



**RAJIV GANDHI THERMAL POWER PLANT, HISAR.
(HARYANA POWER GENERATION CORPORATION LIMITED)**

Registered Office - Urja Bhawan, C-7, Sector- 6, Panchkula, Haryana.

Corporate Identity Number: U45207HR1997SGC033517

Website: - www.hpgcl.org.in

E-mail:- xenchp.rgtp@hpgcl.org.in

Mobile No. 08222023835

Fax No. 01693-250555

(An ISO 9001, 14001 & OHSAS 18001 Certified Company)

E-TENDER DOCUMENTS

For

**Annual Running Contract for Operation & Maintenance of
2400 TPH Automated Coal Handling Plant at
2 x 600 MW RGTPP, HPGCL, Khedar, Hisar.**

NIT No. -- 03/RGTPP/CHP/F-473/2026-27

Dated: 27.07.2026

**Executive Engineer/CHP,
RGTPP, Khedar, Hisar.
Mobile No. 82220-23835.
E-mail:- xenchp.rgtp@hpgcl.org.in**

 HPGCL AN ISO-9001:2015 & OHSAS:18001 CERTIFIED COMPANY	RAJIV GANDHI THERMAL POWER PLANT, KHEDAR, HISAR (A Unit of Haryana Power Generation Corporation Ltd.) Regd. Office: C-7, Urja Bhawan, Sector-6, Panchkula. Corporate Identity Number: U45207HR1997SGV033517 Website: www.hpgcl.org.in Email: xenchp.rgtp@hpgcl.org.in Mobile No. 08222023835 Fax No. 01693-250555
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INDEX

Sr. No.	Annexure No.	Description	Page No.
1.		Notice Inviting e-Tendering (e-NIT)	3
2.	Annexure-I	Information Regarding Online Payment of Tender Document, e-Service & EMD Fee.	4
3.	Annexure-II	Instructions to bidder on Electronic Tendering System	5-7
4.	Annexure-III	Instruction to Bidders / Tenderer	8-11
5.	Annexure-IV	General Terms & Conditions.	12-23
6.	Annexure-V	Technical Terms & Conditions.	24-26
7.	Annexure-VI	Detailed scope of work.	27-49
8.	Annexure-VII	Detail of Equipments of CHP.	50-51
9.	Annexure-VIII	Detail of Conveyor Belts Installed at CHP.	52
10.	Annexure-IX	Scope of work of Heavy Machinery.	53-56
11.	Annexure-X	Scope of work of Marshalling Yard.	57
12.	Annexure-XI	Scope of work and General Terms And Conditions for Coal Sample Preparation Work	58-60
13.	Annexure-XII	Scope of Work of videography of sampling process of Imported Coal	61
14.	Annexure-XIII	Contract Agreement Performa	62
15.	Annexure-XIV	GST undertaking	63-64
16.	Annexure-XV	Performa for TDS / TCS	65
17.	Annexure-XVI	Acceptance Certificate	66
18.	Annexure-XVII	Statements of bidders	67
19.	Annexure-XVIII	Summary of Demurrage Charges.	68
20.	Annexure-XIX	Detail of Coal rakes received, Diesel consumed in heavy machinery, Coal quantity unloaded, Coal quantity fed to the bunkers & Station Plant Load Factor (PLF),	69
21.	Annexure-XX	Specimen Rate Quoting Sheet	70-71

 HPGCL AN ISO 9001:2015 & OHSAS 18001 CERTIFIED COMPANY	RAJIV GANDHI THERMAL POWER PLANT, KHEDAR, HISAR (A Unit of Haryana Power Generation Corporation Ltd.) Regd. Office: C-7, Urja Bhawan, Sector-6, Panchkula. <u>Corporate Identity Number: U45207HR1997SGV033517</u> Website: www.hpgcl.org.in Email: xenchp.rgtp@hpgcl.org.in Mobile No. 08222023835 Fax No. 01693-250555
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NOTICE INVITING E-TENDER

E-tenders in two parts are invited on behalf of Chief Engineer, RGTPP, HPGCL, Khedar, Hisar from reputed and experienced contractors/firms who have created login ID on the portal <https://etenders.hry.nic.in> and <http://works.haryana.gov.in> for the work as under:-

e-NIT No. / Tender Ref. No.	03/RGTPP/CHP/F-473/2026-27 dated :27.07.2026
Tender Description of work	Operation & Maintenance (O&M) along with Housekeeping/Horticulture of 2400 TPH Fully Automated Coal Handling Plant consisting of Wagon tipplers, Side arm chargers, Apron feeders, Dribble feeders, Conveyor belts, Crushers with screening units, Stacker cum Reclaimer with their associated electrical HT/LT system, C&I system including Coal sampler & Analyzer unit with O& M of Heavy Machinery i.e Locomotives, Bulldozers, Loaders, Dumpers, Excavator, Maintenance of marshalling yard including O&M of weighbridges / belt weighers and coal/biomass sampling.
Period of Contract	Three Years and extendable by another Three months at the sole discretion of HPGCL.
Start date and time of tender uploading	27.07.2026 at 17.00 Hrs.
Last date for submission of online tender	25.08.2026 at 13:00 Hrs.
Due date & time of opening of Technical bid (Part-I)	27.08.2026 at 12:00 Hrs.
Tender document Fee (Non-refundable)	Rs.1,180/-
E-service Fees (Non-refundable)	Rs.1,180/-
Earnest Money (Refundable)	Rs. 50,00,000/- (Rs. Fifty Lakh only)
Contact Information	Executive Engineer/CHP, RGTPP, HPGCL, Khedar, Hisar. Mobile No. - 8222023835. E-mail:- xenchp.rgtp@hpgcl.org.in

**Executive Engineer/CHP,
For Chief Engineer/RGTPP,
HPGCL, Khedar, Hisar.**

Information Regarding Online Payment of Tender Document, eService & EMD Fee.

1. The Bidders can download the tender documents from the Portal: <https://etenders.hry.nic.in>.
2. The Bidders shall have to pay for the Tender documents, EMD Fees & e-Service Fee online by using the service of secure electronic payment gateway. The secure electronic payments gateway is an online interface between contractors and online payment authorization networks. The Payment for Tender Document Fee and eService Fee can be made by eligible bidders/ contractors online directly through Debit Cards & Internet Banking Accounts and the Payment for EMD can be made online directly through RTGS / NEFT. For online payments, Home page of the e-tendering portal <https://etenders.hry.nic.in> may be referred.
3. The Tenderer can submit their tender documents (Online) as per the dates mentioned in the key dates.
4. The interested bidders must remit the funds at least T+1 working day (Transaction + One Day) in advance **and make payment via RTGS/NEFT or OTC to the beneficiary account number specified under the online generated challan. The intended bidder/Agency thereafter will be able to successfully verify their payment online, and submit their bids on or before the expiry date & time of the respective events/Tenders at <https://etenders.hry.nic.in>.**

Note: -

1. If the tenders are cancelled or recalled on any grounds, the tender document fees & e-service fee will not be refunded to the agency.
2. Those agency who are exempted from EMD, should submit proof of related documents at least 10 days before end date of “**Downloading of Tender Documents & Bid Preparation**” stage to **publisher of the tender i.e. concerned Executive Engineer.**

The following are exempted from depositing the earnest money: -

- i) Central/ Haryana state government agencies applying in response to the tender. Provided further that the provision of this regulation may not apply to a public sector undertaking of the central/ Haryana state government with whom separate terms regarding security deposit, if any, may be negotiated/ provided for.
 - ii) Firms borne on DGS&D /DS&D Haryana rate contracts. The exemption shall be for the specified items which are available on DGS&D/ DS&D rate contract.
 - iii) Firms registered with the Director of Industries, Haryana or registered with National Small Industries Corporation, Govt. of India. The exemption shall be on specified items which are available on Director of Industries, Haryana/ National small corporation rate contract.
 - iv) Firms borne on the HPGCL's approved list of suppliers which may have made a permanent earnest money deposit of Rs.10.00 Lacs for quoting at the respective Project/office of HPGCL, or Rs. 20 Lakh for quoting anywhere in HPGCL, if they quote the Registration number given by the respective project/office of HPGCL in their tender papers.
 - v) Bidders who have contractor ID and are registered on HEWP portal i.e., <https://works.haryana.gov.in> & also have deposited one time deposit then they are not required to deposit any earnest money and are eligible for participation in the tender by annexing bid specific Earnest Money Declaration Form
 - vi) No relaxation will be allowed to firms for exemption in Tender Fees and EMD fees other than firms detailed above. All firms are requested to deposit E-service Fees, Tender Fees and EMD fees online failing which tender shall liable to be rejected.
3. The Tenderer can submit their tender documents (Online) as per the dates mentioned in the key dates at Annexure-II.

**Executive Engineer/CHP,
For Chief Engineer/RGTPP,
HPGCL, Khedar, Hisar.**

Instructions to bidder on Electronic Tendering System

1. Registration of bidders on e-Procurement Portal:-

All the bidders intending to participate in the tenders processed online are required to get registered on the centralized e-Procurement Portal i.e. <https://etenders.hry.nic.in>. Please visit the website for more details. The bidder also needs to be registered with Haryana Engineering Works Portal (www.works.haryana.gov.in) of Govt of Haryana for participation in tender and proof of same i.e. HEW Portal ID should be enclosed with tender documents. The fee required for registration on HEW Portal is to be submitted by the bidder.

2. Obtaining a Digital Certificate:

- 2.1. The Bids submitted online should be encrypted and signed electronically with a Digital Certificate to establish the identity of the bidder bidding online. These Digital Certificates are issued by an Approved Certifying Authority, by the Controller of Certifying Authorities, Government of India.
- 2.2. A Digital Certificate is issued upon receipt of mandatory identity (i.e. Applicant's PAN Card) and Address proofs and verification form duly attested by the Bank Manager / Post Master / Gazetted Officer. Only upon the receipt of the required documents, a digital certificate can be issued. For more details please visit the website – <https://etenders.hry.nic.in>.
- 2.3. The bidders may obtain Class-II or III digital signature certificate from any Certifying Authority or Sub-certifying Authority authorized by the Controller of Certifying Authorities or may obtain information and application format and documents required for the issue of digital certificate from <https://etenders.hry.nic.in>.

For support related to Haryana Tenders in addition to helpdesk you may also contact on email ID - eproc.nichry@yahoo.com , Tel- 0172-2700275

Help Desk: 0120-4200462, 0120-4001002, Mobile-8826246593

- 2.4. Bid for a particular tender must be submitted online using the digital certificate (Encryption & Signing), which is used to encrypt the data and sign the hash during the stage of bid preparation & hash submission. In case, during the process of a particular tender, the user loses his digital certificate (due to virus attack, hardware problem, operating system or any other problem) he will not be able to submit the bid online. Hence, the users are advised to keep a backup of the certificate and also keep the copies at safe place under proper security (for its use in case of emergencies).
- 2.5. In case of online tendering, if the digital certificate issued to the authorized user of a firm is used for signing and submitting a bid, it will be considered equivalent to a no-objection certificate/power of attorney /lawful authorization to that User. The firm has to authorize a specific individual through an authorization certificate signed by all partners to use the digital certificate as per Indian Information Technology Act 2000. Unless the certificates are revoked, it will be assumed to represent adequate authority of the user to bid on behalf of the firm in the department tenders as per Information Technology Act 2000. The digital signature of this authorized user will be binding on the firm.
- 2.6. In case of any change in the authorization, it shall be the responsibility of management / partners of the firm to inform the certifying authority about the change and to obtain the digital signatures of the new person / user on behalf of the firm / company. The procedure for application of a digital certificate however will remain the same for the new user.
- 2.7. The same procedure holds true for the authorized users in a private/Public limited company. In this case, the authorization certificate will have to be signed by the directors of the company.

- 2.8. Bidders participating in online tenders shall check the validity of his/her Digital Signature Certificate before participating in the online Tenders at the portal <https://etenders.hry.nic.in>.
- 2.9. For help manual please refer to the 'Home Page' of the e-Procurement website at <https://etenders.hry.nic.in> and click on the available link 'System Requirement' to download the file.
- 2.10. Before submitting tenders the instructions may be read carefully regarding submission of tender. If any bidder finds discrepancies or omissions in the tender documents or is in doubt as to the true meaning of any part, he shall clarify same from tender issuing office in writing before the due date of submission of the bid. No arguments on this account whatsoever shall be entertained after the last date & time of submission of tenders.
3. **Opening of an Electronic Payment Account:**
- Tender document can be downloaded online. Bidders are required to pay the tender documents fees online using the electronic payments gateway service. For online payments guidelines, please refer to the Home page of the e-tendering Portal <https://etenders.hry.nic.in>.
4. **Pre-requisites for online bidding:**
- In order to bid online on the portal [https:// etenders.hry.nic.in](https://etenders.hry.nic.in), the user machine must be updated with the latest Java. The link for downloading latest java applet is available on the Home page of the e-tendering Portal.
5. **Online Viewing of Detailed Notice Inviting Tenders:**
- The bidders can view the detailed N.I.T. and the time schedule (Key Dates) for all the tenders floated through the single portal e-Procurement system on the Home Page at [https:// etenders.hry.nic.in](https://etenders.hry.nic.in).
6. **Download of Tender Documents:**
- The tender documents can be downloaded free of cost from the e-Procurement portal [https:// etenders.hry.nic.in](https://etenders.hry.nic.in).
7. **Key Dates: -**
- The tenderers can submit their tender documents (Online) as per the dates mentioned in the following format: -

Sr. No.	Department Stage	Tenderer's Stage	Start date and time	Expiry date and time
1	-	Downloading of Tender Documents & Bid Preparation	27.07.2026 at 17:00 hrs	25.08.2026 up to 13:00 hrs
2	Technical Opening (Part-I)	-	27.08.2026 at 12:00 hrs.	
3	Shortlisting of Technical bids & Opening of Price/ Financial Bid		Will be intimated to the firms on their E-mail	

The bidders are strictly advised to follow dates and times as indicated in the online Notice Inviting Tenders. The date and time shall be binding on all bidders. All online activities are time tracked and the system enforces time locks that ensure that no activity or transaction can take place outside the start and end dates and the time of the stage as defined in the online Notice Inviting Tenders.

If bidder fails to complete the Online Bid Submission stage on the stipulated date and time, his/her bid will be considered as bid not submitted, and hence not appear during tender opening stage.

8. **Bid Preparation (Technical & Financial) Online Payment of Tender Document Fee, eService fee, EMD fees of online Bids:**

- 8.1. The bidders shall have to pay for the Tender document fee, EMD fees & eService Fee online by using the service of secure electronic payment gateway. The secure electronic payments gateway is an online interface between contractors and online payment authorization networks. The Payment for Tender Document Fee and eService Fee can be made by eligible bidders/ contractors online directly through Debit Cards & Internet Banking Accounts and the Payment for EMD can be made online directly through RTGS / NEFT. For online payments guidelines, Home page of the e-tendering portal [https:// etenders.hry.nic.in](https://etenders.hry.nic.in) may be referred.
- 8.2. The bidders shall upload their technical offer containing documents, qualifying criteria, technical specification, schedule of deliveries, and all other terms and conditions except the rates (price bid) in the part-I (Technical envelope). The price bid shall be submitted in separate part-II format supplied by purchasing authority online. The committee members shall open only the part-I on schedule date of opening of technical bid. As per system settings, part-II cannot be opened on that date.
- 8.3. Submission of bids will be completed by submission of the digitally signed & sealed bid as stated in the time schedule (Key Dates) of the Tender
- 8.4. A committee nominated by officers shall evaluate all the bids for fulfillment of qualifying criteria.
- 8.5. **The bidders who does not have contractor ID on HEWP cannot participate in tendering process. Bidders who have contractor ID but have not registered on HEWP can participate in tendering process by paying the earnest money through online payment on the portal.**
- 8.6. Bidders who have contractor ID and are registered on HEWP portal i.e., <https://works.haryana.gov.in> & also have deposited one time deposit then they are not required to deposit any earnest money and are eligible for participation in the tender by annexing bid specific Earnest Money Declaration Form as per ANNEXURE of the bidding document.

9. **Tender Closing:**

After the submission of bid by the bidders, the bidding round will be closed. Once the online tender is closed, no new Vendor can bid in the tender.

10. If the tenders are cancelled or recalled on any ground, the tender document fees & e-service fee will not be refunded to the agency. However, EMD shall be refunded.
11. Bidder shall ensure that payment shall be made at least 2 days prior to last date of submission of the bid.
12. The bidder can revise his price bid any number of times but only before last date of submission of bid. All previous quotes are deleted & only the latest price quoted is visible to the purchasing authority on date of opening of price bid.
13. The bidders shall observe the highest standards of ethics during the submission of tender and execution of the contract. In case of evidence of cartel formation by the bidder(s) EMD is liable to be forfeited.
14. The bidder shall bear all costs of bank charges, if any, associated with the preparation and submission of his bid and the purchaser will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

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Instructions to the Bidders / Tenderers

All tenderers must carefully observe the following instructions and offers/tenders not strictly in accordance with these instructions will be rejected:-

1. Pre Qualifying Requirements (PQRs) / Eligibility Conditions for the tenderers:

The tender documents of only those bidders shall be considered who fulfill the following eligibility criteria and furnish duly signed/stamped documentary evidences along with the Part-I of tender in support of the same. The bidder shall furnish documentary evidence for the following:-

- a) Bidder to have successfully carried out work of erection, testing & commissioning of any Automated PLC based Coal Handling Plant of Power generating unit of 210 MW & above and should have minimum one year experience of O&M of Automated PLC based Coal Handling Plant of generating unit of 210 MW & above in HPGCL / NTPC / any SEBs / any PSUs / any corporations / Central Govt. / State Govt. / Semi Govt. or in any thermal plant during preceding 07 years ending **30.06.2026**.

OR

Bidder to have minimum 02 years experience of O&M of Automated PLC based Coal Handling Plant of generating unit of 210 MW & above in HPGCL / NTPC / any SEBs / any PSUs / any corporations / Central Govt. / State Govt. / Semi Govt. or in any thermal plant in preceding 07 years ending **30.06.2026**.

Experience of Execution of Work Order

Bidder qualifying either of above mentioned conditions must have successfully executed the Work order(s) for the same or similar item(s) during last seven years ending **30.06.2026** **having** minimum order value as under: -

- i) Single order value not less than Rs. 14.61 Crores.
- OR
- ii) Two orders of the value not less than Rs. 9.13 Crores each
- OR
- iii) Three orders of the value not less than Rs. 7.31 Crores each

- b) Bidders must have average annual turnover in last three consecutive financial years ending **31.03.2026** (F.Y. 2023-24, 2024-25 & 2025-26) shall not be less than Rs 18.27 crores (Rs. Eighteen Core Twenty Seven lac only). The firm will submit the balance sheet/ profit and loss statement duly certified by CA.

- c) The Contractor is registered under Contract Labour (Regulation & Abolition) Act, 1970 and possesses a valid labour license for deploying the workers on the work or will obtain the same within 15 days of issuance of work order.

- d) The firm should have PAN No., GST No., EPF & ESI code registration No.

- e) Firm has to certify itself for its eligibility with supporting documents to participate in the NIT stating that it is not under any default towards compliance under any of labour laws presently, however, in case at a later stage such clarification found wrong then it will lead to misrepresentation of the facts and the firm shall be treated as blacklisted on this ground and action shall be taken as per regulation 36 & 37 of the HPGCL Works & Purchase Regulations, 2015.

- f) Tenderer shall submit a certificate to the effect that the tenderer is not black listed from any Public Sector undertakings of Central Govt./State Govt./SEBs/Corporations/any other reputed thermal plant.

Note :-

- i. If the bidder has a work order for a period of more than one year, the period and the proportionate value of the order which have been completed up to **30.06.2026** (duly

supported by successful completion / execution certificate for the such period / value) shall be taken into consideration for assessing the eligibility criteria.

- ii. Average Annual turnover = Sum of the Annual Turn Over of preceding three years / 3 (As per Audited Accounts).
- iii. Other income shall not be considered for arriving at annual turnover.
- iv. In case where audited results for the last preceding financial year are not available for determining the average turnover, certification of financial statements from a practicing Chartered Accountant shall be considered acceptable.

- v. **Eligibility of the black listed firms to participate in NIT:** The firms who have been blacklisted by HPGCL or any other Centre or State Power Utility/ Board or Corporation/ or any other Thermal/Hydro Electricity project shall not be eligible to bid against the NIT of HPGCL,

However:-

- a. In case the blacklisting of the firm is for a specific plant and not for the organization as a whole then such blacklisting will not tantamount to ineligibility of the bidder.

- b. Blacklisting of the firm by any unit of HPGCL shall be considered as ineligibility of the firm at any other project of HPGCL.

- c. In case any firm was blacklisted for a limited period in past by any organization and presently such blacklisting has removed by such organization then it will not tantamount to ineligibility of the bidder.

- d. Firm has to certify itself for its eligibility with supporting documents to participate in the NIT stating that it has not been blacklisted by any organization presently, however in case at a later stage such certification found wrong then it will lead to misrepresentation of the facts and the firm shall be treated as blacklisted on this ground and action shall be taken as per regulations of the corporation.

- vi. The firm should fill statement of bidders Performa as per Annexure-XVII and submit authentic supporting documents for proving its credential. Original documents may be asked for verification at the time of finalizing the tender.

- vii. A committee nominated by officers shall evaluate all the bids for fulfilment of qualifying criteria including compliance towards labor laws by the participating bidders

- viii. Decision of the HPGCL regarding fulfillment of Pre qualification requirement shall be final and binding upon the bidders.

- 2. Conditions of the contract and other information can be had from the office of XEN/CHP (E-mail: xenchp.rgtp@hpgcl.org.in, Telephone- 8222023835) on any working day prior to last date of Downloading of Tender Documents & Bid Preparation.
- 3. The Tender Document can also be downloaded from HPGCL website www.hpgcl.org.in.
- 4. The tender will only be submitted on the centralized e-procurement portal i.e. <https://etenders.hry.nic.in>
- 5. The "Application for Bidding" along with the "Terms and conditions of the contract and its all Annexure should be submitted duly filled up completely and signed on each page by the tenderer online. Work offered should be strictly according to the specifications of scope of work and to the terms & conditions of the NIT. Unless a deviation from the specifications and terms and conditions given in NIT is pointed out by the tenderer specifically, it will be presumed that offer/ Tender conforms to the specifications and terms and conditions as laid down in NIT.
- 6. Tenders should comprise of two parts i.e. Part-I (Technical Bid) & Part-II (Price Bid)

Part - I i.e. Technical Bid: - The tenderers shall submit their tender (Part-I) containing documents for qualifying criteria etc. except the rates (price bid).

Part - II i.e. Price Bid: - It shall comprise of price bid only and will be opened at a subsequent date to be fixed by the competent authority only of those bidders who qualify the NIT requirements after checking the qualifying criteria & technical discussions on Tender Part-I. The price bid should be strictly as per rate quoting sheet.

7. RATE QUOTING SHEET

I. The tenderer will quote their rates STRICTLY AS PER THE RATE QUOTING SHEET. No deviation in terms shall be allowed.

II. **Rates:**

a) The agreed contract price will remain firm during the currency of the contract for Part-A

b) **Cost of Diesel for Heavy machinery Part-B**

Lump sum monthly charges of Diesel (based on rate per rake) for running of heavy machinery, as per scope of work of work order, which mainly includes Dozers, Loaders, locomotives, Dumpers, Poclain etc. shall be paid. The Firm shall quote diesel cost per rake in rate quoting sheet. The monthly amount i.e. number of coal rakes received in a month multiplied by cost of diesel per rake (as quoted by the contractor), will be paid in monthly running bill.

8. The offer / Tender should be online. In case there is a discrepancy between the amounts in figures and in words, the amount in words will govern. The price must be quoted in Indian Rupees and any mistake in calculating the rupee price will not justify the claim for increase in prices.

9. All tenders received against open tender enquiry irrespective of whether they are from the approved contractors on the registered list or others, shall be considered, provided they are on the prescribed form and in accordance with the tender conditions and specifications.

10. Unless exempted specifically, tenders not accompanied with the prescribed EMD/Cost of Tender shall be rejected. EMD/Cost of Tender shall be in the prescribed mode of payment as asked in the NIT, otherwise, the tender shall be liable to be rejected.

11. **The validity of the tender/offer shall be for 120 days from the date of opening of the price bid.**

Suomoto revised price bid / supplementary Part-II will not be accepted after the last date of submission of the tender. However, in case revised price bid is submitted by the bidder suomoto but prior to the due date of submission of the tender, then the revised price bid only, shall be opened and considered by the purchasing authority.

12. The rate negotiations shall be held as per Haryana state government negotiation policy in vogue.

13. No deviation shall be allowed. However, in case of deviation of taxes etc., the same be loaded for comparison purpose.

14. a. Opening of Tender:-The tenders will be opened in the office of XEN/CHP, RGTPP, HPGCL, Khedar, Hisar in the presence of authorized representative of the tenderer, if they so desire, at the time and date set for opening of tenders or in case any extension was given thereto on the extended tender opening date and time. Tenderer authorized representatives (up to two persons) may attend the opening.

b. The Price Bid (Part-II of the tender) shall be opened after Part-I of the tenders have been scrutinized and evaluated. The tenderer who's Part I have been approved, will be allowed to

participate in opening of Price Bid (Part-II). The due date and time for opening of Price Bid (Part-II) shall be informed later on.

15. The work as a whole will be allotted to a single firm whose overall quoted/equated prices are lowest for the complete work.
16. HPGCL reserves the right to cancel the NIT or to change qualifying requirement or to reject any or all the tenders so received without assigning any reason.
17. **Disqualification of the Bidders / Tenderers: -**
 - a) Even though the bidders meet the above Qualifying Criteria they are subject to be disqualified, if they have made misleading or false representations in the forms, statements and attachments submitted in the proof of the qualification requirements.
 - b) The Bidders shall supply partnership deed in case of partnership firm / Memorandum of Association and Article of Association in case of a company.
 - c) Notwithstanding anything stated above Haryana Power Generation Corporation Ltd. reserves the right to assess the tenderer's capacity to perform the contract should the circumstances warrant such assessment in the overall interest of the Haryana Power Generation Corporation Ltd. In this regard the decision of corporation will be final.
18. Tenders through Fax / E-mail / telegraphic tenders shall not be considered. Incomplete, obscure or irregular tender is liable for rejection.
19. The tender documents of only those bidders shall be considered who full fill the eligibility criteria and submit documentary evidences in support of the same along with the copy of performance certificate /repeat order from the same organization, if any.
20. Detail of Demurrage levied by Indian railways and Coal rakes received, Coal quantity unloaded, Coal quantity fed to the bunkers, Station Plant Load Factor (PLF) & diesel consumed in heavy machinery in the currently running ARC tenure are attached as Annexure-XVIII & XIX respectively. Bidder is requested to go through the same & quote their rate accordingly.
21. Selection preference of the tendered work may be allowed as per policy of the State Government to the Industrial Units located in Haryana on the lowest valid rates if tenderer so claim with requisite documentary evidence.
22. **Earnest Money: -** The Tenderer shall deposit requisite Earnest Money along with the tender to ensure that the tenderer takes up the contract in right earnest. An EMD amounting to Rs. 50,00,000/- (Rs. Fifty Lacs only) is applicable which is to be paid online through RTGS/NEFT.
 - a) The earnest money furnished by the successful tenderers on whom the work order is placed shall be adjusted against security deposit as a guarantee for faithful and satisfactory execution of the work order. EMD of unsuccessful tenderers will be refunded on finalization of contract.
 - b) No interest shall be payable on Earnest Money Deposit.
 - c) HPGCL reserves the right to forfeit Earnest Money Deposit or part thereof in circumstances which may indicate that the contractor is not earnest in executing the contract. EMD shall also be forfeited in case the bidder does not come forward for execution of the contract agreements and submission of balance security deposit.
 - d) If the tenderer withdraws his tender at any stage during the currency of his validity period, the earnest money shall be forfeited in full in such cases.

Note for the bidder:-

1. **Evaluation of Bidder: -** The evaluation for L-1 bidder will be done on the basis of total price for contract period.
2. **All the fields of Price bid shall be filled by the bidder.**

**Executive Engineer/CHP,
For Chief Engineer/RGTPP,
HPGCL, Khedar, Hisar.**

General Terms and Conditions

1. The work for O&M of CHP, RGTPP is likely to be start on or before 01.11.2026. Your firm is allowed to depute manpower 07 days prior to the date of start of contract, at your cost, to make your team familiar with CHP/RGTPP equipment/environment. No claim on account of lack of knowledge of equipment/ environment/ any other issue in this regard will be entertained at later stage. Your firm will be bound to take over the CHP/RGTPP from the date of start of contract on "**As is where is basis**".
2. The firm has to deploy sufficient manpower to carry out Operation & Maintenance of Coal Handling Plant round the clock.
 - (a) The firm will provide Site in charge having BE/equivalent qualification or Diploma Holder with experience, Shift Charge Engineers having BE/equivalent or Diploma Holder with experience, Mechanical, Electrical, C & I and Automobile Foreman (03 years diploma in Engg.), Supervisors (03 years diploma in Engg.) and sufficient Operators (03 years diploma in Engg.), Belt jointers with helpers round the clock. The site in charge, supervisor and O&M staff should have 02 years experience for O&M of Coal Handling Plant. The firm shall also deploy sufficient manpower such as Safety & Fire In-charge, fitter, welder, gas cutter, rigger, electrician and helpers to assist engineers, supervisors and operators for smooth operation and maintenance of Coal Handling Plant, heavy machinery etc. The firm will ensure that only skilled /experienced operators having valid heavy vehicle license for operating heavy machinery like Bulldozers, Loaders, Dumpers, Excavators, Locomotives, JCBs, Cranes etc. are deployed.
 - (b) Firm shall submit the documentary evidence regarding eligibility of the desired manpower as per 2(a) above along with the first running bill. As this contract is work oriented, sufficient manpower shall be deployed by the firm as per requirement of the system.
 - (c) Firm shall get electrical license and submit the documentary proof regarding Electrical HT and LT contractor/work license (Issued by Govt of Haryana) .
3. In case various problems are experienced, simultaneously or depending upon the nature/ severity of the fault, additional manpower as per the direction of Engineer-In -Charge will be arranged by the firm for prompt attending of emergencies without any extra remunerations.
4. **Contract Agreement:** - The firm shall execute a contract agreement with HPGCL on a Non-Judicial stamp paper of appropriate value within 07 days of receipt of work order as per Annexure-XIII.
5. **Rate / Contract Price:** - The agreed contract price will remain firm during the currency of the contract. The rates shall be firm inclusive of taxes and statutory duties (except GST at the applicable rates only on Part-A)
 - a) For Part-A. GST will be paid extra at prevalent rates. Current rate is 18%.
 - b) **Cost of Diesel for Heavy machinery Part-B**
Lump sum monthly charges of Diesel (based on rate per rake) for running of heavy machinery, as per scope of work of work order, which mainly includes Dozers, Loaders, locomotives, Dumpers, Poclain etc. will be paid. The monthly amount i.e. number of coal rakes received in a month multiplied by cost of diesel per rake (as per agreed rates), will be paid in monthly running bill. No GST will be paid on Part-B
6. **Goods and Service Tax (GST):** - GST will be paid extra by HPGCL on submission of following undertaking-cum-indemnity bond :
 - a) Certified that we are registered as taxable person under GST Act, our GST no. is-----and which is active as on-----.
 - b) Certified that bill for the month of -----in which GST has been claimed is included in all GST returns submitted by us to the GST authorities.

- c) Certified that we shall deposit the amount of GST collected from RGTPP/HPGCL to the Government exchequer within the time specified under the GST Law.
- d) Certified that the goods/services on which GST has been charged have not been exempted from GST under GST Act. The rate/amount of GST in these goods/services is correct under the provisions of the GST Act.
- e) We give undertaking-cum-indemnity bond to RGTPP/HPGCL that we shall indemnify to RGTPP/HPGCL for any loss sustained in case we does not deposit the GST to the government exchequer, which it has recovered from the M/s HPGCL as tax.
Present rate of GST is 18% and will be governed as per the GST rules as applicable from time to time.

7. Earnest Money and Security Deposit: -

- a) 10% amount of the monthly running bill shall be kept as security deposit. However, the EMD already deposited by the bidder shall be converted into the security deposit and the balance amount shall be deducted from the running bill.
- b) The security deposit of the firm shall be retained by HPGCL for faithful execution of the contract.
- c) The Security deposit shall be released only after completion of the entire period of contract and after completion of 30 days of Guarantee/warranty period, on the certificate of Engineer in charge for successful completion of G/W period and submission of requisite documents like last EPF/ESI return by the contractor.
- d) The Security Deposit shall be released after taking clearance from all concerned agencies/divisions and after fulfilling all the statutory requirements of the contract whichever is later and after making adjustment of Railway demurrage charges or any other due pending towards the firm.
- e) No interest shall be paid on Security Deposit for the period it remains deposited with HPGCL.
- f) The earnest money / security deposit shall be forfeited in part or in full under the following circumstances: -
 - i. If the tenderer withdraws his tender at any stage during the currency of validity period.
 - ii. If the work order has been issued but the firm refuses to comply with it irrespective of the fact that HPGCL sustains any loss on account of such default or not.
 - iii. In the event of a breach of contract in any manner.
 - iv. In case of evidence of cartel formation by the bidder(s).
 - v. If the firm fails or neglects to observe or perform any of his obligations under the contract, it shall be lawful for the HPGCL to forfeit either in whole or in part, in its absolute discretion, the EMD / security deposit furnished by the firm.
 - vi. The forfeiture of EMD / security deposit shall be without prejudice to the right of HPGCL to recover any further amount or any liquidated and/or other damages as admissible under the law, under payments or over payments made to the firm under this contract or any other contract as well as to take such administrative action against the firm as blacklisting etc.
 - vii. If the work is not started as per the instruction in LOI/WO or in case of any failure on firm's part to honour firm's commitment given in the tender, it will be treated as a default and in that case his earnest money/security will stand forfeited by HPGCL.

- 8. Payment Terms: -** 100% payment, after deducting 10% security deposit and statutory deductions, of the monthly running bill shall be made after satisfactory completion of work done.

- 9. Mode of Payment:** - Payment will be released by the Sr. Accounts Officer/RGTPP, Khedar, Hisar through RTGS/NEFT in the ESCROW account of the contractor which shall be used by the contractor for payment of wages of the workers in their Saving Accounts and other statutory obligations like EPF/ESI etc. For payment through RTGS/NEFT, the contractor will open the requisite ESCROW account by a tripartite agreement with HPGCL and State Bank of India/ any Scheduled Bank within 7 days of issue of the work order and will intimate the complete bank details viz. Name of Bank/Branch, Account Number, Type of Account, IFSC Code etc., to Sr. Accounts Officer/RGTPP, Khedar, Hisar. No payment to the contractor will be released other than ESCROW account opened for the purpose. Bank charges, if any, shall have to be borne by the tenderer/firm.
- 10. Completion Period:** - The work shall start w.e.f 00:00 Hours on 01.11.2026 and the period of contract shall be 03 years from the date of start and is further extendable by another 03 months at 3rd year rates at the same terms & conditions at the sole discretion of HPGCL. The work shall be carried out and completed on month to month basis, as per the requirement of the contract.
- 11. Risk and cost:** - In case the firm fails to full fill the contractual obligation, the work shall be got done from some other agency at the risk and cost of the firm. It shall be without prejudice to the right of HPGCL to recover any further amount or any liquidated and/or other damages.
- 12. Documentation:-** The firm of the work shall ensure the following before submitting the bill to the CHP division to avoid delay in payment of the firm:-
- i. Firm shall submit the bill in triplicate by 1st week of the next month to the Executive Engineer/CHP, RGTPP, Khedar, Hisar alongwith the followings:-
 - a. The bill should be on the firm's bill book duly serially numbered and bearing date of issue, firms EPF code, ESI code, GST number, PAN. A photo copy of the EPF code, ESI code, GST number, Labour licence, PAN shall be attached with the 1st bill for reference and record.
 - b. Self attested copy of the deposit challan / ECR of EPF, ESI contribution, labour welfare fund deposited by the firm for the labour engaged for the work duly validated with dossier of workers and their account number in the appropriate prescribed performa.
 - c. Self attested copy of the attendance sheet, wages register and evidence of wage payment.
 - ii. Certificate from Labour Welfare Officer / Factory Manager stating that firm has complied with all labour laws and safety clearance certificate from safety officer. In case of non availability of Labour Welfare Officer/Safety Officer, from EIC.
 - iii. GST documents as per requirement, which will be intimated time to time.
- 13. Force Majeure:-** The delay in the completion of the work may be treated as force majeure to the firm only if:
"The delay is resulted from any causes arising out of compliance with regulations, orders or instructions of the Central or State Governments, acts of God, acts of Civil & Military authority, fires, floods, strikes, lock-outs, freight embargoes, war- risk riots and civil commotion".
- 14. Idle Labour charges:** - No idle labour charges will be admissible in the event of any stoppage caused in the work resulting in firm's labour being rendered idle due to any cause.
- 15. Over Run Charges:** - No over run charges shall be paid in the event of the completion period being extended for any reasons.
- 16. Watch & Ward:** - The watch and ward of T&P and other material will be the responsibility of the firm.

17. **Facilities to be arranged by Firm:** - The Firm shall make his own arrangement for providing all facilities like lodging, boarding, furniture and transportation etc for his supervisors / staff engaged by him for the job. Electricity & Water will be provided free of cost as per existing infrastructure. RGTPP may provide suitable space for Site Store/ Temporary Workshop as per availability free of cost to the contractor.
18. **Statutory Deductions:** - Statutory deduction on account of Income Tax and GST Act etc. shall be made at source from the bills of the firm at the prevailing rates.
19. **Factory Act / Minimum Wages Act / Insurance Act / EPF Act etc.:-** Strict adherence of various applicable labour laws including latest amendments in labour codes as enacted by the Government time to time like the Factories Act, Minimum Wages Act, ESI Act, Payment of Wages Act, Gratuity, the Workman's Compensation Act, EPF Act, The contract labour (Regulation & Abolition) Act, 1970 and all other statutory requirements as amended from time to time to the entire satisfaction of Central/State Govt. Authorities, shall be the responsibility of the Firm and firm shall have to make good loss, if any, suffered by HPGCL on account of default in this regard by the firm. EPF/ESI contributions will be deposited by the firm in their own EPF/ESI code no. in the respective account of the workers. The firm will submit the copy of EPF/ESI online challan along with ECR to the Factory Manager/Labour Welfare officer, at the time of 90% payment along with corresponding list of workers. The new labour codes will be implemented and have to be followed by the firm as per instructions received.
20. **Insurance of Workers:** - The firm will be solely responsible for any liability for their workers in respect of any accident, injury arising out and in course of firm's employment. To meet their aforesaid obligation under the workmen Compensation Act, The firm shall obtain W.C. Policy from the Insurance Company for the persons employed by them for carrying out the work. The premium payable for the aforesaid Insurance Policy shall be borne by the firm. The firm shall ensure that the said Insurance Policy of this insurance cover is required to be submitted by the firm to Engineer-in-charge of work immediately after issue of LOI, but before the start of work.
21. **Safety rules:** - Firm shall have to comply with all the provisions of safety rules. The Safety officer/RGTPP may impose penalty of Rs 200/- per day per head if the workers of firm are found to be working carelessly without proper protective equipments in unsafe conditions. Against violation of any other clause, a penalty of Rs 500/- per violation (minimum) shall be levied. In case of repeated violation of very serious nature resulting in various serious accident or direct loss to the corporation/ threatens to cause severe consequences, higher penalty rate may be imposed including suspension/ termination of the contract. If any action is initiated by the Chief Inspector of Factories, Chandigarh or any other authority against occupier/ Factory Manager or any other authority of HPGCL in case of any fatal/non-fatal accident or any other violation of factory act, 1948, Pb. Hr. Factory rules, 1952 or any other industrial or labour act, the firm shall be liable for the same and also to deposit the amount of fine/ penalty if any. In case of default action as deemed fit shall be initiated against the firm.

The contractor will observe all fire and safety regulations. He should adopt proper fire prevention arrangement during his work at site. He shall be responsible for any loss due to fire or unsafe methods or damage to any of the HPGCL property during the execution of contract and shall make good to the satisfaction of Engineer-in -Charge. However, this will not relieve the contractor of any statutory or other obligations. Contractor shall be sole responsible for providing Personnel Protective Equipments such as Safety Helmet, Safety Shoes, Masks, Goggles, Ear Plugs, Hand gloves, Safety jackets, Indication lights, Safety Caution Boards etc. to its working personnel keeping in view the Occupational Health and Safety aspect of manpower deployed. Non compliance of any safety instructions may lead to imposing of penalty as per instruction of safety department. Same will be recovered from monthly bills of the firm.

A safety clearance certificate on quarterly basis from Safety officer/RGTPP shall be obtained by the firm and has to be attached along with the bill. This office reserves the right to claim adequate compensation from the firm on account of damage caused to the plant & equipment

handed over to him for execution of the work, due to careless handling or negligence on the part of the firm.

- 22. Arbitration:-** All the matters, questions, disputes, differences and / or claims arising out of and / or concerning, and / or in connection with, and /or in consequence of, and /or relating to the contract, whether or not obligations of either or both the firm and the corporation under this contract be subsisting at the time of such dispute and whether or not the contract has been terminated or purported to be terminated or completed, shall be referred to the Sole Arbitrator of Managing Director/ HPGCL or an officer appointed by the MD, HPGCL as his nominee. The Award of the Arbitrator shall be final and binding on the parties to the contract.

The objection that the arbitrator has to deal with the matters, to which the contract relates, in the course of his duties or, he expressed his views to any or all the matters in disputes or difference, shall not be considered as a valid objection.

The arbitrator may, from time to time, with the consent of the parties to the contract extend the time for making the award. The venue of arbitration shall be a place from which the acceptance of order is issued or such other places as the arbitrator, in his discretion, may determine.

All arbitration proceedings under this clause shall be governed by the provisions of Arbitration and Conciliation Act, 1996 the rules there under, with any statutory modifications thereof for the time being in force.

- 23. Laws Governing Contracts:** - All contracts shall be governed by the laws of India for the time being in force. Irrespective of the place of delivery, place of performance or place of payment under a contract, the contract shall be deemed to have been made at the place from which the acceptance of tender has been issued.
- 24. Jurisdiction of Courts:** - The courts of the place from where the acceptance of tender has been issued shall alone have exclusive jurisdiction to decide any dispute arising out of or in respect of the contract.
- 25. Set Off:-** Any sum of money due and payable to the firm under the contract (including security-deposit returnable to the firm) may be appropriated by the HPGCL and set-off against any claim of the Corporation for the payment of a sum of money arising out of under that or any other contract entered into by the firm with the HPGCL.
- 26. Subletting and Assignment:** - The firm shall not, sublet, transfer or assign the contract or any part there of or interest therein or advantage thereof in any part thereof in any manner whatsoever without prior consent of the HPGCL.
- 27. ESI Contribution:** - Firm will get enrolled all the workers & all types of labors engaged for the work in ESI enrolments. Firm must ensure the compliance of ESI Act, 1948 as per Govt. of India notification dated 24.02.2006 or any other amendments thereafter and will also produce a documentary evidence for the same along with the monthly bills. The proof of ESI enrolments/cards will be submitted to Engineer-in-charge.
- 28. Accommodation:** - Firm will make own arrangement for providing accommodation to their employees deployed at site. However, on written request of the firm, various category houses in RGTPP colony can be allotted to the firm, subject to their availability, for Site In-charge, Engineers, Supervisory Staff etc. Non availability of any type of houses will not confer upon any right of the firm. The houses allotted to the firm will be on chargeable basis as per the house rent fixed by RGTPP authorities from time to time and same will be recovered from the monthly bill of the firm. The firm may be asked to deposit the rent directly to Sr.A.O./RGTPP. Coal rakes are being received at RGTPP, Khedar round the clock. For proper/timely unloading of coal rakes, bunkering of coal and cleanliness of CHP, the firm will be allowed to retain maximum 35 Nos. labors round the clock in coal handling plant for which rest rooms shall be provided by RGTPP with power points free of cost.

- 29. Tools and Tackles:-** The firm will make own arrangement for all tools & tackles, skilled and unskilled labour etc. required for the execution of contract. The work will be subject to inspection at any time by the Engineer-in -Charge or his authorized representative(s). The firm will have to carry out the work to the entire satisfaction of the Engineer-in -Charge.
- 30. Transportation:-**
- (a) **Material Transportation:-**
- (i) The firm shall make own arrangement for transportation of the material from stores to site of work, from site of work to O&M workshop of HPGCL if required and return of scrap back to stores (O&M). The firm shall also carry out the work of loading / unloading of material being sent for repairs or received after repair to / from outside of RGTPP at his own cost. Also transportation (to & fro) for repairing/purchase of spares from open market in Barwala/Hisar is in the scope of the firm.
- (ii) The firm shall make his own arrangement for removal of old as well as unused material from the site to the place as specified by the Engineer-in –Charge.
- (b) **Manpower Transportation: -** The firm shall make his own arrangement for transportation of manpower at site of work at any time as per the requirement of job.
- 31.** The firm may employ any employee, as they may think fit as per clause No. 2 (a) mentioned above. The employees should not be deemed to be in the employment of HPGCL for any purpose whatsoever. The firm will abide by the rules, laws and regulations that may be enforced from time to time regarding the employment conditions of service of their employees. Under no circumstances whatsoever, HPGCL would be held responsible to the labour of the contractor. HPGCL will have the right to pass on the responsibility on the firm together with any expenses incurred by HPGCL as a result of certain dues (directed by any statutory authority) on the part of employees of the firm. HPGCL will be entitled to recover/ claim dues/compensation from the firm.
- (a) The labour/employees engaged by the firm will not be below the age of 18 years and exceeding 60 years. The firm will maintain the complete record of employees engaged and will have to produce the same before HPGCL/Govt. authorities whenever required. The police verification report of each worker (from his home town as well as from nearest police station of the plant) engaged by the firm has to submit with HPGCL.
- (b) Further the firm would furnish undertakings from their each and every employee on Non-judicial stamp paper of appropriate value that the employee will not claim any lien as an employee whether temporary or permanent of HPGCL, for the services, he/she is rendering to the firm.
- (c) The firm will also indemnify HPGCL against any liability towards non compliance of labour laws or any other statutory laws.
- 32.** The firm will immediately remove any person employed on the work, which is not suitable for any work or whose misbehavior causes any nuisance/creates hindrance in the smooth working of the plants or otherwise in the opinion of the Engineer-in –Charge. Such person will not be re-employed or allowed on the work without the prior written permission of the Engineer-in-Charge. Further, contractor is liable to provide suitable replacement of such person immediately.
- 33. Telephone / Mobile Phone Facility: -** The firm shall provide the mobile phone facility in CHP Control Room and to all his supervisors to facilitate HPGCL for easy communication with the contractor. The firm shall intimate the phone Number immediately after the award of the contract.
- 34. Authorized Representative:-** The firm will intimate (in writing) the name of authorized representative at site to whom necessary instructions regarding the works

can be imparted and who will make correspondence regarding contract related issues. The signatures of the aforesaid authorized representative shall be got attested from First Class Magistrate or Notary Public.

- 35. Payment of Wages to Firm's Employee:** - Monthly salaries of employee/manpower engaged by firm for O&M work of complete CHP will be made by crediting the salary amount in the bank account of each employee by 7th of each month. Firm will ensure that each of its employee has a bank account and will also be responsible for opening of bank account of all the employees working at CHP. Firm will produce register of wages or register of wages cum muster roll of the preceding month along with the bills to be submitted for the every calendar month for verification to the nominated officer/official of the HPGCL. The firm shall issue UAN cards and ESI cards to all the employees. The firm should provide EPF statement on annual basis and wages slip on monthly basis to all of their employees.
- 36. Loss to Plant during Execution:-** Any damage or loss caused to plant equipment of CHP division/any other division of HPGCL/ Third party equipment i.e. Railway Wagons etc. during execution of the contract will be made good by the firm. The firm will be liable to make good the loss caused to HPGCL, or any other agency, due to omission or commission on part of their employees or labours for causing any loss, damages or inconvenience to HPGCL.
- 37. Engineer-in -Charge:-**
- (a) The work will have to be carried out by the firm as per standard O&M procedures, OEM recommendations and as per the instruction of Engineer-In-Charge or his authorized representative on round the clock basis. HPGCL will also have authority to reject all works or part thereof and give necessary direction to carry out work again until the quality of work is not as per standard O&M practice/procedures/OEM recommendations. No claim whatsoever on this account will be entertained.
 - (b) The decision of Engineer-In-Charge will be final in regard to all matters relating to the jobs of operation & maintenance works relating to the contract.
 - (c) In case the firm fails to execute any work, assigned by Engineer-In-Charge, required for smooth & efficient running of the system, Engineer-In -Charge will have the right to get the work done through another agency at the risk & cost of the firm.
 - (d) It will be binding on the firm to follow all preventive maintenance/ predictive maintenance, overhauling schedules of equipments/machinery strictly as per approved procedures. The firm will maintain records of all important parameters of plant, machinery and important activities as per direction of Engineer-In-Charge for submission to HPGCL.
- 38. Penalty / Deductions:**
- (a) Penalty @ Rs. 1,00,000/- (Rs. One Lacs) per empty bunker per calendar day or part thereof will be imposed on the firm, if any coal bunker in the running unit gets emptied when the coal is available at RGTPP. The penalty will be repeatedly imposed on subsequent Calendar days if the bunker remains empty. Calendar day will mean 00.00 hrs to 24.00 hrs.
 - (b) If the firm fails to deploy required manpower in the different categories as per the site requirement specifically operators for locomotives, loaders, dozers, JCB, cranes etc. or if any site is found unattended like ring granulators, grizzly feeders, roller screens, conveyor belts, stone pickers on designated areas etc then penalty @ Rs.1,000/- per man per site per shift shall be imposed on the contractor.
 - (c) **Penalty for Outage of RC Feeder:** - Outage of coal mill/feeder due to ingress of stone boulders and other foreign material will invite a penalty of Rs. 15,000/- per such instance.
 - (d) **Penalty for ingress of stone & magnetic material in Ring granulator (Coal Crushers):-** Outage of any Ring granulator (Coal crusher) due to ingress of stone or/and magnetic material will invite a penalty of Rs 5,000/- per such instance. And if tramp iron trap of crusher is not cleared then penalty @Rs. 5,000 will be imposed for each such instance.

- (e) **Poor Quality of Work:-** If the firm does not engage sufficient staff or there is delay in attending of jobs or the quality of work is not up to the satisfaction of Engineer-In-Charge, the penalty @ 1.5% of monthly bill of affected package be will be levied on the firm for each of the default.
- (f) **Penalty on account of coal found in segregated stone:-** If any coal is found in the stones segregated & dumped at final dumping site, then a penalty @ Rs.10, 000/- per instance will be levied.
- (g) **Delay in Stone Shifting:-** The firm will ensure shifting of stones to specified area within the time given by the Coal India Limited every month. If the firm fails to lift the stones for a particular month within the specified time then the cost of un-lifted stones will be recovered from the firm on the applicable rates for which otherwise the compensation would have been given by Coal Companies. In case the coal/ stone boulders not found to be segregated/ shifted as per schedule given in the scope of work then a penalty @ Rs 40,000/- shall be levied on the contractor for each of the default.
- (h) **Forced Closure / Backing down of Generating Units:-**
 - i. If coal handling plant is required to be permanently closed during the period of the contract, due to non running of both the generating units fed by coal handling plant and no unloading of wagon is carried out in CHP, then HPGCL can short close CHP after giving a notice of one month to the Firm. No payment for that part of contract shall be made after completion of the notice period.
 - ii. In case of non-operation of the unit/units, due to any reasons, on the prior instruction of HPGCL, of at least 7 days and work/activity is not carried out:-
 - a. For up to one month, a deduction @ 35% of basic value particular of work will be made.
 - b. For more than one month, a deduction @ 50% of basic value of particular work will be made.
 - iii. If any of the unit is permanently closed then the rate of O&M charges of coal handling plant shall be reduced by 40 % after giving a notice of one month to the firm. Firm shall be allowed to reduce the minimum manpower engaged in coal handling plant by 25 %. In case any activity/ work relates to a particular unit that is permanently closed then full amount of that activity will be deducted. However, it shall be ensured by the firm that the work will be not affected in other unit.

Note: -

- a) Unit(s) will be considered operational since its light-up and under shutdown since its boxup.
- b) Operation / shutdown of more than 12 hours will be treated as full day for above purposes.
- (i) **Wagon tippler hopper over filling:-** If wagon tippler hopper is found overfilled, then penalty @Rs. 5,000 will be imposed for each such instance.
- (j) **Penalty for non-compliance of ISO/ pollution norms.** If the contractor does not fulfill the ISO & Pollution norms, then a penalty of Rs 1,00,000/- per instance shall be imposed to the contractor. If any penalty for non-compliance of ISO norms or any other pollution related norms imposed by any Govt. deptt. of Haryana/ India to CHP, RGTPP, Khedar, Hisar, the contractor shall be held responsible for the same and penalty amount shall be recovered from the bill of the contractor.
- (k) **Penalty for delay in payment of wages or non deposition of EPF/ESI:-**
Following penalties as per relevant act will be imposed for non-payment of wages or nondeposition of EPF/ESI etc.:

Particulars/ Clauses for Penalty	Act
Clause 20: Penalty for offences under the Act	The Payment of Wages Act, 1936.
Clause 31: Time for payment of contribution	The Employees State Insurance (General) Regulations, 1950 (amended on 11.01.2024)
Clause- 14- Penalties	The Employees Provident Funds and Miscellaneous Provisions Act, 1952
Chapter VI- Penalties and Procedure	Contract Labour (Regulation & Abolition) Act, 1970 & Rule 1971
Chapter VII- Penalties	The Employee State Insurance Act, 1950

39. HPGCL will have power to make any alteration, addition, deletion or substitutions for the original specifications and instructions which may be considered necessary during the progress of work and will not invalidate the contract and same will be binding on the firm. Any additional work due to some modifications necessary for smooth running of CHP will be carried out by the firm without any extra cost. This additional work will be limited to existing set up only.
40. Diesel for running of heavy machinery including locomotives etc. in CHP areas is in scope of firm, therefore, it is the sole responsibility of the firm to follow all norms of storing diesel, in accordance with the directions of explosive department. Any penalty imposed by explosive department in lieu of violation of any norms fixed by explosive department will be the responsibility of the firm.
41. **Period of the Contract:** - The period of contract will be for three (03) years from the date of commencement of work. The contract period is extendable by another three (03) months at 3rd year rates at the same terms & conditions at the sole discretion of HPGCL. Normally a notice of seven days shall be given for starting the job, but the contractor should be able to mobilize his resources within 24 hrs. if necessity arises.
42. **Termination of Contract:-**
- If the firm is unable to execute the work, any loss incurred by HPGCL in this respect will be to the firm's account.
 - If the performance of the firm is not found satisfactory, HPGCL will serve a notice of 15 days to the firm to improve the performance failing which HPGCL has the right to terminate the contract without any compensation.
 - HPGCL also has the right to get the job done from a third party at the risk and cost of the firm till the expiry of the period of contract and debit the cost plus 15% of the cost to the first firm's account.
43. **Demurrage Charges:-**
- It will be the responsibility of the firm to release after unloading all the coal rakes including test wagons for calibration received in RGTPP siding within free unloading time allowed by railways, irrespective of the reasons such as, placement of rakes in overlapping / bunching, excess of coal stock at RGTPP stock yard, grid failure, excess of stones in coal rakes, derailment of any account, poor quality of coal, wet coal etc. Railway imposes demurrage charges on the coal rakes if the unloading is delayed beyond 07 hours (presently). All the demurrage charges to be imposed by railways in this regard will be recovered from monthly running bill/ security deposit of the contracting agency.
 - At present free permissible time for unloading of coal rakes received at RGTPP is 07 (seven) hours. However, at any time, during execution of contract if there is any change in free permissible time for unloading of coal rakes, either increase or decrease, same will be applicable on the firm and no claim will be entertained in this regard. Similarly, if railway revised demurrages charges at any time during execution of contract (either increase or decrease) same will also be binding upon contractor and no claim will also be entertained in this regard.

- (c) HPGCL will arrange standard test wagons of Indian Railways for 04 days for calibration of weighbridges and hiring / haulage charges for the same will be borne by HPGCL. Demurrage charges and Hiring charges beyond 04 days applicable (if any) on Railways standard Test Wagons due to over detention or any other reason will be borne by the firm.
 - (d) RGTPP, HPGCL will lodge appeal with railways for granting waiver (up to 3rd appeal). The amount refunded by railways in 1st, 2nd and 3rd re-appeals will be passed on to the firm.
 - (e) One month stabilization period will be allowed to the firm from the date of start of the work, during which demurrage recoverable from the firm shall be deferred and the same would be recovered from the subsequent two monthly bills of the firm.
 - (f) Any change in demurrage charges/GST slab/demurrage rules/free unloading time/deduction procedure of demurrage charges by HPGCL will be implemented and firm will abide by the changes and no plea regarding this will be entertained by HPGCL
44. Vehicles deployed by the firm for execution of contracted works including manpower/ material transportation etc. will be registered with transport department and the drivers deployed will have valid driving license. Vehicle declared unfit will be removed immediately and healthy vehicle with fitness certificate will be deployed. Vehicles deployed should meet the ISO norms/Pollution norms requirement.
 45. **Maintaining of Records as per ISO Norms:** - Firm will maintain all the records as per ISO: 9001, ISO: 14001 and ISO: 18001 norms. Firm will abide by all the rules and regulations, directions given by HPGCL from time to time for implementation of ISO norms at RGTPP.
 46. **Control of Pollution in CHP:-** The firm will properly operate & maintain dust suppression, dust extraction, pre-wetting, sprinkling system of stock yard, conveyors & WT etc. to arrest air borne dust and ensure to meet with norms of Central / State Pollution Control Boards, NGT, MoEF guideline and ISO as prevailing time to time. The firm must deploy minimum 1 tractor and tanker for sprinkling of water to control the dust in CHP area. If more tractor mounted sprinkling tankers are required for control of pollution in CHP area same should be in the scope of the firm.
 47. A proper preventive maintenance schedule for daily, weekly, monthly, quarterly etc. will be prepared and followed as per the direction of engineer in charge and proper record should be maintained. The firm shall submit copy of all records monthly.
 48. **Calibration & Testing:** - All the measuring instruments are to be got calibrated by the firm as per statutory requirements. The T&P items are to be got tested/ calibrated as per statutory requirements. However, the calibration of belt-weighers, Static & In-motion Weighbridges and testing of Cranes/Hoists etc will be in HPGCL scope.
 49. **Record Registers:-** The firm will have to maintain necessary records viz register of wages, muster roll/attendance register, gate pass register, Identity Cards etc as required under relevant acts and the same will be made available to the Officer-in-charge / Project authority / Govt. of Haryana representative for checking / inspection as and when required. Attendance register of manpower of Operation, Maintenance, Housekeeping, Heavy machinery and Marshalling yard should be maintained separately. The firm will provide self attested monthly record of each & every employee who Joins/leaves the contractor firm to the office of Executive Engineer/CHP, RGTPP, Khedar, Hisar. The firm will also implement biometric attendance system of staff working under the contract.
 50. RGTPP reserves its right to split up the work at any stage of the contract and engage more than one contractor for the job.
 51. **Preservation & storage of material:** All the material issued to the contractor by the HPGCL or brought by the contractor for its bonafide use at CHP, RGTPP and shall be stored and preserved against any loss/ damage/ shrinkages or deterioration in any form. Any damage/

losses suffered on this account shall be considered as loss due to wilful negligence on Part of the contractor and shall be liable to compensate HPGCL for these losses suffered.

- 52. GST:** GST will be paid/reimbursed extra if it is levied on the services provided by the contractor and specifically demanded for the same in his offer. However, due to not claiming of GST from the HPGCL, contractor cannot escape from his liability to the Govt. against the taxable service. Further, the Standard Operating Procedures (SOP) to be followed to monitor the GST compliance under GST &TDS provisions and taxes shall be governed as per the rules applicable from time to time.
- 53. Labour law Compliance and medical test:-** All registers and other facilities as per labour laws enforced time to time must be maintained by the firm & all the registers must be reproduced before inspecting team of Industrial Health & Safety time to time at RGTPP. As per OHSAS (Occupational Health Safety Assessment Series), under this all workers must be covered in medical check-up as per guidelines of Hon'able Supreme Court of India. Any new gate pass request should be accompanied by medical fitness certificate record and record of training provided should be supplied at the end of the month alongwith RA bill.

The tests to be conducted are as under:

- a. General Test Including CBC (Complete Blood Count), Serum Creatine, PP Sugar, Urine Examination, Lipid Profile, X-Ray Chest, ECG, Eye Test.
- b. Liver Function Test.
- c. Audiometric Test.
- d. Test for Acrophobia (fear of height).
- e. Test for Claustrophobia.
- f. PFT (Pulmonary Function Test)

- 54. First Aid:** - First Aid facility as available in RGTPP can be utilized by the firm in case of any emergency, however any other medical facility and expenditure for employee of firm shall be in the scope of firm.
- 55.** ERP system is under implementation in HPGCL. Skilled computer operator/ operators required at site for data collection/ data updating/ data logging in ERP system related to CHP division, same will be in the scope of CHP ARC contractor.
- 56.** Contractor will have to maintain all the records as per Coal Accounting Manual, Purchase Regulations, Safety Manual, Store Manual, Labour Law, Government Guidelines & Norms currently in force and amendment from time to time. If the behaviour of contractor found non supportive towards these norms same shall be heavily penalized as per the direction of Engineer-in-Charge.
- 57. Sampling, Storage, Handling and Feeding of Biomass Pellets:-**
As per Govt. of India directions co-firing of agro residue based Biomass pellets along with coal is being done at RGTPP. Sampling, Handling, storage & feeding of biomass pellets will be in scope of the firm. Any type of T&P required for feeding and handling of biomass pellets will also be in the scope of the firm. Sampling (as per HPGCL SOP) of biomass pallets will be in the scope of the firm. The co-firing of pellets with coal will be through ERHs as per directions of Engineer-In-Charge. Any additional heavy machinery equipment required for co-firing of pellets and coal will be in contractor's scope. At present percentage rate of blending of biomass is 7% of total coal. However, it can vary as per instructions received from competent authorities.
- 58.** Videography of Sampling Process of Imported Coal:-Imported coal rakes will be received at RGTPP and videography of complete sampling & analysis process of imported coal which will includes taking of samples from loaded wagons and analysis process of samples in laboratory at RGTPP. DVD/CD of complete sampling & analysis process of videography of each rake will be provided to O/o XEN/Fuel, RGTPP, Khedar within 05 working days after completion of sampling/testing. The firm will deploy more than one photographer, if required & all the related expenditures will be in the scope of firm. Videography may be carried out round the clock as & when the imported rakes arrived including night hours. The camera &

other accessories should be of good quality. The work should be carried out as per scope of work detailed in Annexure-XII.

59. The coal sample preparation & shifting to coal Lab shall be in the scope of firms as per **Annexure-XI**.
60. The terms and conditions not specified in the work order, shall be governed by “HPGCL works and purchase regulations 2015” which are available on HPGCL website i.e. www.hpgcl.org.in.
61. **Tax Invoice:-** The tax invoices will be raised by which should contain invariably their GST registration number, HSN code, PAN, place of business with address and a unique invoice number suffix with RGTPP so that the invoice could be distinguish with other place of business of HPGCL.
62. The firm shall follow GST SOP and Income Tax SOP of HPGCL (**Annexure-XIV**).
63. EMD and securities/Bank guarantees taken by HPGCL will be refunded only after payment of GST by firm which was charged from HPGCL. In case any issue arises w.r.t. failure by the firm in GST compliance, all future payments will be put on hold .
64. Performa for TDS/TCS is attached as **Annexure-XV**:-
65. **Performance Bank Guarantee:-** Unless agreed otherwise Contractor shall submit bank guarantee of the nationalized bank equivalent to 10% of the contract value in the prescribed performa valid up to one month completion of warrantee period.
66. **Warranty:-**
- i. The contractor shall provide warranty for the workmanship of the work done for a period 30 days from the date of completion of work/.
 - ii. During this period if some equipment(s), which have to be attended by the contractor, is found to be defective, the same will have to be attended again without any additional charges to HPGCL. In such cases, warranty period shall start from the date of such repair/rectification. In cases the contractor fails to respond within a reasonable time, the job will be got done from any other agency at the risk and cost of the contractor.

**Executive Engineer/CHP,
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HPGCL, Khedar, Hisar.**

Technical Terms & Conditions

1. Consumables like general purpose welding electrodes (Mild steel) e.g. 6013, 7018 etc. other than special purpose welding electrodes of reputed make such as L&T/ Ador/Esab/D&H etc., Vulcanizing material for belt jointing (Hot & cold), Lagging sheet for pulleys, oxygen and acetylene gas, o-ring, cloth, cotton waste, emery paper, sealing agent, Ana-bond 666 or 610, kerosene oil, hacksaw blades, grinding wheel, Teflon tapes, PVC tape, HT tape, Aluminum tape, Rubber tape, rustoline, Online/Offline CRC (cleaning agent), CTC, DC 226 lubricant, araldite, soldering flux, solder, felt seal, old dhoti, electrical component cleaning agent, flexible pipes for cleaning with instrument air, lugs & thimble of different size and type (copper & Aluminum), ferrules and all small items required for handling & maintenance jobs will be arranged / provided by the Firm. The consumables like Harpic, Surf, soap, toilet cleaners, moping cloths, Naphthalene balls, mosquito repellent, Phenyl etc. will also be under firm's scope. In case firm fails to bring sufficient consumables to site without which HPGCL work is suffering, HPGCL will procure the same from the market and recover from the firm's bill @ 1.5 times the purchase price of the item. However other spares, special silicon grease, special O-ring, oil seals, all type of lubricants etc will be provided by HPGCL.

2. The firm should have minimum following T & P along with other sufficient essential T&P so that simultaneous different sites could be handled at site for O & M work:

(a)	Welding Transformer	08 Nos.
(b)	Welding Generators	04 Nos.
(c)	Portable single phase welding machines	06 Nos.
(d)	Gas Cutting Set	08 Nos.
(e)	Chain Blocks (2T, 5T & 10T Tonne capacity)	05 Nos. each
(f)	Winch Machine	01 no.
(g)	Grinders to accommodate different size of grinding wheels	04 Nos.
(h)	Insulation tester (Megger) of capacity 5 KV (Digital)	02 No. each
(i)	Multimeters	06 Nos.
(j)	Milliampere meter	02 nos.
(k)	Air blowers	04 nos.
(l)	Hydraulic Jack (10T & 50T capacity)	02 Nos. each
(m)	Vulcanizing Machine (1200 mm & 1600 mm width belt)	01 No. each
(n)	Portable vibration meter	02 No.
(o)	Pencil Grinder	01 No.
(p)	Portable Temperature Gun	02 Nos
(q)	Single/Double groove pulley (Kuppy) (3T, 5T, 10T capacity)	04 Nos. each
(r)	Hydraulic Crimping tool kit for up to 630 mm size cable	01 No.
(s)	Electric grass cutter.	01 No.
(t)	Portable Sound measuring instrument.	01 No.
(u)	Industrial heavy duty Vacuum Cleaner & Air blower	02 Nos. each
(v)	LAN Tester (For Ethernet cable testing)	01 No.
(w)	Digital Clamp Meter (Upto 1000 Amp AC/DC)	04 Nos.
(x)	Digital Techometer	01 No.
(y)	Digital lux meter	01 No.
(z)	Earth tester	01 No.
(aa)	Manual cart for shifting of spares	02 Nos.
(bb)	Drill Machine (Hammer)	02 Nos.
(cc)	Gravity Meter	04 Nos.
(dd)	Search Light (atleast 55 watt)	02 Nos.

The list is not exhaustive and firm will be bound to bring more T&P if required at site.

3. The firm has to make his own arrangement including leads, screws, oil, brushes, welding torch, gloves, bulbs, wires & holders for temporary lighting at work place under entire coal handling plant.

4. All tools & tackles like spanners, multimeters, screw driver sets for electrical panels, current source, Grease guns (Hand and portable), wire rope of different sizes, slings, hook chuk, box-spanner, chain pulley blocks, pull lift, hydraulic jacks, hoisting arrangement, portable grinding machine, personnel protective equipments for safety of workers, safety belt, scaffolding material and other general purpose tools and tackles etc. have to be arranged/ provided by the firm.
5. Major T&P items such as Winch machines, Hydraulic jacks, Plasma cutting machine etc. available with HPGCL will be handed over to the firm in **“as is where is basis”** for O&M of CHP, RGTPP. Firm will be responsible for O&M of these T&P items including arrangement of their spares and consumables. These T&P items, if required, can be used by HPGCL / its divisions at any other location / area of plant for the O&M activities including overhauling. Any other T&P items required for O&M of CHP, RGTPP will be in the scope of firm. At the end of the contract, theses T&P items would be returned back to the Project / HPGCL at least in the condition it was handed over at the beginning of the contract.
6. All tools & tackle of the firm (own) to be used by firm at RGTPP must be got tested annually by competent person authorised by Chief Inspector of Factories as per Factory Act-1948.
7. The firm will arrange the new saplings, ornamental plants and grass for development of new areas as green belt/lawns including maintenance/upkeep of existing lawns/area under CHP. Firm will arrange new saplings, fertilizers, pesticides, termite killers, insecticides for the same of worth Rs. 30,000/- (Thirty Thousand) quarterly on proportionate basis as per the directions of committee constituted by SE/Fuel, RGTPP in this regard. The amount spent by the firm for the same may be reconciled Half yearly/Yearly as per the directions of the committee. The firm will be penalized double the amount found short (if any) during reconciliation. The firm will submit documentary proof of purchase of above mentioned items of worth Rupees 1,20,000/- (One Lakh Twenty thousand) per annum.
8. The firm will complete the entire work within the time given by Engineer In-charge. To achieve this he has to work round the clock. Any number of jobs can be released for planned/preventive maintenance/overhauling of CHP equipments and firm has to carry out the work by deploying sufficient workers in addition to attending to breakdown faults. It is further made clear that no relaxation of pro-rata demurrage / penalty will be given to the firm if one stream remains unavailable due to modernization / renovation of Coal Handling Plant or due to non-availability of spares. Work of erection of Unit-III (800MW) will commence in future. Some part of CHP may remain unavailable due to this for some time. Firm have to make arrangements to ensure bunkering and unloading system is not affected due to this. Any plea in relaxation in demurrage or non-bunkering of unit/s due to unavailability of system will not be entertained. All decision should rest with HPGCL.
9. Total 21 Nos. Air conditioners are presently installed in CHP/RGTPP at different locations. Out of these 21 Nos. AC's, 17 Nos. are Split AC/Window AC and 04 Nos. are ducted AC's of different make i.e M/s Carrier, M/s Blue star & M/s Voltas as per detailed mentioned below:-

Sr. No.	AC type	Capacity (Ton / Tons)	Quantity
1.	Split/ Window	1.50/02 Tons	17 Nos.
2.	Ducted	05 Tons	02 Nos.
		08 Tons	02 Nos.
Total			21 Nos.

During the period of the contract, 03 Nos. new AC's Split / Window of 1.5 Ton capacity may be provided by HPGCL as per site requirement per year for replacement against ageing AC's. Complete O&M of all above AC's will be in the scope of firm. Total no. of ACs may increased as per site requirement. HPGCL will not supply any consumable or spare for O&M of these AC's. Firm will ensure smooth running of all the AC's installed in CHP at their own cost.

10. In case spares are not readily available at site and O&M store and same are required to be removed/lifted from any other unit, then firm is bound to do the same free of cost.

11. At the start of contract the firm will access the spare parts requirement of various equipments under coal handling plant and would advice the RGTPP Engineer-in- Charge.
12. Any miscellaneous work not mentioned in scope but is essential for completion of servicing/overhauling of any equipment in the scope, will be deemed to be in the scope of firm. Material required for the same will be supplied by HPGCL; however consumables required for completion of work will be under firm scope.
13. All kind of fabrication works required for maintenance of CHP equipments will under contractor's scope. Material required for the same will be supplied by HPGCL. However, consumables required for completion of work will be under firm scope.
14. The firm must deploy mechanical in-charge, electrical in-charge, PLC in-charge. Dedicated mechanical supervisor for wagon tippler area, crusher house, Stacker-Reclaimer, bunker area, workshop, DEDS/Compressor, planning & 01 hydraulic fitter. Firm should deploy MWF and belt jointer round the clock. Firm should deploy minimum 01 mechanical supervisor, 01 welder, 03 electrical and 02 PLC personnel per shift in addition to the general shift manpower. The firm should deploy 01 qualified Safety in-charge and should ensure to deploy qualified safety supervisors round the clock in all shifts. Manpower must be deployed as per instructions of EIC.
15. All type of hard facing work will be in the scope of the firm.
16. Firm will assess the spare consumption pattern and will intimate the routine requirement at keeping in view of lead time of procurement .
17. Contractor will maintain and submit record of Daily MIS in the office of EIC:
 - a. Operation parameter as per Log Book, deviations and action taken.
 - b. Maintenance Activities Report, status, observation and recommendations.
 - c. TBT & TBRA records.
 - d. Reason of breakdown/ stoppage hours.
18. Contractor will maintain and submit record of Monthly MIS in the office of EIC:
 - a. Plant availability report showing the availability of major equipment.
 - b. Major maintenance activities carried out.
 - c. Heavy Machinery equipment availability report.
 - d. Spares, consumables and lubricants consumption and stock availability report.

If any new system is added or any modification in existing system is done then Operation and maintenance of such system will be in the scope of the firm without any extra remuneration

**Executive Engineer/CHP,
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Detailed Scope of Work

1. Wagon Tippers:-

- a) Round the clock Operation & Maintenance of Wagon Tippler 1, 2, 3 & 4 along with their respective Side Arm Chargers, Control Rooms, Transfer chutes, Flap gates along with actuators, Apron feeders and Dribble conveyors. Operation & Maintenance of EOT crane and Hoists (electrical and manual),. Operation & Maintenance of Electrical/Instrumentation/Lighting system and other associated/allied systems/equipments of wagon tippler complex, maintainence including repair/replacement of wagon tippler hopper plates.
- b) Topping up of oil in Reduction gear boxes, Thruster brake, Bearings, Bushes and Hydraulic systems of Side Arm Chargers. Oiling and greasing of all moving parts, attending of faults such as tightening/replacing of loose/broken nuts & bolts of the systems mentioned at 1(a). Alignment of drive units, attending of oil leakages from flexible hoses/unions/joints etc. Replacement of Dribble feeder belts, Bearings/ Bushes/Plummer block, Apron pan, rollers, Supporting beam, Screw of tail pulley's plumber block, oil filters, couplings, side arm charger wagon coupler, Hydraulic cylinders & motors, Gearboxes, Thruster brakes, Spill plate rollers, Clamping jaw and side beam rubber pads, CAM settings, Spur wheel and pinion etc.
- c) Electrical maintenance of wagon tippler equipments like replacement of fuses, contactors, relays, thimble, lugs, resistance of resistance boxes, Insulation testing & replacement of motors, cables, transformers etc. and taking corrective action as per the directions of concerned officers.
- d) Routine, Preventive, Planned, Breakdown maintenance and Overhauling of Mechanical, Electrical and C & I system of above equipments mentioned at 1(a) along with associated auxiliaries under Coal Handling Plant.

2. Transfer Points (TP-1 to TP-15):-

- (a) Round the clock Operation & Maintenance of complete conveyor belt system from head to tail end (BC-1A/1B/1C/1D, 2A/2B/2C/2D, 3A/3B, 4A/4B, 5A/5B, 6A/6B/, 7A/7B, 8A/8B/8C/8D, 9A/9B, 10A/10B, RBF-1 & RBF-2). Operation & Maintenance of complete drive unit assembly of conveyors (motors, fluid couplings, geared couplings, scoop couplings, reduction gearboxes etc.), Bearings, Plummer blocks, Various pulleys and their structure (tail, head, take up, bend, snub and deflector), Transfer chutes, Horizontal gravity take up units, Vertical gravity take up units, Screw take up units, Various idlers (troughing, impact, flat return, V-return, self aligning) along with idlers frames/brackets, Skirt board systems, Internal and External scrappers, Flap gates along with actuators, Belt Weigher system, Pull chord switches, zero speed switches, Belt sway switches, Suspended electromagnets, In line magnetic separators, Pulse type Metal Detectors ,Hoists (electrical and manual), Operation & Maintenance of Tripper Trolley of bunker floor conveyors 8A/B/C/D and its associated auxiliaries. Removal of chocking of above equipments. Cleaning and de-watering of tunnel of belt conveyors 1A/B/C/D & 2A/B/C/D. Operation & Maintenance of Electrical/Instrumentation/Lighting system and other associated/allied systems/equipments mounted at transfer points.
- (b) Topping up of oil in Reduction gear boxes, Thruster brake, Fluid and Scoop couplings. Oiling and greasing of Bearings/Plummer blocks and all moving parts of conveyor system, so as to maintain healthiness of CHP. Attending of faults such as tightening/replacing of loose/broken nuts & bolts of the systems mentioned at 2(a). Alignment of drive units assembly of equipments, attending of oil leakages from gearboxes/fluid couplings/scoop couplings etc. Replacement of conveyor belts, Bearings/ Plummer blocks, Idlers & Frames, Skirt rubber, Lagging of pulleys, Geared couplings, Oil seal of gearboxes, fluid and scoop couplings, Liner plates of Transfer chutes, Flap gate and their actuators etc.
- (c) Electrical maintenance of transfer points equipments like replacement of fuses, contactors, relays, thimble, lugs, Insulation testing & replacement of motors, cables, transformers etc. and taking corrective action as per the directions of concerned officers.

- (d) Routine, Preventive, Planned, Breakdown maintenance and Overhauling of Mechanical, Electrical and C & I system of above equipments mentioned at 2(a) along with associated auxiliaries under Coal Handling Plant.

3. Crusher House:-

- (a) Round the clock operation & Maintenance of Crusher House along with Ring Granulators (Crushers), Roller Screens, Vibrating Grizzly Feeders, RBF-1 & RBF-2, Transfer chutes, Scoop Couplings, Flap gates along with actuators De-watering of crusher house ground level, ILMS, Electrical and manual hoists etc. Removal of chocking of above equipments. Operation & Maintenance of Electrical / Instrumentation /Lighting system and other associated/allied systems/equipments of crusher house.
- (b) Topping up of oil in Reduction gear boxes, Thruster brake, Fluid and Scoop couplings. Oiling and greasing of Bearings/Plummer blocks and all moving parts of equipments mounted at crusher house, so as to maintain healthiness of CHP. Attending of faults such as tightening/replacing of loose/broken nuts & bolts of the systems mentioned at 3(a). Alignment of drive units assembly of various equipments, attending of oil leakages from gearboxes/fluid couplings/scoop couplings etc. Replacement of Bearings/Plummer blocks, Crusher hammers, Suspension bar and suspension arms, Liners & breaker plates of crusher, Screen plates of grizzly feeders, Roller shaft assembly, Discs and shafts of roller screen, Geared couplings, Oil seals of gearboxes, fluid and scoop couplings, Liner plates of Transfer chutes, Flap gate and their actuators etc. Fabrication/repairing of crusher breaker plate, screen, back, deck plates and Grid beams of grizzly feeders etc.
- (c) Electrical maintenance of crusher house equipments like replacement of fuses, contactors, relays, thimble, lugs, Insulation testing & replacement of motors, cables, transformers etc. and taking corrective action as per the directions of concerned officers.
- (d) Routine, Preventive, Planned, Breakdown maintenance and Overhauling of Mechanical, Electrical and C & I system of above equipments mentioned at 3(a) along with associated auxiliaries under Coal Handling Plant.

4. Stacker - Reclaimer, Reversible Conveyor, Drive House & Emergency Reclaim Hopper:-

- (a) Round the clock operation & maintenance of Stacker Re-claimers as per the requirement of the system. Stacking & Reclaiming operation of Stacker Reclaimers for stacking of coal in the stockpiles 1,2,3 & 4 and reclaiming of coal from stockpiles for bunkering to the units respectively. Operation & Maintenance of Boom & Intermediate conveyors, Power & Control cable reeling drums along with flexible HT/LT cables, Operator cabin, Boom luffing and slewing mechanism, Pylon structure, Boom & Counter weight along with suspension systems. Bucket wheel & associated hydraulic & electromechanical system, Rotary table & associated platform, Travel drive assembly, Power & idle travel bogies, Supporting structures of stacker reclaimer, Centralized lubrication systems, Hydraulic power packs for bucket wheel, boom luffing & operator cabin, Travel rail system, Thruster operated rail clamp, Fixed tripper assembly, Toothed rim assembly, Thruster & manual braking & clamping system, Vibrating feeders, Transfer chutes, Electrical switchgear rooms, Circuit breakers, 3.3 to 0.415 KV step down Transformers, PLC/C&I system, AC system, DE & DS system, Water sprinkler system installed at stockpile 1,2,3,&4.
- (b) Operation & Maintenance of complete drive unit assembly of Boom, Intermediate, slewing drive, travel drive, vibro feeder & reversible conveyors 4A and 4B (motors, geared couplings, fluid couplings, scoop couplings, brake drums, thruster brakes, reduction gearboxes, shrink disc assembly etc.), Bearings, Plummer blocks, Various pulleys and their structure (tail, head, take up, bend, snub and deflector), Transfer chutes, Horizontal gravity take up units, Screw take up units, Various idlers along with idlers frames/brackets, Skirt board systems, scrappers, Flap gates along with actuators, Belt Weigher system, Pull chord/zero speed/Belt sway switches, Hoists etc. Removal of chocking of above equipments. Operation & Maintenance of Electrical/Instrumentation /Lighting system and other associated/allied systems/equipments of above system.

- (c) Operation & Maintenance of Rod/Rack & Pinion gates assembly, Vibrating feeders, Drive with unbalanced counter weight, Transfer chutes, Flap gates with actuators, Sump pumps (De-watering Pumps), Electrical & manual hoists, Variable frequency drive panels mounted at hoppers of ERH-1,2,3,4 and ERH-5,6,7,8 for crushed coal reclaiming. Clearing of choking & removing of stone pieces from the grizzly of crushed coal reclaim hoppers ERH-1,2,3,4 and ERH- 5,6,7,8. Cleaning and de-watering of tunnel of belt conveyors 9A/9B, 10A/10B, ERH-1,2,3,4 & ERH-5,6,7,8.
 - (d) Topping up of oil in Reduction gear boxes, Thruster brake, Fluid and Scoop couplings, Hydraulic power packs etc. Oiling and greasing of Bearings/Plummer blocks and all moving parts, so as to maintain healthiness of CHP. Attending of faults such as tightening/replacing of loose/broken nuts & bolts of the systems mentioned at 4(a),(b)&(c). Alignment of drive unit's assembly of equipments, attending of oil leakages from gearboxes/fluid couplings/scoop couplings, hydraulic power pack etc. Replacement of conveyor belts, Bearings/ Plummer blocks, Idlers & Frames, Skirt rubber, Lagging of pulleys, Geared couplings, Oil seal of gearboxes, fluid and scoop couplings, Liner plates of Transfer chutes & Flap gate, oil filters, Hydraulic cylinders & motors, Gearboxes, Thruster brakes, etc.
 - (e) Electrical maintenance of equipments mentioned at 4(a), (b) & (c) like replacement of fuses, contactors, relays, thimble, lugs, Insulation testing & replacement of motors, cables, transformers etc. and taking corrective action as per the directions of concerned officers.
 - (f) Routine, Preventive, Planned, Breakdown maintenance and Overhauling of Mechanical, Electrical and C & I system of above equipments mentioned at 4(a),(b)&(c) along with associated auxiliaries under Coal Handling Plant.
5. **On Line Coal Sampler and Analyzer:** - Round the clock operation & routine maintenance of on line coal sampler and analyzer system at crusher house on conveyor belt 2A/B/C/D and at TP-11 on conveyor belt 6A/B, having sophisticated components including radioactive source along with mechanical, electrical & electronics system/axillaries. However, if any new model installed, then operation & routine maintenance of same will also be in the scope of the firm.
6. **Metal detector:** - Round the clock operation & maintenance of Metal detectors installed at BCN#6A/B. Any new system installed elsewhere should also be in the scope of the firm.
7. **Dust Extraction & Suppression System, Pre-Wetting System, Ventilation System, Sprinkler System, Air Conditioners, Drinkable Water System, Water Purification System, De-Watering of Tunnels & Trenches, Sump Pumps:** -
- (a) Round the clock operation & Maintenance of Dust Suppression system installed at wagon tippers, Conveyor belts, Stacker-Reclaimers and transfer points, Dust Extraction system installed at crusher house and bunker floors/roof of unit 1&2, Ventilation system installed at wagon tippers, conveyor belts, ER-1&2, pent houses, transfer points, tunnels and emergency reclaim hoppers etc. Operation & Maintenance of water sprinkler system installed at Stockpiles 1,2,3&4, Pre-wetting system installed at wagon tippers, Sump pumps installed at wagon tippers, tunnels, transfer points, emergency reclaim hoppers etc and De-watering of tunnels, trenches, crusher house and transfer points etc. Operation & maintenance of Air conditioning system installed at wagon tippers, ER-1&2, Stacker-reclaimers (Operator cabin, Electrical room). O&M of Pump houses, Water storage tanks, Air compressors, Air receivers tanks etc. Operation & Maintenance of Drinkable water system, Water purification system/ RO system installed in CHP etc. Operation & maintenance of submersible pumps (dewatering & sludge) and borewell pump installed in CHP area. Operation & Maintenance of Electrical / Instrumentation /Lighting system and other associated/allied systems/equipments of above system.
 - (b) Topping of coolant in air compressors. Oiling and greasing of Bearings/ bushes and all moving parts of equipments, so as to maintain healthiness of CHP area. Attending of faults such as tightening/replacing of loose/broken nuts & bolts of the systems mentioned at 6(a), Alignment of pump & motors, Attending of leakages of air/water circuit/pipelines, leakages of pumps, cleaning of air & water filters, cleaning of spray/fog nozzles, cleaning of bag filters, cleaning of oil/air filters of air compressor etc. Replacement of "V" belt, fan impeller, gate/globe/float/ball/Non

return/solenoid valves, diaphragms of various valves, PU tubes, bearings/bushes, gland of pumps, packing/gaskets, Air/water filters, spray/fog nozzles, bag/oil/air/water filters, couplings, Oil seals, water line and strainers of air conditioners, Refrigerant gas, gland of refrigerant line, oil of compressors etc.

- (c) Attending various electrical parts like replacement of fuses, contactors, solenoid coils, water level sensors, relays, thimble, lugs, Insulation testing & replacement of motors, cables, etc. and taking corrective action.
- (d) Routine, Preventive, Planned, Breakdown maintenance and Overhauling of Mechanical, Electrical and C & I system of above equipments mentioned at 6(a) along with associated auxiliaries under Coal Handling Plant. Any modification required for effectiveness of system/equipments mentioned at 6(a) will also be under firm scope for which materials/spares will be provided by HPGCL.
- (e) Operation and maintenance of dust lifters.

8. Electrical Room-1,2 & 3, PMCC and PLC System of Main Control Room, Stacker Reclaimer & Wagon Tippler: -

- (a) Round the clock operation & maintenance of PLC/C&I system of main control room, ER-1, ER-2, ER-3, Stacker-Reclaimer 1, 2 & Wagon Tippers 1, 2, 3,4 and their respective Side Arm Chargers which consists of MIMIC panel, SCADA system of CHP, Processor panels, various DI/DO & AI/AO panels, WiFi panels, UPS panels (1KVA to 10KVA), VFD panels installed at Coal Handling Plant will be in the scope of the firm.
- (b) Operation & maintenance of Electrical Rooms-I, 2 & 3 which consists of 11/3.3/0.415 KV circuit breakers (SF6, Vacuum & ACB), 11/3.3/0.415KV switchgear panels, their relays & auxiliaries & their protection system, 11 to 3.3 KV Step down transformers, 11 to 0.415 KV step down transformers, Neutral grounding transformers, ACDB, DCDB, Battery chargers, Battery Bank (10AH & 400AH, Resistance panels, Lighting panels, Control & protection panels/system etc.
- (c) Operation & Maintenance of various Local Control Panels, Belt weigher panels, Junction boxes, ACDB, DCDB of various field mounted instruments/equipments, Lighting Panels, Welding Receptacles etc.
- (d) Checking/supervision of PLC/C&I system, electrical/protection/tripping circuits mentioned at 7(a),(b)&(c). Attending various electrical parts like blowring of electrical panels, replacement of fuses, auxiliary & power contactors, relays, modules, timers, thimble, lugs, measuring instruments, electronic cards, Switch fuse units, MCBs, Lighting fixtures, Lamps, Spare kit of contactors, bus bars, insulators, Lighting arrestors, various switches, limit switch, Sensors, pull cord switches, zero speed switches, Belt sway switches, belt tear protections, belt damage detectors, chute block limit switches, bulge wagon detection system, Insulation testing & replacement of motors, cables, transformers, switchgear panels and other associated systems etc. and taking corrective action.
- (e) Routine, Preventive, Planned, Breakdown maintenance and Overhauling of Electrical and PLC/C&I system of above system mentioned at 7(a),(b)&(c) along with associated auxiliaries under Coal Handling Plant will be in the scope of the firm.
- (f) Round the clock operation and routine maintenance/ providing skilled manpower to assist OEM (while attending breakdown) of Real time monitoring system installed in CHP.
- (g) In the event of any major failure/breakdown of PLC system it will be the responsibility of the firm to engage the services of OEM/Competent Engineer to revive the system.

9. Unloading of Coal/ biomass pellets, Cleaning and General Upkeep of CHP Area:-

- (a) Timely unloading of coal from the wagons within the free time offered by the Railway department. The approximate quantity of coal to be unloaded per month will be 5.0 Lac MT to

6.0 Lac MT which may increase or decrease during a month and the annual quantity may exceed 70 Lac MT (approximately).

- (b) Breaking of coal boulders, removal of stone boulders from grizzly of WT-1,2,3& 4 during unloading of coal wagons.
- (c) Indian, Imported,—washed coal and biomass pallets will be received in RGTPP during the currency of contract. Samples from loaded wagon and at the time of unloading of Indian/imported/washed coal at wagon tippler will be taken as per approved procedures of HPGCL. The firm will extend full cooperation to HPGCL or the agency engaged for taking coal samples. Efforts will be made to take samples in minimum possible time, however, there may be some delay in handing over the loaded wagons of Indian/imported/washed coal for unloading after taking the coal samples. Firm will not claim refund of demurrage if rake get delayed on this account.
- (d) Coal supplied by the various coal companies also contains stone/coal boulders. These coal boulders are required to be broken on grizzly and stone boulders are required to be removed outside of the grizzly for making grizzly clear for receiving ROM coal from next waiting wagon. The coal/stone boulders shifted outside from grizzly may contain coal pieces/ boulders along with the stones etc. These stones are to be jointly accessed by the HPGCL and Coal India Ltd officers jointly for settlement of claims. Therefore, the segregation of the coal and stone pieces and thereafter disposal of stones after weighment will be in the scope of firm.
- (e) Upto 250 mm size coal would pass through the gratings / grizzly provided at wagon tippler hopper. Oversized material will remain over the grating / grizzly and may cause choking. The firm will have to clear the choking by poking the coal through the grizzly. The oversize coal lumps will have to be broken into smaller pieces and fed into the hopper. Stones and boulders will have to be removed from the wagon tippler hopper grizzlies. Accumulation of coal inside or outside the wagon tippler hopper will not be allowed and will have to be cleared manually by the firm.
- (f) For breaking the big size of coal boulders into small pieces on grizzly, the firm will have to provide sufficient nos. of labourers along with hammers, belchias, panjas and other T&P such as Wheel Loader/JCB/Rock Breaker etc required for breaking/removal of stones and coal boulders. The additional machinery, other than available with HPGCL, will be in firm's scope. Chutes will have to be knocked / poked regularly to avoid chocking. The firm will also have, to keep clear hoppers of WTs regularly. In case of all the wagon tipplers 1,2,3 & 4 are to be operated, then extra labour will have to be deployed immediately.
- (g) Stones, boulders retained above grizzlies, collected under the tunnel / gallery of various conveyors due to stone picking process will have to be shifted manually/ mechanically through dumper/loader etc. by the firm to nearby areas as directed by Engineer-in-charge.
- (h) It will be the responsibility of the firm to ensure that all coal wagons received at RGTPP have been fully emptied before handing over these to railways for dispatch from RGTPP. The contracting firm will be held responsible for any loss to HPGCL on this account. Empty wagons will be inspected by HPGCL officials before release and the firm has to clear the wagons manually if any leftover coal is found. Firm will not claim any relaxation in demurrage if rake get delayed on this account.
- (i) Due to receipt of wet / powdered / boulder type coal in the WT hopper, Apron Feeder gets choked. Whole / Part quantity of coal is required to be evacuated for clearing the choking of Apron Feeder. Evacuated quantity of coal will be fed again in the system through dribble feeder provided below Apron Feeder. Coal dust / spilled coal in the wagon tippler area including Weigh Bridge pit, drive unit pit of WT, stair case and drains will also be cleared. All these works are to be carried out round the clock.
- (j) Unloading of Biomass pellets supplied in trucks in loose condition (not in bags) is in the scope of the firm. Firm should ensure availability of system and manpower for unloading of biomass.

Firm has to stock and preserve biomass pallets at separate area enmarked for this purpose and should blend the biomass pallets with coal as per direction of Engineer-in-charge.

(k) **Cleaning and Upkeep of CHP Area:-**

- (i) The firm will be responsible for removal of spilled coal and cleaning and sweeping of coal/dust/coal boulders etc. from all wagon tippers, conveyors, conveyor galleries, crusher house, stacker re-claimers area, all transfer point's, ground floor area of TP-11 to TP-15, RC feeder floor, bunker floor, buildings and equipments, apron feeders, chutes, sump pump pits, minus level area of reclaiming hoppers, pent houses, de-watering of CHP, cleaning of coal from drainage system, maintaining of coal flow in RC feeders, cleaning of head and tail pulleys of various conveyor belts, removal of chocking of coal from chutes, crushers, roller screens, stacker re-claimers, lifting foreign material from grizzly and these are to be shifted to a specified area and shifting of spilled coal with the help of tractor trolley/dumpers to coal stock yard. The pits of the wagon tippers are to be kept clear from coal, mud, slurry and other material. The coal taken from pits is to be fed either in to the hoppers of the tippler or in the coal stock yard areas, if doors of the wagons are opened for cleaning of left over coal, then they will have to close the doors of these wagons before release of empty rake.
- (ii) **Wagon Tippler & Apron Feeder Area:** - The firm will be responsible for cleaning of entire wagon tippler areas of CHP. Removal of spilled over coal from wagon tippler, cleaning and sweeping of coal/dust etc. from entire wagon tippler area, cleaning of cradle pit, static load cell bridges under cradle pit, LHS & RHS end frame pit, drive unit pit and track for side arm charger, removal of coal dust at inhaul & outhaul of wagon tippler area and from wagon tippler grizzly will also be firm's responsibility. The firm will also be responsible for cleaning of Apron feeder pan, structures, pulley, dribble conveyor/feeder, its pulleys, entire apron/dribble feeder floors, transfer chutes of apron feeder, wagon tippler 1, 2, 3 & 4 hoppers, entire transfer chute and flap gate floor below apron feeder, tail ends of conveyor 1A/1B/1C/1D, stairs of wagon tippler complex, and sump pits of WT-1,2,3 & 4. Removal of bird's nest, webs from wagon tippler complex and associated buildings. Washing of entire wagon tippler area, apron feeder area and transfer chute floor will be required to be done on twice a week basis or as and when required.
- (iii) **Conveyor System of CHP:-** Cleaning of conveyor galleries, gratings, structures, underground tunnels, sump pits, tail & head ends of conveyors, various conveyor pulleys, skirt board system, various idlers, return side of conveyors, transfer chutes, flap gates & their actuators, hoods, pent houses, head end floors of conveyors etc. will be the responsibility of firm. Removal of chocking/cleaning of transfer chutes will also be firm's responsibility. Removal of spilled coal, dust, coal boulders etc. from entire conveyor system of CHP is required to be done on daily basis. During rainy season firm will provide a separate gang of cleaning labour, equipped with required T&P, required for removal of chocking from chutes. Washing of conveyor galleries, floors, structure is required to be done on weekly basis or as and when required. Firm will remove the spilled coal/dust/boulders from conveyor system to dumping site/coal yard under CHP regularly on daily basis.
- (iv) **Crusher House Area:-** The firm will be responsible for cleaning of entire crusher house and its adjoining area. Removal of spilled coal, dust, coal boulders from floors of crusher house, cleaning of coal sampler and analyzer units, stairs provided in crusher house, elevators & their pits, cleaning of various equipments under crusher house such as roller screens, grizzly feeder, coal crushers, reversible belt feeders, transfer chutes etc. will be under firm scope. Removal of coal and cleaning of ground floor of crusher house is required to be done on daily basis. Firm will also ensure that coal dust from various floors of crusher house will be dropped by its cleaning labour through chutes provided in crusher house. Washing of crusher house floors is required to be done on daily basis.
- (v) **Stacker Re-Claimer Area:-** Unloading of crushed coal in the crushed coal stockyard & its reclamation will be done with stacker cum re-claimer. Complete track of Stacker cum Reclaimer will have to be kept clear of coal for free and safe movement of stacker cum re-claimer. Spillage from intermediate conveyor of stacker cum re-claimer and boom conveyor of stacker cum re-claimer will also be required to be cleared on daily basis. Cleaning of hydraulic power pack systems, bucket wheels, vibro feeders, various pulleys of intermediate & boom conveyor, cable

reeling drum, transformers, electric rooms, operator cabins, structures etc. will also be under firm scope. Removal of spilled coal, coal dust, coal/stone boulders from walkway, cable galleries, trenches, under conveyor posts, drive houses etc. is required to be done on daily basis. Cleaning of stockpile area, removal of wild growth of grass will be under firm scope. Any other work related with housekeeping of CHP is to be carried out by the firm as & when required.

- (vi) **Emergency Reclaim Hopper Area:-** The emergency reclaim hoppers are required to be cleaned on daily basis. Removal of chocking from grizzly of emergency reclaim hopper including its hopper will be under firm scope. Cleaning/removal of coal/dust from transfer chutes, rack & pinion gates, vibro feeders, sump pits, tail ends of conveyors under ERH complex, stairs and cleaning of floors of emergency reclaim hopper complex will also be firm responsibility. Washing of floors & galleries of ERH complex is required to be done on weekly basis or as and when required.
- (vii) **Cleaning of Transfer Point 1 to 15 including ground floors:-** Firm will be responsible for cleaning of various floors of transfer points 1 to 15 on daily basis. Removal of coal, dust and spilled over coal from these transfer points is required to be done on daily basis. Cleaning of elevator's & their pits is also required to be carried out by firm on day to day basis. Firm will also be responsible for not dropping the coal/coal dust in air from higher elevation of TP-11 to TP-15 in main plant area and same will be dropped through transfer chute provided at these TPs, otherwise heavy penalty will be imposed. Removal/cleaning of coal/dust spilled from conveyor galleries of conveyor 7A/B, 8A/B/C/D and from TP-11 to TP-15 to the main plant area & equipments, trenches, cable galleries and drains will also be firm's responsibility. However, firm will also ensure that there will be no spillage of coal to the main plant area from TP-11 to TP-15. The coal/coal dust fallen through chutes of TP-11 to TP-15 will be removed regularly on daily basis to dumping site/coal yard. Washing of floors of transfer points (TP-1 to TP-15) including their ground floors and stairs provided in these transfer points on daily basis or as & when required will also be under firm's scope.
- (viii) **Cleaning of Bunker Floor:-** The firm will be responsible for cleaning of Bunker floor of Unit-I & II. Any coal / stones / any other foreign material collected at Bunker floor due to any choking of bunker has to be cleared without any delay by the firm. Removal of coal, dust, boulders from bunker floors, bunker openings, tripper trolleys, bunker conveyor belts 8A/B/C/D and transfer chutes will also be under firm scope. The stone boulders from bunker floors will be removed properly avoiding any damage to men and materials. Washing of bunker floors on daily basis or as & when required will be under scope of the firm. Firm will also be responsible for emptying of coal bunkers of units as and when required either for maintenance purpose or due to long planned/forced shutdown of units or due to fire incidence in coal bunkers of Unit-1&2 of RGTPP, Khedar, Hisar. Firm will also be responsible for inspection of empty bunkers and its repair, if required.
- (ix) **Maintaining Coal Flow in RC Feeder:-** The firm will be responsible for maintaining the coal flow in RC feeders of Unit 1&2 of RGTPP on round the clock basis. Firm will provide a separate gang specialized in clearing chocking of bunkers along with required T&P. Firm will also ensure the that manpower at RC feeder floor is available on round the clock basis for maintaining the flow of coal.
- (x) **Cleaning of Main Control Room, Wagon Tippler Control Room, ER-1&2:-** The Firm will be responsible for cleaning and moping of floor of Main control room, wagon tippler control room, Electrical room 1&2, PLC room, battery charger room, battery room and ventilation rooms on daily basis or as and when required. Toilets/washrooms of these building are required to be cleaned on daily basis with toilet cleaners such as Harpic etc. Firm will also provide dustbin for dropping the waste materials. Removal of bird's nest, webs from these buildings will also be under firm's scope. Firm will also ensure that coal dust is not dropped in cable trenches of these buildings.
- (xi) **Rail Track of CHP: -** The rail tracks of wagon tipplers ,Stacker Reclaimers and Tipper trolley are to be cleared from coal and a distance of minimum 3 ft. on either side of the track before & after tippler area. Further, the accumulation of coal/coal boulders, dust soil etc. would not be

allowed in the yard and is required to be kept clean on round the clock basis. Removal of coal, dust, coal boulders etc. from post tippler area is required to be done on daily basis. Removal of wild grass, tree from rail track, slippers, blasts etc. will also be firm's responsibility.

- (xii) **De-watering of Tunnels and Cleaning of Trenches:-** Firm will be responsible for de watering of various tunnels such as wagon tipplers (TP-1 to TP-5) and ERH-1 & 2, ground floor area of crusher house, Transfer points, emergency reclaim hoppers area and cleaning of cable trenches and rain water trenches under coal handling plant.
 - (xiii) **Pump House, Compressor room, Sprinklers system and Dust Extraction system:-** Cleaning of various pump houses, compressor rooms, sprinklers system, dust extractions system floors of crusher house and bunkers will be under firm scope. Firm will also be responsible for removal of coal dust, on various equipments on daily basis. Removal of bird's nest, webs from these buildings will also be under firm's scope. Washing of floors of these buildings/system is required to be carried out by firm on daily basis or as & when required.
 - (xiv) **Cleaning of Road and Dumping of Coal/Coal Dust in CHP Area:-** Firm will be responsible for cleaning of coal from road spilled during transportation of coal from different area of plant to CHP. Firm will also be responsible for dumping of coal and coal dust cleared from various locations of CHP & other location of plant to separate dumping sites i.e. dumping of coal to coal stock yard/wagon tippler grizzly and dumping of stone boulders to the dumping site as per direction of Engineer-In-Charge. Firm will also provide a separate gang for washing of various area as already mentioned under point 9 (k) (i to xiii).
 - (xv) Firm will ensure that whenever bulge wagon is detected at bulge wagon detection system (installed before wagon tipplers) then such wagons will be removed by the firm and will be unloaded manually required or as per direction of Engineer-in-charge.
10. **Conveyor Belt Jointing, Belt Replacement / Laying, Re-Lagging of all type of Pulleys and Patching Work of Conveyor Belts.**
- (a) The scope covers the belt jointing work of complete conveyor belts of coal handling plant. There are 1200mm, 1600mm & 2000mm width conveyor belts in the coal handling plant having length of 15.0 KMs approximately.
 - (b) The belt jointing is to be done by the hot / cold vulcanizing process in CHP area at various elevations on all the different belts as and when required.
 - (c) All T&P, belt clamp, rubber vulcanizing solution and all type of consumables are to be provided by the firm. The firm will arrange for transporting conveyor belts and other material required from O & M store and deposits back the balance material to the store or at the place assigned by the Engineer-in-charge.
 - (d) Contactor will arrange de-coupling of gear box from geared coupling / release of thruster brake assembly for laying of belt, all coupling / brake assembly will be refitted after completion of work for smooth operation.
 - (e) Standard quality of cushion rubber and belts jointing solution will only be used after prior inspection of Engineer-in-charge.
 - (f) After completing the work of laying/jointing of the belt firm will carry out training/alignment of the belt and demonstrate by running the belt on the interlock for a period of at least half an hour before the Engineer-in-charge or his authorized representative. During each such trial run the belt should run without any sway with required troughing angle.
 - (g) The scope of work covers rubber re-lagging of conveyor drive /non drive/Bend pulleys etc of all size by hot or cold process in CHP area of RGTPP with rubber lagging sheets of required sizes to be provided by the firm.
 - (h) **The work of rubber lagging involves:-**

- i Dismantling / transportation of pulley from the site, if required.
- ii Scrapping of old rubber sheets.
- iii Grinding of pulleys.
- iv Rubber- lagging with-12 mm /10-mm thick rubber sheet of appropriate grade with cold vulcanizing solution or with hot process.
- v Re-fixing of pulley in position.
- vi Tensioning the belt if tension was released to take out the pulley.
- vii Before hot lagging marking of grooves on pulley will be required.
- viii Guarantee for repaired pulley is to be given by the firm for satisfactory performance of pulley in case of Cold lagging for 06 months minimum and in case of Hot lagging for 01 year minimum.

(i) **Technical specification of the material:**

Thickness : 12 mm for drive pulleys & 10 mm for non drive pulleys.

Rubber Quality : Natural Rubber

Shore Hardness : 60 on shore 'A'

Type of groove : Herringbone/Diamond Grooved or as per instructions of Engineer-in-charge.

11. **Reclamation work of reusable / damaged Conveyor Belts:** - The firm will be responsible for reclamation of the reusable / damaged conveyor belt at site at their own cost as per the direction of Engineer -in-Charge.

12. **Daily/Routine Work to be Carried out for Upkeep of CHP:-**

(a) **Conveyor Equipments:-**

- (i) Pulleys (different length and diameter) Bearings, Plumber Blocks etc.
- (ii) Rollers (Idlers), Roller frames (carrying, return, Self Align carrying, Impact).
- (iii) Chutes made out of MS and SS material, Skirt boards, Skirt rubbers.
- (iv) Flap/Sector gates with actuators.
- (v) Conveyor scales (belt weighers)
- (vi) Inline Magnetic Separators.
- (vii) Suspended Magnets.
- (viii) Pulse type Metal Detectors
- (ix) Vibro feeders, Rack and pinion gates.
- (x) Different types of gear boxes, Geared/Fluid/Scoop couplings, brake with thruster.
- (xi) Internal and External Scrapers.
- (xii) Travelling Trippers and associated equipments at Bunker Floor.

Detail of Work to be done during Conveyor Equipment Maintenance:-

(i) **Pulleys, Bearings & Plumber Blocks:-**

- (a) Periodical greasing.
- (b) Pulley alignment.
- (c) Clearance of bearings and labyrinth.
- (d) Tightness Bearing lock/check nut, Bearing housing bolts and Plumbers block bolts.
- (e) Replacement of worn-out Bearings/Sleeve/Locating ring/Pulley/Plummer block/other parts.

(ii) **Idlers (Carrying, Return, Impact) & Idler Frames:-**

- (a) Checking of correct positioning of rollers.
- (b) Changing /repairing of defective idlers.
- (c) Inspection of impact rollers rubber ring and replacement.
- (d) Alignment of rollers for smooth running of conveyor.
- (e) Checking of idlers frames and replacement/repair of the same.
- (f) Tightness of idlers frames.
- (g) To check for proper contact of roller with belt and alignment of the same.

(iii) **Chutes & Skirt Boards:-**

- (a) Replacement of chute MS plates/Sail hard plates with new one (MS/Sail hard/SS/Wear plates).
- (b) Tightness of chute flange bolts.

- (c) Sealing of chute joints- replacement of tail packing to avoid dust coming out.
- (d) Inspection of door sealing.
- (e) Adjustment/replacement of deflector plates to suit rainy and summer seasons.
- (f) Adjustment / replacement of skirt rubbers.
- (g) Tightness of complete skirt board bolts.

(iv) Flap Gate with Actuator:-

- (a) Periodical greasing of bearings. Tightness of plumber blocks bolts and stoppers.
- (b) Periodical alignment & checking.
- (c) Replacement and realignment of worn-out Sail hard/base plate with SS/MS/wear plate.
- (d) Greasing of Actuators spindle/bearings/bushes etc.
- (e) Replacement of spindle/bushes/bearings with new one.
- (f) Checking of free movement and complete matching of flap gate and realignment.
- (g) Shell sealing arrangement to be adjusted. Replacement of parts/units fully/partially as required.

(v) Belt Weighers:-

- (a) Periodical alignment / checking of belt weigher frames.
- (b) Tightness / checking of Techo-generator and adjustment.
- (c) Periodical checking of roller distances.
- (d) Replacement of worn-out parts / full unit & realignment.

(vi) In Line Magnetic Separators:-

- (a) Periodical checking of coolant oil.
- (b) Tightness of bolts of oil line & magnet.
- (c) Periodical changing of gaskets.
- (d) Periodical greasing of Turn Buckles.
- (e) Periodical checking of operation height and adjustments.
- (f) Periodical checking of suspension of magnets and repair/replacement.
- (g) Periodical greasing of bearings/plummer blocks/Take up bolts.
- (h) Replacement & realignment of pulleys/their lagging and damaged bearings/plummer blocks.
- (i) Periodical checking of endless belt and repairing if any.
- (j) Tightness of belt striker - replacement / repair in case of damage.
- (k) Periodical checking of Gearbox oil level and topping up / changing oil.
- (l) Replacement and realignment of worn-out parts / units fully / partially as required.

(vii) Suspended Magnets:-

- (a) Periodical checking of coolant oil.
- (b) Tightness of bolts of oil line.
- (c) Periodical changing of gaskets.
- (d) Tightness of magneto bolts.
- (e) Periodical greasing of Turn Buckles.
- (f) Periodical checking of operation height and adjustments.
- (g) Periodical checking of suspension of magnets and repair / replacement.
- (h) Replacement and realignment of worn-out parts / units fully / partially as required.

(viii) Pulse type Metal Detectors :-

- (a) Periodically checking of sand bag marker hook position.
- (b) Adjustment of search coil guards.
- (c) Replacement of damage parts / units and realignment.

(ix) Vibro Feeders, Rack and Pinion Gates:-

- (a) Periodical checking and alignment of Rack & pinions.
- (b) Periodical checking of drive motor and adjustment of unbalanced counter weight.
- (c) Periodical checking of bearing housing, shaft and Actuator assembly and lubrication.
- (d) Periodical greasing of Rack & pinions.
- (e) Replacement of damage parts/ units and realignment.

(x) Gearboxes:-

- (a) Periodical checking of oil level and refilling whenever required.
- (b) Tightness of Gear Box bed bolts and frame foundation bolts.
- (c) Greasing of Hold backs.
- (d) Breather cleaning.
- (e) Replacement of damage bearings/parts/full unit.
- (f) Alignment of drive unit when required

(xi) Flexible & Geared Couplings:-

- (a) Periodical greasing.
- (b) Inspection of spares periodically.
- (c) Tightness of Coupling bolts.
- (d) Periodical alignment of connecting parts.
- (e) Replacement of worn -out part/ full unit and realignment.

(xii) Fluid Couplings:-

- (a) Periodical checking of oil level. Refilling of new oil.
- (b) Tightness of coupling screws.
- (c) Correct positioning of rubber pads/flexible element.
- (d) Replacement of damage part/units and realignment.

(xiii) Scoop Couplings:-

- (a) Periodical checking of oil level.
- (b) Refilling of new oil.
- (c) Tightness of bed bolts and frame foundation bolts.
- (d) Correct positioning of scoop tube.
- (e) Periodical checking of leakages from hydraulic pump, hoses & attending these leakages, if any.
- (f) Periodical Checking of cooling fan, radiators assembly, pressure switches and temp gauges and making necessary adjustment.
- (g) Periodical Checking temperature and pressure of hydraulic oil.
- (h) Replacement of damage part/units and realignment.

(xiv) Thruster/Manual Brakes:-

- (a) Checking of oil level in thruster and filling.
- (b) Adjustment of brake shoes.
- (c) Clearance setting of brake shoes.
- (d) Thruster stroke adjustment.
- (e) Replacement of worn - out parts/ full unit and realignment.

(xv) Internal & External Scrapers:-

- (a) Adjustment of Scraper to avoid any coal sticking over belts.
- (b) Replacement of scraper blade in case of damage.
- (c) Greasing of housing bolt threads.
- (d) Periodical checking of rubber pads and replacement/repair.
- (e) Replacement of worn out parts/full unit and realignment.

(xvi) Travelling Trippers:-

- (a) Checking of oil level in gearbox and checking of oil and alignment of drive unit.
- (b) Greasing of pulley bearings and alignment of pulleys.
- (c) Repair / Replacement of any worn out parts of the equipments including chutes / gates etc.
- (d) Checking / adjustment of mechanical brakes.
- (e) Levelling/ alignment of rail, tightening and replacement of rail if required.
- (f) Repair/ replacement of travelling tripper festooning cable and festooning trolleys.

(b) Heavy Equipments:-

- (i) Wagon Tippers.
- (ii) Side Arm Chargers.
- (iii) Apron Feeders.
- (iv) Dribble feeders.
- (v) Vibrating Grizzly feeders.

- (vi) Roller screens.
- (vii) Ring Granulators (Coal Crushers).
- (viii) Stacker Reclaimers.

Detail of Work to be done during Heavy Equipment Maintenance:-

(i) Wagon Tippers:-

- (a) Periodical checking of oil level of gearbox & thruster and refilling whenever required.
- (b) Tightness of Gearbox/motor/thruster brake bed bolts and frame foundation bolts.
- (c) Adjustment of thruster brake shoes & clearance setting of brake shoes.
- (d) Tightness of nut-bolt of drive shaft rigid coupling, spur wheel, various Plummer blocks, first Plummer block, cradle table, pivot stool, LH&RH end frame, rake segment, side beam, clamping jaw, top stop beam etc.
- (e) Periodical checking of drive shaft bush/block, pivot stool shaft, Plummer blocks & bush.
- (f) Greasing of bushes & pinion of drive shaft, spur wheel, spur pinion, rack segment of left & right hand end frame, pivot stool Plummer block & bush.
- (g) Periodical checking of side beam/clamping jaw rubber pad and replacement, if required.
- (h) Periodical checking of OTLS, CAM and setting of tipping angle, if required.
- (i) Periodical checking of spill plate and spill plate rollers.
- (j) Periodical checking cradle table stool and.
- (k) Periodical checking of load cells & turn buckles of cradle table stool and setting/alignment if required for correct weightment/ "0" degree position.
- (l) Periodical checking of cradle table rail and Levelling/ alignment of rail, tightening and replacement of rail if required.
- (m) Periodical checking of wagon tippler grizzly and repair/replacement, if required.
- (n) Replacement and realignment of worn-out parts / units fully / partially as required.
- (o) Periodical checking of wagon tippler hopper plates.
- (p) Fabrication & erection of Grizzly/ grating of WT.

(ii) Side Arm Chargers:-

- (a) Periodical checking of oil level of hydraulic power pack and refilling whenever required.
- (b) Greasing of rack and pinion of charger travel mechanism, side arm bearing/Plummer blocks.
- (c) Adjustment of thruster brake shoes & clearance setting of brake shoes.
- (d) Tightness of nut-bolt of travel drive rack segment/planetary gearbox/hydraulic motor/shrink disc assembly/wheels, Side arm, wagon coupler, Plummer blocks.
- (e) Periodical checking of limit switch of arm up/down position, coupler engage/disengage position and travel limit switches.
- (f) Periodical checking of CAM and re-setting of travel mechanism, if required.
- (g) Periodical checking of counter weight assembly of side arm charger.
- (h) Periodical checking of hydraulic cylinder of side arm and coupler.
- (i) Periodical checking of oil leakages from flexible hose/union/joints and attending the leakages, if any.
- (j) Periodical checking of various valves, temp sensor, pressure switches and replacement, if required.
- (k) Replacement and realignment of worn-out parts / units fully / partially as required.

(iii) Apron Feeders:-

- (a) Periodical checking of oil level of gearbox and refilling whenever required,
- (b) Tightness of Gearbox/motor bed bolts and frame foundation bolts.
- (c) Periodical greasing of bearings/Plummer blocks/geared couplings.
- (d) Head and tail Pulley alignment. Clearance of bearings and labyrinth. Tightness Bearing lock/check nut, Plummer block bolts, supporting beam nut bolt, Coupling bolts.
- (e) Periodical checking of rollers and replacement of damaged ones.
- (f) Checking of liner/apron pan of apron chain and replacement of damaged liner/apron pan.
- (g) Periodical checking of looseness of apron chain and tightening the same from tail end.
- (h) Adjustment / replacement of skirt. Sealing of apron chain to avoid any leakages.
- (i) Replacement and realignment of worn-out parts / units fully / partially as required.
- (j) Replacement of apron chain.

(iv) Dribble Feeders:-

- (a) Periodical checking of oil level of gearbox and refilling whenever required,
- (b) Periodical greasing of bearings/Plummer blocks.
- (c) Head and tail Pulley alignment.
- (d) Clearance of bearings and labyrinth. Tightness bearing housing nut bolts.
- (e) Periodical checking of looseness of dribble belt and tightening the same by screw take up provided at tail pulley.
- (f) Periodical checking of rollers and replacement of damaged rollers.
- (g) Replacement and realignment of worn-out parts / units fully / partially as required.

(v) Vibrating Grizzly Feeders:-

- (a) Periodical greasing of bearings and cardan shaft coupling.
- (b) Periodical checking of drive motor and adjustment of unbalanced counter weight.
- (c) Tightness bearing housing bolts, back plate, deck plate, Screen plate, grid beam, motor foundation nut-bolts.
- (d) Adjustment and alignment of motor by adjusting pipe type foundation.
- (e) Periodical checking of drive and cardan shaft and replacement of damage/bend one.
- (f) Periodical checking of side walls, back plate, deck plate and screen plates and repairing/welding of damaged portion.
- (g) Checking of grid beam and replacement of damage grid beam.
- (h) Sealing of grizzly feeder to avoid any leakage of coal dust.
- (i) Replacement and realignment of worn-out parts / units fully / partially as required.
- (j) Fabrication & erection of Grizzly/ grating of GF.

(vi) Roller Screens:-

- (a) Periodical checking of oil level of gearbox, fluid coupling & roller shaft assembly and refilling whenever required.
- (b) Greasing of bearings and geared coupling periodically.
- (c) Tightness of Gear Box bed bolts and frame foundation bolts.
- (d) Periodical checking of roller shaft assembly, discs, shaft and replacement of damage/worn out parts.
- (e) Periodical checking of leakages from roller shaft assembly and if any, then replace oil seal of shaft assembly.
- (f) Periodical checking of gear of drive/roller shaft and replacement of worn out gear.
- (g) Replacement of liners of roller screen body.
- (h) Replacement and realignment of worn-out parts / units fully / partially as required.

(vii) Ring Granulators (Coal Crusher):-

- (a) Periodical greasing of bearings/plummer blocks and geared couplings.
- (b) Periodical checking of oil level of scoop coupling & refilling of new oil whenever required.
- (c) Tightness of crusher, scoop coupling, motor bed bolts and frame foundation bolts.
- (d) Periodical checking of crusher hammers, liner plates, breaker plates and replacement of damaged parts with new one.
- (e) Periodical checking of vibration sensor. Cleaning and repositioning of sensors in axial and radial direction of drive and crusher bearing blocks.
- (f) Periodical checking of zero speed switch mounted on crusher shaft.
- (g) Periodical checking of hydraulic door opening system. Checking of various leakages from hydraulic pump, cylinder, hoses & attending these leakages, if any.
- (h) Checking of suspension bar, suspension arm, spacers etc and replacement, if required.
- (i) Attending leakage of coal dust from door of crusher body regularly.
- (j) Correct positioning of scoop tube of scoop coupling.
- (k) Periodical Checking of cooling fan, radiators assembly, pressure switches and temp gauges and making necessary adjustment.
- (l) Periodical Checking temperature and pressure of hydraulic oil.
- (m) Replacement of damage part/units and realignment.
- (n) Daily cleaning of tramp iron trap.

(viii) Stacker Reclaimers:-

- (a) Periodical greasing of bearings/Plummer blocks, geared couplings and toothed rim segment.

- (b) Periodical checking of oil level of gearbox, fluid coupling, hydraulic power packs, thruster, centralized lubrication system and refilling whenever required.
- (c) Tightness of gearbox, motor and thruster brake bed bolts. Tightness of nut bolts of tooth rim segment, Plummer blocks, travel drive assembly, rotary table, supporting structures, fixed tipper assembly, vibrating feeders, rail fasteners, rail clamping system.
- (d) Periodical checking of boom luffing and slewing mechanism and taking corrective action accordingly.
- (e) Checking of various leakages from hydraulic pump, cylinder, hoses, union, joints & attending these leakages, if any.
- (f) Periodical Checking of cooling fan, radiators assembly, pressure switches and temp gauges and making necessary adjustment.
- (g) Periodical Checking temperature and pressure of hydraulic oil.
- (h) Periodical checking of bucket wheel and its transfer chute and replacement of liners, if required.
- (i) Periodical checking of travel drive and power & idle travel bogies.
- (j) Periodical checking of centralized lubricating system and ensuring round the clock lubrication of various moving parts of stacker reclaimer.
- (k) Periodical alignment / checking of belt weigher frames.
- (l) Tightness / checking of Techo-generator and adjustment.
- (g) Periodical checking of travel rail system and Levelling/ alignment of rail, tightening and replacement of rail, if required.
- (h) Periodical checking of drive motor of vibrating feeder and adjustment of unbalanced counter weight.
- (i) Periodical checking of thruster operated rail clamping and brake mechanism and taking corrective action such as oil top up, thruster brake shoes checking, pinion greasing etc.
- (j) Monitoring operation of Stacker reclaimer in stacking/bunkering mode for stacking of crushed coal and bunkering of coal to units respectively. Making observation and taking corrective action for optimum use of stacker reclaimer for crushed coal stacking/reclaiming during rainy/dry season.
- (k) Replacement of damage part/units and realignment.
- (c) Electrical (LT/HT), Power Transformer, PLC/C&I and Illumination System:-**
 - (i) HT/LT Electrical Switchgears.
 - (ii) Power Transformers (Dry & Oil Immersed Type).
 - (iii) Battery charger and UPS.
 - (iv) Illumination system.
 - (v) PLC/C&I system.

Detail of Work to be done during Electrical and PLC/C&I Maintenance:-

- (i) HT/LT Electrical Switchgears:-**
 - (a) Periodical cleaning/blowring of all LT/HT/ MCC & PMCC panels, Local/site control panels, Junction boxes, Distribution boards, Lighting panels, Electrical panels of High mast in various areas of CHP including marshalling yard.
 - (b) Replacement of fuses, auxiliary/power contactors, Analog/digital relays, Modules, thimbles, lugs, timers, measuring instruments, electronics cards, power supply units, switch fuse units, MCB's, Lighting fixtures, Lamps, Choke, Contactor spare kit, over load relays, bus bars, insulators, insulating strips of bus bar, Push button, Indicating lamps, limit switches, proximity switches, Photo cells, sensors, pull cord switches, zero speed switches, belt sway switches, terminal boxes etc.
 - (c) Replacement of Push on type/ Heat shrinkable type termination kits of LT/HT cables.
 - (d) Periodical checking of earthing/grounding circuit of LT/HT electrical system.
 - (e) Periodical servicing of LT Air circuit breakers and replacement of damaged parts.
 - (f) Periodical servicing of HT (Vacuum & SF6) breakers and replacement of damaged parts.
 - (g) Periodical checking of SF6 gas pressure and refilling if required.
 - (h) Periodical insulation testing of Bus bars, LT/HT cables, LT/HT panels, etc.
 - (i) Periodical contact resistance measurement (CRM) of HT & LT circuit breakers
 - (j) Maintenance of different types of Welding Receptacles,
 - (k) Removal of Circuitry faults of all LT/HT switchgears and equipments, Junction Boxes etc.
 - (l) Preventive Maintenance of all HT & LT panels, Variable Frequency Drives, resistance panels

- (m) Periodical checking of various parameters (Voltage, current & temperature) of LT/HT panels
- (n) Periodical servicing from OEM and replacement of damage part/units
- (o) Replacement of damage part/units.
- (p) Testing of calibration of 11 KV, 3.3 KV & 0.415 KV Current Transformer & Potential Transformer is to be done once in a year for ensuring proper metering and protection of the concerned HT/LT feeder/motor

(ii) HT/LT Electrical Motors:-

- (a) Decoupling, opening of foundation Bolt and shifting of damaged LT/HT Motors and installation of healthy/new motor.
- (b) Replacement of damaged bearings & assembly of HT/ LT Motors.
- (c) Periodical cleaning & greasing of all HT & LT Motors, Terminal box, cleaning of Insulators, Tightening of connection of HT & LT Motors, removal and reconnection Power cable of all HT & LT motors.
- (d) Periodical insulation testing of LT/HT motors.
- (e) Periodical checking of various parameters (Voltage, current & temperature) of LT/HT motors.
- (f) Periodical checking of vibration of LT/HT electrical motors.
- (g) Periodical greasing of LT/HT motors.
- (h) Replacement of damage part/units.

(iii) Power Transformers (Dry & Oil Immersed Type):-

- (a) Periodical checking of transformer oil level and refilling, if required.
- (b) Periodical checking of silica gel/breather and replacement, if required.
- (c) Checking of oil temp/winding temp on daily basis and taking remedial measure, if required.
- (d) Periodical tightness of LV/HV side cable connection and PSTB connections.
- (e) Checking of leakages from conservator tank, LT/HT bushings, cooling fins and attending the same, if any.
- (f) Periodical checking of buchholz relay, NGT and earthing circuit of transformer.
- (g) Periodical checking of oil level gauge and winding temp gauge.
- (h) Periodical testing of transformer oil (under HPGCL scope).
- (i) Periodical checking of LV/HV bus bar duct and checking of moisture and replacement of silica gel.
- (j) Periodical tightness of various nut-bolts of transformer and associated auxiliaries.
- (k) Cleaning of transformer and transformer yard, removal of grass, trees etc.
- (l) Periodical checking of LV/HV bushings, off load tap changer, lighting arrestors etc.
- (m) Periodical insulation testing of transformer winding/bus bars etc.
- (n) Removal of Circuitry faults of all LT/HT switchgears and equipments, Junction Boxes etc.
- (o) Cable jointing by using jointing kit or dressing, laying & replacement of LT/HT cables and repairing of old cable joints.
- (p) Preventive Maintenance of all Transformer protection panels etc.
- (q) Replacement of damage part/units.

(iv) Batteries, Battery Charger & UPS:-

- (a) Periodical cleaning/blowring of UPS panels, battery charger panels, batteries and their connecting cables etc.
- (b) Periodical checking of loose connections of control wiring/cables of battery charger panels and UPS panels.
- (c) Regular checking of voltage, current, temp and gravity of batteries and current, voltage checking of battery charger panels.
- (d) Periodical checking of filter capacitors of battery charger.
- (e) Periodical checking of Float/boost mode of battery charger.
- (f) Replacement of electronic cards, fuses, resistances, contactors, relays, thimble, lugs, batteries, power supply units, switch fuse units, MCB's, measuring instruments, over load relays, bus bars, insulators, insulating strips of bus bar, Push button, Indicating lamps etc.
- (g) Periodical checking of acid level of batteries and filling with DM water, if necessary.
- (h) Periodical servicing from OEM and replacement of damage part/units.

(v) Illumination System:-

- (a) Periodical cleaning /blowing of illumination system panels, DC lighting panels, MLDB, ELDB, ACDB, DCDB, Lighting panels at various locations of CHP including all transfer points, crusher house, stacker reclaimers, wagon tippler complex, tunnels, penthouses, Street lighting of CHP area and High mast of complete CHP including marshalling yard etc.
- (b) Attending of break down/repair replacement of all types of illumination fittings and panels.
- (c) Replacement of fuses, auxiliary/power contactors, relays, Modules, thimbles, lugs, timers, measuring instruments, electronics cards, power supply units, switch fuse units, MCB's, Lighting fixtures, Lamps, Choke, Igniters, fittings, contactor spare kit, over load relays, bus bars, insulators, Push button, Indicating lamps, sensors, terminal boxes etc.
- (d) Periodical checking of loose connections of cable in illumination system/lighting system.
- (e) Replacement of Push on type/ Heat shrinkable type termination kits of LT cables.
- (f) Removal of Circuitry faults of all illumination system and equipments etc.
- (g) Cable jointing by using jointing kit or dressing, laying & replacement of LT cables and repairing of old cable joints.
- (h) Preventive Maintenance of all illumination panels, lighting system, fixtures etc.
- (i) Replacement of damage part/units.

(vi) PLC/C&I System:-

- (a) Periodical cleaning/blowing of all PLC/C&I panels of ER-1,2&3, Stacker reclaimers, wagon tipplers, Local/site control panels, Junction boxes, AC/DC Distribution boards.
- (b) Replacement of fuses, glass fuses, Analog /digital relays, Modules, thimbles, lugs, timers, measuring instruments, DI/DO cards, AI/AO cards, power supply units, switch fuse units, MCB's, Lighting fixtures of PLC panels, Lamps, Push button, Indicating lamps, limit switches, proximity switches, Photo cells, sensors, pull cord switches, zero speed switches, belt sway switches, terminal boxes , bulge wagon detection system etc.
- (c) Preventive/routine maintenance of Engineering stations, computers, laptops of Coal Handling Plant.
- (d) Periodical checking/cleaning of bunker level sensors and photo cells of wagon tippler area.
- (e) Periodical checking of loose connections of control wiring/cables of PLC system.
- (f) Removal of Circuitry faults of all PLC/C&I system and equipments etc.
- (g) Cable jointing by using jointing kit or dressing, laying & replacement of control cables and repairing of old cable joints.
- (h) Periodical taking backup of engineering stations Studio 5000 standard, Studio 5000 mini & associated software of PLC system of complete CHP.
- (i) Periodical checking of communication (control-net) cable between ER-1 & ER-3, ER-1 & ER-2, and repairing of joints, if any. Replacement of communication (control-net) cable of PLC-A, B, C between ER-1 & ER-3, ER-1 & ER-2, if required.
- (j) Periodical servicing of complete PLC system of wagon tipplers, stacker reclaimers, conveyor belts, main control room by OEM.
- (k) Replacement of damage part/units.

(d) Other Associated/Allied Equipments:-

- (i) Sump pumps & their accessories.
- (ii) Dust extraction system and their accessories.
- (iii) Dust suppression system & Pump houses and their accessories.
- (iv) Ventilation system & their accessories.
- (v) Electrical, manual hoists, chain pulley blocks, mono rail blocks.
- (vi) Compressor.
- (vii) Pumps.
- (viii) AC System.
- (ix) Lift & Elevator.
- (x) HT/LT/ control cables & their cable trays

Detail of Work to be done during Maintenance:-

(i) Sumps Pumps:-

- (a) Periodical checking of bearing and rotor of sump pump motors for free rotation.

- (b) Periodical greasing of bearings and rotating equipments.
 - (c) Periodical checking of impeller, shaft, pump / motor mounting stools, impeller casing, discharge pipe etc. and their replacement if required.
 - (d) Repairing and replacement of headers, discharge pipelines, Valves (NRV/Check, Gate, Ball, Globe) etc.
 - (e) Tightness of bolts of sump pump assembly / sub-assembly ,flanges and valves.
 - (f) Replacement of worn out parts/ full unit and their re fixing and realignment.
- (ii) **Dust Extraction System:-**
- (a) Periodical checking of cyclones, screw conveyors, electrical motors, Fan / Impeller, DP switches, sequential controllers, pipe ducts etc.
 - (b) Periodical checking of leakage through joint & replacement of gasket & repair of pipes, if any.
 - (c) Checking of dampers for free operation.
 - (d) Alignment checking of fan assembly and tightness of vibrating pad and foundation bolts.
 - (e) Tension of 'V' belts to be checked and adjusted in case of damage, belt set to be changed.
 - (f) Fan bearing to be periodically greased.
 - (g) Periodical checking of bag filters, and leakage of flexible connections.
 - (h) Airline leakage to be checked and rectified.
 - (i) Replacement of worn out parts/ full unit and their re fixing and realignment.
- (iii) **Dust Suppression System & Pump House:-**
- (a) Periodical checking of air / water circuit (pipelines) under CHP area.
 - (b) Periodical checking of solenoid valves, coils, emergency push buttons etc.
 - (c) Periodical checking of water/air leakage and plugging of the same.
 - (d) Periodical checking & cleaning of spray nozzles and replacement in case of damage.
 - (e) Periodical checking of PU tubes, connectors, tees, air / water manifolds, rubber hoses, regulators, adaptors, valves etc. and replacement in case of damage.
 - (f) Leakage checking of valves (gate, globe, float, ball, Non return valves) and rectification /replacement/repair of the same.
 - (g) Flanges to be checked and gasket to be changed.
 - (h) Water strainer to be checked and cleaned periodically.
 - (i) Periodical checking/cleaning of water/air filters & replacement of same, if required.
 - (j) Checking of manometers/pressure gauges and replacement of the same.
 - (k) Replacement of worn out parts/ full unit and their re fixing and realignment.
- (iv) **Ventilation System:-**
- (a) Alignment checking of fan assembly and tightness of vibrating pad foundation bolts.
 - (b) Tension of 'V' belts to be checked and adjusted in case of damage, belt set to be changed.
 - (c) Fan bearing to be periodically greased and to be changed if damaged.
 - (d) Periodical checking of leakage in flexible connections.
 - (e) Filters to be cleaned / damaged filters to be changed.
 - (f) All joints to be checked and gaskets / packing are to be changed.
- (v) **Electrical/Manual Hoists, Chain Pulley Blocks & Mono Rail Blocks:-**
- (a) Maintenance of all the Electrical/Manual hoists provided for complete CHP.
 - (b) Periodical checking of various fuse/contactor/relay/switch & replacement of damage one, if any.
 - (c) Tightness of various electrical connections/junction boxes etc.
 - (d) Periodical greasing of gears, bearing and wheels.
 - (e) Periodical checking of filling eye.
 - (f) Replacement / repair of damaged parts / units and re- fixing in proper position.
 - (g) Repair of gantry rails, levelling of mono rails/ square bars.
 - (h) Periodical lubrication of load chains.
- (vi) **Compressor:-**
- (a) Periodical checking of safety valves installed on air receiver tank and to ensure that safety valves are in working order.
 - (b) Periodical checking and cleaning / servicing of complete compressor units.
 - (c) Periodical checking of air / oil / breather filters and cleaning / replacement, if required.

- (d) Check oil level and top up if necessary and cleaning of filters.
- (e) Periodical checking of V belts, separator tank, air cylinders, valves, solenoid valves, after / inter coolers, blow down valves, sensors / transducers etc. and replacement, if required.
- (f) Drain Air receiver condensate periodically/ daily.
- (g) Service the suction and delivery valves every six-month.
- (h) Check end gap of piston ring and condition of cylinder piston for wear scoring and replace, if any, in every six months.
- (i) Repack grease in main bearing and outer ball bearing housing of motor.
- (j) Periodical checking of radiator assembly and cleaning of same.
- (k) Change lubricating oil after every 300 working hours.
- (l) Coupling bolts to be tightened periodically.
- (m) Replacement of worn out parts/ full unit and their re fixing and realignment.

(vii) **Pumps for DS/Pre-Wetting/Sprinkler System:-**

- (a) Periodical checking of complete pump and its electrical motors.
- (b) Periodical checking of pump impeller, shaft, wear rings, interstage ring, lantern ring, bearing cartridge, bearing cover, sleeves, bearing housing, bush and pins etc.
- (c) Checking of flexible couplings and its spiders & replacement, if required.
- (d) Checking of gland packing, gaskets and their replacement, if required.
- (e) Alignment to be checked periodically.
- (f) Tightness of foundation bolts to be checked.
- (g) Greasing of bearing whenever required
- (h) Periodical checking of inlet and outlet headers and associated pipelines.
- (i) Water leakages needs to be plugged timely from pump and water lines.
- (j) Replacement of worn-out parts/ unit and realignment.

(viii) **AC System:-**

- (a) Attending breakdown if any.
- (b) Checking the system for refrigerant gas leakages.
- (c) Checking of glands of refrigerant line and tightening if required.
- (d) Refrigerant gas charging, if required.
- (e) Checking of oil level of compressors.
- (f) Checking of loading and unloading system of A.C. Compressors.
- (g) Adjustment of all air distribution system.
- (h) Cleaning of water lines and strainers.

(ix) **Lift & Elevator:-**

- (a) Cleaning of machines motors, controllers, electrical / electronic components and electrical control panels etc.
- (b) Checking and tightening of all the components and replacement of spares / components / equipments etc. if required for the safe and smooth operation of the elevator.
- (c) Providing lubricants, oil, greasing and rope preservation to all the moving parts including bearings and guides etc.
- (d) General Services and preventive maintenance of the elevators.
- (e) Complete O&M of the Lift & Elevator will be in the scope of firm. HPGCL will not supply any consumable or spare for O&M for the same. Firm will ensure smooth running of the Lift & Elevator installed in CHP at their own cost.

(i) **HT/LT/Control cables & their cable trays:-**

- (a) Cleaning of pathways of HT/LT/Control cables.
- (b) Repair of damaged HT/LT/Control cables.
- (c) Repair of damaged HT/LT/Control cable trays.
- (d) Replacement/Laying of new HT/LT/Control cables against faulty cables with proper route as per requirement of site.
- (e) Installation of new HT/LT/Control cable trays with proper route as per requirement of site
- (f) Cable jointing by using jointing kit or dressing, laying & replacement of LT/HT cables and repairing of old cable joints.

13. **Horticulture Activities, Beautification Work and Removal of Wild Grass, Watering & Trimming of Tress under CHP area:-**
- (a) The firm will keep a separate gang of malis for beautification of coal handling plant which will include maintenance of existing lawns, preparation of additional lawns. Firm will also provide supervisors specialized in horticulture activities for beautification work of complete CHP. This job involves removal of wild grass from the existing lawn and maintenance of various trees within the lawn, outside lawn but within CHP area. Daily watering of lawn and spray of insecticides/pesticides, if required, will also be carried out by firm. There are different type of trees in CHP such as between crusher house and road, between railway track and road in front of Electrical Room etc. The firm will provide a separate gang of Mali/horticulture staff for trimming and watering of existing tree/trees to be planted in near future in other areas of coal handling plant. The work involves periodical trimming and watering of tress and spray of insecticides/pesticides to maintenance health of tree. Tree branches are required to be dumped at dumping site mentioned by Engineer-in- charge.
- (b) The job involves removal of wild grass in coal handling plant area such as wagon tippler area, stacker reclaimer area along with stock piles, below conveyor galleries, crusher house area. The removal of wild grass around Main control room building, Electrical Room 1&2, various Transfer points, Pent Houses, pump house area and transformer yard near Electrical Room-1 etc. The removed wild grass from different site is required to be dumped at dumping site mentioned by Engineer-in- charge. The burning of wild grass without permission of RGTPP authorities is strictly prohibited.
- (c) Any other work related to beautification work of CHP area and removal of wild grass, watering & trimming of tress specified by Engineer-In-Charge will also be under firm scope.
14. **Shunting Operation of Loaded/Unloaded Coal/Oil Rakes:** - Shunting operation of loaded coal/oil rakes received at RGTPP from marshalling yard (reception yard) to wagon tipplers/oil unloading stations will be under firm's scope. The shunting operation of unloaded coal/oil rakes from wagon tipplers/oil unloading stations to marshalling yard (dispatch yard) will also be under firm's scope.
15. **Weighment of Loaded/Unloaded Coal Rakes/Wagons:** - At RGTPP coal rakes of Indian / Imported / Washed coal will be received during execution of contract. Weighment of these loaded / unloaded rakes / wagons of coal at in motion weigh bridges installed at marshalling yards and static weigh bridges installed at wagon tipplers will also be under firm scope. Firm will provide operators at control rooms of In-motion Weigh Bridge and that of wagon tippler on round the clock basis for weighment of loaded / unloaded wagons and required to take printout from the weighment system and submit the same to the RGTPP authorities on daily basis.
16. **Bunkering / Stacking / Reclaiming of Coal/biomass pallets:** - Stacking of Indian/imported/washed coal and biomass pallets, received at RGTPP, from wagon tipplers/trucks to stockpiles of CHP and bunkering of Indian/imported/washed coal from wagon tipplers to bunkers of Units of RGTPP will be under firm's scope as per direction of Engineer-In-Charge. Reclaiming of coal/biomass pallets from stockpiles of CHP to bunkers of Units of RGTPP will also be under firm's scope. Firm will ensure coal should be visibly wet while stacking of coal in coal yard so as to minimise coal dust emission in the surroundings. Firm will ensure operation of water sprinklers on conveyor belt BCN-4A & 4B during stacking and reclaiming of coal. Firm will ensure round the clock deployment of separate manpower for coal yard management for sprinkling of water on coal heaps in stockpiles, quenching of smouldering, cleaning of drains, removal of wild growth, housekeeping of coal yard etc. Firm will ensure proper storage and preservation of biomass pallets in all weather conditions.
17. **Blending of Coal:** - Blending of Indian/imported/washed coal and biomass pallets from wagon tipplers/stockpiles by using various systems of coal handling plant as per direction of Engineer-In-Charge will be under firm scope. The percentage of blending may vary from day to day basis and firm will be required to blend the coal as per direction of Engineer-In-Charge.

18. **Maintenance & Housekeeping of Yard Master Building/Rooms:-** The maintenance and housekeeping of yard master room meant for railway staff will be under firm's scope. The scope of work includes daily changing of Bed sheets, Pillow cover, Blanket covers, Towels, topping up of water in desert cooler during summer season, arrangement of Potable water during interruption of regular potable water supply. Washing of bed sheets, towels, blanket covers, pillow covers, curtains etc. will be in the scope of the firm. Firm will be responsible for cleaning of rooms, entire buildings, dusting of all the rooms and their equipments, moping of floor of yard master rooms/building, cleaning of toilets, removal of jalas etc. on daily basis or as per requirement. Firm will also be responsible for providing mosquito repellent, deployment of Carpenter, Plumber & Electrician, whenever required. All the spares required for various equipments of yard master room will be provided by RGTPP. Utensils for cooking/serving, LPG Gas, Gas stove, moping cloths, washing soap, surfs, phenyl, Harpic, naphthalene balls, hand wash, soaps, wipers etc. will be provided by the firm. Firm will ensure deployment of cook, laundryman; sweepers etc. on round the clock basis. In case more rooms have to be arranged for railway rake crew due to shortage of beds in yard master room, then it will be the responsibility of the firm to arrange the rooms, either in rest house of RGTPP (at firm's expense) or in hotels in vicinity of the plant as deemed fit and provide vehicle to crew members for their to & fro movement to rest rooms.

19. **Operation & Maintenance of Weighment Systems:-** The firm will be responsible for operation & comprehensive maintenance of 3 Nos. In Motion Weigh Bridges at Railway gate of RGTPP, 04 nos. Static Weigh Bridge at wagon tippers and 12 nos. belt weighers installed at CHP/RGTPP. The firm will associate and extend necessary assistance for getting the weighbridges inspected/ rectified/tested & sealed from the inspectors of Legal Metrology Department of Haryana. Repair / maintenance of printers (Dot matrix & LaserJet) including arrangement of paper of different sizes for taking printout of coal / oil rakes (loaded / empty), refilling of cartridge and repair / maintenance of computer system including up-gradation of operating software (Window XP, Window 7, 8, Vista etc.) provided at weighbridges (Static & In-Motion) will be in the scope of firm.

The calibration of these weighment systems/Belt weighers will be in the scope of HPGCL including arrangement of railway standard test wagon/standard weights. The calibration of these systems will be witnessed by HPGCL, OEM, Coal agent or any other agency decided by Engineer-In-Charge. HPGCL will arrange standard test wagons of Indian Railways for 04 days for calibration of weighbridges and hiring / haulage charges for the same will be borne by HPGCL. Demurrage charges and Hiring charges beyond 04 days applicable (if any) on Railways standard Test Wagons due to over detention or any other reason will be borne by the Firm.

20. **Services of OEM for Consultancy/Execution:-** The services of OEM (one time or AMC basis as the case may be) like M/s. ELECON, M/s. Rockwell Automation, M/s. Control & Switchgear, M/s. Prayas Engg., M/s. L&T, M/s. ABB Limited, M/s. PIMA Controls, M/s. Rexroth, M/s Parker, M/s. Kirloskar, M/s. SIEMENS, M/s. Allen Bradley, M/s. Caldyne Automatics Limited, M/s. HIREL Electronics, M/s. Bonfiglioli, M/s. Premium Transmission, M/s SAN, M/s BEML, M/s. JCB, M/s. Tractor India Limited, M/s. Fushun, M/s. Areva, M/s. Voltamp, M/s. Intra Vidyut, M/s. Marathon, M/s. Positronix, M/s. Thermo Fisher Scientific India Pvt. Ltd., M/s. Rice Lake, M/s. Emerson, M/s. Exide, M/s. Microtech, M/s. ECE, M/s Ingersoll Rand, M/s WPIL, M/s Su Motors, M/s Mody Industries, M/s F Harley, M/s Lub Systems, M/s Elecktromag Methods, M/s Hindustan Hardy Limited, M/s Oilvacal Corporation, M/s Rothe Rede, M/s Thyssen Krupp etc. are required for servicing/ consultancy/supervision/ for execution of any critical job, same will be in the scope of firm. Additionally, the firm will arrange visit of service engineer of M/s Elecon (half yearly), M/s Rexroth (half yearly), M/s Rockwell Automation or their system integrator (annually), M/s Ingersoll Rang (quarterly), M/s L&T (half yearly), M/s ABB (half yearly), M/s HBL (annually), M/s Exide (annually) for periodic health check-up/scheduled servicing of respective equipments. If firm fails to provide such services then RGTPP will be at liberty to call the OEM at the risk & cost of the firm and charges on such account will be debited to firm's account with 15% extra charges. If in any case, the CHP O&M contractor is willing to award

the AMC/service order to OEM but the OEM of equipment can't accept the AMC/service order proposal due to internal policy matter, then HPGCL will directly award AMC/service order to that OEM and cost of the same will be recovered from CHP O&M Contractor without any extra loading, considering the circumstances are beyond the control of contractor. Decision of Engineer-in-Charge will be final and binding on the firm.

21. Quenching of Smouldering of Coal/Coal Boulders, Compaction of Crushed Coal and Shifting of Crushed Coal in CHP Area:-

- (a) The firm will be responsible for quenching of smouldering of crushed/uncrushed coal in CHP area. A separate team have to be deployed round the clock for spraying water in coal yard to avoid smouldering of coal. The firm will also be responsible for regular operation of sprinkler system of stock pile 1,2,3,& 4 to minimize smouldering of crushed coal.
- (b) Firm will ensure regular compaction of crushed coal in the coal stockpile area and in dumping site of CHP as soon as the crushed coal/uncrushed coal stacked in the stockpiles and at dumping site respectively. The contractor will operate required machinery for compaction of ROM/ Crushed coal stacked. Each layer of stacked coal should be compacted immediately to avoid combustion/smoldering in coal. He will maintain proper record of compaction hours daily & monthly and produce to Engineer-in-charge as & when asked by him. Firm will maintain proper record of compaction hours daily & monthly and produce to Engineer-in-charge as & when asked by him.
- (c) Maintenance of various registers, implementation of standard coal yard procedures should also be the responsibility of the firm.
- (d) Shifting of crushed coal within the stock piles and to emergency reclaim hoppers will be under firm scope. In CHP, RGTPP. There are four stockpiles of size 600 meter length and 45 meter width.

22. Shifting, Segregation and Weighment of +250mm Stones:-

- (i) Shifting, segregation, weighment of +250 mm size stones including it's dumping at dumping sites of RGTPP, Khedar, Hisar will be under firm scope. The firm will have to shift the coal boulders & stones from the wagon tippler grizzly, post tippler area or any other site to the segregation site.
- (ii) Firm will have to ensure the complete segregation of coal boulders & stones in two different stacking heaps. The firm will also be responsible for crushing the coal boulder either manually or with the help of heavy machinery equipments such as dozers, loaders etc. in the segregation yard/site. The firm will also be responsible for shifting of crushed coal boulders from segregation yard to wagon tippler grizzly or stockpiles of CHP as per direction of Engineer-In-Charge.
- (iii) The weighment of +250 mm stones & it's dumping to the dumping site at RGTPP or any other place as per direction of Engineer-In-Charge in the presence of representatives of M/s Coal India Limited will also be under firm's scope. The weighment & dumping of less than 250 mm stones will also be in the scope of the firm.

23. Round the Clock Deployment of Stone Pickers:- The job involves manually picking up and removal of stones, iron pieces, hammer pieces, shales etc coming along with coal and moving with coal on running conveyor belts 2A/2B/2C/2D, 5A/5B, 6A/ 6B and boom conveyors of both stackers. The belts are normally inclined and running at a speed of 3.1 to 3.4 m/s. The firm has to restrict the entry of foreign material while bunkering of coal. The penalty as per the penalty clause will be imposed for each of the default such as ingress of stone/ foreign material in the RC feeder etc. Cleaning of conveyor gallery at the stone picking points from stones/ coal boulders and other foreign material will also be in the scope of firm.

24. Painting of structure/ equipments in CHP: - The firm will carry out painting (Brush/ spray) of various structures/ equipments of CHP, including Heavy Machinery of approximate 25,000 sq meter per year as per directions & schedule given by Engineer-in-Charge (EIC). Some of

structures in CHP are in inclined shape ranging from approximate +55 meters to -20 meters from ground level. In case the firm is not able to complete the total area of 25,000 square meter in a year then deductions will be made @ Rs 50/- per square meter for shortfall area. If this shortfall (total area out of 25,000 Sq meter) is carried out in next year in addition to scope of work of that year then deduction on shortfall area shall be refunded. Any excess area painted by the firm will be carried forward to next year and will be counted towards next year painting area. Overall, firm is required to paint 75,000 sq. mtr. of area in 3 yrs. of contract period. All type of paint/ primer will be supplied by HPGCL, however the other consumables like brush, spray nozzles, thinner, old dhoti, scaffolding etc required for painting shall be in the scope of firm. In addition to this, writing of number of words on various equipments/ idler frames/ structures/ panels and Fabrication of boards, sign boards as per ISO requirements including their paintings and writing of instructions etc shall also be in the scope of firm.

25. **O&M of Potable water purifier in CHP:** - Potable water over head tanks are provided at ER-1, 2 & Site Store for drinking and use at washrooms under CHP area. Firm will be responsible for upkeep of complete potable water system including operation of pumps, repairing / replacement of associated pipelines / valves etc.
26. **Rain Water Harvesting System:** - O&M of rain water harvesting system installed adjacent to Rain Harvesting Pond (Near DM plant) in RGTPP will be in the scope of firm. At presently, water from rain water harvesting pond is being used at Stockpiles for sprinkling on coal heaps. This will include operation & maintenance of 02 nos. LP water pumps along with their motors, water line of 1100 meters having diameter 200 NB with their valves etc. Firm will also be responsible for replacement of damaged / worn out parts / spares of complete water evacuation system.
27. **Scrap deposition:** The scrap to be returned in (O&M) store shall be item wise i.e., MS Scrap, Aluminum Scrap, Copper Scrap, Bearing, Scrap, Belt Scrap etc. The damaged / used chokes, couplings etc. are to be dismantled and individual material's scrap shall be returned in (O&M) Store.
27. Irrespective of plants are in operation/shutdown and coal rakes are being received or not, the dozers are required to keep in operation of controlling of smouldering in coal stocked in stock yard. The firm has to arrange minimum HSD quantity per month keeping in view of the quantity of stocked coal as detailed below:-

Sr. No.	Coal Stock during the month (MT)	Min. HSD consumption (KL)
1	50000-100000	5
2	100001-200000	7.5
3	200001-300000	12
4	300001-400000	17.5
5	400001-500000	20
6	500001-600000	25
7	>600001	27.5

Note: - The average of opening and closing balance of respective month will be considered as coal stock during the month for considering min. HSD consumption. HSD consumption will be reconciled quarterly and if HSD consumption is found less than required average quarterly consumption, then shortfall in diesel consumption will be recovered from RA bill of the firm at prevalent HSD rates.

28. **Miscellaneous Repairs / Replacement:** - The firm will have to carry out repair of conveyor gallery structure, tower structure, transfer points structure etc if required. The firm will have to carry out maintenance of any other equipment connected with the system and not listed above as per the directions of Engineer-in-charge. Firm will also be responsible replacement / erection of new coloured pre-coated sheets of conveyor galleries & transfer points, crusher house, wagon tippers complex etc. (new color pre-coated sheets will be provided by HPGCL).

Note:-

1. The above scope of work is only to give broader guidelines to the firm; however, firm will be responsible for carrying out Operation & Maintenance of the system as per standard O&M instructions/recommendations of the OEMs and as per the directions of Engineer-in-charge.
2. Any other work though not covered above but required for smooth and trouble free operation of Coal Handling Plant along with all associated systems will be deemed to be included in the scope of work of firm under this contract.
3. Any modification required for improving performance of coal handling plant will also be in the scope of firm.
4. If any extra manpower highly skilled/skilled/unskilled which will be required in future due to any modification/new installation will be in the scope of firm without any extra charges to HPGCL.
5. All the material required for repairs/works in above mentioned points (1 to 4) will be provided by the HPGCL, however, all the consumable required for completion of these activities will be under firm scope.

NOTE- 1. The firm should inspect the site to make themselves acquainted with the complete process of unloading and allied matters to access the progress of manpower deployed and to access the actual requirement of man power per shift. Due to the varying nature of job, the firm may have to depute additional manpower required at short notice. In short the firm should have sufficient persons/ labour at all the times at their disposal.

**For Executive Engineer/CHP,
 Chief Engineer/RGTPP,
 HPGCL, Khedar, Hisar.**

Detail of Equipments of CHP, RGTPP, Khedar, Hisar.

1.	Belt Conveyor, BC 1A/1B/1C/1D	
2.	Belt Conveyor, BC 2A/2B/2C/2D	
3.	Belt Conveyor, BC 3A/3B.	
4.	Belt Conveyor, BC 4A/4B (Reversible Belt Conveyor of Stacker Re-claimer)	
5.	Belt Conveyor, BC 5A/5B	
6.	Belt Conveyor, BC 6A/6B	
7.	Belt Conveyor, BC 7A/7B	
8.	Belt Conveyor, BC 8A/8B/8C/8D	
9.	Belt Conveyor, BC 9A/9B	
10.	Belt Conveyor, BC 10A/10B.	
11.	Belt Conveyor, RBF-1/RBF-2 (Reversible Belt Feeder 1 / 2)	
12.	Travelling Trippers	(04 Nos.)
13.	Slurry Pumps	(04 Nos.)
14.	Wagon Tipplers with Apron Feeders and Dribble feeders	(04 Nos.)
15.	Ring Granulators (Coal Crushers)	(04 Nos.)
16.	Roller Screens	(02 Nos.)
17.	Vibrating Grizzly Feeders	(02 Nos.)
18.	Stacker-cum- Re-claimers and associated equipments/auxiliaries	(02 Nos.)
19.	Vibrating Feeders of ERH	(08 nos.)
20.	Inline Magnetic Separators	(06 Nos.)
21.	Suspended Electromagnets	(06 Nos.)
22.	Pulse type Metal Detectors	(02 Nos.)
23.	Motorized Travelling Trippers	(04 Nos.)
24.	Flap Gates	(38 Nos.)
25.	Rack & Pinion Gates	(08 Nos.)
26.	Rod Gates	(08 Nos.)
27.	Dust Extraction System	
28.	Dust Suppression Dry Fog Type System & Plain Water Type System	
29.	Ventilation System	
30.	In Motion Weigh Bridge	(03 Nos.)
31.	Integrated (Static) Weigh Bridge	(04 Nos.)
32.	Electric Hoists & Manual Hoists	
33.	Online Coal Analyzer	
34.	Goods Lift	
35.	CHP Auxiliary Transformers (CHPTA)	
36.	CHP Auxiliary Service Transformers (CHPTS)	
37.	CHP Switchgear	
38.	CHP PMCC	
39.	Bunker Floor MCC	
40.	Wagon Tippler MCC	
41.	Bulldozers	(08 Nos.)
42.	Loaders	(03 Nos.)
43.	Excavators / Poclains	(02 Nos.)

44.	Dumpers 35 T	(04 Nos.)
45.	Dumper 10 T	(02 No.)
46.	Locomotives	(06 Nos.)
47.	JCB	(01 No.)
48.	Tyre mounted Mobile Crane	(02 Nos.)
49.	Crawl mounted Mobile Crane	(01 No.)
50.	Tractor	(02 No.)
51.	Trolley	(01 No.)
52.	Water Tanker	(01 No.)
53.	Split/Window/Duct AC's	(21 Nos.)

Note: - The number of equipments may increase as per requirement for smooth operation of CHP of RGTPP. No extra charges will be paid to the firm to operate and maintain additional equipments during the period of contract.

**For Executive Engineer/CHP,
 Chief Engineer/RGTPP,
 HPGCL, Khedar, Hisar.**

Detail of Conveyor Belts Installed at CHP, RGTPP, Khedar, Hisar.

Sr. No.	Conveyor No.	Capacity	Conveyor Length (Meter)	Belt Width (mm)	Belt Length (Meter)
1.	1A/1B/1C/1D	1200 TPH	197/193/149/146	1200 mm	412/405/322/312
2.	2A/2B/2C/2D	1200 TPH	286/282/278/274	1200 mm	602/595/586/579
3.	RBF-1/RBF-2	2400 TPH	25/24	1600 mm	56/54
4.	3A/3B	1200 TPH	211/211	1200 mm	466/466
5.	4A/4B (SR-1 & 2)	1200 TPH	759/759	1200 mm	1591/1591
6.	5A/5B	1200 TPH	216/216	1200 mm	452/452
7.	6A/6B	2400 TPH	513/513	1600 mm	1066/1066
8.	7A/7B	2400 TPH	232/232	1600 mm	552/552
9.	8A/8B/8C/8D	2400 TPH	84/84/84/84	1600 mm	200/200/200/200
10.	9A/9B	1200 TPH	176/178	1200 mm	379/381
11.	10A/10B	1200 TPH	255/254	1200 mm	553/550
12.	Dribble Feeder	30 TPH	14/14/14/14	2000 mm	28/28/28/28

**Executive Engineer/CHP,
For Chief Engineer/RGTPP,
HPGCL, Khedar, Hisar.**

Scope of Work of Heavy Machinery

1. Detail of Heavy Machinery available at RGTPP, Khedar, Hisar:-

Sr. No.	Type of Machinery	Make	Model/Capacity	Quantity
1.	Diesel Locomotive	SAN	DL-800-SPP-HDR.IV-BB-BG-90T	06 Nos.
2.	Bulldozer	BEML	BD-155	08 Nos.
3.	Dumpers	BEML	BH35	04 Nos.
		EICHER	20.16K	02 No.
4.	Excavator	BEML	BE71	02 Nos.
5.	Loader	BEML	BL-200-1	03 Nos.
6.	JCB	JCB	3DX/Backhoe	01 No.
7.	Tyre Mounted Mobile Crane	Tractor India Limited	25 T	01 No.
8.	Tyre Mounted Mobile Crane	Tractor India Limited	10 T	01 No.
9.	Crawl Mounted Crane	Fushun	80 T	01 No.
10.	Tractor	Farm Track	70 HP	02 No.
11.	Tractor's Trolley	-	-	01 No.
12.	Water Tanker	-	-	01 No.

2. **O&M of Heavy Machinery:** - Operation and maintenance of all above heavy machinery will be in the scope of firm. Preventive and routine maintenance of engine, transmission & other components as per OEM recommendations will be in the scope of the firm, the same will be carried out at site. However, major overhauling of these components will be carried out by HPGCL.
3. The firm will be required to prepare the list of spares of above mentioned heavy machinery required for maintenance job under ARC. However, the spares will be supplied by HPGCL.
4. Diesel for running of heavy machinery etc. in CHP areas is in scope of firm, therefore, it is the sole responsibility of the firm to follow all norms of storing diesel, in accordance with the directions of explosive department.
5. Other Consumables like Lubricants will be in the scope of HPGCL. All other consumables like cutting gas / welding electrodes (General Purpose only), cotton waste, all tools and tackles including special tools etc. will be in the scope of firm including changing of lubricants, fuel. However, T&P available with RGTPP can be utilized by firm free of cost.
6. Housekeeping and other allied jobs which are not specified above required to be carried out for smooth running of heavy machinery will be in the scope of firm.
7. Adequate maintenance staff will be deployed round the clock to attend the breakdown /preventive maintenance in shifts and carrying out other maintenances in general shift for smooth running of the heavy machinery.
8. Local transport of spares of heavy machinery to Hisar/Barwala will be in the scope of firm. Repair of self-starter / alternator, tyres & tubes will be in the scope of firm.

9. The firm will ensure that only skilled /experienced operators having valid heavy machine license for operating heavy machinery like Bulldozers, Loaders, Poclains, Dumpers, Excavators, Locomotives, JCBs, Cranes etc. are deployed.
10. Petty repair work as detailed below will be in the scope of contractor:
 - a. Repair/ rewinding of self-starter / alternator by replacing carbon bush etc.
 - b. Repair/ puncture/installation of Tyre & Tubes, however new tyre & tubes will be provided by HPGCL.
 - c. Repair/ replacement of damaged windshield/ window glasses/ wiper blades.
 - d. Repair/ replacement of damaged horn/ backlights.
 - e. Repair/ replacement of damaged/ worn out battery terminals.
 - f. Repair/ replacement of damaged side mirror/ looking glass.
 - g. Repair of damaged end connection/ couplings of hose pipes.
 - h. Arrangement of general purpose O-rings (except the special O-rings)
11. Heavy Machinery shall be provided on “as is where is” basis and it will be responsibility of the contractor to maintain it in operational condition. Arranging extra equipment /machinery if necessitated in the interest of work shall be in the scope of contractor. HPGCL shall not provide any spare/ consumable for the extra machinery arranged by the contractor. Firm shall be sole responsible for its machinery, however its proper entry/exit record shall be maintained by the firm.
12. The receipt of coal rake and running of various units may vary up to any extent depending upon various factors such as power demand, coal supply by coal companies, availability of wagons by railways, seasonal fluctuations etc. The firm shall use its resources such diesel, human resource judiciously for optimum efficiency. No claim in this regard shall be entertained by HPGCL.
13. Excuses such as high HSD consumption due to receipt of more or less no. of coal rakes or any other site conditions such as receipt of stones/ coal boulders, reclaiming of coal from stockpiles, compaction of coal etc. will not be entertained and if contractor fails to operate the heavy machinery equipment or avoids the running of equipment sighting these reasons then same will be arranged by HPGCL and charges equal to 1.5 times the value of HSD procured will be deducted from contractor's account.
14. Firm shall provide Heavy machinery (i.e. any of Dozer, loader, poclain etc.) of HPGCL along with Diesel & operators for maximum 15 hrs. in a Month (if required) to be used as per instruction of Engineer in charge in the areas which are not covered in coal handling plants for plantation, clearing of wild grass etc.
15. Hiring of additional heavy machinery like loaders, JCBs. Dumpers etc. in CHP for various activities including breaking/removal of stones from wagon tippler grizzly if required for smooth operation of CHP will be in the scope of firm.
16. The contractor will award AMC of heavy machinery equipment with OEM i.e. BEML/ Cummins/Kirloskar/ Ashok Leyland etc. If in any case, the CHP O&M contractor is willing to award the AMC to OEM but the OEM of equipment can't accept the AMC proposal due to internal policy matter, then HPGCL will directly award AMC to that OEM and cost of the same will be recovered from CHP O&M Contractor without any extra loading, considering the circumstances are beyond the control of contractor.
17. Firm will deploy experienced maintenance staff such as minimum 04 no. of well experienced Mechanic having knowledge of Engine, Transmission etc of Heavy Machinery items. Minimum 03 no. of well experienced Mechanic for Locomotive. 2 no. Supervisor/ Service Engineer with minimum 2 years experience for overall supervision & maintenance of record. Auto Electrician, skilled & unskilled labour for running and preventive mtc. jobs to be attended round the clock as per detail given in detailed scope of work.

Detailed Scope of Work of Heavy Machinery:-

Sr. No.	For General shift
	Bulldozers, Loaders, Dumpers & Poclains
1.	Topping up of Lubricants in transmission, converter, Gear box and hydraulic system etc.
2.	Filling up of Diesel as per requirement.
3.	Cleaning of air filter daily as per requirement.
4.	Greasing various machines as per direction of engineer-in-charge.
5.	Tightening of chain drive by greasing.
6.	Checking of all the lighting points.
7.	Servicing of alternator.
8.	Servicing of self drive.
9.	Servicing of engine as per OEM recommendation or as per instruction of engineer-in-charge.
10.	Servicing of chassis, transmission /converter etc. as per OEM or as per instruction of engineer-in-charge.
11.	Attending of oil leakage /water leakage/air leakage.
12.	Washing of machines as per direction of engineer-in-charge.
13.	Welding work required at site.
14.	Housekeeping & maintenance of sheds and site stores.
15.	Regular Check up and filling of Electrolyte in batteries and tightening terminals.
16.	Replacement of broken cross.
17.	Replacement of battery/self –starter as per requirement of site.
18.	Replacement of belts of jockey pulley and alternators.
19.	Replacement of pins of blade and cylinders.
20.	Replacement/renewal of shoe of track chain.
21.	Replacement of driver seat.
22.	Checking of oil pressure of various system i.e. transmission system & hydraulic system.
23.	Replacement of damaged hose pipes /O rings.
24.	Housekeeping & maintenance of Loco shed.
25.	Assistance to be provided in case representative of OEM i.e. BEML, Cummins etc. service engineer visit the site.
	LOCOMOTIVES
1.	Filling up of Diesel as per requirement
2.	Washing of machines as per direction of engineer-in-charge.
3.	Housekeeping of Loco shed and site stores.
4.	Changing of Break shoes as per direction of engineer-in-charge.
5.	To provide assistance whenever representative/service engineer visits the site to check the locomotives.
6.	Routine and breakdown maintenance work shall be in scope of the firm. However, spares will be provided by HPGCL.
	For Night shift
1.	Topping up of Lubricants in transmission, converter, Gear box and hydraulic system etc.
2.	Filling up of Diesel as per requirement.
3.	Cleaning of air filter daily as per requirement.
4.	Greasing various machines as per direction of Engineer-in-Charge
5.	Tightening of drives & greasing.
6.	Checking of all the lighting points.
7.	Attending of oil leakage /water leakage/air leakage.
8.	Repair check up and filling of Electrolyte in batteries and tightening terminals.
9.	Replacement of broken cross.
10.	Replacement of battery/self –starter as per requirement of site.
11.	Replacement/renewal of shoe of track chain.

12.	Any other petty work required to be done for keeping the machine healthy shall be in the scope of work.
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Note:-

1. The above scope of work is only to give broader guidelines to the firm; however, firm will be responsible for carrying out Operation & Maintenance of the heavy machinery as per standard O&M instructions/recommendations of the OEMs and as per the directions of Engineer-in-charge.
2. Any other work though not covered above but required for smooth and trouble free O&M of Heavy Machinery of Coal Handling Plant along with all associated systems will deemed to be included in the scope of work of firm under this contract.

**For Executive Engineer/CHP,
 Chief Engineer/RGTPP,
 HPGCL, Khedar, Hisar.**

Scope of work for Marshalling Yard

The scope of work covers daily/schedule/Break down maintenance of railway track of RGTPP Private siding from Barwala exchange yard i.e. Y-Leg connection to RGTPP Marshalling Yard which mainly includes:-

1. Lubrication of Rail joint, oiling & greasing of fish plates, Routine checks for clearance between check rails and depth of check blocks.
2. Daily inspection and maintenance of tracks by deputing Key men for check up of yard in sections and by deputing Blacksmith with helpers for checking & routine maintenance of points and crossing.
3. Removal of wild grass, dead animals (if any), trimming of trees & bushes in marshalling yard. Cleaning of side & catch water drains/drainage system.
4. Through packing of track including de-weeding & cleaning of muck etc. as per requirements.
5. Local adjustment of curves and realignment, if required.
6. Annual overhauling of points, crossing & level crossings, if required.
7. Repair of track damaged due to derailment/accidents and attending to rail/weld fractures at any time, as and when required. Complete damaged track renewable includes dismantling of existing track, sitting of new/second hand rails, sleepers. Cutting of rails & Drilling holes in rails, linking, gauging, alignment, levelling, packing of track without increasing the cushioned depth of blast without building up formation. Track levelling, aligning and repairing of joint sleepers.
8. Reconditioning of points & crossing will be done as per latest standard practice of railways.
9. Grouting and fixing of different type of warning boards in marshalling yard whenever required.
10. Repair/replacement of damaged tongue Rails (Left or Right), stock Rail, fish plates including cutting/hole and fixing/rail renewal etc.
11. Inspection and clearance from Railway as per requirement from time to time is in the scope of firm.
12. The firm would be responsible for clearance of the derailments in RGTPP marshalling yard on account of O & M of CHP. All charges levied by the railway would be borne by the firm. HPGCL would be providing assistance in taking the help of Railway.
13. Firm should ensure that railway barrier at entry of Coal Handling Plant is closed during passing of rakes/locomotives.
14. Repair of dead ends including dismantling and refitting.
15. Upkeep and maintenance of marshalling yard illumination system.

Note:-

Any other work not covered above but required for smooth and trouble free operation of Marshalling Yard will be deemed included with the Scope of Work.

**Executive Engineer/CHP,
For Chief Engineer/RGTPP,
HPGCL, Khedar, Hisar.**

Scope of work and General Terms And Conditions for Coal Sample Preparation Work**1.1 QUANTITY:-**

RGTPP has coal linkage with various coal companies of Coal India Limited against the Fuel Supply Agreement (FSA). The Annual Contracted Quantity of coal for RGTPP as per FSA is tabulated as under:-

Name of HPGCL TPS	Capacity of Station (MW)	Coal Company	Annual Contracted Quantity (ACQ) (Lac MT)
RGTPP Khedar, Hisar	1200	MCL	4.00
		BCCL	7.24
		NCL	15.00
		CCL	18.34
		Sub-Total	44.58

*However, lifted quantity by HPGCL with respect to ACQ may vary.

1.2 Scope of Work:-

The scope of work includes, but not limited to the following:-

- Firm has to carry out the complete work of Collection and Preparation of coal sample (source wise, GCV band wise) from Railway wagons on rake to rake basis round the clock (as per relevant IS Standard applicable/ provision of FSA).
- The coal sample shall be prepared for its Testing and Analysis for determination of Total moisture (%), Moisture as received basis (%), Moisture air dried basis (%), Equilibrated Moisture (%), Ash% as received basis, Ash% air dried basis, Ash% Equilibrated basis, Gross calorific value (GCV) of coal as received basis, Gross calorific value (GCV) of coal air dried basis, Gross calorific value (GCV) of coal Equilibrated basis, Volatile matter %, Fixed Carbon %, etc.
- Collection and Preparation of coal sample shall be carried out by Firm's own staff and personnel for the Rail Mode supply of Raw Coal from coal companies received in the Railway wagons at the unloading end of HPGCL. The whole procedure may be witnessed by the representative of respective RGTPP.
- After preparation, transportation of the sample to RGTPP laboratory and handing over to authorized representative.
- All the consumables, tools and tackles etc. required for performing the jobs shall be supplied by the firm, including manpower.
- Terms & conditions of the NIT may be altered/amended if necessitated due to any change in rules/regulations/ provisions of FSA, the same will be amended after mutual consent/ discussion.
- There may be over head power line above the coal loaded boxes as such it must be ensured that shut down of power has been taken before boarding on the wagons for collection of coal samples. Safety of working personnel of third party sampler will be the entire responsibility of third party sampling agency.
- The firm shall maintain separate gang for sampling process.
- The firm is bound to do the sampling of rakes diverted from other HPGCL power projects or if additional linkage is provided to RGTPP.
- Firm will follow HPGCL SOP for sampling of rakes.

1.3 Procedure for Collection and Preparation of Coal Sample**1.3.1 Coal Sample shall be collected from the loaded railway wagons at the unloading ends of HPGCL TPS as per procedure given below:-**

- Firm will carry out the Collection and Preparation of coal sample (source wise, GCV band wise) from Railway wagons on rake to rake basis round the clock (as per relevant IS Standard applicable/ provision of FSA). Each rake (source wise, grade wise) received at HPGCL RGTPP will be considered as a Lot (source wise, grade wise). Thus, a multi-grade rake containing 'x' no. of source/grade will be considered as 'x' lots.
- Each rake/lot shall be divided into sub-lots in a manner that the quantity of Coal/number of wagons in such sub-lots is more or less equal. The number of sub lots

shall be determined as under:-

No. of wagons in the rake	Number of sub lots
Up to 30 wagons	4
>30 wagons up to 50 wagons	5
>50 wagons and above	6

- c. From each of the sub-lot one wagon each shall be selected as per random table in IS:436 (Part I/Section-I) 1964 or its latest version for collection of increments.
- d. In each wagon selected for sampling, the sample will be drawn from the spot in a manner so that if in one wagon the sample is collected at one end, in the next wagon the spot will be in the middle of the wagon and in the third wagon at the other end and this sampling procedure will be repeated for subsequent wagons.
- e. Before collecting the samples, the spot will be leveled and at least 25 cm of Coal surface shall be removed/ scrapped from the top and the place will be leveled for an area of 50 cm by 50 cm.
- f. About 50 kg of sample shall be collected from each selected wagon in the rake of a source by drawing 10 increments of approx. 5 kg each with the help of shovel/scoop.
- g. Any stone/shale of size more than 250 mm shall be removed/discarded, however all stones/ shale of size less than (-) 250mm shall form part of the sample collected.
- h. Source wise, grade wise Samples collected from all the selected wagons in a rake shall be mixed (source wise/ grade wise) separately to form Gross Sample(s) accordingly.
- i. Item (c) to (f) above shall be applicable for Coal supplied in box wagons as well as BOBR wagons where there is no live overhead traction line.
- j. In case of having live overhead traction line, the parties shall ensure that the power supply in the overhead traction is switched off to facilitate collection of samples from BOX / BOBR wagons pursuant to points (c) to (f) above.
- k. The supervisor provided for coal sampling work should have adequate experience of the said job

1.3.2 Collected Coal Sample shall be prepared as per relevant IS Specification/procedure given below:-

- a. The Gross Sample(s) collected will be divided into two portions. One portion (one fourth of the Gross Sample) called Part-1 will be used for analysis of Total Moisture and the other portion (three fourth of the Gross Sample) called Part-2 for determination of Moisture and GCV on Equilibrated basis.
- b. Part-1 sample will be used for analysis for determination of Total Moisture. Part-2 Sample shall be reduced into laboratory sample on the date immediately following the date of collection. The final laboratory samples will be divided into three parts viz. Set – I, Set – II and Set-III as under:-
 - Set-I shall be used for analysis of Ash, Moisture, GCV, etc. at unloading end as per BIS standard (IS 1350 Part 1-1984 and IS 1350 Part-II-1970 as applicable).
 - Set-II shall be kept as referee sample in the safe custody for a period of thirty days.
 - Set-III shall be kept for interplant testing.
- c) **Preparation:-** The collected coal sample shall be prepared as per procedure given below:-
 - i. The Gross Samples collected shall be separately crushed to (-) 5 cm, mixed thoroughly, coned and quartered.
 - ii. Two opposite quarters shall be retained and the rest rejected.
 - iii. The retained material shall be further mixed, halved and one half retained.
 - iv. Material so obtained shall be crushed to 12.5 mm by jaw crusher and then to 3.3 mm by reduction mill or Jaw crusher.
 - v. The crushed material shall be reduced either by coning and quartering or by ruffling

- to 2 kgs.
- vi. The sample so reduced shall be finally ground to pass through 212 micron IS sieve using Mini mill.
 - vii. From the final sample passing through 212 micron IS sieve, 1.5 Kg shall be taken, which shall constitute the laboratory sample.
 - viii. Such laboratory sample shall be divided into three equal parts i.e. Set-I, Set-II and Set-III as mentioned above, the sample shall be kept in glass or polythene container.
 - ix. All tools and tackles, plastic bags, sealing compound and other items required for sampling, preparation, storage and analysis of the sample shall be provided by the firm.
 - x. Laboratory samples prepared shall be in the size of 12.5 mm for Total Moisture and for Proximate Analysis 212 micron IS Sieve. Precaution shall be taken so that before analysis, in test laboratory, further sieving or pulverizing is not required.
 - xi. Equipments like (i) Pulveriser, ii) Crusher, iii) Oven, etc. would be provided free of cost by respective HPGCL TPS to the firm for preparation of coal sample. However, consumable items, manpower and any other requirements would need to be arranged by the firm at its own cost and responsibility. However, it will be the responsibility of the firm to use the machineries properly. It will also be the responsibility of the firm to maintain the machineries in case of breakdown if it occurs due to negligence of third party at their own cost.

D. Remunerations / Penalties:-

- a) The remunerations will be paid at the rates provided in the order on the basis of actual collection and preparation of samples of coal done by the Firm within the contractual provision of scope of work. The Firm shall carry out the collection and preparation of samples of coal from each rake being unloaded at RGTTP for which the payment shall be made as per the contractual provision.
- b) The firm shall make its own arrangement to know well in advance the time of arrival of rake(s) at unloading end and depute their representative well in time before arrival of rake
- c) In case any rake goes unsampled by the firm or if the firm fails to collect & prepare the coal samples of all grades in case of multi-grade rake or if the coal sample is not prepared as per procedure laid down in this document, then penalty at double the rate for the quantity in the rake will be imposed on the firm (i.e. 2 X Rate per MT X Quantity of the rake). The information regarding multi-grade rake may be obtained well in advance from HPGCL representative/ Coal Agent.
- d) In case the preparation of collected coal sample from any rake is delayed beyond 48 hours from the time of collection of coal sample by the firm, the same shall be counted towards unsatisfactory performance

E) Supervision of Work:-

- a) The Engineer-in-Charge shall have the general supervision of the work. The work shall have to be started by the contractor as per the instruction of Engineer- in-Charge or his authorized representative at any time on working day, on holiday or after office hours. He has the authority to stop the work whenever such stoppage is necessary to ensure the proper execution of the contract. He shall also have authority to reject all works or part thereof and give necessary direction to carry out work again to his satisfaction. No claim whatsoever on this account will be entertained. The work shall be subjected to the inspection by Engineer-in-Charge all the time
- b) The decision of Engineer-in-Charge shall be final with regards to all matters relating to his contract.
- c) The decision of Engineer-in-Charge for determining the category of the work with reference to the items not mentioned in scope of work shall be final.
- d) The execution of work may entail working at all the sites and weather conditions and no extra claim will be considered on this account. The contractor may have to carry out work round the clock, as per the requirement to be decided by Engineer- in-Charge.
- e) In case the contractor fails to do the extra / substituted work, Engineer-in-Charge will have the option to get the work done through any other agency at the risk & cost of the contractor.
- f) In case of any dispute, the contractor may represent in writing to the Engineer-in-Charge.

**Executive Engineer/CHP,
For Chief Engineer/RGTTP,
HPGCL, Khedar**

Annexure-XII

Scope of Work of videography of sampling process of imported coal

1. Videography of complete sampling and analysis process of imported coal rakes on round the clock basis at Rajiv Gandhi Thermal Power Plant, Khedar, Hisar.
2. Separate DVD/CD (in duplicate) of videography of complete sampling and analysis process of each rake of imported coal will be provided to office of XEN/Fuel, RGTPP, HPGCL, Khedar within 05 working days after completion of sampling and testing.
3. Firm will ensure availability of separate skilled manpower along with separate camera and other requisite infrastructure of good quality in case more than one rake arrive in RGTPP simultaneously.
4. All the inputs like video cameras with night vision with good quality, lighting, CDs etc. will be arranged by the firm on his cost.
5. Videography may be carried out round the clock as & when the imported coal rakes arrived including night hours.
6. The work will be executed to the satisfaction of committee of 03 nos. AE/AEEs, constituted by CE/RGTPP by following the SOP of HPGCL.
7. Firm will follow HPGCL SOP for videography of imported rakes.
8. **Penalty for Delay:-** if the firm do not provide DVD/CD within 05 days after completion of complete videography of sampling and analysis process of each imported rake, then penalty @1% of cost of videography of each rake per day subject to maximum of 10% of cost of videography of each rake will be deducted from delayed period from the bills submitted by the firm.

**Executive Engineer/CHP,
For Chief Engineer/RGTPP,
HPGCL, Khedar**

Contract Agreement

This contract agreement entered in to this _____ day of the month of _____, 20__ between Haryana Power Generation Corporation Ltd., a body corporate constituted under the Indian Company Act, 1956 herein after called Corporation which terms shall include all its heirs and successors on the one hand and M/s _____. The firm which terms shall include all its heirs and successors on the other hand.

Where as a contract for _____ at RGTPP, Khedar, Hisar for the work of _____ as officially described in tender documents issued against NIT no ._____ dated _____ and concluded by the issue of Work Order no. _____ dated _____ appended here to between Corporation & Firm. Whereas Firm further agree to abide by all labour laws, rules and regulations which may be enforced from time to time. Whereas the firm also agree to absolve the Corporation from all risks & responsibilities towards the labour engaged by the firm during execution of the above said work.

The firm will comply with all the provisions of the relevant labour laws/Acts and the rules /regulations framed there under. In the event of RGTPP, Khedar, Hisar being obliged to pay the compensation, the firm will indemnify the Corporation. The labour regulation shall be treated as part of the contract. Any break of labour laws/regulation shall be treated as breach of the contract.

Here RGTPP, Khedar, Hisar and the firm have agreed to execute an agreement.

Now this deed witness and parties hereto hereby mutually agree as above.

In witness thereof, the firm & HPGCL hereto set their hands as under.

Signature of the firm

Signature & designation

In presence of witness

and on behalf of HPGCL in presence of witness

Witness

Witness

1.

1.

2.

2.

FORMAT-A

Undertaking from the vendor (on vendor's letter head for not generating e-invoice

We M/s. having PAN and GSTIN Registration Numberhereby undertake that our Aggregate Turnover (as per Section 2(6) of Central Goods and Services Tax Act, 2017) for FY 2026-27 does not exceed the prescribed threshold (as on the date of this declaration) for generation a Unique Invoice Registration Number (IRN) and QR code as per the provisions of Central Goods and Services Tax Act, 2017 and rules thereunder ("GST Law"). Further, we also undertake that if the aggregate turnover of M/s. exceeds the current threshold or revised threshold notified by Government of India at any future date, then we shall issue invoice and credit note in compliance with the required provisions of GST Law. In case of any queries from the any state or centre Goods and Services Tax authorities, M/s.will be solely responsible.

Yours Truly,
For M/s.....

Authorized Signatory Name: Designation:

FORMAT-B

Undertaking from the vendor (on vendor's letter head) regarding validation of GST registration (for each GST number separately)

1.1.1. GST registration of GST no..... in name of m/s.....is valid as on date.....

1.1.2. No default has ever been made by me/my firm in name of in filing the various GST returns and deposit of GST dues with the department with respect to GSTN.....

Yours Truly,
For M/s.....

Authorized Signatory Name: Designation:

FORMAT-C

Undertaking cum declaration from the vendor (on vendor's letter head)

- 1.2. *I undertake to submit a CA certificate regarding validity of GST registration on every six months during the tenure of contract.*
- 1.3. *I undertake to submit copies of GSTR I and GSTR 3B/challans as evidence to deposit of GST with certification that GST collected from HPGCL, to be specified in exact rupees, has been paid to Govt. vide this challan (specifying the challan no. & date of deposit) and returns filed (date of filing of return) includes the transaction of supply of Good or/and services to HPGCL.*
- 1.4. *I undertake to inform immediately the HPGCL about initiation of any proceeding (if any) against me/my firm under the GST laws which may result in suspension or cancellation of GST number of the Vendor.*

Yours Truly,
For M/s.....

Authorized Signatory Name: Designation:

FORMAT-D

Undertaking cum indemnity bond from the vendor (on vendor's letter head)
regarding timely deposition of GST

- a) *Certified that we are registered as taxable person under GST Act, our GST no. is ----- and which is active as on-----.*
- b) *Certified that bill for the month of-----in which GST has been claimed, is included in all the GST returns submitted by us to the GST authorities.*
- c) *Certified that we shall deposit the amount of GST collected from RGTPP/HPGCL to the Government exchequer within the time specified under the GST Law.*
- d) *Certified that the goods/services on which GST has been charged have not been exempted from GST under GST Act. The rate/amount of GST in these goods/services is correct under the provisions of the GST Act.*
- e) *We give Undertaking-cum-indemnity bond to RGTPP/HPGCL that we shall indemnify to RGTPP/HPGCL for any loss sustained in case we does not deposit the GST to the government exchequer, which it has recovered from the M/s HPGCL as tax.*

Yours Truly,
For M/s.....

Authorized Signatory Name: Designation:

Performa for TDS / TCS

(To be printed on your letter head and to be signed with seal)

Declaration for not imposing highest TDS/TCS rate as per Section 206CCA/206AB of income Tax Act 1961

Sr. No.	Particular	Details			
1.	Name of Supplier				
2.	PAN Number				
3.	Whether ITR filed within the time limit provided u/s 139(1) of Income Tax Act for two previous financial years	Yes		No	
4.	If Yes, Kindly provide the detail along with self-certified copy of ITR/Acknowledgment of last two financial years.	F/Year	Acknowledgment No.	Date of Filing	
5.	Declaration with respect to aggregate amount of Tax Deducted at Source (TDS) and Tax Collected at Source (TCS) in each of the above F/years	F/Year	Total Amount of TDS and TCS	Yes/No	
			Rs. 50000/- or More		
			Rs. 50000/- or More		
6.	In case ITR not filed due to time limit prescribed under section 139(1) of income Tax act has not been expired	It is hereby declared /undertaken that we shall file the ITR within prescribed time limit and immediately after filing of ITR will submit the self-certified copy of Acknowledgement of ITR			
7.	Contact Person				
	Name				
	Mobile No.				
	E Mail Id				

I/we hereby certify that the declaration made above is true and correct. If there is any change in the above information, I/we would promptly intimate the same to RGTP, HPGCL. Further, I/we would also submit any document/information required/needed to support the above information, as and when required by RGTPP, HPGCL.

In the event that above declaration is found to be false/incorrect/misleading etc. due to which M/s RGTPP, HPGCL is held liable for any consequence under the Act, I/we would indemnify M/s RGTPP, HPGCL towards any loss/damage incurred in the regard.

Yours Sincerely
For M/s.....

Authorized Signatory Name: Designation:

Acceptance Certificate

I _____ (Designation) of _____ (Name of the Company) hereby accept all the terms and conditions given in the above tender document.

For M/s _____

Statements of Bidders

1. Name of Bidder _____
2. Address of Head Office _____
3. Correspondence Address _____
4. Legal status
5. PAN & GST Number of the Bidder (attached self attested photocopies)
PAN _____
GST _____
6. Bank Details (attached signed cancelled cheque)

a. Bank Name & Address

b. Bank Account Number

c. Bank Branch Code

d. IFSC Code of Branch

e. Nature of account (current/saving/OD/CC)
7. Main Lines of Business

a. _____ since _____

b. _____ since _____

c. _____ since _____
8. Annual Turnover of past three year

i. _____

ii. _____

iii. _____
9.
10. Past Experience:-

Name of Organization	Period	Reference of Contract	Order Value contract wise
11. Any other: -

Signature & Stamp of Bidder

Name & Designation of Authorized Bid Signatory _____

Summary of Demurrage Charges from November, 2023 to June, 2026

Sr. No.	Month / Year	No. of rakes received	Total Demurrage hrs. in month	Demurrage Status after appeal	
				Demurrage charges levied with tax (in Rs.)	Waived off Amount (in Rs.)
1	November, 2023	80	215	22,98,188	35,443
2	December, 2023	89	36	3,30,564	99,304
3	January, 2024	78	43	3,94,823	1,40,322
4	February, 2024	98	116	10,62,798	3,37,960
5	March, 2024	107	79	7,07,683	1,27,476
6	April, 2024	40	77	7,31,890	2,24,855
7	May, 2024	72	200	19,23,268	3,97,462
8	June, 2024	72	53	4,63,320	1,07,211
9	July, 2024	100	332	31,99,319	8,75,576
10	August, 2024	90	551	15,44,501	13,995
11	September, 2024	111	194	17,89,359	3,41,324
12	October, 2024	130	245	22,28,926	11,86,487
13	November, 2024	90	155	13,59,840	1,81,145
14	December, 2024	76	1	17,400	0
15	January, 2025	82	0	0	0
16	February, 2025	77	0	0	0
17	March, 2025	119	0	0	0
18	April, 2025	38	0	0	0
19	May, 2025	53	0	0	0
20	June, 2025	83	0	0	0
21	July, 2025	101	0	0	0
22	August, 2025	69	0	0	0
23	September, 2025	82	0	0	0
24	October, 2025	64	0	0	0
25	November, 2025	16	0	0	0
26	December, 2025	33	0	0	0
27	January, 2026	81	0	0	0
28	February, 2026	73	0	0	0
29	March, 2026	85	0	0	0
30	April, 2026	84	0	0	0
31	May, 2026	53	0	0	0
32	June, 2026	53	0	0	0

Executive Engineer/CHP,
For Chief Engineer/RGTPP,
HPGCL, Khedar, Hisar.

Annexure XIX

Detail of Coal rakes received, Diesel consumed in heavy machinery, Coal quantity unloaded, Coal quantity fed to the bunkers & Station Plant Load Factor (PLF),

Sr. No.	Year	No. of rakes received	Qty. of Coal Received (MT)	Qty. of Coal consumed (MT)	Annual Plant Load Factor (PLF)	Diesel consumed in Heavy machinery (KL)
1.	2023-24 (from Nov. 23 to March, 2024)	452	17,84,836	10,92,938	33.51 (from Nov. 23 to March, 2024)	1,17,910
2.	2024-25	1,059	41,69,349	40,72,593	52.77	3,03,987
3.	2025-26	778	30,76,441	31,80,937	40.73	3,32,942
4.	2026-27 (Up to June 26)	190	7,50,405	12,22,352	60.38	77,644

**Executive Engineer/CHP,
For Chief Engineer/RGTPP,
HPGCL, Khedar, Hisar.**

Part II (Price bid for reference Only)

FOR SAMPLE ONLY, DO NOT FILL

Sl. No.	Item Description	Quantity	Units	MONTHLY/BASIC RATE (Without GST) In Figures To be entered by the Bidder in Rs. P	ANNUAL TOTAL AMOUNT Without Taxes in Rs. P
1	Rates for Part A				
1.1	Operation & Maintenance of Automated Coal Handling Plant involving Wagon Tippler, Apron Feeders, Dribble feeders, Conveying Systems, Transfer Chutes, Skirt Boards, Grizzly Feeders, Roller Screens, Coal Crushers, Crusher House, Transfer Points, Emergency Reclaim Hoppers, Vibrating Feeders, Stacker-Reclaimers, Tipper Trolleys at bunker floors etc. The work also includes all types of maintenance such as Mechanical / Electrical / C&I (PLC) of all CHP equipments. Operation and Maintenance of Dust Extraction system, Dust Suppression System, Coal Sampler & Analyzer system, Ventilation system, Water sprinkling System, Pre wetting system, AC system, Sump Pumps, Compressors (De-watering Pump), Dewatering of tunnels and trenches including railway demurrage charges. (As per detailed scope of work attached as Annexure-VI).	12.000	Per Month (for 1st year)		
1.2	Operation of equipment for feeding coal to the bunkers of Unit-I	12.000	Per Month (for 1st year)		
1.3	Operation of equipment for feeding coal to the bunkers of Unit-II	12.000	Per Month (for 1st year)		
1.4	Cleaning and House Keeping of entire Coal Handling Plant including Control Rooms, Electrical Rooms, Buildings, open cable trenches, Wagon Tipplers, Apron Feeders, Dribble feeders, Transfer Chutes, Skirt Boards, Crusher House, Transfer Points, Emergency Reclaim Hoppers, Vibrating Feeders, Stacker-Reclaimers, Tipper Trolleys at bunker floors and Coal Bunkers etc. Deployment of Stone Pickers for picking of stones, and other foreign material from running conveyors, removal of wild grass etc including Horticulture & Beautification activities of complete CHP, Cleaning of Road, Trenches, Drains in CHP area etc. (As per detailed scope of work attached as Annexure-VI).	12.000	Per Month (for 1st year)		
1.5	Operation & Maintenance of Heavy Machinery such as Diesel Locomotives, Bulldozers, Loaders, Cranes, Dumpers and Excavators etc. (As per detailed scope of work attached as Annexure-IX).	12.000	Per Month (for 1st year)		
1.6	Upkeep/Maintenance of Marshalling yard (As per detailed scope of work attached as Annexure-X).	12.000	Per Month (for 1st year)		
1.7	Charges per MT for Collection and preparation of coal samples from Indian coal rakes at RGTPP. (As per detailed scope of work attached as Annexure-XI). However, firm will be paid monthly charges on the basis of actual quantity of Indian coal received in that month.	4458000.000	Per MT (for 1st year)		
1.8	Charges per MT for Collection and preparation of biomass samples from trucks received at RGTPP. (As per HPGCL SOP). However, firm will be paid monthly charges on the basis of actual quantity of biomass accepted.	390000.000	Per MT (for 1st year)		
1.9	Charges per rake for Videography of complete sampling and analysis of imported coal (As per detailed scope of work attached as Annexure-XII). However, firm will be paid monthly charges on the basis of actual number of imported rakes received in that month.	70.000	Per Rake (for 1st year)		
Total in Figures					

Sl. No.	Item Description	Quantity	Units	BASIC RATE FOR per Rake In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT in Rs. P
1	Rates for Part B				
2.1	Diesel charges per coal rake . It will include taxes, handling charges and storage charges etc. (Firm has to enter the rate for diesel charges per rake and value shown in total amount tab will be of for full year with estimated 1215 rakes per year (No GST will be paid extra). However, firm will be paid monthly charges on the basis of actual number of rakes received in that month.	1215.000	Per Rake (for 1st year)		
Total in Figures					

FOR SAMPLE ONLY, DO NOT FILL

NOTE

- 1) Evaluation of tender:- L1,L2,L3...etc. bidders will be based on overall total rates quoted by the bidder in rate quoting sheet BoQ1 & BoQ2 comprising of
A- Operation and maintenance charges
B- Diesel charges.
For tender evaluation purpose gross amount of 3 years will be considered. Accordingly for Part-A total price including GST for 3 years shall be taken into consideration, for Part-B the evaluation will be made considering the amount arrived after multiplying rates quoted for diesel charges in Rupees per rake with 1215 rakes per annum for 3 years. **Quote Basic Price (without GST) for Part-A. GST on Part-A will be paid extra as applicable and no GST will be paid on Part-B.** Grand total of A (including GST) & B for 3 years will be considered to decide L1, L2, L3... etc. bidders. As such the bidder whose overall rates are minimum shall be treated as L1.
- 2) The work as a whole will be allotted to a single firm whose overall quoted/equated prices are lowest for the complete work.
- 3) In case of any ambiguity, procedure mentioned in the tender document will be prevailed.

TECHNICAL CHECK LIST FORMAT**(To be filled/uploaded online only)**

Sr. No.	Description	Firm's Response (Yes/No) (attach supporting documents)
1	Certificate of Login Account on HEW Portal	
2	Tender cost with e-service fees	
3	EMD deposited or availed exemption as per NIT	
4	Documentary Evidence regarding Qualification Criteria:- Bidder to have successfully carried out work of erection, testing & commissioning of any Automated PLC based Coal Handling Plant of Power generating unit of 210 MW & above and should have minimum one year experience of O&M of Automated PLC based Coal Handling Plant of generating unit of 210 MW & above in HPGCL / NTPC / any SEBs / any PSUs / any corporations / Central Govt. / State Govt. / Semi Govt. or in any thermal plant during preceding 07 years ending 30.06.2026. OR Bidder to have minimum 02 years experience of O&M of Automated PLC based Coal Handling Plant of generating unit of 210 MW & above in HPGCL / NTPC / any SEBs / any PSUs / any corporations / Central Govt. / State Govt. / Semi Govt. or in any thermal plant in preceding 07 years ending 30.06.2026.	
5	Bidders must have average annual turnover in last three consecutive financial years ending 31.03.2026 (F.Y. 2023-24, 2024-25 & 2025-26) shall not be less than Rs 18.27 crores (Rs. Eighteen Core Twenty-Seven lac only). The firm will submit the balance sheet/ profit and loss statement duly certified by CA	
6	Documentary Proof for experience as prescribed in NIT.	
7	Documentary Proof for Turnover Certificates as prescribed in NIT.	
8	Bidder qualifying either of above mentioned conditions must have successfully executed the Work order(s) for the same or similar item(s) during last seven years ending 30.06.2026 having minimum order value as under: - i) Single order value not less than Rs. 14.61 Crores. OR ii) Two orders of the value not less than Rs. 9.13 Crores each OR iii) Three orders of the value not less than Rs. 7.31 Crores each	
9	The bidder should have a valid ESI no. or shall submit an undertaking as per e-NIT	
10	Copy of Labour License or undertaking as per e-NIT	
11	Documentary Proof for GST registration, EPF certificate and PAN card	
12	Authority letter in the name of the Authorized Person who has signed the Tender Document / Price Bid on behalf of the Contractor / Company.	
13	The certificate to the effect that the tenderer is not black listed from any Public Sector Undertakings of Central Govt. / State Govt. / State Electricity Boards / Corporations.	
14	Certificate regarding compliance of labour laws as per PQR of e-NIT	
15	The firm should fill statement of bidders Performa as per NIT	
16	Acceptance Certificate as per NIT	
17	Copy of signed NIT	
18	Partnership deed in case of partnership firm / Memorandum of Association and Article of Association in case of a company	
19	Copy of performance/completion/work execution certificate	