder to ensure MSE purchase preference while submitting their bid.

2. BENEFITS TO STARTUPS: Start-up companies will be exempted as per government norms. In terms of work Experience & Turnover, such vendors need to meet atleast 50% of financial turnover & atleast 50% of similar experience on eligibility criteria in the tender

3. SPLITTING:

No splitting for the Schedules in this Contract.

• **SCHEDULE-1: SERVICE CONTRACT FOR MECHANICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL / SSTP BHEL- TRICHY**

or

• **SCHEDULE-2: SERVICE CONTRACT FOR ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLD MILL /SSTP BHEL- TRICHY**

or

• **SCHEDULE-3: SERVICE CONTRACT FOR MECHANICAL MAINTENANCE SUPPORT SERVICES IN COLD MILL/SSTP BHEL- TRICHY** will be awarded to L1 separately for that respective schedule. (schedule wise evaluation)

4. REVERSE AUCTION:

NO.

5. Part – II: Price Bid:

Price to be quoted in GeM portal only. Quoted value should be inclusive of GST i.e., Quoted Value = Rate + GST amount

* Please quote the value with GST amount.

6. Period of Contract:

The successful bidder/s will be awarded contract for period of one year (**12 months**). BHEL may extend at its discretion the period of contract for a further period on the same terms and conditions mutually agreed upon.

7. CONTRACT BILL PAYMENT TERMS:

7.1 Payment will be made after completion of work on pro-rata basis based on actual work executed as per BOQ after acceptance and certification of Area in charge (BHEL Executive). Payment shall be made as follows on submission of bill complete in all respect.

- I. 90 days on issue of CRAC / SDA for Non MSME,
- II. 60 days on issue of CRAC / SDA for Medium (UDYAM Certificate to be submitted),
- III. 45 days on issue of CRAC / SDA for MSE (for Micro and Small enterprises only- UDYAM Certificate to be submitted).

If UDYAM Certificate not submitted substantiating the same, payment will be processed in Non MSME basis.

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- 7.2 The Contractor should submit the bill within a week after at the end of each month in triplicate copies detailing the various items of work done during the month supported by the requisitions issued from time to time. The Contractor shall, once in every month, submit to the respective area HOD separately details of their claims for the work done by them up to and including the previous. He should in addition furnish a clear certificate to the effect that the claims submitted by him as aforesaid cover all his claims and that no further claims shall be raised by him in respect of the work done up to and including the period under report. Payment will be at the sole discretion of BHEL.
- 7.3 Along with bills, Contractors has to furnish copy of the following documents for further processing of bills:
- a) Copy of payment challan of previous Month / Quarter as proof of deposit of GST along with a certificate from the Contractor that GST collected from BHEL has been remitted to tax authorities
 - b) Bills should be submitted along with all necessary documents, challans for ESI /PF and returns etc. as applicable under contractor's statutory liability and this contract.
 - c) Any other relevant document which is required from time to time as per BHEL requirement.
- 7.4 If the Contractor is not registered for any statutory obligation and not liable thereto, then a declaration should be submitted along with offer that they are within the threshold limit.
- 7.5 No advance may be paid for operational or any other expenses.
- 7.6 Goods and Services tax will be payable extra by BHEL at prevailing rates and corresponding TDS will be made as per Government norms.
- 7.7 Bills for every month shall be prepared by the Contractor on the basis of actual services provided with at least minimum numbers of manpower as specified by BHEL and submitted to Engineer incharge for verification. Payments will be effected on actual basis after certification by the Engineer incharge. All the bills of contractors will be cleared by Finance Department subject to production of "Clearance Certificate" by the contractors in respect of compliance of all statutory requirement, issued by the Contract Cell of Human Resources Management.

8. LIQUIDATED DAMAGES (LD)/PENALTY:

- 8.1 Any complaint/work received from the Engineer in-Charge shall be commenced within 24 hours from the date of receipt of complaint / work failing which a penalty of Rs 200 per day will be levied for every day of delay in commencing the work subject to maximum of 10% of total order value.
- 8.2 If the contractor fails to complete any work within a reasonable time as determined by the Engineer-in-Charge, the Engineer-in-Charge may complete the work by engaging an alternate agency or through any other means. In such cases, excess expenditure if any incurred by BHEL plus administrative charges of 10% of the work value of the undelivered portion for the respective schedule / Items will be deducted from the amount due to the contractor or any part thereof, subject to a maximum deduction of 10% of the total order value. The decision of the Engineer in-Charge shall be final in deciding the time required for completing any complaint / work.
- 8.3 The contractor shall commence services in accordance with the time schedule specified or within 07 days of the LOI, whichever is earlier. Failure to start services by the stipulated date shall entitle BHEL to recover liquidated damages equivalent to the costs incurred for making alternative arrangements, plus a penalty of Rs. 1000/- per day of delay. If services are not commenced within 15 days of the LOI, this shall be considered a breach of contract, and BHEL may take appropriate action as per tender conditions, including cancellation of the work order.
- 8.4 Cancellation of the work order shall be at the risk and responsibility of the contractor and BHEL reserves the right to award the work to the alternate sources and this shall be considered a breach of contract.
- 8.5 The penalty will be restricted to 10% of the contract value In case of any change of order value, penalty shall be subject to a maximum of 10% of the revised order value.

9. BONUS CLAUSE : Not Applicable.

10. PRICE VARIATION CLAUSE (PVC) : Not Applicable (The rate quoted is firm throughout the currency of the contract)

11. OVER RUN COMPENSATION (ORC) : Not Applicable

NAME OF WORK: SERVICE CONTRACT FOR MECHANICAL, ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLDMILL SSTP BHEL- TRICHY

Enquiry No: 9472400081/ 11-09-2024 - GEM/2024/B/5349040

SCOPE OF WORK, BILL OF QUANTITY AND TECHNICAL TERMS & CONDITIONS:

1. BILL OF QUANTITIES (BOQ):

SCHEDULE-1: MECHANICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL BHEL- TRICHY

SL No	Item Description	Unit	Qty
SERVICE: 1	Major Maintenance activities in work centers RHF to Cold Saw in Hotmill		
Service item. 10	RHF Charging/ Discharging Boom Assy. Replacement	No.	13
Service item.20	RHF Charging/ Discharging Torque Replacement	No.	5
Service item.30	RHF Charging/ Discharging Lifiting Cylinder Replacement	No.	6
Service item.40	RHF Charging/ Discharging back trolley replacement	No.	5
Service item.50	MTB Rope changing	No.	6
Service item.60	MTB pulley dismantling and reassembly for Mtce work	No.	6
Service item.70	CPE Roll change	No.	19
Service item. 80	Changing push bench wear strip	No.	46
Service item. 90	Reeler Gearbox changing with 2 UJ shaft removal and re-assy.	No.	13
Service item. 100	SRM Drive shaft replacement with UJ shaft	No.	86
Service item. 110	SRM gear coupling replacement,replacing damaged fasteners	No.	126
Service item. 120	SRM stand cooling water coupling replacement	No.	66
Service item. 130	SRM exit rc group removal,servicing of damaged rollers and assy	No.	6
Service item. 140	HPWS replacement of NRV	No.	13
Service item. 150	WBF lifting cylinder replacement	No.	6
Service item. 160	WBF traverse cylinder replacement	No.	13
Service item. 170	WBF Lifting lever and tie rod connecting pin replacement	No.	6
Service item. 180	Cold saw carriage replacement	No.	6
Service item. 190	Hanging Gearbox replacement	No.	6
Service item. 200	Pinch Roll Chain unit replacement	No.	6
Service item. 210	TRG unit replacement	No.	6
Service item. 220	Transport Roll unit Replacement	No.	6
Service item. 230	Crane rope changing	No.	19
Service item. 240	SRM Floating shaft changing	No.	66
Service item. 250	SRM Gearbox changing	No.	6

NAME OF WORK: SERVICE CONTRACT FOR MECHANICAL, ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLDMILL SSTP BHEL- TRICHY

Enquiry No: 9472400081/ 11-09-2024 - GEM/2024/B/5349040

SERVICE: 2	Servicing & Overhauling of Roller Conveyors and Gear boxes in Hotmill		
Service item. 10	Pinch Roll servicing	No.	6
Service item.20	Roller conveyor billet saw to CPE Inlet and alignment conveyor	No.	94
Service item.30	Roller conveyor push bench exit to heating grid and PRC	No.	146
Service item.40	Roller conveyor WBF exit to Cooling bed exit	No.	43
Service item.50	Roller conveyor cold saw	No.	13
Service item.60	TRG Servicing	No.	13
Service item.70	Transport roll servicing	No.	6
Service item. 80	Gear box small servicing	No.	94
Service item. 90	Gear box big servicing	No.	43
Service item. 100	Reeler Gearbox servicing	No.	6
Service item. 110	Hydraulic cylinder servicing	No.	43
Service item. 120	Pneumatic cylinder servicing	No.	43
Service item. 130	UJ shaft servicing	No.	43
Service item. 140	CRT/DRT servicing	No.	43
Service item. 150	Servicing RHF combustion blower	No.	6
Service item. 160	servicing RHF atomising blower	No.	6
Service item. 170	servicing RHF nose cooling blower	No.	6
Service item. 180	servicing RDF Combustion blower	No.	6
Service item. 190	servicing WBF combustion blower	No.	6
Service item. 200	Servicing WBF atomising blower	No.	6
Service item. 210	Servicing SRM ventillation blower	No.	6
Service item. 220	Servicing WBF ID fan	No.	6
Service item. 230	RHF support roller/ centering roller servicing	No.	138
Service item. 240	SRM drive shaft servicing	No.	43
Service item. 250	Gear pump servicing	No.	28
Service item. 260	Hydraulic pump servicing	No.	28
Service item. 270	Scale pit pump servicing	No.	13
SERVICE: 3	Maintenance Support Service Works in Hotmill		
Service item. 10	All kinds of Fasteners Tightening / Replacement	No.	60,059
Service item.20	Tightening / Replacement of Foundation Bolts of mounting base frames M36 & above	No.	162
Service item.30	Mass Tightening / Replacement of Bolts on Structures, cross bars etc. (MBHG bolts Cooling Bed bolts, Railing facility bolts etc.)	No.	805

NAME OF WORK: SERVICE CONTRACT FOR MECHANICAL, ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLDMILL SSTP BHEL- TRICHY

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Service item.40	RC foundation bolt locking with castle nut & split pin (Setting, Marking, Removing, drilling, Debarring, Fixing & Locking with split pin)	No.	162
Service item.50	Replacement of Serviced roller assembly (Dismantling, Erection, Alignment, Area cleaning, Movement of Roller from and to Hot mill reconditioning area)	No.	162
Service item.60	RC Coupling insert changing without disturbing gear box	No.	61
Service item.70	RC Coupling insert changing by disturbing gear box	No.	27
Service item. 80	Alignment of idle roller (including alignment respect to adjacent rollers & angle correction in case of swivel base roller)	No.	27
Service item. 90	Alignment of driven roller (including alignment with respect to adjacent rollers & angle correction in case of swivel base roller)	No.	61
Service item. 100	Gear box changing including coupling half of geared motor unit	No.	162
Service item. 110	Motor changing in geared motor unit	No.	38
Service item. 120	Changing of geared motor unit along with coupling half including oil topping	No.	38
Service item. 130	Changing of coupling half in RC Motor	No.	38
Service item. 140	Changing of coupling set in RC motor	No.	80
Service item. 150	Providing Arresting pieces in roller bearing blocks (Preparation & Welding)	No.	80
Service item. 160	Servicing & Replacement of valves in Hot mill furnaces up to 2 ½" NB	No.	4
Service item. 170	Servicing & Replacement of valves in Hot mill furnaces above 2 ½" NB up to 6" NB	No.	4
Service item. 180	Servicing & Replacement of valves in Hot mill furnaces above 6" NB up to 10" NB	No.	4
Service item. 190	Servicing & Replacement of valve in Hot mill furnaces above 10" NB up to 16"NB	No.	23
Service item. 200	Servicing & Replacement of valves in Hot mill furnaces above 16" NB up to 22" NB	No.	4
Service item. 210	Servicing & Replacement of Burner in Hot mill furnaces	No.	9
Service item. 220	Replacement of Burner in Hot mill furnaces	No.	9
Service item. 230	RHF: Replacement of Centering roller Assy.	No.	9
Service item. 240	RHF: Adjustment of Centering roller Assy.	No.	9
Service item. 250	RHF: Dimension checking of Centering roller Assy.(Eight roller assemblies dimensions to be checked at time)	No.	19
Service item. 260	RHF: Replacement & Tack welding of Hearth shim	No.	28
Service item. 270	RHF: Positioning & Tack welding of Hearth shim	No.	28
Service item. 280	RHF: Dismantling of Hearth rack segment	No.	4
Service item. 290	RHF: Replacement of Hearth rack segment	No.	4
Service item. 300	RHF: Replacement of SS sputs (Pin) in charging./discharging. M/c	No.	9
Service item. 310	RHF: Replacement of Rack segment (with corner piece welding) in charging M/c	No.	9
Service item. 320	RHF: Alignment of Pinion in charging./discharging. M/c	No.	4
Service item. 330	RHF: Water leakage arresting by welding in (front portion with SS rod) charging/discharging. M/c.	No.	4
Service item. 340	RHF: Water hose changing in charging./discharging. M/c below 3Ms. Long	No.	23

NAME OF WORK: SERVICE CONTRACT FOR MECHANICAL, ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLDMILL SSTP BHEL- TRICHY

Enquiry No: 9472400081/ 11-09-2024 - GEM/2024/B/5349040

Service item. 350	RHF: Water hose changing in charging./discharging. M/c above 3Ms. Long	No.	23
Service item. 360	RHF: Fuel oil hose changing in Inner zone.	No.	28
Service item. 370	RHF: Fuel oil hose changing in outer zone.	No.	28
Service item. 380	RHF: Replacement of serviced supporting roller assy.	No.	4
Service item. 390	De-scalar: Replacement of Nozzle	No.	19
Service item. 400	RDF: Alignment / Replacement of Sprocket in charging discharging roller assy.	No.	4
Service item. 410	RDF: Changing of full chain for the above	No.	4
Service item. 420	RHF: Changing Pneumatic cylinder Pin in heating area	No.	4
SERVICE: 4	Maintenance of Water Trough and Dipper Casting in RHF		
Service item. 10	Replacement of inner and outer water trough	No.	319
Service item.20	Replacement of inner and outer kerb casting	No.	354
Service item.30	Replacement of inner and outer dipper plates	No.	566
Service item.40	Flushing of trough water pipe lines	No.	8
SERVICE: 5	Pipeline Works for Hydraulic, Lubrication, Fuel, Water and Pneumatic air		
Service item. 10	PIPING/metre for NB 6 to 30 LP	M	2,923
Service item.20	SMOOTH/SECTION BEND 30/45/90 for NB 6 to 30 LP	No.	1,218
Service item.30	WELDING of PIPE JOINT/TEE/WELD ON NIPPLE of NB 6 to 30 LP	No.	1,705
Service item.40	Screwed/valve fitting/ready made clamp of NB 6 to 30 LP	No.	1,461
Service item.50	PIPING/metre for NB 40 to 80 LP	M	6,747
Service item.60	SMOOTH/SECTION BEND 30/45/90 for NB 40 to 80 LP	No.	2,265
Service item.70	WELDING of PIPE JOINT/TEE/WELD ON NIPPLE of NB 40 to 80 LP	No.	1,437
2547Service item. 180	Screwed/valve fitting/ready made clamp of NB 40 to 80 LP	No.	2,547
Service item. 90	PIPING/metre for NB 100 to 150 LP	M	1,456
Service item. 100	SMOOTH/SECTION BEND 30/45/90 for NB 100 to 150 LP	No.	609
Service item. 110	WELDING of PIPE JOINT/TEE/WELD ON NIPPLE of NB 100 to 150 LP	No.	330
Service item. 120	Screwed/valve fitting/ready made clamp of NB 100 to 150 LP	No.	842
Service item. 130	Flange joint of NB 100 to 150 LP	M	203
Service item. 140	PIPING/metre for NB 200 to 400 LP	No.	9
Service item. 150	SMOOTH/SECTION BEND 30/45/90 for NB 200 to 400 LP	No.	9
Service item. 160	WELDING of PIPE JOINT/TEE/WELD ON NIPPLE of NB 200 to 400 LP	No.	9
Service item. 170	Flange joint of NB 200 to 400 LP	No.	9
Service item. 180	PIPING/metre for NB 6 to 30 HP	M	1,461
Service item. 190	SMOOTH/SECTION BEND 30/45/90 for NB 6 to 30 HP	No.	574

NAME OF WORK: SERVICE CONTRACT FOR MECHANICAL, ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLDMILL SSTP BHEL- TRICHY

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Service item. 200	WELDING of PIPE JOINT/TEE/WELD ON NIPPLE of NB 6 to 30 HP	No.	813
Service item. 210	Screwed/valve fitting/ready made clamp of NB 6 to 30 HP	No.	379
Service item. 220	PIPING/metre for NB 40 to 80 HP	M	1,636
Service item. 230	SMOOTH/SECTION BEND 30/45/90 for NB 40 to 80 HP	No.	613
Service item. 240	WELDING of PIPE JOINT/TEE/WELD ON NIPPLE of NB 40 to 80 HP	No.	905
Service item. 250	PIPING/metre for NB 100 to 150 HP	M	9
Service item. 260	SMOOTH/SECTION BEND 30/45/90 for NB 100 to 150 HP	No.	9
Service item. 270	Dismantling of pipe line NB 40 TO 80 LP	M	4,988
Service item. 280	Colour painting per coat for NB 40 to 80 LP(paint will be supplied by sstp)	No.	4,988
SERVICE: 6	General Fabrication Works		
Service item. 10	Fabrication of items in various sizes of steel plates, sections etc, as per drawing requirement & instruction.	Kg	168,605
Service item.20	Erection of components as per site requirement & instruction.	Kg	85,781
Service item.30	Dismantling & removal of existing components for replacement of newer / serviced parts.	Kg	85,782

SCHEDULE-2: ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLD MILL /SSTP BHEL- TRICHY

SERVICE: 1	Checking of Sensors & Electrical Installations		
SL No	Item Description	Unit	Qty
Service item. 10	Cleaning and checking of Limit switches	No.	2797
Service item.20	Replacing Limit switches by disconnection & reconnection	No.	63
Service item.30	Removing Limit switch cables by disconnection & removal. (Apprx. 15 Mtr. Cable)	No.	63
Service item.40	Relaying / Laying Limit switch cables and reconnection. (Apprx. 15 Mtr. Cable)	No.	63
Service item.50	Cleaning and checking of Proximity Switches.	No.	6219
Service item.60	Replacing Proximity Switch by disconnection & reconnection	No.	122
Service item.70	Removing Proximity Switch cables by disconnection & removal.	No.	122
Service item. 80	Relaying / Laying Proximity Switch cables and reconnection.	No.	122
Service item. 90	Cleaning and checking of Hot Metal Detectors (HMD).	No.	1945
Service item. 100	Replacing HMDs by disconnection & reconnection	No.	45
Service item. 110	Removing HMD cables by disconnection & removal.	No.	45
Service item. 120	Relaying / Laying HMD cables and reconnection	No.	45

NAME OF WORK: SERVICE CONTRACT FOR MECHANICAL, ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLDMILL SSTP BHEL- TRICHY

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Service item. 130	Cleaning and checking of Light Barrier.	No.	2797
Service item. 140	Replacing Light Barrier by disconnection & reconnection	No.	10
Service item. 150	Removing Light Barrier cables by disconnection & removal	No.	10
Service item. 160	Relaying / Laying Light Barrier cables and reconnection.	No.	10
Service item. 170	Cleaning and checking of Encoders.	No.	2797
Service item. 180	Replacing Encoder by disconnection & reconnection	No.	71
Service item. 190	Removing Encoder cables by disconnection & removal.	No.	71
Service item. 200	Relaying / Laying Encoder cables and reconnection.	No.	71
Service item. 210	Cleaning and checking of Flow switches.	No.	2797
Service item. 220	Replacing Flow switch by disconnection & reconnection	No.	63
Service item. 230	Removing Flow switch cables by disconnection & removal.	No.	63
Service item. 240	Relaying / Laying Flow switch cables and reconnection	No.	63
Service item. 250	Cleaning and checking of Pressure switches.	No.	3111
Service item. 260	Replacing Pressure switch by disconnection & reconnection	No.	71
Service item. 270	Removing Pressure switch cables by disconnection & removal.	No.	71
Service item. 280	Relaying / Laying Pressure switch cables and reconnection	No.	71
Service item. 290	Giving connection to three phase RC motors	No.	357
Service item. 300	Disconnection of three phase RC motors	No.	357
Service item. 310	Giving connection to Fans, Man coolers, exhaust fans	No.	22
Service item. 320	Disconnection of Fans, Man coolers, exhaust fans	No.	22
Service item. 330	Giving connection to the welding machines	No.	22
Service item. 340	Disconnection of welding machines	No.	22
Service item. 350	Giving connection to single phase pump motors	No.	22
Service item. 360	Disconnection of single phase pump motors	No.	22
Service item. 370	Providing temporary lighting (flood lights)	No.	71
Service item. 380	Disconnecting temporary lighting (flood lights)	No.	71
Service item. 390	Replacing single phase power points at shop bay columns by disconnection & reconnection	No.	71

NAME OF WORK: SERVICE CONTRACT FOR MECHANICAL, ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLDMILL SSTP BHEL- TRICHY

Enquiry No: 9472400081/ 11-09-2024 - GEM/2024/B/5349040

Service item. 400	Replacing 3 phase power points at shop bay columns by disconnection & reconnection	No.	71
Service item. 410	Replacing intercom phones at work stations by disconnection & reconnection	No.	71
SERVICE: 2	Lighting Works		
Service item. 10	Baylight 400W assembling and testing	No.	526
Service item.20	Flood light 250W assembling and testing	No.	261
Service item.30	Installation of bay light (400W)	No.	526
Service item.40	Installation of flood light (250W)	No.	261
Service item.50	Instalation of 36W tube light	No.	1322
Service item.60	Installation of ceiling /cabin/wall mount fan	No.	261
Service item.70	Switch boxes assembling	No.	119
Service item. 80	Installation of 8 way distribution box	No.	54
Service item. 90	Installation of 16 way distribution box	No.	11
Service item. 100	Conduit piping and wiring (mtrs)	M.	7942

SCHEDULE-3 MECHANICAL MAINTENANCE SUPPORT SERVICES IN COLD MILL/SSTP BHEL- TRICHY

SERVICE: 1	LT Wheel Assembly maintenance in Cranes		
Service item. 10	Crane wheel changing dia 630 mm In electrically overhead travelling cranes: Removal of worn-out longitudinal travel wheel , fixing and alignment with respect to verticality & inline with the adjacent wheel of longitudinal travel -both at drive and non-drive sides.	No.	16
Service item. 20	Crane wheel changing dia 500 mm In electrically overhead travelling cranes: Removal of worn-out longitudinal travel wheel , fixing and alignment with respect to verticality & inline with the adjacent wheel of new longitudinal travel – both at drive and non-drive sides.	No.	49
Service item. 30	Crane wheel changing dia 250 mm In electrically overhead travelling cranes: Removal of worn-out longitudinal travel wheel , fixing and alignment with respect to verticality & inline with the adjacent wheel of new longitudinal travel – both at drive and non-drive sides.	No.	7
SERVICE: 2	Maintenance of Radiant Tubes in Coldmill Furnaces		
Service item. 10	Radiant tube replacing in both furnaces Replacement of radiant tube in 5T & 7.5 T furnaces includes; removal of recuperator line, combustion air line, removal of radiant tube, support channels, hanger rods, repair work at the top portion of the radiant tube mounting location inside the furnace and refixing them in the same sequence	No.	137
Service item.20	Replacing of damaged H.rod & channels in In 5T.furnace . Replacement of damaged hanger rods and support channels with new. One set consists of 1 no support channel & 3 nos hanger rods	SET.	61

NAME OF WORK: SERVICE CONTRACT FOR MECHANICAL, ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLDMILL SSTP BHEL- TRICHY

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Service item.30	Replacing of damaged H.Rods & channels I In 7.5T furnace replacement of damaged hanger rods and support channels with new	SET.	61
Service item.40	Heating zone roller replacing in 5TF Replacement of heating zone rollers in 5T furnace includes; removal of drive sprocket, both side bearing housing and removal of damaged rollers. Inserting new rollers, cleaning, servicing and mounting the bearing housing and fixing the drive sprocket.	No.	33
Service item.50	Heating zone roller replacing in 7.5TF Replacement of heating zone rollers in 7.5 T furnace includes:Removal of drive sprocket, both side bearing housing and removal of damaged roller. Inserting new rollers, cleaning, servicing and mounting of both side bearing housing and fixing the drive sprocket	No.	54
Service item.60	Radiant tube puncture checking in 7.5TF Radiant tube puncture checking by compressed air filling after dismantling recuperator once in 3 months - 4times/year-30 Nos.radiant tubes for 7.5 T furnace.	No.	68
Service item.70	Radiant tube puncture checking in 5TF In 5T. furnace all radiant tubes to be checked for crack or puncture by filling compressed air at 5Kg/Sq.Cm. after dismantling recuperator and burner, once in 3 months-4 times per year; radiant tube-20 Nos. (4X20=80 Times).	No.	68
Service item. 80	Stuck up tubes removal in both furnaces. In both furnaces struck up tube removal by gas cutting 1 to 10 Nos. with removal of radiant tubes (2Nos. max.) and cooling tube bundles (4 Nos. max.) other than Sl.No.1, & Sl.No. 8, and re-fixing the radiant tube-6 times /year.	No.	70
Service item. 90	Deflector plate welding 1 m length	No.	40
Service item. 100	Cooling tube bundle replacing in both furnaces	No.	40
Service item. 110	REPAIRING OF FURNACE RADIANT TUBER EPAIRING OF FURNACE PUNTURED RADIANT TUBE WORK	No.	26
SERVICE: 3	Maintenance Support Service Works in Coldmill		
Service item. 10	Cleaning and preparation of Boiler T 4463 forhydro testing, by Boiler Inspectorate. Re-commissioning of the boiler to working condition after inspection.	LMS	1
Service item.20	Cleaning and preparation of Boiler T 4464 for hydrotesting, by Boiler Inspectorate. Re-commissioning of the boiler to working condition after inspection.	LMS	1
Service 4item.30	Dismantling, cleaning, re-fixing/replacing of worn out filter bags in KR-75 straightening machine I and II. dust collector. Which is located at outer area at eastern side of Cold Mill FG bay. Containing 108 Nos. filter bags 150mm diameter and 2500 mm long in each unit. Totally 2X108) 216 Nos. clean	No.	12
Service item.40	Dismantling, cleaning, re-fixing/replacing of worn out filter bags in the dust collectors located in SFW-I, II, III and IV machines. 16 Nos. filter bags 150 mm diameter and 1000 mm long in each unit. Totally (4X16) 64 Nos. cleaning to be carried out 6 times per year, at equal time period	No.	48
Service item.50	Dismantling,cleaning,re-fixing of worn out filter bags in dust collector located in cold NDT I and II.Size of the filter bags 150 mm diameter 1000 mm long (2x5) 10 Nos.cleaning to be carried out 6 times per year,at equal time period.	No.	24
Service item.60	All kinds of fasteners tightening / replacement	No.	4800
Service item.70	Fasteners tightening / replacement upto M24	No.	443
Service item. 80	Fasteners tightening / replacement aboveM24, upto M46	No.	443

NAME OF WORK: SERVICE CONTRACT FOR MECHANICAL, ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLDMILL SSTP BHEL- TRICHY

Enquiry No: 9472400081/ 11-09-2024 - GEM/2024/B/5349040

Service item. 90	Tightening / Replacement of foundation bolts of mounting base frames M36 & above	No.	220
Service item. 100	Mass Tightening / Replacement of bolts on structures, guides etc	No.	445
Service item. 110	Replacement of pneumatic valves 1/4" , 1/2" , 3/4" , 1"	No.	221
Service item. 120	Replacement of pneumatic hoses 1/4" , 1/2" , 3/4" , 1"	M.	1305
Service item. 130	Replacement of hydraulic valves 6,8,10,24 and 32	No.	108
Service item. 140	Replacement of hydraulic hoses	M	443
Service item. 150	Replacement of full chain size 1/2" to 3/4" pitch - 3m length	M	108
Service item. 160	Replacement of full chain size 1" to 1-1/2" pitch - 3m length	M	221
Service item. 170	Replacement of full chain size 1-3/4" to 2-1/2" pitch - 3m length	M	221
Service item. 180	Replacement of chain link size 1/2" to 3/4" pitch	No.	108
Service item. 190	Replacement of chain link size 1" to 1-1/2" pitch	No.	108
Service item. 200	Replacement of chain link size 1-3/4" to 2-1/2" pitch	No.	108
Service item. 210	Replacement / tension adjustment of v-belt 1000mm to 2600 mm long	Set	26
Service item. 220	Replacement / tension adjustment of v-belt 2600mm to 5000 mm long	Set	26
Service item. 230	Replacement / adjustment of tie rods size M16 to M30	No.	108
Service item. 240	Replacement / adjustment of tie rods size M36 to M80	No.	108
Service item. 250	Collecting trough wood removal and replacing	No.	1112
Service item. 260	Servicing of heat exchangers and re-fixing	No.	13
Service item. 270	Roll down skid wood fixing / replacing	No.	221
Service item. 280	servicing of water pumps	No.	52
Service item. 290	servicing of pneumatic pumps	No.	17
Service item. 300	servicing of hydraulic pumps	No.	26
Service item. 310	Removal and replacing of water pumps	No.	52
Service item. 320	servicing of idle roller assy (on shop floor	No.	108
Service item. 330	servicing of driver roller assy. (Note: in case of driver roller (on line) servicing includes dismantling & re-fixing of motor unit	No.	52
Service item. 340	Alignment of Driven roller assy. (on shop floor) Note: In general for on line rollers alignment with respect to adjacent rollers preparation & providing suitable shims are part of the work	No.	52

NAME OF WORK: SERVICE CONTRACT FOR MECHANICAL, ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLDMILL SSTP BHEL- TRICHY

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Service item. 350	RC coupling & inserts changing	No.	108
Service item. 360	Pumps coupling & insert changing	No.	108
Service item. 370	Geared motor gear box servicing (on shop floor)	No.	39
Service item. 380	Gear box changing including coupling half of geared motor unit	No.	52
Service item. 390	Motor changing in geared motor unit	No.	52
Service item. 400	Changing of geared motor unit along with coupling half including oil topping	No.	52
Service item. 410	Changing of coupling half in 600 KN, 315 KN, 500 KN & 800 KN	No.	17
Service item. 420	Changing of coupling complete in 600 KN, 315 KN, 500 KN & 800 KN	Set	17
Service item. 430	Providing arresting pieces in roller bearing blocks (preparation & welding)	No.	108
Service item. 440	Back haul rope changing in 315 KN Draw bench 30mm dia	Set	4
Service item. 450	Trolley rope changing in 500 & 600 KN Draw Benches	M	1653
Service item. 460	Trolley rope tensioning in 500 & 600 KN Draw Benches	Times	221
Service item. 470	Chain link replacing and connecting in 315 KN draw bench. Size 3-1/2"	No.	221
Service item. 480	Chain link replacing and connecting in 800 KN draw bench. Size 7"	No.	221
Service item. 490	Removal, servicing & refixing of damper in Cold Mill furnaces above dia 500mm	No.	26
Service item. 500	Removal, servicing & refixing of damper in Cold Mill furnaces above dia 500mm upto 1000mm	No.	17
Service item. 510	Servicing & Replacement of valves in Cold Mill upto 2 1/2" NB	No.	34
Service item. 520	Servicing & Replacement of valves in Cold Mill above 3" NB upto 6" NB	No.	34
Service item. 530	Servicing & Replacement of BURNER IN Cold Mill furnaces	No.	43
Service item. 540	Replacement of Burner in Cold Mill furnaces	No.	52
Service item. 550	5T furnace-servicing of roller assy.	Set.	43
Service item. 560	7.5 T/F Dimension checking of roller assy (Eight roller assemblies dimensions to be checked at time)	Times	65
Service item. 570	Changing Pneumatic cylinder size upto 4" diameter	No.	108
Service item. 580	Changing Pneumatic cylinder size upto 8" diameter	No.	43
Service item. 590	Changing Pneumatic cylinder size upto 14" diameter	No.	17
Service item. 600	Replacement of coupling bolt in 50T, 60T, 80T Draw benches	No.	221

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Service item. 610	Replacement of coupling bolt in all cranes : LT, CT, Hoist	No.	654
Service item. 620	Hoist rope changing in crane and in pickling plant, size 12mm dia	M	2675
Service item. 630	Hoist rope changing in cranes, size 18mm dia	No.	891
Service item. 640	KR75: Replacement of worn out vulcolan liners	No.	26
Service item. 650	KR75: Replacement of worn out WEAR STRIPS	No.	221
Service item. 660	KR75: Changing of conveyor roller assembly	No.	221
Service item. 670	KR75: Replacement of U/J shaft	No.	52
Service item. 680	KR75: Replacement of worn out U/J shaft bolts and nuts	No.	456
Service item. 690	CNDT Replacement of triple rollers	No.	113
Service item. 700	CNDT conveyor roller servicing and replacing	Set	113
Service item. 710	Removal and replacing of pneumatic pumps	No.	17
Service item. 720	Removal and replacing of hydraulic pumps	No.	30
Service item. 730	Servicing of idle roller assy (Online) Note: In general servicing means dismantling parts, reassembling & lubrication properly	No.	108
Service item. 740	Gearbox replacement in KR75, New KR	Times	65
Service item. 750	Gearbox replacement in 600 KN, 500KN, N/F & T/F	Times	65
Service item. 760	Hoist brake unit replacement in cranes	No.	17
Service item. 770	LT Brake unit replacement in cranes	No.	17
Service item. 780	Hoist gear box replacement in crane	No.	21
Service item. 790	LT Gear box replacement in crane	No.	21
Service item. 800	CT Gear box / Brake replacement in crane	No.	17
Service item. 810	Pickling transfer car I (Charging) - complete drive replacement - brake, shaft, coupling, gear box, motor, etc	Set.	8

2. SCOPE OF WORK:

SCHEDULE 1 - MECHANICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL / SSTP

Common Conditions:

- Contractor has to take adequate safety measures to their crew by providing required personal protective equipment's(PPE). Working above 3mtrs elevation is considered as "WORKING AT A ELEVATION " for which proper care has to be taken care by the Contractor and for such nature of work, necessary safety belt is to be arranged by the Contractor and safety permit from SSTP safety to be obtained.
- Contractor should make arrangements for provision of sufficient numbers of commander torches, cells etc., to their manpower.

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3. From the contractor side, supervisor with Hot mill maintenance knowledge should be stationed for any coordination and communication with department. Supervisor shall take responsibility for collection of consumables and other related materials required for the work.
4. Contractor's Scope: Tools box containing standard hand tools like double end spanners, Allen keys, pipe wrenches, pliers, hammers, screw drivers etc., and tool kits containing double end ring spanners, box spanners, tubular boxes etc., are to be arranged by the contractor at his cost.
5. BHEL (SSTP) supply: Required Spares, oxygen & acetylene gas cylinders, welding machine with accessories, gas cutting set with accessories, welding electrodes, consumables required for work shall be given. EOT crane facility will be extended.
6. Remove all wastes / debris from the working spot and clean the surrounding area after completion of work. All generated scraps to be removed from the work place and moved to bin boxes.
7. The quantum of work planned under preventive maintenance may be higher or lower depending upon the mill operation / shut down and review of maintenance schedule.

Scope specifications:

Maintenance, servicing & overhauling and maintenance support service works in Hot mill:

- 1) The work consists of support for maintenance activities like (1) Group Assembly replacement (2) Servicing / Repair of Mechanical assemblies / Equipments (3) Fasteners replacement, (4) Scheduled PPM, (5) Furnace maintenance, (6) Associated greasing and oil filling (7) Associated machining work like drilling, tapping and grinding, (8) Material handling / Movement
- 2) The contractor shall depute minimum (Indicative) of 2 skilled manpower/shift in A, B, C & G shift of mill operation in Hot mill. Sunday work shall be planned to complete major activities in round the clock shift hence minimum of 6 manpower in total is required to complete the job. List of jobs to be carried out is identified in advance and explained by the shop in charge. The contractor shall depute one of his supervisor to make all preparatory works such as collection of spares, fasteners and any other special tools to complete the job planned. Planned work in Non-Rolling shift must be completed without resulting in any Maintenance delay in next Rolling shift and in case the nature of work cannot be completed by 2 manpower the contractor shall deploy additional manpower in order to complete the planned works.
- 3) List of works planned for Sunday and Holidays shall be informed to the contractor 1 day in advance and contractor must arrange adequate manpower to ensure completion of all planned work without any backlog.
- 4) Manpower deployed must have previous work experience in Hot mill maintenance activity.

Maintenance work in RHF Water Trough:

- 1) The work consists of support for replacement of water trough, dipper casting and Kerb casting in RHF. Work to be carried out in space constrained location and also in high temperature ambience.
- 2) Contractor shall be prepared to start the Work within 24 Hrs from the time of intimation by HMM (Hot Mill Maintenance)In charge.
- 3) For replacement of water trough work mentioned in Sl. 1 and Sl. 5, leak test will be performed after completion of assembly. Work is considered complete only if there is no visible leakage noticed. Also draining of water through pipelines to be ensured after flushing.
- 4) For replacement of kerb casting and dipper plate in Sl. 2, Sl. 3, hearth rotation will be checked for fouling and gap as per drawing is to be ensured after completing work.
- 5) During shutdown/ breakdown period, Contractor shall be informed about work needed to be carried out and exact number of water troughs, dippers plates and kerb castings to be replaced will be informed. Also minimum notice period of 24 Hrs will be given for start- intimation of work and sufficient manpower to be mobilised to meet BHEL target.
- 6) Whenever the contractor is intimated about the work, all the jobs should be carried out in the specified time schedule as informed by Shop Engineer-in-charge. This work should be carried out either during Non-Production shifts / Sundays / Holidays or shut down days as instructed by shop in charge

Pipeline works in SSTP

1. The work consists of support for pipeline works with pressure rating varying from 1 bar to 200 bar. The Contractor should adhere to the time schedule given by Executive in charge.
2. Pipeline planned works will be carried out in A & B shift on Sunday for Equipment pipeline works in Hot mill, cold mill and PLS. Separate manpower to be deployed for Hot mill, cold mill and PLS to complete the planned works in

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respective departments. In case of urgent requirement contractor shall be prepared to carry out the work in weekdays also.

3. Leakage test shall be carried out for all the pipeline work carried out. In case of leakage of pipeline, it has to be rectified free of cost by the contractor
4. Manpower deployed shall possess skill for high pressure welding of pipelines. Manpower shall possess knowledge of welding rods and SS pipeline welding.
5. Safety measures and procedure to be followed as specified by Executive in charge to be strictly followed while fabricating LPG and FUEL lines.
6. PAINTING: Un machined surface are to be painted with one coat of zinc chromate red oxide after which two coats of required colour synthetic enamel paint is to be painted.
7. Finished work will be inspected by executive in-charge for ensuring quality of work. In case of any deviation of job from drawing it has to be rectified free of cost by contractor.
8. Whenever the contractor is intimated about the work, all the jobs should be carried out in the specified time schedule as informed by Shop Engineer-in-charge.

Fabrication works in SSTP:

1. The work consists of support for general fabrication work as per machine drawing. Contractor should be willing to take fabrication jobs of erection, dismantling and gas cutting in all areas of SSTP as and when the need arises. The Contractor should adhere to the time schedule given by Executive in charge.
2. Fabrication planned works will be carried out in A & B shift on Sunday in Hot mill, cold mill and PLS. Separate manpower to be deployed for Hot mill, cold mill and PLS to complete the planned works in respective departments. In case of urgent requirement contractor shall be prepared to carry out the work in weekdays also.
3. Manpower deployed shall possess knowledge to read machine drawing.
4. PAINTING: Un machined surface are to be painted with one coat of zinc chromate red oxide after which two coats of required colour synthetic enamel paint is to be painted.
5. Finished work will be inspected by executive in-charge for ensuring quality of work. In case of any deviation of job from drawing it has to be rectified free of cost by contractor.
6. Whenever the contractor is intimated about the work, all the jobs should be carried out in the specified time schedule as informed by Shop Engineer-in-charge. Fabrication to drawing shall be carried out in G shift of weekdays. Dismantling and erection nature of work shall be carried out either during Sundays / Holidays or shut down days as instructed by shop in charge

SCHEDULE-2: ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLD MILL /SSTP

Common Conditions:

1. Contractor must visit the plant and shall understand the detailed equipment list, process procedure and nature of works to be carried. Contractor not following the above instruction will not be considered to participate in the tender.
2. Above nature of activities shall be carried out by persons preferably with experience in executing electrical maintenance activities in industrial production work centres with valid B License.
3. Get clearance / instructions before starting the work from the shop maintenance in-charge.
4. The contractor shall ensure proper work execution. Discipline of the labour during job execution and routine activities are to be monitored. Work to be carried out in a safe and proper manner. Contractor shall instruct his staff for better housekeeping of work spot.
5. The contractor has to work on all shifts G, A, B & C in all working days, Sundays and Holidays as desired by the Maintenance in charge.
6. The rate quoted shall remain firm till the completion of the order, even if the minimum wage varies during the work order period. If BHEL Opts for extension of contract, the contractor shall agree to work with same rate, terms and conditions.
7. Cost shall be quoted for carrying out the per quantity job in the annexure.
8. The contractor shall maintain separate attendance register of the deployed manpower availed for this job from start to end of work.
9. The contractor shall maintain a 'Work Diary containing the details of work executed by him from time to time on Shift/Daily basis and obtain the signature from official concerned nominated for this purpose for having executed the work correctly and satisfactorily.
10. Any other related jobs of this nature which may come from time to time also to be carried out by the contractor as instructed by Maintenance in-charge concerned.
11. Contractor has to take adequate safety measures to their crew by providing required personal protective equipment.

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12. Utmost care shall be taken while working at elevated heights and prior work permit shall be taken from area safety officer.
13. Contractor scope: Manpower, relevant hand tools and tackles.
14. Statutory regulation for working inside the plant to be full filled by the contractor.
15. BHEL / SSTP will have no liability to any stoppage caused in work resulted in the Labour of the contractor being idle either to break down of the equipment, tools and tackles to be supplied by BHEL, if any or due to other causes arising from the manner of execution of the work.
16. 15T/10T EOT crane can be availed from SSTP on request. Mobilizing the ladder available inside SSTP for attending the relevant jobs are in contractor's scope. Battery operated platform truck can be availed for material movements

Scope specifications:

Checking of Sensors and Electrical installations:

- 1) Checking & Cleaning of sensors like limit switches, proximity switches, hot metal detectors, light barriers, encoders, flow switches and pressure switches as per checklist provided by Shift Supervisor.
- 2) Replacing of sensors like limit switches, proximity switches, hot metal detectors, light barriers, encoders, flow switches and pressure switches as and when required under supervision of Shift Supervisor / Executive.
- 3) Connection and Disconnection of Power Connections from RC Motors, fans, man coolers, exhaust fans, welding machines and single phase pump motors as instructed by Shift Supervisor.
- 4) Providing and Disconnection of Temporary lighting as per requirement and as instructed by Shift Supervisor.
- 5) Replacement of Single Phase and Three Phase power points by disconnection and reconnection as instructed by Shift Supervisor.
- 6) Movement of Materials like sensors, Motors, Light Fittings etc., related to above mentioned jobs from section / storage location to work spot after prior check as instructed by Shift Supervisor.
- 7) All the jobs shall only be carried out as instructed by Shift Supervisor.
- 8) In the event of Sensor replacement, faulty sensors shall be brought back to section and shall be informed to Shift Supervisor for further diagnosis without fail.
- 9) Before Checking / Cleaning of Rotating equipments clearance shall be taken from the Shift Supervisor.
- 10) Temporary light fittings and Portable Power distributor shall be brought back to the section and kept properly at allotted storage location as instructed by Shift Supervisor.
- 11) Time schedule: Electrical Maintenance section in both Hot Mill and Cold mill works in A, B, C & G shifts. To cater the needs of above activities the manpower deployment schedule shall be done as per the site requirement.

Lighting Works:

- 1) Assembling, Testing and Installation of High Bay Light Luminaire of wattage 400W.
- 2) Assembling, Testing and Installation of Flood Light Luminaire of wattage 250W.
- 3) Assembling, Testing and Installation of Tube light of wattage 36W.
- 4) Testing and Installation of LED Luminaire at identified locations.
- 5) Assembling, Testing and Installation of Ceiling / Cabin / Wall mount Fan at desired location.
- 6) Testing and Installation of IP65 LED Luminaire in desired locations.
- 7) Assembling, Mounting and Termination of Switch Boxes with switches and sockets.
- 8) Conduit piping and wiring works at desired locations.
- 9) Movement of Materials like cables, luminaries, Portable Power Distributors etc., related to above mentioned jobs from section / storage location to work spot after prior check as instructed by Shift Supervisor.
- 10) All the jobs shall only be carried out as instructed by Shift Supervisor / Maintenance Incharge.
- 11) Tested and Found working Light luminaries shall be kept properly with tag identification at storage location as instructed by Shift Supervisor.
- 12) Time schedule: Lighting works can generally be carried out during non-rolling shifts, Sundays or Holidays for a period of One Year.

SCHEDULE-3 MECHANICAL MAINTENANCE SUPPORT SERVICES IN COLD MILL/SSTP

COMMON CONDITIONS:

1. The Contractor shall visit the Maintenance in Charge and inspect the place of work before submitting the offer for clarity of nature of work. MOM with CMM Executive shall be submitted to participate in the tender.
2. The contractor has to arrange the necessary man power and other facilities and start the work within 8 hrs of receipt of information from MMO officials.
3. The contractor must be willing to work in all the three shifts including Sundays/holidays to complete the jobs as per the schedule.

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4. All safety precautions to be strictly followed, as the work has to be performed at an elevated height of 12 meters. All personal protective equipments like safety belt, safety helmet, hand gloves, safety shoes are to be worn while performing the work, these safety materials to be arranged by the contractor.
5. The contract is for a period of ONE YEAR. Payment will be made on pro-rata basis. If SSTP/BHEL opts for extension of work order period /work order quantity, the contractor shall agree to work with same rate, terms & conditions of Purchase Order.

Scope specifications:

REPLACEMENT & ALIGNMENT OF WORN OUT LT WHEEL ASSEMBLY IN EOT CRANES/SSTP

1. Pulley block (2 Ton capacity), single pulley, manila rope, steel rope, hydraulic jack, packing materials, fasteners, grease, cotton waste, kerosene, wheel stoppers, spares wheels and couplings will be supplied by BHEL/SSTP.
2. The contractor has to arrange the necessary man power to perform the work in any shift, including on Sunday/Holiday. Generally two fitters, one riggers and two helpers to be deployed compulsorily for each wheel changing work and each wheel change shall be completed in a shift time. However, the contractor has to arrange suitable man power to perform the above work without any delay.
3. Necessary tools and wrenches to be arranged by the contractor for dismantling the worn-out wheel from the crane end carriage and the drive couplings from the floating shaft.
4. The contractor has to measure crane wheel web dimension readings once in a month and the same needs to be produced to the executive in-charge to plan for preventive maintenance.
5. The new spare wheels are to be cleaned, guide ways to be deburred and both side bearings to be greased by opening the side covers before lifting for mounting. The work to be done by the contractor.
6. The crane will be parked at a convenient location for wheel changing by production department. Wheel stoppers to be provided for the other three wheels. Another 4 wheel stoppers to be fixed on both rails at a distance of 3 meters from the crane on both sides to avoid collision of other moving crane. The work to be done by the contractor.
7. The hydraulic jack to be placed on the rail with suitable packings at the bottom at the nearest convenient location of the wheel which is to be changed. The crane to be lifted by hand pumping the hydraulic jack, the crane to be packed suitably, the gap between the rail and the wheel to be maintained at 20mm. The fasteners of the coupling to be removed and the floating shaft to be supported with packing.
8. The chain pulley block to be lifted and hanged at a nearest convenient location of the wheel to be changed. The wheel to be held up conveniently by the chain pulley block, the wheel mounting fasteners to be removed, after removing the fasteners, the worn out wheel to be brought out of the end carriage and lowered to the floor with the help of chain pulley block.
9. Spare new wheel to be lifted from floor with the help of the pulley block and inserted in to the crane end carriage and the fasteners to be provided for the wheel and coupling. Again the crane to be lifted through the hydraulic jack, packings to be removed and the crane wheel is to be slowly placed on the rail.
10. On completion of the wheel changing work, verticality of the wheel and parallelism with respect to trailing wheel on the same side to be ensured/ corrected. Trial to be taken in the presence of maintenance officials. If any vibration/sound is observed, it should be corrected by the contractor.
11. On successful completion of the wheel changing work all the materials such as chain pulley block, manila rope, hydraulic jack, single pulley, steel rope, packing materials and wheel stoppers to be removed, cleaned and returned to maintenance department. The worn out wheel to be moved to the scrap disposal area by the contractor as instructed by the maintenance in-charge.

HEAT TREATMENT FURNACE MTCE IN COLD MILL- REMOVAL, REPAIR AND

REPLACEMENT OF PUNCTURED RADIANT TUBE, ROLLERS & COOLING COILS IN COLD MILL FURNACES:

1. Electric welding machine with accessories, gas cutting set with accessories, will be supplied by BHEL/SSTP. 02 cylinders, DA cylinders, welding electrodes, power, compressed air, kerosene, grease, asbestos gasket sheet, cotton waste, hydraulic jack, shellac, asbestos ribbon and necessary fasteners will be supplied by BHEL/SSTP.
2. All the tools connected with the dismantling and erection of the jobs mentioned in the job description has to be arranged by the contractor.
3. The combustion airline, LPG line, exhaust line, solenoid valve line and recuperator to be disconnected before removing the top/bottom radiant tube. The work to be done by the contractor.
4. While removing the damaged/punctured radiant tube, if any cutting requires inside the furnace it should be done with the special electrode by the contractor, special electrodes, necessary lighting facility and fan will be given by BHEL/SSTP. They have to position it according to their convenience.

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5. The contractor or his worker should go into the furnace at ambient temperature for the inspection of radiant tube puncture, roller bend/damage, hanger rods and support channel damage, deflector plate condition, refractory bricks and glass wool damage if any for assessment of repair of furnace.
6. While carrying out maintenance work inside the furnace, unwanted materials such as refractory brick or already struck up tube materials to be cut into pieces and moved out of the furnace.
7. Any damage in the radiant tube mounting structural box inside the furnace to be rectified by inserting suitable support plates and welding it with the furnace wall. The work to be done by the contractor. Plain stainless steel plates will be supplied by BHEL/SSTP.
8. The damaged hanger rods and support channels to be replaced with new ones. In 7.5T furnace one top radiant tube consists of three support channels and nine hanger rods as 1 set, in 5T furnace one top radiant tube consists of two support channels and six hanger rods as 1 set. There is no support channel and hanger rod for bottom radiant tube.
9. The radiant tube mounting flange at the furnace body to be cleaned and asbestos ribbon to be pasted with shellac.
10. After mounting and fixing the new/salvaged radiant tube, the recuperator assembly, combustion air line, LPG line and exhaust lines to be connected with new gasket by the contractor. Gasket to be prepared from plain gasket sheets which will be given by BHEL/SSTP.
11. While refixing the new/repaired radiant tube with necessary air, LPG, flue gas line, if any alteration requires in the pipe lines due to shrinkage or distortion it should be corrected by cutting and welding it to suit at site condition by the contractor.
12. While removing and refixing the radiant tube the removed insulation to be re-fixed in original position by the contractor.
13. While on inspection any hanger rod or support channel is found to be damaged it shall be replaced without disturbing the radiant tube. For doing the work the contractor should go into the furnace at ambient temperature.
14. Replacement of heating zone rollers both in 5T & 7.5T furnace: - The drive sprocket to be removed with the help of puller, the bearing housings to be removed on both sides, the cover plate and refractory brick to be removed at the non-drive side. The worn out roller to be pulled out carefully.
15. The new roller to be inserted carefully without any damage to the fire brick in the furnace wall. The refractory brick and cover plate is to be fixed.
16. The removed bearing housings to be dismantled, cleaned with kerosene and reassembled. If the bearings are found to be worn out it should be replaced with new bearings. The drive side bearing locking and non-drive side bearing freeness to be ensured. Special grease is to be packed in to the bearing housing.
17. Radiant tube inspection: - In both furnaces radiant tubes to be inspected by filling compressed air at 5Kg/Sq.cm. pressure. The inspection is to be carried out as scheduled by the MMO official. The work to be done by the contractor.
18. For this inspection, both end mountings of the radiant tube to be removed. At one end dummy flange to be provided with pressure gauge, the other end dummy to be provided with air inlet connection and shut off valve arrangement. The work to be done by the contract.
19. Compressed air to be filled up to 5 Kg/Sq.Cm. in to the radiant tube and checked for pressure drop for 5 minutes. If pressure drop noticed then the tube is to be replaced with a spare tube. Pressure gauges & valves will be provided by BHEL/SSTP and the same to be used for inspection by the contractor.
20. Sometime the charged tubes may get bend and struck in to the furnace heating zone or cooling zone. At that time the location of tube struck up to be identified and the struck up tubes to be removed by cutting into pieces by removing the radiant tube or cooling coil. The work to be done by the contractor.
21. The worn out deflector plate in the heating zone end and in the cooling zone on both sides to be removed by gas cutting and new plate is to be prepared and re-fixed by welding. To be done by the contractor.
22. The worn out cooling coils to be identified, inlet water line valve to be closed, both inlet and outlet
23. waterlines to be removed. Tube bundle mounting flange fasteners to be removed and the worn out cooling coil to be pulled out.
24. The removed coil location is to be cleaned, the coil mounting flange to be pasted with asbestos ribbon and the new coil is to be fixed. The water line and valve to be fixed and checked for water leak, if any leak noticed it should be arrested. To be done by the contractor.
25. Crane will be provided depending up on the availability for removal and refixing the radiant tube/heating zone rollers in both the furnace.

REPAIRING OF FURNACE PUNCTURED RADIANT TUBE

- a. Special cutting electrodes, special welding electrodes, electrical welding machine with Accessories, electric power, cotton waste, compressed air and required tubes will be supplied by BHEL / SSTP.
- b. Portable grinding machine, grinding wheels, edge preparation cutters are to be arranged by the contractor.

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- c. The contractor has to arrange sufficient man power such as: Fitters, qualified welders (atleast ITI certificate) and Helpers to complete the repair work at the earliest.
 - d. At a time two nos. of punctured radiant tube to be repaired shall be kept on the floor near the eastern side of the charging end of the 5T furnace.
 - e. The punctured portion to be cut and removed at both sides of the puncture at a convenient distance with the special cutting electrode and edge prepared by grinding the cutting edge of the radiant tube. To be done by the contractor.
 - f. Required length of plain tube to be measured and cut from the new spare tube. Both ends to be edge prepared and aligned with the edge prepared portion of the radiant tube.
 - g. While joining the new tube with the removed portion care to be taken about the radiant tube mounting flange fixing holes orientation, the length and the perpendicularity with the mounting flange by the contractor.
 - h. The welding with the special electrode shall be carried as per Welding Procedure Specifications(WPS). WPS will be given by SSTP/BHEL.
 - i. The weld bead on the repaired portion to be ground smooth to be done by the contractor.
 - j. Visual test, LP test to ensure surface defects, UT testing to ensure crack free weld shall be done by SSTP/BHEL trained personnel. If any defect found in the weld joint the portion to be gouged, re-welded and retested by the contractor.
 - k. The glass wool box at the mounting flange end of the radiant tube to be rectified from any crack or dent by cutting and welding necessary material. The work to be done by the contractor.
 - l. The glass wool to be taken out carefully by opening the box, after rectification work the glass wool to be repacked and the opening to be closed properly by welding.
27. The contractor has to complete the total work content mentioned in the job description. After completion of work, all the returnable scope of supplied materials to be returned to the user department.
28. After completion of works, complete area cleaning and movement of scrap materials to disposal stores to be done by the contractor.

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II. GENERAL TERMS & CONDITIONS OF CONTRACT

1. Definition:

In these General Conditions of Contract, the following terms shall have, I meaning hereby assigned to them, except where the context otherwise requires:

- a) The "Contract" means, the documents forming the Tender and acceptance thereof, together with all the documents referred to therein including general and special conditions to contract. All these documents as applicable taken together shall be deemed to form one contract and shall be complementary to one another.
- b) The "Work" means, the work described in the Tender documents in individual work orders as may be issued from time to time to the contractor by the Officer-In charge within the power conferred upon him including all notified or additional items of works and obligations to be carried out as required for the performance of contract.
- c) The "contractor" means, the individual Firm or Company whether incorporated or not, undertaking the work and shall include the legal personal representatives of such individuals or the persons composing the firm or Company or the successors of the firm or company and the permitted assigns of such individual or firm or Company.
- d) "The Officer-In charge" means, the Officer deputed by the respective area HOD to supervise the work or part of the work.
- e) "Approved" and "Directed" means, the approval or direction of the respective area HOD or person deputed by him for the particular purposes.
- f) "BHARAT HEAVY ELECTRICALS LIMITED" (hereinafter referred to as BHEL) shall mean the Board of Directors, Chairman, Executive Director, General Manager or, other Administrative Officer of the said Company including DGM / WCM authorised to invite Tenders and enter into contract for works on behalf of the Company.
- g) The "Contract sum" means, the sum accepted or the sum calculated in accordance with the prices accepted in Tender and / or the contract rates as payable to the contractor for the execution of the work during the currency of the contract.
- h) A "week" means, Seven Days, without regard to the number of hours worked or not worked in any day in that week.
- i) A "day" means, the day of 24 hours (TWENTY-FOUR) irrespective of the number of hours worked or not worked in that day.

2. Heading to the Contract Conditions:

The heading to these conditions shall not affect the interpretations thereof.

3. DEVIATIONS:

The contractor shall not carry out any work not covered by schedule except in pursuance of the written instructions of the respective area HOD/WCM. No such work shall be valid unless the same has been specifically confirmed and accepted by BHEL in writing and incorporated in the Contract.

4. Work to Be Carried Out:

The Contract shall include all labour which may be required for the execution of the work.

The Contractor will be deemed to have satisfied himself as to the nature of the site, local facilities of access and all matters affecting the execution of the work. No. extra charges consequent on any misunderstanding in these respects or otherwise will be allowed.

5. Assignment of Transfer of Contract:

The Contractor shall not, assign or transfer the contract or any part thereof, or any share, or interest thereon to any other persons.

6. Sub-Contract:

The Contractor shall not sublet any portion of the contract.

7. Compliance to Regulations and Bye-Laws:

The Contractor shall confirm to the provisions of any statute relating to the work and regulations and Bye- laws of any local authority. The Contractor shall be bound to give all notices required by statutory regulations or by-laws as aforesaid and to pay all fees and taxes payable to any authority in respect thereof.

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8 PERFORMANCE SECURITY (Security Deposit SD):

Performance Security shall be @ 5 % of the Contract value.

After issue of LOI / Work Order intimation, if the Contractor fails to commence the work within 7 Days or as indicated in LOI / Work Order, and do not complete the work in total as per the terms & conditions of tender, suitable action will be taken as per GeM GTC.

Modes of Deposit:

Performance Security of 5 % of the contract value may be accepted in the following forms:

- (i) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL.
- (ii) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.
- (iii) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL).
- (iv) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL).
- (V) Insurance Surety Bond.

(Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith)

General Terms related to SD:

- The Performance Security will not carry any interest.
- Performance Security shall be released to the contractor upon fulfilment of Contractual obligations as per terms of contract.
- BHEL, shall not be responsible for any loss of securities due to liquidation or any other reason whatsoever or any depreciation in the value of the Securities while in their charge or for any loss of interest thereon.
- NOTE: Acceptance of Performance Security against Sl. No. (iii), (iv) and (v) above will be subject to hypothecation or endorsement on the documents (Signature of the Branch Manager must be present) in favor of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.

Collection of Performance Security:

- LOI will be issued separately through mail; Performance Security has to be deposited within 7 days of LOI. Else, EMD will be forfeited and may also attract the provision as per GeM GTC.
- If the value of work done at any time exceeds the contract value, the amount of Performance Security shall be correspondingly enhanced and the additional Performance Security shall be immediately deposited by the Contractor or recovered from payment/s due to the Contractor.
- All compensation or other sums of money payable by the contractor to BHEL under the terms of this contract or under any other contract with BHEL, may be deducted from the Performance Security or realized by the sale of the securities of from the interest arising there from or from any sums which may be due or may become due to the contractor payable by BHEL, on any account whatsoever against this contract of any other contract with BHEL and in the event of his Performance Security being reduced by reason of such deductions or sale as aforesaid, the Contractor shall within seven days thereafter make good in cash or in securities endorsed as aforesaid, any sum or sums by which the Performance Security has been so reduced.
- In case of an Award of a Contract and if the Contractor fails to perform or does not comply with the Performance Evaluation Criteria, the Performance Security will not be refunded / Bank Guarantee encashed.
- The Bank Guarantee shall be kept valid until the due date for refund of Security Deposit.

Timely Submission of SD: Bidder agrees to submit performance security required for execution of the contract within the time period mentioned. *In case of delay in submission of performance security, enhanced performance security which would include interest (Repo rate + 4%) for the delayed period, shall be submitted by the bidder.* Further,

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if performance security is not submitted till such time the first bill becomes due, the amount of performance security due shall be recovered as per terms defined in NIT / contract, from the bills along with due interest.

REFUND OF PERFORMANCE SECURITY:

Performance Security will be refunded on completion of the work and after the expiry of the maintenance period, if any, provided always that the Contractor shall first have been paid the last and final bill and have rendered a "NO DEMAND CERTIFICATE". In case no maintenance period is applicable, then 100% of Performance Security will be refunded after providing "NO DEMAND CERTIFICATE" by the contractor as per format provide by BHEL.

FORFEITURE OF PERFORMANCE SECURITY:

The performance security will be forfeited and credited to BHEL's account in the event of a breach of contract by the supplier.

Performance Security should be refunded to the contractor without interest, after he duly performs and completes the contract in all respects but not later than 60(sixty) days of completion of all such obligations including the warranty under the contract.

The Performance Security shall not carry any interest.

9. GOODS & SERVICE TAX (GST) REGISTRATION & COMPLIANCE:

At the time of bill passing, the contractor shall submit the copy of the remitted GST challan of previous month / Quarter as proof of GST remitted to tax authorities and also a Certificate Stating that "GST Collected from BHEL has been remitted to tax authorities".

For services / supplies after implementation of New GST Return System i.e. from 01/10/2019, the following conditions will apply and contractor shall fully comply to the below points.

- a) Response to Tenders for Indigenous supplier will be entertained only if the vendor has a valid GST registration Number (GSTIN) which should be clearly mentioned in the offer. If the dealer is exempted from GST registration, a declaration with due supporting documents need to be furnished for considering the offer. Dealers under composition scheme should declare that he is a composition dealer supported by the screen shot taken from GSTN portal. The unregistered dealer as well as the composition dealer has to submit an undertaking stating that they will not claim GST during the execution of the contract even if their status under GST changes to regular tax payer. The dealer has to submit necessary documents if there is any change in status under GST.
- b) Supplier shall mention their GSTIN in all their invoices (incl. credit Notes, Debit Notes) and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No. which is linked/uploaded in GSTN network shall be clearly indicated), Billed to party (with GSTIN) & Shipped to party details, item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, Place of Supply etc. **Wherever E-Invoice is applicable, the tax invoice/ CN / DN submitted by the vendor must contain the QR code generated in E-Invoice Portal & IRN.**
- c) All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code).
- d) Invoices will be processed only upon completion of statutory requirement and further subject to following:
 - i. Vendor declaring such invoice in their GSTR-1 Return/ IFF
 - ii. Receipt of Goods or Services and Tax invoice by BHEL
- e) As the continuous uploading of tax invoices in GSTN portal (in GSTR-1/ IFF) is available for all (i.e. both Small & Large) tax payers, all invoices raised on BHEL may be uploaded immediately in GST portal on dispatch of material /rendering of services. The supplier shall ensure availability of Invoice in GSTN portal before submission of invoice to BHEL. Invoices will be admitted by BHEL only if the invoices are available in GSTN portal (in BHEL's GSTR-2A/ GSTR-2B).
- f) In case of discrepancy in the data uploaded by the supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note or debit note (details also to

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be uploaded in GSTN portal) for the shortages or rejections in the supplies or additional claims, within the calendar month informed by BHEL.

- g) In cases where invoice details have been uploaded by the vendor but failed to remit the GST amount to GST Department (Form PMT-08 or Form GST RET-01 to be submitted) within stipulated time, then GST paid on the invoices pertaining to the month for which GST return not filed by the vendor will be recovered from the vendor along with the applicable interest (currently 24% p.a) and all subsequent bills of the vendor will not be processed till filing of the GST return by the vendor.
- h) In case GST credit is denied to BHEL due to non-receipt or delayed receipt of goods and/ or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount claimed in the invoice shall be disallowed to the vendor.
- i) Where any GST liability arising on BHEL under Reverse Charge (RCM), the vendor has to submit the invoices to BHEL well within the timeline prescribed in GST Law, to enable BHEL to discharge the GST liability. If there is a delay in submission of invoice by the vendor resulting in delayed payment of GST by BHEL along with Interest, then such Interest payable or paid shall be recovered from the vendor.
- j) Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers/contracts. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Tax Invoice will be issued by BHEL indicating the respective supply invoice number.
- k) GST TDS will be deducted as per Section 51 of CGST Act 2017 and in line with Notification 50/2018 Central Tax dated 13.09.2018. GST TDS certificate will be generated in GSTN portal subsequent to vendor accepting the TDS deduction in the GSTN portal & the vendor can directly download the Certificate from the GSTN Portal.
- l) In case any changes in taxes and duties as per Gov. Notification (including GST), the same shall be applicable from time to time.

GST will be charged on the

1. SD amount forfeited from the bidder at the applicable rates.

2. Risk purchase amount forfeited from the bidder at the applicable rates

GST tax Invoice will be issued to the vendor on receipt/recovery of GST amount from the vendor”.

10. Orders under the Contract:

All orders, notices etc. to be given under the contract shall be in writing, typescript or printed and if sent by registered post to the address given in the Tender of the Contract, shall be deemed to have been served on the date, when in the ordinary course they would have been delivered to him. The Contractor shall carry out without delay all orders given to him.

11. Contractor's Supervision:

- 1. The Contractor shall either himself supervise the execution of the contract or shall appoint a competent agent acceptable to BHEL Officials.
- 2. Orders given to the Contractor's agent shall be considered to have the same force as if they have been given to the Contractor himself.
- 3. The Contractor or his accredited agent shall attend when required without making any claim for doing so to the OFFICER-INCHARGE, to receive instructions.
- 4. The respective area HOD shall have full powers and without assigning any reason, requires the Contractor to immediately cease to employ in connection with this contract, any agent, servant or employee where continued employment is, in his opinion undesirable. The Contractor shall not be allowed any compensation on this account.

12. Payment to employees engaged by the contractor:

- 1. The Contractor shall remain liable for the payment of all wages and other payments in connection with the employees engaged by him and with regard to the work.
- 2. The Contractor shall comply with the applicable provisions of Payment of Wages Act-1936, Minimum Wages Act-1948, Employees' Liability Act-1938, Employees' Compensation Act-1923, Payment of Bonus, EPF and Miscellaneous Provisions Act-1952, Employees' State Insurance Act-1948 and other relevant Acts and rules framed, thereunder from time to time.
- 3. Contractor shall be responsible for making payment of wages within 7 days from the last day of wage period and shall obtain the signature at the end of entries in the wage register from area in-charge of contract

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operating department. If the 7th days falls on Sunday or holiday the payment should be made on the previous working day

4. Contract labours has to sign the filled in wage register in front of the area in-charge of contract operating department and area in-charge should certify the wage register for payment to the Contract labours only after signed by all the contract labours in filled wage register.
5. Contractor shall have/ obtain license under the Contract Labour (Regulation and Abolition) Act-1970.
6. Contractor should ensure that at least the prevailing minimum wages, as per the rules of Government of Tamil Nadu, which are applicable to General Engineering and Fabrication Industry and BHEL's additional wages, inclusive of bonus after remitting PF & ESI contributions, are paid to his employees only in their respective nationalized bank accounts by means of NEFT/ RTGS/ IMPS.

Any changes in manpower should be informed to the executive in-charge of Contract execution department before engaging them along with the details.

While submitting the bills, the contractor should submit a proof of payment made to employees only through nationalized bank, along with PF and ESI contribution challans to Welfare Section every month for effecting payment by BHEL. Otherwise, payment to the bills will not be processed.

In addition, the contractor has to submit wage register as a proof for payment of Minimum wages as per prevailing acts, for getting payment from BHEL.

7. The contractor shall remit the salary/wages of their workmen ONLY through nationalized Bank, directly to the salary/savings account of the employee concerned. monthly clearance will be given in respect of those contractors, only if the salary/wages to the workmen concerned has been remitted. The relevant Bank statement/proof of payment should be produced along with PF and ESI challans every month.

If the Contractor employs more than twenty employees, he has to obtain License to this effect from the Factory Inspectorate and renew the same periodically.

8. The Contractor should follow and comply with Minimum Wages, ESI, PF, Bonus, Group Insurance and other statutory regulations as stipulated in Factories Act and other applicable State / Central Governments' rules & regulations.
9. **Each contract employees must have his own PF and ESI Codes and comply with the relevant Acts.**
10. **The Contract workers should be fully aware of safety measures and observe all safety precautions during work. The Contractor should also make his own arrangements to provide requisite safety devices to the workers, based on the nature of work. Any accident/ incident occurring to his workers in Company's premises should be reported in writing by the Contractor to Safety, Welfare and Line Executive concerned.**
11. Contractor shall maintain proper records of PF, EDLI, Pension, ESI contribution, administrative charges etc., wherever applicable and shall produce proof of deductions as well as remittances. Contractor shall issue wage slips to his employees. Indicative lists as follows, which shall be maintained neatly, completely and legibly for inspection by various statutory authorities and the company officials even at short notice:

- | | | | |
|-----|--|---|--|
| (a) | Form XIII
(Rule 75) | - | Register of Workmen employed by contractor |
| (b) | Form XIV | - | Employment card issued by contractor (rule 76) |
| (c) | Form XVI | - | Muster Roll (Rule 78(1) (a) (i) |
| (d) | Form XVII | - | Register of Wages (Rule 78(1) (a) (i) |
| (e) | Form XVIII
weekly Payment) | - | Register of wages-cum Muster Roll (in case of |
| (f) | Form XIX | - | Wage Slip (Rule 78) (b) |
| (g) | Form XX
(78) (1) (a) (ii) | - | Register of deduction for damages of loss (Rule |
| (h) | Form XXI | - | Register of files (Rule 78) (1) (a) (ii) |
| (i) | Form XXII | - | Register of advance (Rule 78) (1) (a) (ii) |
| (j) | Form XXIII | - | Register of overtime (Rule 78) (1) (a) (iii) |
| (k) | Form XXIV
officer (Rule 82) | - | Return to be sent by the contractor to licensing |
| (l) | any other records/registers required to be maintained by the contractors under statutory provisions applicable to him. | | |

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13. Precautions against Risk:

The Contractor shall be responsible for providing at his own expense for all precautions to prevent loss or damage from any and all risks and to minimize the amount of any such loss or damage and for the necessary steps to be taken for the said purpose.

14. Damage & Loss to Private Property & Injury to workmen:

The Contractor shall at his own expense reinstate and make good to the satisfaction of the respective area HOD and pay compensation for any injury, loss or damage occurred to any property or rights whatever including property and rights of BHEL (or agents) servants or employee of BHEL, the injury loss or damage arising out of or in any way in connection with the execution or purported execution of the contract and further the contractor shall indemnify BHEL against all claims enforceable against BHEL (or any agent, servant or employee of BHEL) or which would be so enforceable against BHEL, in respect of any such injury (including injury resulting in death) loss or damage to any person whomsoever or property including all claims which may arise under the Employees Compensation Act or otherwise.

15. Laws Governing the Contract:

The Indian Laws shall govern the contract for the time being in force.

16. Cancellation of Contract for Corrupt Acts:

BHEL, whose decision shall be final and conclusive, shall without prejudice to any other right or remedy which shall have accrued, shall accrue thereafter to BHEL cancel the contract in any of the following cases and the Contractor shall be liable to make payment to BHEL for any loss or damage resulting from any such cancellation to the same extent as provided in the case of cancellation for default.

If the Contractor shall:

- a) Offer or give or agree to give to any person in BHEL service any gift or consideration of any kind, as an inducement or reward for doing or for bearing to do or for having done or for having borne to do any act, in relation to the obtaining or execution of this or any other contract for BHEL service,
OR
- b) Enter into a contract with BHEL in connection with which commission has been paid or agreed to be paid by him or with his knowledge, unless the particulars of any such commission and the terms of payment thereof have previously been disclosed in writing to BHEL,
OR
- c) To obtain' a contract with BHEL as a result of ring Tendering or by non-bonafide methods of competitive Tendering, without first disclosing the fact in writing to BHEL.

17. Cancellation of Contract for Insolvency Assignment of Transfer or Subletting of Contract:

BHEL, without prejudice to any other right or remedy, which shall have accrued or shall accrue thereafter to BHEL, shall cancel the contract in any of the following cases:

If the Contractor,

- a) Being an individual or if a firm any partner thereof shall at any time be adjudged bankrupt or have a receiving order for administration of his estate, made against him or shall take any proceedings for liquidation or composition under any bankruptcy Act or assignment of his effects of composition or arrangement for the benefit of his creditors or purport to do so, or if any application made under any Bankruptcy Act for the time being in force for the sequestration of his estate or if a trust deed be granted by him on behalf of his creditors.
OR
- b) Being a Company, shall pass a resolution or Court shall make an order for the liquidation of its assets, or a receiver or Manager on behalf of the debenture holders shall be appointed or circumstances shall arise which entitle the Court or debenture holders to appoint a receiver or Manager.
OR
- c) **Assigns, Transfers, Sublets or attempts to assign, transfer or sublet any portion of the work.**
- d) Whenever BHEL exercises the authority to cancel the contract under these conditions, BHEL may have the work done /by any means at the Contractor's risks and expenses provided always that in the event of the cost of the work so done (as certified by the respective area HOD) being less than the contract cost, the advantage shall accrue to BHEL and if the cost exceeds the money due to Contractor under the contract, the Contractor shall

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either pay the excess amount ordered by the respective area HOD or the same shall be recovered from the Contractor by other means.

- e) In case BHEL carries out the work under the provisions of this condition, the cost to be taken into account in determining the excess cost to be charged to the Contractor under this condition shall consist of the cost of the materials, hire charges of tools and plants and / or labour provided by BHEL with an addition of such percentage to cover superintendence and establishment charges as may be decided by the respective area HOD whose decision shall be final and conclusive.
- f) Labour engaged by the contractor should be disciplined & exhibit good behavior in dealing with employees of BHEL. Any misbehavior or undesirable conduct of any person engaged by the contractor is reported, contractor shall change that person immediately or else it may even lead to termination of the contract & in such case Performance Security will be forfeited as penalty.

18. Cancellation of Contract in Part or Full for Contractor's Default:

If the contractor:

- a) makes default in carrying out the work as directed and continues in that state after a reasonable notice from the respective area HOD or his authorized representative:
- b) fails to comply with any of the terms & conditions of the contract or failure to comply orders after reasonable notice in writing with orders properly issued thereunder:

BHEL, may without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to BHEL CANCEL the contract as whole or in part thereof or only such work order or items of work in default from the contract. Whenever BHEL exercises the authority to cancel the contract as a whole or part under this condition, BHEL may complete the work at the contractor's risk and cost (as certified by the respective area.

HOD which is final and conclusive) being less than the contract cost, the advantage shall accrue to BHEL. If the cost exceeds the money due to the Contractor under this contract, the Contractor shall either pay the excess amount ordered by the respective area HOD or the same shall be recovered from the Contractor by other means. In case BHEL carries out the work or any part thereof under the provisions of the conditions the cost to be taken into account in determining the excess cost to be charged to the Contractor under this condition shall consist of the cost of the materials, hire charges of tools and plant and/or labour provided by BHEL with an addition of such percentage to cover the superintendence and establishment charges as may be decided by the respective area HOD whose decision shall be final and conclusive.

19. Termination of Contract on Death of Contractor:

Without prejudice to any of the rights or remedies under this contract, if the Contractor dies, or if the firm is dissolved or the company is liquidated, BHEL shall have the option of terminating the contract without compensation to the Contractor.

20. Special Power to Termination:

If at any time after the award of contract, BHEL shall for any reason whatsoever not require whole or any part of the work to be carried out the respective area HOD shall give notice in writing of the fact to the Contractor who shall have no claim to any payment of compensation or otherwise howsoever 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 foreclosing of the work.

21. Recovery from Contractor:

Whenever under the contract, any sum of money, shall be recoverable from or payable by the Contractor, the same may be deducted from or any sum then due or which at any time thereafter may become due to Contractor under the contract or under any other contract with BHEL or from his Performance Security unless the contractor pays the claim on demand.

22. Post- Technical Audit of Work and Bills:

BHEL reserves the right to carry out the post-payment Audit and technical examination of the work and final bill including all supporting vouchers, abstracts etc., and enforce recovery of any sum becoming due as a result thereof in the manner provided in the presiding sub- paragraphs. However, no such recovery shall be enforced after three years of passing the final bill.

23. Force Majeure Clause:

As per GeM GTC

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24. BENEFITS TO STARTUPS:

Start-up companies will be exempted from remitting EMD as per government norms. In terms of work Experience & Turnover, such vendors need to meet atleast 50% of financial turnover & atleast 50% of similar experience on eligibility criteria in the tender.

For availing start-up benefits, relevant certificates issued by Department for Promotion of Industry and Internal Trade shall be submitted along with the tender.

25. Preference to Make in India:

For this procurement, the local content to categorize a supplier as a Class I local supplier/ Class II local Supplier/ Nonlocal supplier and purchase preference to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 04.06.2020 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT".

26. SUBMISSION OF BILLS BY CONTRACTOR: Bills should be submitted within a week after execution of work during the calendar month. The Contractor shall submit a bill in triplicate detailing the various items of work done during the month supported by the requisitions issued from time to time. The Contractor shall, once in every month, submit to the end user / executing agency, separately details of his claims for the work done by him up to and including the previous month which are not covered by his contract agreement in any of the following respects:

- a) Deviation from the items provided in the contract documents.
- b) Extra items / new items of work.
- c) Items in-respect of which rates have not been settled. He should in addition furnish a clear certificate to the effect that the claims submitted by him as aforesaid cover all his claims and that no further claims shall be raised by him in respect of the work done up to and including the period under report.
- d) Tenderer has to quote rates both in figures and in words for all the items given in the Bill of Quantities provided.
- e) Along with bills, Contractors has to furnish self-attested copy of the following documents for further processing of bills:
 - f) Copy of PAN card.
 - g) Documentary proof for payment of PF/ESI (for the last month) with respect to the employees engaged by the contractor with payment details relating to individual names to be submitted.
 - h) Copy of payment challan of previous Month / Quarter as proof of deposit of GST along with a certificate from the Contractor that tax collected from BHEL has been remitted to tax authorities.
 - i) If the Contractor is not registered for any statutory obligation and not liable there to, then a declaration shall be submitted along with offer that they are within the threshold limit.

Any other relevant document which is required from time to time as per BHEL requirement.

20. PAYMENT OF BILLS: All payments to be made to the contractor, under this contract shall be through Electronic Fund Transfer (EFT) only as per payment terms.

- a) Payment will be made after completion of work as per tender conditions on acceptance and certification of bills by respective area Executive in charge.
- b) Statutory deduction like IT etc. will be deducted from contractor payment as required by Law.

EXTENTION OF CONTRACT: One or more extensions of the Contract may be done with mutual agreement between BHEL, Trichy and the approved Contractor. Such agreements shall be based on acceptance of the lowest rates and terms & conditions of the corresponding contract.

27. PROVISION FOR MICRO & SMALL ENTERPRISES (MSE) SUPPLIERS.

1. MSE suppliers can avail the intended benefits only if they submit along with UDYAM certificate
2. Definitions of MSEs owned by Women is under:
 - a) In case of proprietorship firm, proprietor must be woman.
 - b) In case of partnership firm, the women partners must be holding at least 51% shares in the unit.
 - c) In case of private limited companies, at least 51% share must be held by women promoters.
3. Definitions of MSEs owned by SC/ST is under:
 - a) In case of proprietorship firm, proprietor must be SC/ST.
 - b) In case of partnership firm, the SC/ST partners must be holding at least 51% shares in the unit.

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- c) In case of private limited companies, at least 51% share must be held by SC/ST promoters.
- d) Authorized Offices to Issue SC/ST certificate. The caste/Tribe/Community certificate issued by the following authorities in the prescribed form for SCs/STs can be considered.
 - i District Magistrate / Additional District Magistrate / Collector / Deputy commissioner / Additional Deputy commissioner / Deputy collector/ 1st class stipendiary magistrate/ Sub divisional Magistrate/ Taluka Magistrate/ Executive magistrate/ Extra Assistant commissioner.
 - ii Chief Presidency magistrate/ Additional chief presidency magistrate/ Presidency magistrate.
 - iii Revenue Officer not below the rank of tahsildar.
 - iv Sub-Divisional officer of the area where the individual and/ or his family normally resides.
 - v To avail the benefits of MSE under SC/ST category, the related documents as stated above should be submitted along with tender documents.
- 4. Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid). Non-submission of such documents will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above-required documents are not submitted before price bid opening. If the Tender is to be submitted through GeM portal, then the above-required documents are to be uploaded on the portal.
- 5. However, credentials of all MSE suppliers will be verified before considering the intended benefits for MSE suppliers at the time of Tender evaluation.
- 6. The MSEs who have applied for registration or renewal of registration with any of the above agencies/bodies, but have not obtained the valid certificate as on closing date of the Tender, are not eligible for exemption/preference.
- 7. If non-MSE vendor is L1, participating MSE quoting price within price band of L1+15 % shall be counter-offered L1 rates .(If the MSE vendors accepts the counter-offered L1 rates, then as the contract cannot be split, the full /complete supply of total tendered value shall be awarded to MSE.

28. CRITERIA FOR AWARD OF WORK:

Evaluation of the offer shall be done on “Net Cash outflow to BHEL after taking into account applicable Taxes and Duties “and overall (package) L1 basis. The L1 position based on the quoted values (subject to calculations) excluding applicable Goods & Services tax (GST), will not necessarily mean L1 for a vendor, but the net liability to BHEL, after considering the Goods & Services tax (GST) criteria for all the vendors who had participated in the Tender. In case of exemption from the payment of Goods & Services tax (GST), the vendor has to submit a declaration along with the Tender. For such exempted vendor, Vendor cannot claim GST from BHEL, during the execution of the contract (if awarded) even if their status under GST changes to regular tax payer. **The Evaluation currency for this Tender shall be INR.**

29. Arbitration and conciliation:

The Parties agree that if at any time (whether before, during or after the arbitral or judicial proceedings), any Disputes (which term shall mean and include any dispute, difference, question or disagreement arising in connection with construction, meaning, operation, effect, interpretation or breach of the contract/Tender which the Parties are unable to settle mutually), arise inter-se the Parties, the same may, be referred by either party to Conciliation to be conducted as per GeM GTC.

Appendix I

FORMAT FOR SEEKING CONSENT FOR REFERRING THE DISPUTES TO CONCILIATION THROUGH IEC

To,

M/s. (Stakeholder's name)

Sub: Resolution of the Disputes through conciliation by Independent Expert Committee (IEC).

Ref: Contract No/MoU/Agreement/LOI/LOA& date _____.

Sir,

With reference to above referred Contract/MoU/Agreement/LOI/LOA, you have raised certain Disputes/claims. Vide your letter dated____ you have requested BHEL to refer the Disputes/claims to IEC for Conciliation.

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We are enclosing herewith Format (3) for giving consent and the terms and conditions of BHEL Conciliation Scheme, 2018 governing conciliation through IEC. You are requested to give your unconditional consent to the said terms and conditions of the Scheme by returning the same duly sealed and signed on each page. On receipt of your consent, matter will be put to the Competent Authority for consideration and decision.

Please note that BHEL has also certain claims against you (if applicable). BHEL reserves its right to agree or not to agree conciliation of the said disputes through BHEL and this letter is being issued without prejudice to BHEL's rights and contentions available under the contract and law.

Yours faithfully,

Representative of BHEL

Appendix II

FORMAT FOR GIVING CONSENT BY CONTRACTOR / VENDOR / CUSTOMER / COLLABORATOR / CONSORTIUM PARTNERS FOR REFERRING THE DISPUTES TO CONCILIATION THROUGH IEC

To,
BHEL

.....
Sub: Resolution of Disputes through Conciliation by Independent Expert Committee (IEC).

Ref: Contract/MoU/Agreement/LOI/LOA No & date____

With reference to above referred contract, our following bills/invoices/claims submitted to BHEL are still unpaid giving rise to Disputes:

SL. no.	Claim Description	Bill submitted to BHEL (no. and date)	Amount of the bill/claim	Amount received from BHEL	Outstanding Amount

Accordingly, we request you to kindly refer the Disputes in respect of above claims to IEC for Conciliation. We hereby agree and give our unconditional consent to the terms and conditions of BHEL Conciliation Scheme, 2018 governing conciliation through IEC. We have signed the same on each page and enclosed it for your consideration. Yours faithfully,

(Signature with stamp)

Authorized Representative of Contractor

Name, with designation Date

Appendix III

STATEMENT OF CLAIMS/COUNTER CLAIMS TO BE SUBMITTED TO THE IEC BY BOTH THE PARTIES

1. Chronology of the Disputes
2. Brief of the Contract/MoU/Agreement/LOI/LOA
3. Brief history of the Disputes:
4. Issues:
5. Details of Clam(s)/Counter Claim(s):

Sl. No.	Description of claim(s)/ Counter Claim	Amount (in INR) Or currency applicable in the contract	Relevant contract clause

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6. Basis/Ground of claim(s)/counter claim(s) (along with relevant clause of contract).

Note– The Statement of Claims/Counter Claims may ideally be restricted to maximum limit of 20 pages. Relevant documents may be compiled and submitted along with the statement of Claims/Counter Claims. The statement of Claims/Counter Claims is to be submitted to all IEC members and to the other party by post as well as by email.

30. JURISDICTION:

In case of any suit or other legal proceedings arising under or relating to this Contract, the courts at Trichy, Tamil Nadu only shall have the Jurisdiction and is only after exhausting the, Arbitration Clause.

31. SECRECY OF CONFIDENTIAL INFORMATION:

The Contractor undertakes and agrees that he/it will not disclose or reveal in part or full the proprietary/confidential information, which terms shall mean and include patents, trademarks, service marks, registered designs, copyright, design rights, know-how, confidential information, trade and business names and any other similar protected information of BHEL received during negotiation or currency of the contract to any third party or governmental authorities without written permission from BHEL. In the event of termination or expiry of the contract, the contractor shall return all proprietary/confidential information to BHEL. This clause shall survive termination or expiry of the contract.

BHEL reserves the right to initiate appropriate action including legal proceeds / termination of contract, recovery of damages, penalties etc., if the contractor is found guilty / wrong usage of the documents given by BHEL for any unauthorised activity.

32. SIGNING OF CONTRACT:

Each contract document shall be signed by the Contractor with his usual signature. Contract by partnership or Hindu Joint Family firm, may be signed in the FIRM'S name by the Managing Partner or all /one of the Partners on behalf of the firm or the Karta or Manager for HUF as the case may be. Contract by a Company shall be signed with the name of the Company from a person authorized in this behalf and a Resolution or power of attorney or other satisfactory proof, showing that the person signing the Contract documents on behalf of the Company is duly authorized to do so, shall accompany the contract.

33. FRAUD PREVENTION POLICY:

The Bidder along with its associate / collaborators / sub – vendors / consultants / service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about fraud or suspected fraud as soon as it comes to their notice”.

Fraud Prevention policy and List of Nodal Officers shall be hosted on BHEL website, vendor portals of Units / Regions intranet.

34. BREACH OF CONTRACT / RISK PURCHASE:

In case of breach of contract, wherever the value of security instruments like performance bank guarantee available with BHEL against the said contract is atleast 10% of the contract value, the same be encashed. In case the value of the security instruments available is less than 10% of the contract value, the balance amount be recovered from other financial remedies (i.e. available bills of the contractor, retention amount, etc. with BHEL) or legal remedies be pursued. The balance scope shall be got done independently without Risk & Cost of the failed supplier/ contractor.

Further, levy of liquidated damages, debarment, termination, de-scoping, short-closure, etc., shall be applied as per provisions of the contract.

35. Biometric Entry/Exit System for Contract Workmen:

1. The Entry/Exit of the employees engaged by contractor is to be regulated only through Biometric system.
2. The contractor should arrange photo coverage for all his/her employees within the above-stipulated time.

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3. The contractor has to submit FORM-I for all his/her contract employees. All the particulars required in FORM-I are to be provided by the contractor without fail.
4. Every employee of the Contractor shall be provided with Employment Card as per Form XIV (as per Rule 76 of the Contract Labour (Central) Rules, 1971 and the contractor shall instruct its employees to carry the Employment Card as well as Entry Card without fail, while entering/exiting factory.
5. The contractor should educate his employees in registering the attendance through the system.
6. Whenever a contract employee migrates or leaves service of the contractor, the contractor has to surrender the biometric card of the particular employee to Contract Cell with immediate effect, without fail.
7. On completion of the work, the contractor has to surrender all the biometric entry cards issued to its employees immediately to the contract cell. Otherwise, an amount of Rs.200/- per card will be deducted from the final bill/Performance Security of the contractor.
8. If any contract employee lose his/her entry card, the contractor shall arrange a duplicate entry card for the employee by paying an amount of Rs.200/-.
9. The Contractor is totally responsible for the biometric cards issued to his/her employee.
10. The Contractor has to indemnify BHEL for all the damages and losses caused by his/her employees.

36. Notices of Accidents:

In the event of an accident, the Contractor shall be required to fill injury report and submit to the Engineer in charge immediately and ensure compliance of ESI / Workmen's Compensation of accident as per the Act. The Contractor shall get the Contract personnel engaged by him insured under workmen's compensation policy from any Insurance company in India before actually starting the work. The Insurance coverage should be for the entire period of Contract. The Contractor shall comply with the provisions of the Workmen's Compensation Act 1923. (This should be read in connection with the provisions of ESI Act.)

37. Government Law's covering Under This Contract:

1. The Factories Act, 1948:
Section 32: Floors, stairs and means of access shall be properly maintained to ensure safety. Every place of working should have safe access. When any person has to work at a height from which he is likely to fall, provision shall be made, so far as is reasonably practicable, by fencing or otherwise, to ensure the safety of person so working.
2. Tamil Nadu Factories Rules, 1950
Rule 55: Hoists and Lifts & Rule 55A. Lifting machines, chains, ropes and lifting tackles: Shall be maintained in good condition, thoroughly inspected and examined by competent persons and records to be maintained.
Rule 57: Excessive Weights: No person shall, unaided by another person, lift, carry or move by hand or on head, any material, article, tool or appliance exceeding the maximum limit in weight set out in the schedule (50 kg for adult male and 30 kg for adult female).
Rule 61E: Machinery and plant: No machinery, plant or equipment shall be constructed, situated, operated or maintained in any factory in such a manner as to cause risk of bodily injury.
Rule 61F: Methods of Work: No process or work shall be carried on in any factory in such a manner as to cause risk of bodily injury.
Rule 61G: Stacking and storing of materials etc.: No materials or equipment shall be stacked or stored in such a manner as to cause risk of bodily injury.
Rule 61-K. Examination of eye sight of certain workers: No person shall be employed to operate a crane or to give signals to crane operator unless his eye sight and colour vision have been examined and declared fit by a qualified ophthalmologist.
Rule 61-N and Rule 61- O: Workers to be provided with Personal Protective equipment suitable for the hazards and should be of good quality / have certification by Indian Standard Institute.

Note: For the type of work envisaged, personal protective equipment such as helmet, safety shoes and gloves are essential.

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Rule 96: Notification of accidents: Shall be complied with as required in the Factories Act (Section 88 and Section 88A) and Tamil Nadu Factories Rules.

The Contractor shall in respect of Personnel employed by him either directly or through sub-Contractors, comply with or cause to be complied with following statutory provisions and rules and in regard to all matters provided therein.

The Contract Labour (Regulation & Abolition) Act 1970 and the related Rules.

- a. The minimum wages Act 1948 and the related rules
- b. The payment of wages Act 1936 and the related rules.
- c. The Factories Act 1948 and related Tamil Nadu Rules.
- d. The Employees' Provident Fund & Miscellaneous provisions Act 1952.
- e. The Employees State Insurance Act 1948.
- f. Workmen Compensation Act 1923 Payment of Bonus Act 1965
- g. Maternity Benefit Act, 1961
- h. Payment of Gratuity Act, 1972
- i. Inter-State Migrant Workmen (Regulation of Employment & Conditions of Service) Act, 1979
- j. Equal Remuneration Act, 1976
- k. Industrial Employment (Standing Order) Act, 1960 (In case of engaging 100 or more personnel)
- l. The Industrial Disputes Act 1947

3. Information technology act 2000

And any other law or modifications to the above or to the rules made there under from time to time.

38. STATUTORY REQUIREMENTS:

- a. All statutory requirements under Minimum Wages Act, 1948, Factories Act 1948, Workmen Compensation Act 1923, Employees Provident Fund and Miscellaneous Provisions Act, 1952, Payment of Gratuity Act 1972, Employee State Insurance Act 1948, Contract Labour (R&A) Act 1970, Payment of Bonus Act 1965, Income Tax Act, GST Act and all other applicable Acts shall be complied with by the Contractor.
- b. Contractor shall comply with all statutory requirements, rules, regulations, notifications in relation to employment of his employees issued from time to time by the concerned authorities.
- c. Contractor shall indemnify BHEL against all claims and losses under various Labour Laws, statutes or any civil or criminal law in connection with employees deployed by him.
- d. Contractor wherever applicable shall maintain proper records prescribed by the concerned statutory authorities and provide a copy of the same to BHEL.
- e. Contractor shall furnish proper returns to the concerned statutory authorities and provide a copy of the same to BHEL.

39. REMOTE TRANSACTIONS: -

The Contractor shall agree to and comply with all such terms and conditions as BHEL may prescribe from time to time and shall confirm that all transactions effected by or through facilities for conducting remote transactions including the Internet, World Wide Web, electronic data interchange, call centers, teleservice operations (whether voice, video, data or combination thereof) or by means of electronic, computer, automated machines network or through other means of telecommunication established by BHEL shall constitute legally binding and valid transactions when done. Any transaction pertaining to the Tender from both the parties of business done round the clock irrespective of the office or business hours of the companies, are valid legally and binding on both the parties. This applies to the extent only in such cases where deadline time for transaction is not specifically declared by either or both the parties to the business. In case Letter of Intent (LOI) is issued through email, the PC generated time and date of mail shall be construed as the official time and date of release of LOI. In as much as this date is within the last date of validity given by the bidder the LOI is said to have been issued within the validity period and shall be binding on both the parties to the business.

40. CHANGE IN CONSTITUTION OF FIRM:

Changes in constitution of firm whenever it is made after submission of application or during currency of the Contract, the existing firm has to duly inform the proposed changes to Contracting department of BHEL at the appropriate time before the changes in the constitution are made. In case the absence of any such information BHEL is not responsible for the consequences arising out of the absence or suppression of information and the issue / dispute arising out of these changes and the firm is responsible for settling the issue or dispute among

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themselves (Partners etc.) or with the bankers or with any third party. Under the above circumstances when dispute arises and the firm does not inform the change in the constitution of the firm BHEL has the right for suspending or terminating the Contract.

41. Common Terms and Conditions for Works Contract relevant to Safety:

Following points shall be ensured for the safety of contract employees:

I. Identity and Entry:

1. The contractors to give identity card to their employees with full details like employee name, company name, age, blood group, contact person with phone no. etc.
2. The contractor shall not engage in connection with the work any person who has not completed 18 years of age or has completed 60 years of age."
3. HR/ Welfare will issue passes to the trained employees only.
4. Welfare section shall arrange for necessary infrastructure (biometric entry) for enrolment of new contract workers. Biometric entry system will be made available in North Gate and Unit 2 initially.
5. The data of daily entry of contract workers through biometric will be made available online to the contract awarding departments HR/Welfare.

II. Training:

1. Safety, first aid and firefighting training to be given to two responsible persons in each contract and they should take care of their groups on day to day working.
2. This shall be done within a period of 2 weeks after awarding of fresh contract.
3. For ongoing contracts, the contractors have to identify the persons to be trained within a period of 2 weeks.
4. Driving/operation of Crane/jumbo/Fork lift etc. are to be done only by authorized persons.

III. Dress Code:

1. Male employees should enter gates only with Safety shoes, Pants-Shirts, (Dothi, Lungi not permitted).
2. Female employees should enter gates only with Safety shoes. Loose dress must be avoided. (A shirt over saree /chudithar is a must).
3. Normal shoes are acceptable for office area work only.
4. Employees working in canteens can wear sandex.
5. Welfare will finalize and indicate a color coding to be provided in the dresses used by contract employees for uniformity and easy identification of the contract workers. Such colour shall be distinct from the colour of BHEL employees uniform.

IV. Procedures:

1. Smoking, audio-playing (mobile phone, iPod, inbuilt music systems etc. in the vehicles.) are banned within the factory premises.
2. Moving to unrelated areas must be strictly avoided by the contract employees entering to the other areas only with knowledge of concerned department.
3. Procedure (SOP) given from user departments are to be adopted for all operations and maintenance — e.g. tank cleaning, FT plant maintenance, Sewage maintenance, Oxidation pond maintenance, operation of substation, transformer maintenance etc. User departments agreed to generate procedures incase if not available already (Snake catching, Monkey catching, Honey comb removal etc.).
4. Adequate precautions to be taken while waste removal like paint sludge removal, chromic sludge removal, phenol and tar removal by contract employees.
5. The contractor should clearly inform the hazards involved to the employees MSDS to be displayed.
6. The contract employees involved in tank cleaning, ET plant maintenance, Oxidation pond maintenance should know swimming and strict monitoring should be ensured.
7. Line clearance (LOTO) procedure to be followed during bulb changing, electrical substation maintenance, ay, maintenance, furnace instrumentation etc.
8. Work permits to be obtained for jobs like work at height, excavation, blasting, hot work, pipe line work, roof light maintenance, work at confined space like cellar.
9. Users agreed to initiate the permits for all the works mentioned in the table given below to safety Management for clearance.
10. Specified Speed limit 20 kmph to be followed by all the vehicles entered in factory premises.

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11. Procedure given by user departments for spray painting, brush painting and dip painting should be followed. Paint sludge removal, empty tin removals etc. are to be periodically carried out and sent to disposal stores.

Work Permit Instructions: -

1	Work at height	Only experienced and qualified persons shall be allowed to carry out the work at height. Physically fit without any vertigo problem. Wear safety belt and use life line, Net etc.
2	Confined space work, cellars, furnace ducts	Oxygen level to be checked before work, proper breathing apparatus to be used. Only experienced people shall be allowed to carry out the work at cellars/confined space.

Equipment's:

1. All the equipment used by the contractors are to be in good condition with all safety provisions and to be checked and certified by the department officials.
2. Electrical supply to be taken through the M&S department. Unauthorized connections taken any will be viewed seriously.
3. Welding machines are to be used with proper earth connection. Cables should be in good condition. Insulation to be checked regularly and maintained.
4. Qualified electricians are only to be used for giving connections.
5. Good quality Electrical equipment and tools are to be used with valid certificates. These certificates must be shown on demand.
6. For portable electrical equipment supply to be taken using plugs points.
7. Wires / cables extension box should be in good condition.
8. Proper earthing should be maintained.
9. Mobile Crane, Fork lift, Trailers; JCB etc. should be in good condition with specified capacity and should not cause any untoward incident while in use.
10. Fitness Certificate issued by competent person approved by Govt. authorities, insurance and emission certificate etc. should be in possession and should be shown on demand.

V. Welfare:

1. The contractors are directed to generate PF number and ensure PF contribution remittance for all contract workmen engaged by them.
2. Bio-Metric Entry for Contract Workmen Contractors have been directed to cover all the contract workmen engaged by them through Bin-Metric Entry System.

VI. Violations:

The following will be treated as serious violations and appropriate actions are to be Initiated by the users:

1. Employing people whose age is below 18 years.
2. Not wearing safety shoes or normal shoes (Contract employees will not be permitted after the security gates).
3. Not wearing FTEs.
4. Working without proper work permit.
5. Possession of mobile phones other than taxi drivers.
6. Using mobile phones while driving.
7. Unauthorized electrical connections.
8. Driving/operation of Crane/jumbo/Fork lift etc. by unauthorized persons.
9. Unauthorized operation/driving of Lorries, mobile cranes etc.
10. Smoking, alcohol, audio-playing etc.
11. Moving to unconnected areas.

Any willful act that creates unsafe conditions.

It will be the responsibility of the Contractor to ensure that the contractor himself, labour engaged for the work, are required to possess valid necessary license for execution of work from statutory authorities, renewal of the same periodically, during the occurrence of the contract and scrupulously adhere to the prevailing safety regulations, safety precautions and measures. BHEL will not be responsible for the lapses, shortcomings arising

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out of such deviations and the contractor will be responsible for any such eventualities and liabilities if any.

42. Compensation Clause:

“BHEL shall recover the amount of compensation paid to victim(s) by BHEL towards loss of life / permanent disability due to an accident which is attributable to the negligence of contractor, agency or firm or any of its employees as detailed below.

- a) Victim: Any person who suffers permanent disablement or dies in an accident as defined below.
- b) Accident: Any death or permanent disability resulting solely and directly from any unintended and unforeseen injurious occurrence caused during the manufacturing/operation and works incidental thereto at BHEL factories/offices and precincts thereof, project execution, erection and commissioning, services, repairs and maintenance, trouble shooting, serving, overhaul, renovation and retrofitting, trial operation, performance guarantee testing undertaken by the company or during any works/during working at BHEL Units/Officers/townships and premises/Project sites
- c) Compensation in respect of each of the victims:
 - (i) In the event of death or permanent disability resulting from Loss of both limbs: Rs 10,00,000/- (Rs Ten lakh)
 - (ii) In the event of others permanent disability: Rs.7,00,000/- (Rs. Seven Lakh)
- d) Permanent Disablement: A disablement that is classified as a permanent total disablement under the proviso to section 2 (I) of the Employee's Compensation Act, 1923”.

43. PF & ESI Clause:

- I. The Contractor shall be solely responsible to comply with the payment of applicable minimum wages, PF, ESI and other statutory payments in respect of his employees engaged in BHEL for carrying out the required services. In case of any default in making the statutory payment, the Contractor shall be responsible to settle the dues along with penalties and damages, if any levied by the appropriate authority under the Act. The contractor has to pay the previous months applicable ESI & PF amount in the respective employee account before 20th of every month.
- II. The Contractor shall indemnify BHEL against all claims and loss if any caused under various labour laws, Civil or criminal law in connection with the employees deployed by him.
- III. The entry/exit of the employees engaged by the contractor are regulated through Security Department by issuing entry pass. For obtaining the same, the contractor should submit the required application form to the Security Department along with copy of Identity Card of the employee, ESI card / ESI Membership details of employee. ESI is exempted if wages are above Rs.21,000/- per month. Those employees drawing wages above Rs.21,000/- should produce copy of pay slip (or) a salary certificate from the company for availing ESI exemption.
- IV. In the event of Contractor engaging any labourer other than his permanent employee for the purpose of providing the required services to BHEL, the Contractor should obtain clearance from HR-Contract Cell by submitting copy of proof of payment of statutory payments i.e., applicable Minimum Wages notified by State Government from time to time along with PF, ESI, Wage and Attendance Register.

44. Final Bill:

As soon as possible after the completion of the work to the satisfaction of the Engineer-in-charge, the contractor shall forward a certified final account on BHEL form, in duplicate. It shall be accompanied by all abstracts, vouchers etc., in support thereof and shall be prepared in the manner prescribed by the Engineer-in-charge. No claims will be entertained after the receipt of the final bill. The Contractor shall be entitled to be paid the final sum less the value of payments already made on account subject to certification of the final bill by the Engineer-in-charge. Any sums due from the contractor on account of Tools & Plant, Stores or any other items provided by BHEL not yet recovered from the contractor shall be deducted from the final sum aforesaid. No charge shall be allowed to the Contractor on account of the preparation of the final bill.

45. Conflict of interest among Bidders/ Agents.

A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive to the detriment of procuring Entity's interest. **The bidder found to have a conflict of interest shall be disqualified.** A bidder may be considered to have a conflict of interest with one or more parties in this bidding process if:

- a) They have controlling partner(s) in common; or

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- b) They receive or have received any direct or indirect subsidy/ financial stake from any of them; or
- c) They have the same legal representative / agent for purpose of this bid; or
- d) They have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder; or
- e) Bidder participates in more than one bid in this bidding process. Participation by a bidder in more than one bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly / assemblies from one bidding manufacturer in more than one bid; or
- f) In case of agent quoting in offshore procurements, on behalf of their principle manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent / dealer. There can be only one bid from the following
 - 1. The principle manufacturer directly or through one Indian agent on his behalf; and
 - 2. Indian/foreign agent on behalf of only one principal;
- g) A bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the bid; or
- h) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/ management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidder must proactively declare such sister/ common business / management units in same similar line of business.

46. INCIDENT MANAGEMENT POLICY ON GEM / GROUNDS FOR ADMINISTRATIVE ACTION:

As per GeM GTC

47. RESOLUTION OF DISPUTES BETWEEN CPSE & GOVERNMENT DEPARTMENTS:

In the event of any Disputes or difference relating to the interpretation and application of the provisions of commercial contract (s) between Central Public Sector Enterprises (CPSEs)/ Port Trusts inter se and also between CPSEs and Government departments/ Organizations (excluding disputes relating to railways, Income Tax, Customs and Excise departments). Such disputes or difference shall be taken up with by either party for its resolution through AMRCD as mentioned in DPE OM No: 05/0003/2019-FTS 10937 Dated 14th December 2022 and the decision of AMRCD on the said dispute will be binding on both the parties.

48. SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS / CONTRACTORS:

Penal action can be initiated on the suppliers / Contractors in line with extant 'Guidelines for Suspension of Business Dealings with Suppliers/ Contractors'. The abridged version of extant 'Guidelines for suspension of business dealings with suppliers/ contractors' has been uploaded on <http://www.bhel.com> on "supplier registration page". BHEL's Guidelines for Suspension of Business Dealings with Suppliers/ Contractors shall apply to this Notice Inviting Tender/ Enquiry. The Bidders shall peruse the same prior to submission of the bid. Any action taken or proposed to be taken by BHEL under the said policy shall be without prejudice, and in addition, to other rights and remedies as may be available to BHEL under contract or law."

The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the firms debarred across BHEL, shall be rejected. The list of firms debarred across BHEL is available on BHEL web site www.bhel.com.

1.0 Integrity commitment, performance of the contract and punitive action thereof:

1.1. Commitment by BHEL: BHEL commits to take all measures necessary to prevent corruption in connection with the tender process and execution of the contract. BHEL will during the tender process treat all Bidder(s) in a transparent and fair manner, and with equity.

1.2. Commitment by Bidder/ Supplier/ Contractor:

1.2.1. The bidder/ supplier/ contractor commit to take all measures to prevent corruption and will not directly or indirectly influence any decision or benefit which he is not legally entitled to nor will act or omit in any manner

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which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India.

1.2.2. The bidder/ supplier/ contractor will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to relevant guidelines issued from time to time by Govt. of India/ BHEL.

1.2.3. The bidder/ supplier/ contractor will perform/ execute the contract as per the contract terms & conditions and will not default without any reasonable cause, which causes loss of business/ money/ reputation, to BHEL.

If any bidder/ supplier/ contractor during pre-tendering/ tendering/ post tendering/ award/ execution/ post-execution stage indulges in malpractices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India, then, action may be taken against such bidder/ supplier/ contractor as per extant guidelines of the company available on [www. bhel.com](http://www.bhel.com) and/or under applicable legal provisions”

If Tenderer expires after the submission of his Tender or after the acceptance of his Tender the BHEL may, at their discretion, cancels such tender. If a partner of a firm expires after submission of Tender or after the acceptance of the Tender, BHEL may cancel such Tender at their discretion unless the firm retain its character. The works executed in the own name of the Tenderer only will be considered for eligibility criteria.

49. EXECUTIONS:

The whole contract is to be executed in the most approved substantial and workman like manner to the entire satisfaction of the Contract, or the Inspection Officer who shall have power to reject any of the works of which he may disapprove: and his decision thereon and any question as to the true intent and meaning of the specifications of drawing of the work necessary for the proper completion of the contract, shall be final and conclusive. The contractee may require alteration if any to be made during the progress of works and should these alterations be such that either party to the contract considers an alteration in the charges justified, such alteration shall not be carried out until amended by the Contractee. Should the Contractor proceed to carryout work without obtaining the consent of the Contractee in writing to amended cost for the alteration works, the Contractor shall be deemed to

50. BOOK EXAMINATION CLAUSE:

(i)The Contractor shall, whenever required produce or cause to be produced or examination by any officer of the contractee, authorize in that behalf any cost of other account book or account voucher, receipt letter, memorandum, paper or writing or any copy of extract from any such document and also furnish information and returns verified in such a manners may be required in any way relating to the execution of this contract or relevant for verifying or ascertaining the cost of execution of this contract(the decision of such officer of the contractee on question or relevancy of any documents, information of return being final and binding on the Parties) The obligation imposed by this clause is without prejudice to the obligation of the contract / or under any statute rules or orders binding the contractor.

(ii)The contractor shall if the authorized officer or the contractee so requires (whether before or after the prices have been finally fixed) afford facilities to the officer of the contractee concerned to visit the Contradctor's Works for the purpose of examining the process of manufacture and estimate or ascertaining the cost of production of the articles, if any portion of the work be carried out by a Sub-Contractor or any subsidiary or a allied Firm or Company, the authorized officer of the contractee shall have power to secure the books of such sub-contractor, or any subsidiary or allied Firm or Company shall be open to his inspection.

51. General conditions of safety:

1. The contractor should follow all the safety rules and instructions issued by the management from time to time.
2. All the contract workmen must be briefed about their work nature and hazards involved, in advance.
3. The Contractor shall provide all safety devices and personal protective equipment to their workmen at their cost and shall ensure that his workmen wear / use such devices or equipment provided to them while doing the work and there should not be any relaxation on this.
4. All electrical appliances must be provided with earthing arrangement

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5. Portable grinders must have guard.
6. All the hand tools must be in a good condition.
7. Material handling activities should be done only by competent / experienced persons.
8. NOTICES OF ACIDENTS: In the event of an accident the contractor shall be required to fill injury report and submit to the Engineer In charge immediately and ensure compliance of ESI / Workmen's Compensation of accident as per the Act.
9. In case of accidents, injured person must be referred to outfield Medical Centre for First Aid treatment. The supervisor or the Contractor should accompany the injured person along with injury report or letter from respective department.
10. Fire precaution must be strictly adhered to.
11. Any untoward incident should be reported to Safety Engineering Department immediately.
12. Women worker are not allowed to work after 6 PM.
13. Ensuring proper lashing of the components while being transported in vehicles.
14. The vehicle must have side supports or have body to support the materials conveyed.
15. Materials should not be allowed to overhang from the rear edge of the body of the vehicle.
16. Materials should not be allowed to extend or overflow over the sides of the vehicle.
17. Driver must have the proper licence.
18. Vehicle must not be over-loaded than the prescribed.
19. Red flags and lights for parts projecting from the body of the vehicles must be provided.
20. The speed restriction within the factory premises must be strictly adhered to.
21. The gas cylinders must always be handled on trolleys or kept tied down when not in use. They should never be rolled or used as roller for conveying. They should not be used without regulators. The gas cylinders should not be left on the roads or at work centre after completion of work.
22. Gas cylinders with proper caps only will be allowed inside the factory for works.
23. All excavations must be barricaded and red lamps must be provided.
24. The Contractor and his workmen should cover under Employees State Insurance Scheme in addition to other insurance benefits.
25. Contractors should engage workers of age of above 18 years and below 50 years.
26. HOUSE KEEPING
 - a) The Contractors must try to kept their work areas neat and clean.
 - b) All unwanted materials should be removed then and there.
 - c) The work area must be made clean after completion of work.
 - d) The waste and other scrap materials should be put into the respective bins.
 - e) The drying of personal clothing inside the plant is prohibited.
27. PERMIT SYSTEM

Working above 3 meter elevavtion is considered as WORKING AT ELEVATION for which proper care has to be taken y the contractor for the safety of their crew. Necessary safety belt or life line, working platform with toe # board and handrail should be provided for continuous working at heights.

Before starting the work at height (above 3 mtrs), the Contractor must obtain permit to work from all the agencies concered including Safety Engineering Department.

Before entering into confined space, a clearance should be obtained from Safety Engineering Department.

Such work should be carried out in the presence of a responsible person.

While carrying out welding or gas cutting work inside cellars and tunnels, Fire Service section should be kept informed.

The contract workmen should not be allowed to enter hazardous and prohibited areas without permission from respective department.

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ANNEXURE-A1

No deviation and Declaration to be given by vendor in vendor's letter head

Name of work:

Enquiry no.....

I/We, have read and clearly understood all the Terms and conditions in Tender Schedule of and accordingly accept the same without any deviation what so ever.

I/ We unconditionally agree to all the tender conditions and no new conditions are imposed by us in the technical / price bid. I understand in the event of imposing any condition in the technical / price bid, such condition would be ignored by BHEL and only the prices will be considered for the purpose of evaluation”

I/ We confirm that none of our group concern or affiliates etc., appears on the list of banned firms / companies by BHEL (list available on www.bhel.com) nor any of the Director / Partner / proprietor of bidder / such group concern or affiliate etc. are involved with such company.

I/ We also declare that, we have not been suspended or black listed or issued with Show Cause Notice by BHEL- Trichy or any other BHEL Unit or any PSU/ Government organization.

I/ We confirm that other than us, none of our group concerns or affiliates etc. are participating in the tender either directly or indirectly through any other agency under same proprietor / common director(s) / common partner(s).

I/ We confirm that if any of the above statement / information furnished by us in this tender is found to be false/ fake at any stage of tender evaluation or during execution of contract, BHEL will have the right to initiate appropriate action including legal proceeds / termination of contract, recovery of damages, penalties etc. as deemed fit.

Yours Sincerely,

Signature of the Bidder with date & Seal

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ANNEXURE-A2

SD PAYMENT VIDE E-COLLECT

This explains how to make Payments to BHEL- Tiruchirappalli and through SBI-Ecollect. Vendors (SD Payments payable by others) can utilise this facility. Payments can be made using Internet Banking, Debit Cards/Credit Cards etc. SBI Charges a minimum amount for every transaction. This may vary according to the MODE selected.

STEP-BY-STEP PROCEDURE:

Login to <https://www.onlinesbi.sbi/>

1. Select State Bank Collect available on the top (pre login page)
2. Accept the terms and conditions and click "PROCEED"
3. Select State "TAMILNADU "and Institution type "INDUSTRY ".
4. Select "BHEL TRICHY under "INDUSTRY".
5. In the next page, Select APPROPRIATE category, fill details correctly & click "SUBMIT".
6. If all details entered are correctly populated, click "CONFIRM" to proceed.
7. Make payment as per your convenience. (Options available are payment of fees through SBI Net Banking, State Bank ATM cum Debit Cards / Other Bank Debit / Credit Cards and through SBI Branches).
8. SAVE & Keep the copy of receipt for future reference.

HOW TO TAKE RECEIPT FOR A PAYMENT MADE, EVEN ON A LATER DATE:
(PLEASE CHECK THE STATUS BEFORE MAKING PAYMENT SECOND TIME)

1. Login to www.onlinesbi.sbi
2. Select State Bank Collect available on the top (pre login page)
3. Accept the terms and conditions and click "PROCEED"
4. Select "PAYMENT HISTORY "option available on the left side of screen.
5. Using two options as mentioned below, you can get the receipt:
 - a. Type the same Date of Birth, Mobile Number that you have entered at the time of making payment through SB collect. Select the date range and submit.
 - b. If you know the reference number, then enter the Reference number (DU...) along with anyone information (Date of Birth / Mobile number, which you have entered at the time of making payment). Select the date range and submit.

1. In the next page, take print out of receipt.

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ANNEXURE-A3

The tender must be signed digitally / physically by Proprietor/ Managing Partner/ Director of the Firm. If any other person is authorized to sign the tender, this copy of Power of Attorney must accompany the tender.

POWER OF ATTORNEY

(To be typed on company's letter head)

I/We do hereby make, nominate, constitute and appoint Mr, whose signature given below herewith to be true and lawful Attorney of M/s hereinafter called 'Company', for submitting Tender and inter alia, sign, execute all papers and to do necessary lawful acts on behalf of our Company with M/s Bharat Heavy Electricals Ltd, HPBP, TRICHY- 620 014, in connection with (Name of work)

.....

vide Tender Enq No: _____, dated _____. And the Company do hereby agree to ratify and confirm all acts, deeds, things or proceedings as may be lawfully done by the said attorney and by or on behalf of the company and in the name of the company, by virtue of the powers conferred herein and the same shall be binding on the company and shall have full force and effect.

Director/CMD/Partner/Proprietor

Signature of Mr(Attorney)

Attested by: Director/CMD/Partner/Proprietor

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ANNEXURE-A4

Illustration for arriving the rates for individual items of BoQ by BHEL for the total amount quoted by the vendor:

Contractor shall only quote the total amount for the work and not the individual rates for every item of BoQ. The amount quoted shall include all taxes except Goods & service tax. Applicable Goods & service tax would be paid extra.

The rates for the individual items of BoQ would be arrived by BHEL as follows: -

In this illustration, assume there are 2 items in the BoQ and the respective quantity and Percentage allocation is specified as below:

Item	Quantity	Unit	% allocated
1	500	Each	60%
2	400	Each	40%

If the total amount quoted by a vendor is 1,00,000/- (One lakh) for the entire package,

Then,

Rate per unit for Item 1 would be arrived as = $(₹1,00,000 \times 60\%) / 500 = ₹120.00/-$

In the same manner, the rate per unit, for item 2 would be arrived as follows,

Rate per unit for Item 2 = $(1,00,000 \times 40\%) / 400 = ₹100.00/-$

The rates will be rounded off to nearest two decimal places only, so as to match the total amount or closest to the total amount, quoted by the vendor. Rates so arrived by BHEL shall be final and binding on the contractor.

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ANNEXURE-A5

SITE VISIT CERTIFICATE

SCHEDULE-1: MECHANICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL / SSTP

SCHEDULE-2: ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLD MILL /SSTP

SCHEDULE-3 : MECHANICAL MAINTENANCE SUPPORT SERVICES IN COLD MILL/SSTP

(TO BE FURNISHED WITH PART I “TECHNO-COMMERCIAL BID”)

Name and Address of the Bidder:

.....
.....
.....
.....

Ref. of tender: Date:

I have seen the installed equipments, it’s associated maintenance works (Hot Mill and Cold Mill) and am completely aware of the nature and scope of work to be carried out.

Signature with Seal
(Bidder / Bidder’s representative)

The above-mentioned bidder has visited the site to assess the scope of work.

Signature with Seal
(SSTP EXECUTIVE)

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PART-II (PRICE BID) For Reference and Price break up
(BILL OF QUANTITIES)

(No value/rate shall be quoted here. Quote based on this BOQ should be given only in GeM portal)

SCHEDULE-1: MECHANICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL / SSTP

SL No	Item Description	Unit	Qty	% Allocated	Total Value Inclusive GST
SERVICE:1	Major Maintenance activities in work centers RHF to Cold Saw in Hotmill				
Service item. 10	RHF Charging/ Discharging Boom Assy. Replacement	No.	13	4.550%	BIDDER SHOULD QUOTE ONLY LUMP SUM AMOUNT (including GST) FOR FULL TENTATIVE QUANTITY
Service item.20	RHF Charging/ Discharging Torque Replacement	No.	5	1.050%	
Service item.30	RHF Charging/ Discharging Lifting Cylinder Replacement	No.	6	0.110%	
Service item.40	RHF Charging/ Discharging back trolley replacement	No.	5	0.180%	
Service item.50	MTB Rope changing	No.	6	1.050%	
Service item.60	MTB pulley dismantling and reassembly for Mtce work	No.	6	0.320%	
Service item.70	CPE Roll change	No.	19	3.320%	
Service item. 80	Changing push bench wear strip	No.	46	0.810%	
Service item. 90	Reeler Gearbox changing with 2 UJ shaft removal and re-assy.	No.	13	0.460%	
Service item. 100	SRM Drive shaft replacement with UJ shaft	No.	86	1.510%	
Service item. 110	SRM gear coupling replacement,replacing damaged fasteners	No.	126	2.210%	
Service item. 120	SRM stand cooling water coupling replacement	No.	66	0.870%	
Service item. 130	SRM exit rc group removal,servicing of damaged rollers and assy	No.	6	0.210%	
Service item. 140	HPWS replacement of NRV	No.	13	0.340%	
Service item. 150	WBF lifting cylinder replacement	No.	6	0.210%	
Service item. 160	WBF traverse cylinder replacement	No.	13	0.910%	
Service item. 170	WBF Lifting lever and tie rod connecting pin replacement	No.	6	0.210%	
Service item. 180	Cold saw carriage replacement	No.	6	0.110%	
Service item. 190	Hanging Gearbox replacement	No.	6	0.110%	
Service item. 200	Pinch Roll Chain unit replacement	No.	6	0.160%	
Service item. 210	TRG unit replacement	No.	6	0.160%	
Service item. 220	Transport Roll unit Replacement	No.	6	0.210%	
Service item. 230	Crane rope changing	No.	19	1.660%	
Service item. 240	SRM Floating shaft changing	No.	66	0.580%	
Service item. 250	SRM Gearbox changing	No.	6	0.060%	

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SERVICE:2	Servicing & Overhauling of Roller Conveyors and Gear boxes in Hotmill				BIDDER SHOULD QUOTE ONLY LUMP SUM AMOUNT (including GST) FOR FULL TENTATIVE QUANTITY
Service item. 10	Pinch Roll servicing	No.	6	0.530%	
Service item.20	Roller conveyor billet saw to CPE Inlet and alignment conveyor	No.	94	0.820%	
Service item.30	Roller conveyor push bench exit to heating grid and PRC	No.	146	1.290%	
Service item.40	Roller conveyor WBF exit to Cooling bed exit	No.	43	0.380%	
Service item.50	Roller conveyor cold saw	No.	13	0.170%	
Service item.60	TRG Servicing	No.	13	1.140%	
Service item.70	Transport roll servicing	No.	6	0.530%	
Service item. 80	Gear box small servicing	No.	94	1.230%	
Service item. 90	Gear box big servicing	No.	43	0.750%	
Service item. 100	Reeler Gearbox servicing	No.	6	0.260%	
Service item. 110	Hydraulic cylinder servicing	No.	43	0.940%	
Service item. 120	Pneumatic cylinder servicing	No.	43	0.750%	
Service item. 130	UJ shaft servicing	No.	43	0.560%	
Service item. 140	CRT/DRT servicing	No.	43	1.130%	
Service item. 150	Servicing RHF combustion blower	No.	6	0.100%	
Service item. 160	servicing RHF atomising blower	No.	6	0.100%	
Service item. 170	servicing RHF nose cooling blower	No.	6	0.100%	
Service item. 180	servicing RDF Combustion blower	No.	6	0.100%	
Service item. 190	servicing WBF combustion blower	No.	6	0.100%	
Service item. 200	Servicing WBF atomising blower	No.	6	0.100%	
Service item. 210	Servicing SRM ventillation blower	No.	6	0.100%	
Service item. 220	Servicing WBF ID fan	No.	6	0.100%	
Service item. 230	RHF support roller/ centering roller servicing	No.	138	2.420%	
Service item. 240	SRM drive shaft servicing	No.	43	2.260%	
Service item. 250	Gear pump servicing	No.	28	0.980%	
Service item. 260	Hydraulic pump servicing	No.	28	0.980%	
Service item. 270	Scale pit pump servicing	No.	13	1.140%	
SERVICE:3	Maintenance Support Service Works in Hotmill				
Service item. 10	All kinds of Fasteners Tightening / Replacement	No.	60,059	5.290%	
Service item.20	Tightening / Replacement of Foundation Bolts of mounting base frames M36 & above	No.	162	0.060%	
Service item.30	Mass Tightening / Replacement of Bolts on Structures, cross bars etc. (MBHG bolts Cooling Bed bolts, Railing facility bolts etc.)	No.	805	0.070%	

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Service item.40	RC foundation bolt locking with castle nut & split pin (Setting, Marking, Removing, drilling, Debarring, Fixing & Locking with split pin)	No.	162	0.850%
Service item.50	Replacement of Serviced roller assembly (Dismantling, Erection, Alignment, Area cleaning, Movement of Roller from and to Hot mill reconditioning area)	No.	162	0.430%
Service item.60	RC Coupling insert changing without disturbing gear box	No.	61	0.110%
Service item.70	RC Coupling insert changing by disturbing gear box	No.	27	0.050%
Service item. 80	Alignment of idle roller (including alignment respect to adjacent rollers & angle correction in case of swivel base roller)	No.	27	0.050%
Service item. 90	Alignment of driven roller (including alignment with respect to adjacent rollers & angle correction in case of swivel base roller)	No.	61	0.800%
Service item. 100	Gear box changing including coupling half of geared motor unit	No.	162	3.530%
Service item. 110	Motor changing in geared motor unit	No.	38	0.800%
Service item. 120	Changing of geared motor unit along with coupling half including oil topping	No.	38	1.000%
Service item. 130	Changing of coupling half in RC Motor	No.	38	0.330%
Service item. 140	Changing of coupling set in RC motor	No.	80	0.980%
Service item. 150	Providing Arresting pieces in roller bearing blocks (Preparation & Welding)	No.	80	0.280%
Service item. 160	Servicing & Replacement of valves in Hot mill furnaces up to 2 ½" NB	No.	4	0.040%
Service item. 170	Servicing & Replacement of valves in Hot mill furnaces above 2 ½" NB up to 6" NB	No.	4	0.060%
Service item. 180	Servicing & Replacement of valves in Hot mill furnaces above 6" NB up to 10" NB	No.	4	0.070%
Service item. 190	Servicing & Replacement of valve in Hot mill furnaces above 10" NB up to 16"NB	No.	23	0.600%
Service item. 200	Servicing & Replacement of valves in Hot mill furnaces above 16" NB up to 22" NB	No.	4	0.140%
Service item. 210	Servicing & Replacement of Burner in Hot mill furnaces	No.	9	0.160%
Service item. 220	Replacement of Burner in Hot mill furnaces	No.	9	0.160%
Service item. 230	RHF: Replacement of Centering roller Assy.	No.	9	0.160%
Service item. 240	RHF: Adjustment of Centering roller Assy.	No.	9	0.160%
Service item. 250	RHF: Dimension checking of Centering roller Assy.(Eight roller assemblies dimensions to be checked at time)	No.	19	1.000%
Service item. 260	RHF: Replacement & Tack welding of Hearth shim	No.	28	1.470%
Service item. 270	RHF: Positioning & Tack welding of Hearth shim	No.	28	1.470%
Service item. 280	RHF: Dismantling of Hearth rack segment	No.	4	0.280%
Service item. 290	RHF: Replacement of Hearth rack segment	No.	4	0.280%
Service item. 300	RHF: Replacement of SS sputs (Pin) in charging./discharging. M/c	No.	9	0.160%

**BIDDER SHOULD
QUOTE ONLY
LUMP SUM
AMOUNT
(including GST)
FOR FULL
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Service item. 310	RHF: Replacement of Rack segment (with corner piece welding) in charging M/c	No.	9	0.160%
Service item. 320	RHF: Alignment of Pinion in charging./discharging. M/c	No.	4	0.140%
Service item. 330	RHF: Water leakage arresting by welding in (front portion with SS rod) charging/discharging. M/c.	No.	4	0.070%
Service item. 340	RHF: Water hose changing in charging./discharging. M/c below 3Ms. Long	No.	23	0.200%
Service item. 350	RHF: Water hose changing in charging./discharging. M/c above 3Ms. Long	No.	23	0.280%
Service item. 360	RHF: Fuel oil hose changing in Inner zone.	No.	28	0.150%
Service item. 370	RHF: Fuel oil hose changing in outer zone.	No.	28	0.100%
Service item. 380	RHF: Replacement of serviced supporting roller assy.	No.	4	0.070%
Service item. 390	De-scalar: Replacement of Nozzle	No.	19	0.170%
Service item. 400	RDF: Alignment / Replacement of Sprocket in charging discharging roller assy.	No.	4	0.110%
Service item. 410	RDF: Changing of full chain for the above	No.	4	0.070%
Service item. 420	RHF: Changing Pneumatic cylinder Pin in heating area	No.	4	0.110%
SERVICE:4	Maintenance of Water Trough and Dipper Casting in RHF			
Service item. 10	Replacement of inner and outer water trough	No.	319	5.020%
Service item.20	Replacement of inner and outer kerb casting	No.	354	2.790%
Service item.30	Replacement of inner and outer dipper plates	No.	566	1.490%
Service item.40	Flushing of trough water pipe lines	No.	8	0.240%
SERVICE:5	Pipeline Works for Hydraulic, Lubrication, Fuel, Water and Pneumatic air			
Service item. 10	PIPING/metre for NB 6 to 30 LP	M	2,923	0.770%
Service item.20	SMOOTH/SECTION BEND 30/45/90 for NB 6 to 30 LP	No.	1,218	0.530%
Service item.30	WELDING of PIPE JOINT/TEE/WELD ON NIPPLE of NB 6 to 30 LP	No.	1,705	0.900%
Service item.40	Screwed/valve fitting/ready made clamp of NB 6 to 30 LP	No.	1,461	0.510%
Service item.50	PIPING/metre for NB 40 to 80 LP	M	6,747	2.370%
Service item.60	SMOOTH/SECTION BEND 30/45/90 for NB 40 to 80 LP	No.	2,265	1.980%
Service item.70	WELDING of PIPE JOINT/TEE/WELD ON NIPPLE of NB 40 to 80 LP	No.	1,437	0.750%
2547Service item. 180	Screwed/valve fitting/ready made clamp of NB 40 to 80 LP	No.	2,547	2.230%
Service item. 90	PIPING/metre for NB 100 to 150 LP	M	1,456	0.510%
Service item. 100	SMOOTH/SECTION BEND 30/45/90 for NB 100 to 150 LP	No.	609	0.530%
Service item. 110	WELDING of PIPE JOINT/TEE/WELD ON NIPPLE of NB 100 to 150 LP	No.	330	0.290%
Service item. 120	Screwed/valve fitting/ready made clamp of NB 100 to 150 LP	No.	842	0.740%
Service item. 130	Flange joint of NB 100 to 150 LP	M	203	0.180%

BIDDER SHOULD QUOTE ONLY LUMP SUM AMOUNT (including GST) FOR FULL TENTATIVE QUANTITY

NAME OF WORK: SERVICE CONTRACT FOR MECHANICAL, ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLDMILL SSTP BHEL- TRICHY

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Service item. 140	PIPING/metre for NB 200 to 400 LP	No.	9	0.010%
Service item. 150	SMOOTH/SECTION BEND 30/45/90 for NB 200 to 400 LP	No.	9	0.010%
Service item. 160	WELDING of PIPE JOINT/TEE/WELD ON NIPPLE of NB 200 to 400 LP	No.	9	0.010%
Service item. 170	Flange joint of NB 200 to 400 LP	No.	9	0.010%
Service item. 180	PIPING/metre for NB 6 to 30 HP	M	1,461	1.280%
Service item. 190	SMOOTH/SECTION BEND 30/45/90 for NB 6 to 30 HP	No.	574	0.190%
Service item. 200	WELDING of PIPE JOINT/TEE/WELD ON NIPPLE of NB 6 to 30 HP	No.	813	0.490%
Service item. 210	Screwed/valve fitting/ready made clamp of NB 6 to 30 HP	No.	379	0.100%
Service item. 220	PIPING/metre for NB 40 to 80 HP	M	1,636	0.860%
Service item. 230	SMOOTH/SECTION BEND 30/45/90 for NB 40 to 80 HP	No.	613	0.210%
Service item. 240	WELDING of PIPE JOINT/TEE/WELD ON NIPPLE of NB 40 to 80 HP	No.	905	0.240%
Service item. 250	PIPING/metre for NB 100 to 150 HP	M	9	0.010%
Service item. 260	SMOOTH/SECTION BEND 30/45/90 for NB 100 to 150 HP	No.	9	0.010%
Service item. 270	Dismantling of pipe line NB 40 TO 80 LP	M	4,988	1.310%
Service item. 280	Colour painting per coat for NB 40 to 80 LP(paint will be supplied by sstp)	No.	4,988	0.870%
SERVICE:6	General Fabrication Works			
Service item. 10	Fabrication of items in various sizes of steel plates, sections etc, as per drawing requirement & instruction.	Kg	168,605	5.900%
Service item.20	Erection of components as per site requirement & instruction.	Kg	85,781	2.260%
Service item.30	Dismantling & removal of existing components for replacement of newer / serviced parts.	Kg	85,782	1.500%

SCHEDULE-2: ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLD MILL /SSTP

SERVICE:1	Checking of Sensors & Electrical Installations				
SL No	Item Description	Unit	Qty	% Allocated	Total Value Inclusive GST
Service item. 10	Cleaning and checking of Limit switches	No.	2797	7.440%	
Service item.20	Replacing Limit switches by disconnection & reconnection	No.	63	0.167%	
Service item.30	Removing Limit switch cables by disconnection & removal. (Apprx. 15 Mtr. Cable)	No.	63	0.168%	
Service item.40	Relaying / Laying Limit switch cables and reconnection. (Apprx. 15 Mtr. Cable)	No.	63	0.168%	
Service item.50	Cleaning and checking of Proximity Switches.	No.	6219	16.539%	
Service item.60	Replacing Proximity Switch by disconnection & reconnection	No.	122	0.324%	

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Service item.70	Removing Proximity Switch cables by disconnection & removal.	No.	122	0.324%
Service item. 80	Relaying / Laying Proximity Switch cables and reconnection.	No.	122	0.324%
Service item. 90	Cleaning and checking of Hot Metal Detectors (HMD).	No.	1945	5.139%
Service item. 100	Replacing HMDs by disconnection & reconnection	No.	45	0.120%
Service item. 110	Removing HMD cables by disconnection & removal.	No.	45	0.120%
Service item. 120	Relaying / Laying HMD cables and reconnection	No.	45	0.120%
Service item. 130	Cleaning and checking of Light Barrier.	No.	2797	7.250%
Service item. 140	Replacing Light Barrier by disconnection & reconnection	No.	10	0.027%
Service item. 150	Removing Light Barrier cables by disconnection & removal	No.	10	0.027%
Service item. 160	Relaying / Laying Light Barrier cables and reconnection.	No.	10	0.027%
Service item. 170	Cleaning and checking of Encoders.	No.	2797	7.438%
Service item. 180	Replacing Encoder by disconnection & reconnection	No.	71	0.189%
Service item. 190	Removing Encoder cables by disconnection & removal.	No.	71	0.189%
Service item. 200	Relaying / Laying Encoder cables and reconnection.	No.	71	0.189%
Service item. 210	Cleaning and checking of Flow switches.	No.	2797	7.441%
Service item. 220	Replacing Flow switch by disconnection & reconnection	No.	63	0.168%
Service item. 230	Removing Flow switch cables by disconnection & removal.	No.	63	0.168%
Service item. 240	Relaying / Laying Flow switch cables and reconnection	No.	63	0.168%
Service item. 250	Cleaning and checking of Pressure switches.	No.	3111	8.169%
Service item. 260	Replacing Pressure switch by disconnection & reconnection	No.	71	0.189%
Service item. 270	Removing Pressure switch cables by disconnection & removal.	No.	71	0.189%
Service item. 280	Relaying / Laying Pressure switch cables and reconnection	No.	71	0.189%
Service item. 290	Giving connection to three phase RC motors	No.	357	0.950%
Service item. 300	Disconnection of three phase RC motors	No.	357	0.926%
Service item. 310	Giving connection to Fans, Man coolers, exhaust fans	No.	22	0.058%
Service item. 320	Disconnection of Fans, Man coolers, exhaust fans	No.	22	0.058%
Service item. 330	Giving connection to the welding machines	No.	22	0.058%

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Service item. 340	Disconnection of welding machines	No.	22	0.058%
Service item. 350	Giving connection to single phase pump motors	No.	22	0.059%
Service item. 360	Disconnection of single phase pump motors	No.	22	0.061%
Service item. 370	Providing temporary lighting (flood lights)	No.	71	0.189%
Service item. 380	Disconnecting temporary lighting (flood lights)	No.	71	0.189%
Service item. 390	Replacing single phase power points at shop bay columns by disconnection & reconnection	No.	71	0.189%
Service item. 400	Replacing 3 phase phase power points at shop bay columns by disconnection & reconnection	No.	71	0.189%
Service item. 410	Replacing intercom phones at work stations by disconnection & reconnection	No.	71	0.189%
SERVICE:2	Lighting Works			
Service item. 10	Baylight 400W assembling and testing	No.	526	1.433%
Service item.20	Flood light 250W assembling and testing	No.	261	0.711%
Service item.30	Installation of bay light (400W)	No.	526	1.433%
Service item.40	Installation of flood light (250W)	No.	261	0.711%
Service item.50	Instalation of 36W tube light	No.	1322	3.603%
Service item.60	Installation of ceiling /cabin/wall mount fan	No.	261	0.711%
Service item.70	Switch boxes assembling	No.	119	0.324%
Service item. 80	Installation of 8 way distribution box	No.	54	0.147%
Service item. 90	Installation of 16 way distribution box	No.	11	0.030%
Service item. 100	Conduit piping and wiring (mtrs)	M.	7942	24.754%

SCHEDULE-3 MECHANICAL MAINTENANCE SUPPORT SERVICES IN COLD MILL/SSTP

SERVICE:1	LT Wheel Assembly maintenance in Cranes				
SL No	Item Description	Unit	Qty	% Allocated	Total Value Inclusive GST
Service item. 10	Crane wheel changing dia 630 mm In electrically overhead travelling cranes: Removal of worn-out longitudinal travel wheel , fixing and alignment with respect to verticality & inline with the adjacent wheel of longitudinal travel -both at drive and non-drive sides.	No.	16	2.870%	

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Service item. 20	Crane wheel changing dia 500 mm In electrically overhead travelling cranes: Removal of worn-out longitudinal travel wheel , fixing and alignment with respect to verticality & inline with the adjacent wheel of new longitudinal travel – both at drive and non-drive sides.	No.	49	8.830%	BIDDER SHOULD QUOTE ONLY LUMP SUM AMOUNT (including GST) FOR FULL TENTATIVE QUANTITY
Service item. 30	Crane wheel changing dia 250 mm In electrically overhead travelling cranes: Removal of worn-out longitudinal travel wheel , fixing and alignment with respect to verticality & inline with the adjacent wheel of new longitudinal travel – both at drive and non-drive sides.	No.	7	0.790%	
SERVICE:2	Maintenance of Radiant Tubes in Coldmill Furnaces				
Service item. 10	Radiant tube replacing in both furnaces Replacement of radiant tube in 5T & 7.5 T furnaces includes; removal of recuperator line, combustion air line, removal of radiant tube, support channels, hanger rods, repair work at the top portion of the radiant tube mounting location inside the furnace and refixing them in the same sequence	No.	137	14.390%	BIDDER SHOULD QUOTE ONLY LUMP SUM AMOUNT (including GST) FOR FULL TENTATIVE QUANTITY
Service item.20	Replacing of damaged H.rod & channels in In 5T.furnace . Replacement of damaged hanger rods and support channels with new. One set consists of 1 no support channel & 3 nos hanger rods	SET.	61	2.680%	
Service item.30	Replacing of damaged H.Rods & channels I In 7.5T furnace replacement of damaged hanger rods and support channels with new	SET.	61	2.680%	
Service item.40	Heating zone roller replacing in5TF Replacement of heating zone rollers in 5T furnace includes; removal of drive sprocket, both side bearing housing and removal of damaged rollers. Inserting new rollers, cleaning, servicing and mounting the bearing housing and fixing the drive sprocket.	No.	33	3.360%	
Service item.50	Heating zone roller replacing in 7.5TF Replacement of heating zone rollers in 7.5 T furnace includes: Removal of drive sprocket, both side bearing housing and removal of damaged roller. Inserting new rollers, cleaning, servicing and mounting of both side bearing housing and fixing the drive sprocket	No.	54	5.500%	
Service item.60	Radiant tube puncture checking in7.5TF Radiant tube puncture checking by compressed air filling after dismantling recuperator once in 3 months - 4times/year- 30 Nos.radiant tubes for 7.5 T furnace.	No.	68	3.250%	
Service item.70	Radiant tube puncture checking in 5TF In 5T. furnace all radiant tubes to be checked for crack or puncture by filling compressed air at 5Kg/Sq.Cm. after dismantling recuperator and burner, once in 3 months-4 times per year; radiant tube-20 Nos. (4X20=80 Times).	No.	68	2.930%	

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Service item. 80	Stuck up tubes removal in both furnaces. In both furnaces struck up tube removal by gas cutting 1 to 10 Nos. with removal of radiant tubes (2Nos. max.) and cooling tube bundles (4 Nos. max.) other than Sl.No.1, & Sl.No. 8, and re-fixing the radiant tube-6 times /year.	No.	70	4.000%
Service item. 90	Deflector plate welding 1 m length	No.	40	1.910%
Service item. 100	Cooling tube bundle replacing in both furnaces	No.	40	1.910%
Service item. 110	REPAIRING OF FURNACE RADIANT TUBER EPAIRING OF FURNACE PUNTURED RADIANT TUBE WORK	No.	26	5.090%
SERVICE:3	Maintenance Support Service Works in Coldmill			
Service item. 10	Cleaning and preparation of Boiler T 4463 forhydro testing, by Boiler Inspectorate. Re-commissioning of the boiler to working condition after inspection.	LMS	1	0.330%
Service item.20	Cleaning and preparation of Boiler T 4464 for hydrotesting, by Boiler Inspectorate. Re-commissioning of the boiler to working condition after inspection.	LMS	1	0.330%
Service 4item.30	Dismantling, cleaning, re-fixing/replacing of worn out filter bags in KR-75 straightening machine I and II. dust collector. Which is located at outer area at eastern side of Cold Mill FG bay. Containing 108 Nos. filter bags 150mm diameter and 2500 mm long in each unit. Totally 2X108) 216 Nos. clean	No.	12	0.570%
Service item.40	Dismantling, cleaning, re-fixing/replacing of worn out filter bags in the dust collectors located in SFW-I, II, III and IV machines. 16 Nos. filter bags 150 mm diameter and 1000 mm long in each unit. Totally (4X16) 64 Nos. cleaning to be carried out 6 times per year, at equal time period	No.	48	0.230%
Service item.50	Dismantling,cleaning,re-fixing of worn out filter bags in dust collector located in cold NDT I and II.Size of the filter bags 150 mm diameter 1000 mm long (2x5) 10 Nos.cleaning to be carried out 6 times per year,at equal time period.	No.	24	0.570%
Service item.60	All kinds of fasteners tightening / replacement	No.	4800	8.450%
Service item.70	Fasteners tightening / replacement upto M24	No.	443	0.780%
Service item. 80	Fasteners tightening / replacement aboveM24, upto M46	No.	443	0.780%
Service item. 90	Tightening / Replacement of foundation bolts of mounting base frames M36 & above	No.	220	0.390%
Service item. 100	Mass Tightening / Replacement of bolts on structures, guides etc	No.	445	0.780%
Service item. 110	Replacement of pneumatic valves 1/4" , 1/2" , 3/4" , 1"	No.	221	0.390%

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Service item. 120	Replacement of pneumatic hoses 1/4" , 1/2" , 3/4" , 1"	M.	1305	2.300%
Service item. 130	Replacement of hydraulic valves 6,8,10,24 and 32	No.	108	0.190%
Service item. 140	Replacement of hydraulic hoses	M	443	0.780%
Service item. 150	Replacement of full chain size 1/2" to 3/4" pitch - 3m length	M	108	0.190%
Service item. 160	Replacement of full chain size 1" to 1-1/2" pitch - 3m length	M	221	0.390%
Service item. 170	Replacement of full chain size 1-3/4" to 2-1/2" pitch - 3m length	M	221	0.390%
Service item. 180	Replacement of chain link size 1/2" to 3/4" pitch	No.	108	0.190%
Service item. 190	Replacement of chain link size 1" to 1-1/2" pitch	No.	108	0.190%
Service item. 200	Replacement of chain link size 1-3/4" to 2-1/2" pitch	No.	108	0.190%
Service item. 210	Replacement / tension adjustment of v-belt 1000mm to 2600 mm long	Set	26	0.050%
Service item. 220	Replacement / tension adjustment of v-belt 2600mm to 5000 mm long	Set	26	0.050%
Service item. 230	Replacement / adjustment of tie rods size M16 to M30	No.	108	0.190%
Service item. 240	Replacement / adjustment of tie rods size M36 to M80	No.	108	0.190%
Service item. 250	Collecting trough wood removal and replacing	No.	1112	1.960%
Service item. 260	Servicing of heat exchangers and re-fixing	No.	13	0.030%
Service item. 270	Roll down skid wood fixing / replacing	No.	221	0.390%
Service item. 280	servicing of water pumps	No.	52	0.090%
Service item. 290	servicing of pneumatic pumps	No.	17	0.030%
Service item. 300	servicing of hydraulic pumps	No.	26	0.050%
Service item. 310	Removal and replacing of water pumps	No.	52	0.090%
Service item. 320	servicing of idle roller assy (on shop floor	No.	108	0.190%
Service item. 330	servicing of driver roller assy. (Note: in case of driver roller (on line) servicing includes dismantling & re-fixing of motor unit	No.	52	0.090%
Service item. 340	Alignment of Driven roller assy. (on shop floor) Note: In general for on line rollers alignment with respect to adjacent rollers preparation & providing suitable shims are part of the work	No.	52	0.100%
Service item. 350	RC coupling & inserts changing	No.	108	0.210%
Service item. 360	Pumps coupling & insert changing	No.	108	0.210%
Service item. 370	Geared motor gear box servicing (on shop floor)	No.	39	0.070%

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Service item. 380	Gear box changing including coupling half of geared motor unit	No.	52	0.100%
Service item. 390	Motor changing in geared motor unit	No.	52	0.100%
Service item. 400	Changing of geared motor unit along with coupling half including oil topping	No.	52	0.100%
Service item. 410	Changing of coupling half in 600 KN, 315 KN, 500 KN & 800 KN	No.	17	0.030%
Service item. 420	Changing of coupling complete in 600 KN, 315 KN, 500 KN & 800 KN	Set	17	0.030%
Service item. 430	Providing arresting pieces in roller bearing blocks (preparation & welding)	No.	108	0.210%
Service item. 440	Back haul rope changing in 315 KN Draw bench 30mm dia	Set	4	0.010%
Service item. 450	Trolley rope changing in 500 & 600 KN Draw Benches	M	1653	3.150%
Service item. 460	Trolley rope tensioning in 500 & 600 KN Draw Benches	Times	221	0.420%
Service item. 470	Chain link replacing and connecting in 315 KN draw bench. Size 3-1/2"	No.	221	0.420%
Service item. 480	Chain link replacing and connecting in 800 KN draw bench. Size 7"	No.	221	0.420%
Service item. 490	Removal, servicing & refixing of damper in Cold Mill furnaces above dia 500mm	No.	26	0.050%
Service item. 500	Removal, servicing & refixing of damper in Cold Mill furnaces above dia 500mm upto 1000mm	No.	17	0.030%
Service item. 510	Servicing & Replacement of valves in Cold Mill upto 2 1/2" NB	No.	34	0.060%
Service item. 520	Servicing & Replacement of valves in Cold Mill above 3" NB upto 6" NB	No.	34	0.060%
Service item. 530	Servicing & Replacement of BURNER IN Cold Mill furnaces	No.	43	0.080%
Service item. 540	Replacement of Burner in Cold Mill furnaces	No.	52	0.100%
Service item. 550	5T furnace-servicing of roller assy.	Set.	43	0.080%
Service item. 560	7.5 T/F Dimension checking of roller assy (Eight roller assemblies dimensions to be checked at time)	Times	65	0.120%
Service item. 570	Changing Pneumatic cylinder size upto 4" diameter	No.	108	0.210%
Service item. 580	Changing Pneumatic cylinder size upto 8" diameter	No.	43	0.080%
Service item. 590	Changing Pneumatic cylinder size upto 14" diameter	No.	17	0.030%
Service item. 600	Replacement of coupling bolt in 50T, 60T, 80T Draw benches	No.	221	0.420%
Service item. 610	Replacement of coupling bolt in all cranes : LT, CT, Hoist	No.	654	1.250%
Service item. 620	Hoist rope changing in crane and in pickling plant, size 12mm dia	M	2675	5.100%
Service item. 630	Hoist rope changing in cranes, size 18mm dia	No.	891	1.700%

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NAME OF WORK: SERVICE CONTRACT FOR MECHANICAL, ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLDMILL SSTD BHEL- TRICHY

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Service item. 640	KR75: Replacement of worn out vulcan liners	No.	26	0.060%	ONLY LUMP SUM AMOUNT (including GST) FOR FULL TENTATIVE QUANTITY
Service item. 650	KR75: Replacement of worn out WEAR STRIPS	No.	221	0.420%	
Service item. 660	KR75: Changing of conveyor roller assembly	No.	221	0.420%	
Service item. 670	KR75: Replacement of U/J shaft	No.	52	0.100%	
Service item. 680	KR75: Replacement of worn out U/J shaft bolts and nuts	No.	456	0.870%	
Service item. 690	CNDT Replacement of triple rollers	No.	113	0.220%	
Service item. 700	CNDT conveyor roller servicing and replacing	Set	113	0.220%	
Service item. 710	Removal and replacing of pneumatic pumps	No.	17	0.030%	
Service item. 720	Removal and replacing of hydraulic pumps	No.	30	0.060%	
Service item. 730	Servicing of idle roller assy (Online) Note: In general servicing means dismantling parts, reassembling & lubrication properly	No.	108	0.210%	
Service item. 740	Gearbox replacement in KR75, New KR	Times	65	0.120%	
Service item. 750	Gearbox replacement in 600 KN, 500KN, N/F & T/F	Times	65	0.120%	
Service item. 760	Hoist brake unit replacement in cranes	No.	17	0.030%	
Service item. 770	LT Brake unit replacement in cranes	No.	17	0.030%	
Service item. 780	Hoist gear box replacement in crane	No.	21	0.040%	
Service item. 790	LT Gear box replacement in crane	No.	21	0.040%	
Service item. 800	CT Gear box / Brake replacement in crane	No.	17	0.040%	
Service item. 810	Pickling transfer car I (Charging) - complete drive replacement - brake, shaft, coupling, gear box, motor, etc	Set.	8	0.020%	

Note: Do not write any amount/ values here. (Quote should be given only in GeM portal).

GRAND TOTAL i.e. Total lumpsum value for the work, for each item based on this BOQ, given for the total contract duration of 12 months, including all the taxes (inclusive of applicable Goods & Service Tax), should be given only online in **GeM** portal.

Contracts will be awarded on a schedule basis to the respective L1s.

Note:

1. Total lumpsum amount quoted by vendor online, is for all the items in BOQ, for the quantity indicated, for the total contract duration as per tender.
2. The amount should be quoted inclusive of all taxes and duties levied or to be levied both by Central and State Government authorities from time to time, with inclusive of applicable GST. Goods & Service Tax (GST) will be paid extra on production of documentary evidence.
3. The contractor shall quote only the lowest possible amount that can be offered for the intended quantity. Rate for individual items of BOQ will then be arrived by BHEL, as per Annexure-A4 in Technical bid. Quotation should be valid for a period of 120 days from the date of Technical bid opening.
4. The amount quoted shall remain firm and valid during the entire period of contract (including extended period if any) and no extra payment will be reimbursed to the contractor by BHEL.

**NAME OF WORK: SERVICE CONTRACT FOR MECHANICAL, ELECTRICAL MAINTENANCE
SUPPORT SERVICES IN HOTMILL AND COLDMILL SSTP BHEL- TRICHY**

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5. The tenderer by participating in this tender, hereby confirms they had read and accepted all the Terms and Conditions in Tender Schedule, also amount quoted with inclusive of any taxes and duties levied except Goods & Service Tax (GST) etc. has been considered by the tenderer for the total contract period.
6. No other pre conditions along with your offer will be entertained by BHEL.
7. The contractor while quoting shall take care of units specified against every item in bill of quantities.
8. Evaluation of the offer shall be done on "Net Cash outflow to BHEL after taking into account applicable Taxes and Duties" and overall (package) L1 basis. The L1 position based on the quoted values (subject to calculations) including applicable Goods & Services tax (GST), will not necessarily mean L1 for a vendor, but the net liability to BHEL, after considering the Goods & Services tax (GST) criteria for all the vendors who had participated in the tender. In case of exemption from the payment of Goods & Services tax (GST), the vendor has to submit a declaration along with the tender. For such exempted vendor, Vendor cannot claim GST from BHEL, during the execution of the contract (if awarded) even if their status under GST changes to regular taxpayer.

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TECHNICAL BID FORM (Part-I)				
Note: All relevant details should be filled by bidder and the same documents to be uploaded in GeM portal. Ref tender document for details.				
Sl. No	DESCRIPTION	RESPONSE	ATTACHMENT IN ONLINE PORTAL	APPLICABILITY
1	Name of the Enterprise/ Company/ Firm			
2	BHEL VENDOR CODE (IF ANY)			
3	Address of the Firm/ Company			
4	Landline/Mobile number(s)			
5	EMAIL ID			
6	Name, Designation and Contact details of person signing the Tender (In case of authorized signatory, the copy of Power of Attorney (POA) should be uploaded as per Tender document)			
7	Qualifying Criteria:			
A	Proof of Status of Enterprise/ Company/ Firm : - AS APPLICABLE: •Proprietorship:- PAN/GST registration •Partnership:- Registered Partnership Deed, PAN Copy of the firm. Also, PAN copy of all partners be furnished. •Pvt Ltd. /Public Ltd. /Public Sector/ Govt. Orgn.:- Certificate of Registration/ Memorandum of Association & Articles of Association. (Copy to be uploaded in GeM portal)		MANDATORY	
B	UDYAM Registration Certificate (Copy to be uploaded in GeM Portal)		ATTACH	
C	Income Tax Registration (PAN NUMBER) (Copy to be uploaded in GeM portal)		MANDATORY	
D	GST Regn. No. (Copies to be uploaded in GeM portal)		MANDATORY	
E	% OF GST APPLICABLE TO THE VENDOR FOR THIS WORK (In case of GST exempted vendor they can put NIL)	_____ %	MANDATORY	TO BE FILLED
F	<u>FINANCIAL SOUNDNESS:</u> Average Annual financial turnover for any of the three consecutive years during the last six financial years i.e. 2017-18, 2018-19, 2019-20, 2020-21, 2021-22 & 2022-23 shall be equal to or more		MANDATORY	
G	<u>EXPERIENCE CRITERIA:</u> The bidder shall have previous experience in executing "Electrical/Mechanical Maintenance works in Industrial Production		MANDATORY	

NAME OF WORK: SERVICE CONTRACT FOR MECHANICAL, ELECTRICAL MAINTENANCE SUPPORT SERVICES IN HOTMILL AND COLDMILL SSTP BHEL- TRICHY

Enquiry No: 9472400081/ 11-09-2024 - GEM/2024/B/5349040

	area” or “Works similar in nature of Scope of work” in any Central/State Govt. organization/PSU company/Public listed company during last 8 (eight) Financial years (2016-17, 2017-18, 2018-19, 2019-20, 2020-21, 2021-22, 2022-23 & 2023-24)			
H	Acceptance to Scope of work and General Terms and conditions of Contract. (Digitally/ Physically Signed copy of Tender document to be uploaded in GeM portal)		MANDATORY	
I	No deviation & Declaration certificate (Copy to be uploaded in GeM portal as per add-A1 on bidder letter head only)		MANDATORY	
J	Bidders have to mandatorily visit plant to understand the detailed scope & nature of work, before quoting and submit site visit certificate (Annexure-D) . Offer submitted without site visit certificate will be summarily rejected		MANDATORY	
I	EPF Registration (Copy of EPF Registration to be uploaded)		MANDATORY	
J	ESI Registration (Copy of ESI Registration to be uploaded)		MANDATORY	
8	NEFT BANK FORMAT (If applicable)		ATTACH	IF APPLICABLE
9	In case of bid submitted by partnership firm, PAN of all partners to be uploaded. (Copy to be uploaded in GeM portal)		ATTACH	IF APPLICABLE
10	DISCLAIMER CLAUSE: Neither the Organization (Bharat Heavy Electricals Ltd.) nor the service provider (M/s. GeM.) is responsible for any failure of submission of bids due to failure of internet or other connectivity problems or reasons thereof. (To be agreed by bidder)		To be “AGREED” by bidder	
11	Offer should be submitted as TWO part bids (Techno-commercial bid + Price bid) in the GeM portal. Sufficient notice would be given by BHEL for corrigendum / extensions and it will be published in following websites- https://gem.gov.in/ , http://bhel.com ; After the scrutiny of techno-commercial bids, the price bids of only techno-commercially qualified offers will be opened with prior intimation. (To be agreed by bidder)		To be “AGREED” by bidder	
12	Either Principal or authorized agent shall register their Digital Signature Certificate (DSC) (Class 3- signing & encryption). Bidders are advised to go through the FAQ available in the GeM portal. DSC shall be registered for the authorized person and all transactions done using that DSC against tenders shall be taken as valid communication and shall be binding on principal/agent and is valid legally. (Kindly intimate the authorized person name, email for registering DSC with BHEL to participate in GeM-tenders). (To be agreed by bidder)		To be “AGREED” by bidder	

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13	Declaration for website downloaded and non-tampering of tender document: I/We hereby declare that I/We have downloaded the Tender Document from the website https://gem.gov.in and I/We have not tampered the tender document. In case at any stage, if it is found that the information given above is false or incorrect, BHEL shall have the absolute right to take any action as deemed fit without any prior intimation.(To be agreed by bidder)		To be “AGREED” by bidder	
14	I / We confirm that none of its group concern or affiliates etc., appears on the list of banned firms/ companies by BHEL (list available on www.bhel.com) nor any of the Director / Partner / proprietor of bidder / such group concern or affiliate etc. are involved with such company. (To be agreed by bidder)		To be “AGREED” by bidder	