



CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED
(A Govt. of C.G. Undertaking)

NO. 03-09/True-up/93

Raipur. Dtd 07/02/2025

To,

**The Secretary,
Chhattisgarh State Electricity Regulatory Commission
New Shanti Nagar, Raipur.**

Sub: Additional submission in respect of Petition no. 95 of 2024.

Ref: CSERC's letter no. P No. 95 of 2024/142 dtd 29.01.2025.

Respected Sir,

Hon'ble Commission, vide captioned letter has desired some additional information in respect of Petition no 95 of 2024. As desired CSPGCL humbly makes additional submission in respect of the subject petition for kind consideration please.

Encl: As above.


CHIEF ENGINEER (C&RA)
CSPGCL, Raipur



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Point Wise Submission in response to the Letter no 142 dtd 29/01/2025

True-Up of FY 2023-24 of its Conventional Thermal and Hydro Power Plants

1. As regards Query No. 6 of the Data Gaps, CSPGCL is requested to provide a more legible copy of the CSLDC Certificates regarding availability, actual net generation and scheduled generation provided in the Annexure B3, B4 and B5 of the CSPGCL submission dated 23/01/2025

CSPGCL SUBMISSION: - More legible copy of CSLDC certificates have already been mailed and hard copy is also submitted herewith.

2. As regards Query No. 10 of the Data Gaps,
 - a) CSPGCL has submitted that the final cost of Rs. 3.98 Crore includes service charges like installation and commissioning charges. In this regard, CSPGCL should submit the copy of original Budgetary quotation of BHEL and Final Work Order with break-up of Supply Cost and Installing and Commissioning cost.
 - b) CSPGCL has claimed the cost overrun in the work of 'ash dyke height raising work is due to variation in estimation of the work and transparently discovered price of the work. In this regard, CSPGCL should submit the documentary evidence of Bidding like the details of bids received, bid evaluation report and LoA/Work Order of this work.

CSPGCL SUBMISSION (pointwise): -

- a) As desired copy of BHEL budgetary offer is submitted as Annexure-I. Further, final supply & service order placed on M/s BHEL is submitted as Annexure-II & III respectively. The cost break up of order is submitted as under:

Sl	Order Description	Amount
1	Supply order -PO no 5500094460	3.34 Cr
2	Erection, Commissioning and testing order -PO no 5500094471	1.92 Cr
	Total	5.36 Cr

In the above context it may please be noted that as explained during TVS as per standard practice, for such works the budgetary offer is applicable for the procurement part only. The service part is dealt with at the time of placement

of order for procurement as it directly relates to delivery/overhaul schedules. Further, as explained in the TVS the EHGC is a proprietary item of BHEL and declaration to that effect is embedded in the budgetary offer provided by BHEL.

b) The desired documents are submitted as under:

1. 2nd stage height raising Pond 2 RL 313 to 316 M at Dindolbhata:
 - (i) Details of Bidding -Annexure-IV
 - (ii) Details of Bid Evaluation Report -Annexure-V
 - (iii) Work Order – Annexure VI
2. 2nd stage Raising the height of pond no.1 A from RL313 M to 316M of ash dyke of 1x500 MW KWTPP:
 - (i) Details of Bidding -Annexure-VII
 - (ii) Details of Bid Evaluation Report -Annexure-VIII
 - (iii) Work Order – Annexure IX

From the above, it may please be appreciated that as explained during TVS, all the works were carried out through transparent open bidding process. As per standard terms and conditions (As per industry practice), the bid evaluation is considered on composite cost.

3. **As regards Query No. 11 of the Data Gaps, CSPGCL should provide the reasoning for considering half of the book value of old ESP, when the entire value has been decapitalised in the Accounts.**

CSPGCL Submission: -

Before answering the query, CSPGCL humbly crave leave to brief the background of the ESP work, which led to additional capitalisation and de-capitalisation thereafter.

It was noted that the ESP upgradation was required due to change in law. Over a period of time, as the technology progressed, in the larger public interest, the law required stricter norms related to emission of Solid Particulate matter (SPM) in the flue gases. At the time of commissioning of the plant during 1983 to 1986, the then prevailing environment norms allowed SPM emission of about 300 NM³. Somewhere in or around 1998 the environment norms got tightened and reached 100 NM³. Accordingly, the ESP was upgraded.



However, as Korba was declared critically polluted area, in 2010 -11 Central Pollution Control Board (CPCB) directed for compliance of stricter norms of 50 NM³.

Being a responsible corporate citizen, CSPGCL undertook an exercise to explore the options. HTPS, being very old plant, it doesn't have the flexibility to consider a new ESP altogether. The options had to be considered very carefully so that the object of compliance of the MOEF&CC norms may be met within the existing space and other technological constraints. Elaborate discussions were made with industry leaders NTPC and BHEL. It was concluded that in the two units a third pass, in addition to the existing two passes, will have to be installed and in the other two units due to the space constraint and design variation, the available option was to increase the height of existing passes.

Thus in both the cases the existing ESP was not scrapped altogether rather the existing setup was retained and additional infrastructure was built and commissioned to enhance Processing so that that emission may be reduced to the compliant level. Unlike the normal replacements under BAU scenario, the ESP was not a case of one-to-one replacement. It was a typical case of upgradation of the existing system.

It is in this background that CSPGCL is revisiting the decapitalization booked in the accounts.

Regarding the de-capitalisation appearing in the accounts, it is submitted that gradually CSPGCL has adopted the principle of capitalization coupled with de-capitalization. As most of the old assets were part and parcel of composite EPC orders hence identification of their individual asset value is not feasible. For decapitalization of such assets CSPGCL has adopted the method of "Assumed Deletion" as approved by CERC. Accordingly, in "Business-As-Usual" (BAU) scenario wherein capitalization against an existing asset, whose individual asset value is not known, the de-capitalization is computed by the 'Assumed Deletion'. Therefore, in a routine manner, the same method was used in the instant case too.

However, given the background of "Upgradation" and not the "Replacement", in retrospection it is felt that the proper course is to decapitalize a part of the existing asset and retain the balance in the books. Therefore, under such scenario it is realized that decapitalization of all the pre upgradation infrastructure which continued to serve later on also, may not be prudent and fair. At the same time, it is



also true that retaining whole of the existing infrastructure may also not be correct because during the upgradation process some of the existing parts and equipment were also removed / upgraded / replaced with more efficient equipment. Hence in the interest of justice and transparency and prudence, a balance has to struck in a reasoned and cogent manner.

In view of the above for detail consideration for each of the aspects, CSPGCL has formed a group of experts from different domains to review the whole issue and suggest appropriate correction in the books for true and fair representation. The same is expected shortly. Pending the final recommendations as submitted in the petition inspiration has been drawn from the Hon'ble APTEL decision and accordingly 50% of the total value has been considered. Leave is craved for submission of the recommendations and submission of the consequent updated model within a fortnight.

4. As regards Query No. 15 of the Data Gap,

- a) **CSPGCL should provide reconciliation of the Capitalisation booked in the Audited Accounts of CSPGCL and the station-wise Capitalisation claimed.**
- b) **CSPGCL should provide the reconciliation of Project Cost approved and Project cost allowed till now (year-wise) in KWTPP.**
- c) **CSPGCL should submit the cut-off date of KWTPP**

CSPGCL Submission: -

- a) Reconciliation of the Capitalisation booked in the Audited Accounts of CSPGCL and the station-wise Capitalisation claimed is submitted in Annexure-X.
- b) Reconciliation of Project Cost approved and Project cost allowed till now (year-wise) in KWTPP is attached in Annexure-XI
- c) Hon'ble Commission at para 29 of order dtd. 15/03/2024 on CSPGCL Additional CIP petition no 84 of 2023, has approved the Cut of Date for KWTPP as 31st March 2024.

5. As regards Query No. 17 of the Data Gaps, CSPGCL should:

- a) **Explain the reasons for -50% increase in Maintenance Charges of LDCC in FY 2023-24 as compared to actuals in FY 2022-23**
- b) **Explain the reasons for ~50% increase in Ash Utilisation expense in FY 2023-24 as compared to actuals in FY 2022-23.**
- c) **Provide break-up of the following expenses claimed in the Petition**
 - i. **Other General Expenses**



ii. Other Coal related cost

CSPGCL Submission:

- a) It is admitted that the repair & maintenance of the LDCC has increased from Rs 23.69 Cr in FY 22-23 to Rs 36.52 Cr in FY 23-24.

Before entering into the specific reasons related to increase in the R&M cost it may be beneficial to recall some important aspect related to the LDCC.

The LDCC at Korba West is one of the largest coal conveyor system (about 13km) at any power station in India. The coal handling plant commissioned even before the commissioning of the main plant in 1984 and has already completed about 40 years of service has not under gone any package base renovation/life extension. When the new unit of 500 MW was commissioned in Sep-2013 a new stream (Stream-C) was also commissioned. The coal is fed to the old 4x210 MW HTPS and the new KWTPP by all the three streams in a composite manner. The transportation of coal through the LDCC though poses challenge in the plant operation and maintenance but it is the cheapest available mechanism of coal transportation. The economic advantage of the system can be gauged from the fact that the per ton transportation cost by LDCC is about 1/3rd of the second cheapest option i.e. transportation of coal by Indian Railways (DSPM TPS). Further, though in percentage terms the increase in the R&M cost appears to be substantial but in absolute terms the net impact on the variable cost of the power station is very low (less than about 1.5 paisa/unit).

With the above background the specific reasons for increase are as under:

- (i) With the start of pandemic in 20-21 the R&M activities of the LDCC came down to minimal levels and therefore, till 21-22 most of the cyclic nature work got deferred. The deferment was also related to the constraints faced in the supply chain of the critical spares such as rollers, belts etc. This has led to accumulation of the maintenance needs for future years. Accordingly, some increase took place in 22-23 followed by significant increase 23-24.
- (ii) With the commissioning of 500 MW set and its higher level of performance the average loading of the belts have gone up. Further, unlike the internal CHP the LDCC carries higher size coal which leads to comparatively higher wear and tear. As per rough estimate a coal conveyor belt which needs replacement in internal CHP in about 5 Years, needs replacement in



the LDCC in about 2.5 to 3 Years. In the initial years of the commissioning the patch replacement of the belts serves the purpose, however as about 10 years span of the new stream service is getting completed, complete replacement of belt between the TPs is now required. It may be appreciated that for any plant and machinery increase in R&M expense over a period of time is common phenomena particularly when plant (LDCC) has not seen any capital investment in the past many years.

- (iii) A typical aspect of the new stream of the LDCC is the pipe conveyor system at the conveyor no 13. Due to the geographical location and the obstacle in the form of 132 kV tower the erection of third stream at conveyor no 13 in the conventional manner was simply not possible. Therefore, after expert consultation CSPGCL opted for pipe conveyor system which allows bend in the path way. However, maintenance of the pipe conveyor is much costlier than the conventional conveyor system. When the belt for the conventional system costs approximately Rs 3,000/mtr the pipe conveyor costs about Rs 20,000/mtr. Given the significant advantage of LDCC over any other mode of coal transport the arrangement has been preferred. In the FY 23-24 a large part of the pipe conveyor 13-C was subjected to replacement due to wear and tear over the period of time. With replacement of the conveyors no of rollers were also replaced and the power pack had to be changed. All this has led to significant R&M expenses (about 9-10 Cr) during the year.

CSPGCL humbly prays to allow the R&M expenses as prayed in the petition.

- b) As per the MOEF & CC notification of 2021 read with the amended notification of 2022, all thermal power stations are required to utilize 100% of the ash generated by the station. For achieving the 100 % ash utilization, the notification allows a 3 / 4 /5-year cycle, depending upon the ash utilization percentage in the base year i.e. 2021-22. CSPGCL power stations at the start of the cycle had different level of utilization ranging from approximately 40% to 80%. over the years, CSPGCL as a responsible corporate citizen has tried its level Best to improve the ash utilization to the extent possible.

Accordingly, year over year, the ash utilization in percentage terms as well as in the absolute terms has gone up. In fact, on aggregate terms CSPGCL as a corporate entity achieved utilization to the tune of 43.96% in the financial year



21-22 which has gone up to 81.17% in the financial year 23-24. In the absolute terms, the rise is still more significant. In FY 21-22 the ash utilization was 24.57 LMT which has gone up to 51.71 LMT in the financial year 23-24. This has been one of the main reasons for significant rise in the ash utilization expenses and it is directly covered by the obligation imposed on CSPGCL by the change in law.

It is further submitted that not only quantity in absolute terms have gone up but over the years but due to uncontrollable factors detailed hereunder, the mix of ash utilization opportunities have also changed resulting in higher average per ton cost of ash utilization.

In the above context in the interest of transparency and clarity the following is also submitted

- (i) During the year a significant quantum of ash was supplied for the road construction works undertaken by the National Highway Authority of India NHAI. As per the government notification, thermal power stations are bound to supply ash to the NHAI sites within 300 kilometers from the power station, free of cost. It may please be appreciated that transportation of ash to the such sites is possible only through road transportation which inherently implies a higher transportation cost. During the year CSPGCL supplied ash from its power stations at Korba and Marwa to the distant sites as far as Dhamtari district (about 255 KM) which implied higher per ton transportation cost and resulted in higher ash utilization expenses incurred by CSPGCL.
- (ii) Further, one of the cheaper options available is to fill the ash in the low lying area in the vicinity of the power station. However, it may be appreciated that such opportunity is one time and cease to exist over time. Consequently, one has to move to longer distances to utilize the ash. This also contributed to the rise in average per ton cost of ash utilization in FY 23-24.
- (iii) In fact, with the uncontrollable change in mix of opportunities and constraints, the ash utilization in NHAI projects have gone up from 36.23% to 44.74% while the cheaper option of filling of ash in low lying area has come down from 37.89% to 20.38%.
- (iv) During the year, after rigorous pursuance, CSPGCL was able to convince the Cement manufacturers within the state to utilize the ash being generated



at CSPGCL stations. As the state of Chhattisgarh has ample number of thermal power stations and all the stations are under obligation of 100% ash utilization, the chances of sale in a commercially profitable manner does not exist, however in the wider interest of transparency CSPGCL floated EOI for sale of ash and when the same could not succeed, EOI was floated for free lifting of ash but again no interest was shown by any of the parties. Thereafter, a mechanism was derived where in the Cement plants had to quote the rate for sharing of the transportation expenses being incurred by the CSPGCL. The tendering was done in an open transparent manner through e-bidding and award was made in such manner which resulted in the net lowest cost to be incurred by the company. The supply of ash to Cement plants is costly, but has to be resorted because Cement plants consume high quantity of ash and failure in ash utilization is much costlier.

- (v) In this context it is submitted that the revenue received from the Cement plants has already been taken into account by CSPGCL and the same has been part of the non-tariff income submitted in the Form 17 of the petition. Thus the revenue received is being fully passed on to the end beneficiary.

Thus to summarize, the reason for cost escalation is:

- (i) Higher quantity of Ash being utilized.
- (ii) For the uncontrollable reasons detailed above, increase in the average cost of per ton ash utilization (from Rs 159.38 / ton in FY 22-23 to Rs. 200.29 / ton in FY 23-24)
- (iii) Last but not the least, the statutory mandate for 100% ash utilization with strict provision of per ton compensation at about Rs 1000/- / ton which is much higher than the average per ton cost of ash utilization.

In the above context it is also significant to note that increase in ash utilization expenses due to change in law is not a specific incident to the current year rather it is regular phenomena since FY20-21 when the notification was issued by the Government of India. The expenditure being incurred is continuously showing a high trend. In the FY 21-22 the ash utilization expenses were Rs 31.63 Cr which have gone up to Rs 72.99 crores in FY 22-23 and have further shown an increase to Rs 103.57 Cr in FY 23-24. As a testimony of CSPGCL commitment to fly ash utilization and legal compliance, third party Audit report of DSPM for FY 23-24



is enclosed as Annexure-XII. It is expected that once 100% ash utilization target is achieved; the ash utilization expenses may also get stabilized.

Hon'ble commission has already taken cognizance of the change in law in the MYT order and accordingly has specifically provided that expenses incurred by CSPGCL to meet the legal mandate will be allowed as a pass through at the time of True-up. Accordingly, the ash utilization as incurred during the financial year FY 23 24 and as appearing in the audited accounts, have been claimed in the petition for kind consideration by the Hon'ble Commission. CSPGCL humbly prays for pass through of the actual Ash utilization expenses as prayed in the petition.

- c) As desired the break-up of the expenses claimed in the Petition is submitted as under:
- i. Other General Expenses – Annexure XIII
 - ii. Other Coal related cost – Annexure-XIV


07/02/25



Annexure-I**Bharat Heavy Electricals Limited**(A Govt. of India Undertaking)
SPARES & SERVICES BUSINESS GROUP

2-Arya Nagar, Narmada Road, Jabalpur, Madhya Pradesh - 482001

Mobile: 7566325934 e.mail: akumar@bhel.in

Ref.No. OFR_SB19J0187/Rev_00

Dated : 08.08.2019

SE(O&M)
3X40MW, HBHPS, CSPGCL
MACHADOLI, DISTT.- KORBA
KORBA - 495453**SUB: SUPPLY AND E&C OF EHG SYSTEM & HMC AT 3X40MW****REF: Your Enquiry Reference No E-MAIL dt. 12.06.2019**

Respected Madam/Sir,

With reference to your above enquiry, submitted herewith our firm offer as per details indicated below:

SCOPE OF WORK & PRICE

The Scope of Work and Price is detailed out in Annexure(s).

1) PRICES:

- i. The total price of items as per enclosed Annexure is INR 2,49,84,000.00/- (Rupees Two Crore Forty Nine Lakhs Eighty Four Thousand only) (excluding all taxes).
- ii. **Ex-works prices:** HEP BHOPAL/Suppliers/Sub-suppliers
exclushortage/Damage;ding taxes & levies. All such taxes & levies shall be payable extra at actuals as applicable at the time of actual dispatch against original tax invoice only. In case of any change in tax regime enforced by Central/State Government in future all applicable taxes & levies would be paid by the customer at the time of dispatch of material at actuals even if there be any delay beyond the stipulated delivery period.
- iii. Above prices are on **Firm** basis including packing & forwarding charges.
- iv. BHEL claims only reimbursement of actual taxes & levies payable to the respective Government authorities under the existing laws. The prices quoted are after taking into account the ITC benefits and are subject to all other Statutory Obligations.
- v. GSTN No(s) of concerned BHEL Unit(s) along with the HSN codes are mentioned in price annexure(s).

2) TERMS OF PAYMENTS:**i. Advance: 10 %**

Of PO value is to be paid as interest free advance along with PO.

BHEL is not liable for payment of interest charges on the advance amount paid by the purchaser during the execution of the contract, even if there be any delay beyond the stipulated delivery schedule.

ii. Final: 90 %

Within 30 days after receipt of materials in good condition and acceptance at site stores with a provision of part payments against part dispatches with full applicable taxes & duties at actuals as applicable at the time of dispatch.

3) DELIVERY:

Delivery for the items indicated in the annexure is 12 months.

i. **Fresh Dispatches:** Delivery period shall be reckoned from the date of receipt of technically and commercially clear Purchase/Work Order along with interest free advance with applicable GST.

ii. **Repair /Refurbishment Work:** Delivery period shall be reckoned from the date of receipt of technically and commercially clear Purchase/Work Order along with the interest free advance with applicable GST and receipt of material to be repaired at BHEL Works, whichever is later. The delivery shall be subject to Force Majeure and other commercial implications.

The Delivery will be made in part or in full in accordance with commercial practice and availability of transporters. The equipment will be supplied either through in-house manufacturing at our Manufacturing Units or through buying wholly or partly within India and / or from abroad .

4) PERFORMANCE BANK GUARANTEE / SECURITY DEPOSIT / CONTRACT SECURITY:

Since BHEL is the OEM apart from being a Central Public Sector Undertaking, these clauses may kindly be waived off in our case.

5) DESPATCH/FREIGHT:

The material shall be dispatched on Freight to Pay basis by BHEL approved transporter. The materials shall be dispatched by Road on FREIGHT To Pay basis through BHEL approved Transport Contractors only. In case if it is to be dispatched only through the Approved Carrier of PURCHASER, a minimum of 3 transporters to be specified by PURCHASER. BHEL do not agree to depend only on one transporter as there would be delay in placement of Vehicles for lifting of loads at our works/vendor works.

6) TRANSIT INSURANCE:

Transit Insurance of the materials shall have to be arranged by the Purchaser only. BHEL shall, however furnish the brief dispatch particulars immediately after the dispatch to the Purchaser only. Claims towards shortage/damage, if any, during the transit of the goods shall have to be billed with Customer's insurance Company/Underwriters. Any visible damage or tampered packages of a consignment shall be surveyed by the Customer's insurer & claim filed and at no point of time BHEL, shall be held responsible for loss/damage. No recovery on account of Transit loss/damage or during storage at Customer's stores/plant shall be made from BHEL's Invoices.

7) DAMAGES IN TRANSIT:

In the event of goods broken or damaged in transit then Customer will have to recover such losses from the Insurance Company since the transit insurance is in Customer's Scope. The payment of damaged or broken goods should not be withheld till the replacement/rectification is made. It should be released as per the payment terms only.

8) REPLACEMENT/RECTIFICATION OF DAMAGED GOODS:

Return of Goods mutually agreed between BHEL and Customer for Replacement/Rectification by BHEL shall have to be booked to the Consignor on Freight Prepaid and Door Delivery basis. The Return of goods shall be done with the consent of BHEL and within 45 days from the date of receipt of the consignment. BHEL shall not be held liable in the event of any delay in this regard.

9) MATERIAL RECEIPT, ACCOUNTING & STORAGE:

BHEL expects the Purchaser to issue the documents towards Material Receipt, Inspection & Accounting within a period of 15 days from the date of receipt of each consignment. BHEL shall not be responsible for delay (beyond 15 days after the receipt of Goods) in reconciliation and accounting of the consignments. The consignments booked under Transporters Go-down Delivery basis shall have to be collected within 3 days from the date of receipt of information from the Transporter about the arrival of the consignment. No claim on account of shortages, damages, demurrages & loss of material shall be lodged with BHEL.

10) PENALTY / LIQUIDATED DAMAGES:

Since BHEL is a Government of India Undertaking, this clause is not acceptable to us, as such this clause may not be mentioned in your Purchase Order.

11) PRICE VALIDITY:

Our offer is kept valid for placement of order up to 31.10.2019 unless withdrawn. The rates quoted are in consideration of the Items/Quantities called for in the enquiry and hence wherever the order item quantities / order value are lower than the offer, specific confirmation on the validity of the prices shall have to be taken from BHEL before the issuance of Letter of Intent / Purchase Order by Customer.

12) WARRANTY:

Under warranty condition in respect of any defect in or failure of goods supplied, or for any loss, injury or damage attributable thereto, is limited to making good by replacement or repair defects which under proper use, appear therein and arise solely from faulty design, material or poor workmanship; not otherwise, within a period of 12 months after the original goods have been commissioned or 18 months from the date of supply, whichever is earlier. At the termination of said period, all liabilities on BHEL part will cease to exist.

13) MISCELLANEOUS RECOVERIES:

Recoveries, if any, on account of the supplies to be made from the bills of the dispatching Unit, shall be done so only with their prior concurrence. Any other recoveries (especially pertaining to the other BHEL Units) but not pertaining to the Unit of present dispatches (under offer), will not be acceptable please.

14) QUALITY PLAN AND REQUISITE CERTIFICATES:

BHEL is an ISO certified Company and the products are manufactured under strict quality control procedures complying to International/National standards, codes and statutory regulations. BHEL follows its own standard Quality procedures and Technical Delivery Conditions during the Manufacturing, Inspection and Testing of the products.

All materials being manufactured/supplied by us undergo stringent quality control at various stages and at final stage before dispatch. Inspection can be carried out by Customer at their stores after the receipt of material at site.

BHEL will submit Certificate of Compliance (COC) only for these spares and no MDCCs, etc. have been envisaged in our offer.

Hence, BHEL will not be able to furnish any Guarantee Certificate/Test Certificate for Spares. As such this clause may not be mentioned in your Order please.

15) SUPPLY FROM BHEL/CUSTOMER APPROVED VENDORS ONLY:

Kindly note that the offered items shall be manufactured by BHEL or procured/supplied from BHEL approved vendors only and no Customer approved vendors have been envisaged.

16) EXTRA COST:

In the event of the suspension of the work by your instructions, the contract price shall have to be re-negotiated to cover any additional expenses which might have been incurred by BHEL.

17) STATUTORY OBLIGATION:

In the event of any enactment of law or statutes which lead to increase in the cost of manufacturing or cost of contract performance during the execution of the contract, the same shall have to be borne by the purchaser and contract price may have to be accordingly modified.

18) FORCE MAJEURE:

BHEL shall not be in default or shall be liable for any loss or damage due to delay in or failure to perform its obligations under the contract if such delay or failure results directly from Force Majeure.

- i. **Natural Force Majeure Events:** Act of God, including lightening, drought, fire and explosion, earthquake, landslide, flood, cyclone, etc.
- ii. **Un/Non-Natural Force Majeure Events:** Act of war, invasion, armed conflict or act of foreign enemy, blockade, embargo, riot, insurrections, terrorist or military action, strikes & labour disturbances, quarantine restrictions, act of restraints of Governments, State, Central or Municipal Corporation, inability to obtain raw material, default by suppliers.

19) ARBITRATION:

In the event of any question or dispute arising under these conditions or any special conditions of contract or in connection with this contract, the same shall be referred to the award of committee consisting of an arbitrator to be nominated by the Purchaser and an arbitrator to be nominated by BHEL, and in case of the said arbitrators not agreeing, then to the award of an Umpire to be appointed by the said arbitrators in writing before proceeding on the reference, and the decision of the arbitrators or in the event of their not agreeing, of the Umpire appointed by them, shall be final and conclusive and the provisions of the Indian Arbitration Act, 1996 or any revision thereof and of the Rule there under and any statutory modification thereof shall be deemed to apply to and be incorporated in this contract.

Upon every and any such reference, the assessment of the cost of, and incidental to, the reference and award respectively shall be at the discretion of the committee of arbitrators, or in the event of their not agreeing, of the Umpire appointed by them.

Work under the contract shall, if reasonably possible, continue during the arbitration proceedings, and payment due or payable by the Purchaser shall not be withheld on account of such proceedings.

20) LEGAL CONSTRUCTION:

The contract shall in all respect be construed and operate as an Indian Contract in conformity with Indian Law.

21) CAUTION STATEMENT:

The proposed offer is in CONFORMITY with the Components/Equipment supplied for the Main Plant unless stated explicitly otherwise by BHEL. You are requested to clearly bring out such Modification/Changes carried out on the Components/Equipment by yourselves or any other Erection/Service/Field Engineering. The responsibility lies solely on the part of the Customer, to bring out such changes while sending the Purchase Enquiry/Tender to BHEL so that the interchangeability and replacement is ensured.

22) WE CERTIFY THAT:

- i. BHEL is Original Equipment Manufacturer of the quoted items and the services offered are for the proprietary item of BHEL.
- ii. The rate quoted by us is lowest/ reasonable and same as charged from other Utility Customer including Government/ Semi Government organization.
- iii. We don't indulge in engagement of commission agents or liaison agents for dealing with the Customers.

23) DISCLAIMER:

- i. Please note that procurement of BHEL Proprietary items as per BHEL drawing or with its tracing is objectionable and illegal and shall be considered as part of IPR violation / infringement.
- ii. Wherever the order item quantities / order value is significantly lower than the offer, specific confirmation on the validity of the prices may please be taken from us before the placement of the Purchase Order.
- iii. We might have taken some deviations from the enquiry terms and conditions. Purchaser is requested to take a note of these, while placing the Purchase/Work Order.
- iv. Purchaser is requested to clearly indicate in the Purchase Order, the statutory & regulatory requirements that govern the items quoted against their enquiry.
- v. We hope you will find our offer technically suitable and commercially attractive and look forward to the receipt of your valued Purchase Order at the earliest.
- vi. We would be too pleased to furnish clarifications, if any on this offer, on hearing from your end.
- vii. Unilateral cancellation of Order is not acceptable to BHEL.
- viii. Order should be in line with our offer. Deviation in terms & condition from our offer will not be acceptable.
- ix. Interest@1% over & above the ruling bank rate shall be charged on all overdue payments in accordance with the Terms of Payment of our offer.

Thanking you and assuring you of our best services at all the times.

Yours faithfully,

(Authorized Signatory on behalf of BHEL)

Encl : As above

Annexure-I

Supply from BHEL Manufacturing Unit
HEP BHOPAL

GSTIN

23AAACB4146P1ZN

Bank Details

Name SBI
Branch HET
Branch Code 000519
Address 10302398549
Account No. 462002011
MICR SBIN00000519
IFSC

Mandatory Spares

Mandatory Spares													Remarks	
ENQ SN	QFR SN	Asy. Drg. No.	Asy. Var.	Item No.	UoM	QTY	Unit Price	Total Price	HSN	CGST (%)	SGST (%)	Offered Item Desc.	Deviation	Remarks
2	2	000000000011	0	011	Nos	3	3229000.00	9687000.00	90328910	9	9	Microprocessor Based Digital Governor Controller		
3	3	000000000022	0	010	No	1	692000.00	692000.00	90328910	9	9	Work Station Programming tool kit (Laptop with software)		
4	4	000000000033	0	009	No	1	415000.00	415000.00	90328910	9	9	Speed Sensing Device		
5	5	000000000044	0	008	Nos	3	77000.00	231000.00	90328910	9	9	(Toothed wheel With magnetic pick up)		
6	6	000000000055	0	007	Nos	3	2306000.00	6918000.00	90328910	9	9	Hydro Mechanical Cabinet for G.V. (Servo/proportional based)		
7	7	000000000066	0	006	Nos	3	108000.00	324000.00	90328910	9	9	Hydraulic Over speed device Feedback position transducer for G.V. & Runner (1 No. for Guide Vane)		
8	8	000000000077	0	005	Set	3	200000.00	600000.00	90328910	9	9	Piping & fitting for local Modification		
9	9	000000000088	0	004	Lot	3	215000.00	645000.00	90328910	9	9			

Mandatory Spares														
ENQ SN	OFR SN	Asy. Drg. No.	Asy. Var.	Item No.	UoM	QTY	Unit Price	Total Price	HSN	CGST (%)	SGST (%)	Offered Item Desc.	Deviation	Remarks

2	2	00000000011	0	011	Nos	3	3229000.00	9687000.00	90328910	9	9	Microprocessor Based Digital Governor Controller		Cable for termination between EHGC,HMC, control desk ,switches & indicating meters}{1 Lot = 500 meter (4 core, 2.5 mm sq. cable), 1000 meter (7 core, 1.5 mm sq. cable) with Cable glands ,terminal ferrule and lugs
10	10	00000000099	0	003	Lot	3	200000.00	600000.00	90328910	9	9	Cable for termination between EHGC,HMC, control desk ,switches & indicating meters) 1 Lot = 500 meter		As EHGC SPARES - (A)One no of each type power supply unit, (B)One no processor module, (C)One no each type digital input & output module (D) One no each type analog input & output module, (E) One no each type transducer, (F) One no each type auxiliary relay
11	11	00000000100	0	002	Set	1	1845000.00	1845000.00	90328910	9	9	EHGC SPARES		

Mandatory Spares											
ENQ SN	OFR SN	Asy. Drg. No.	Asy. Var.	Item No.	UoM	QTY	Unit Price	Total Price	HSN	CGST (%)	SGST (%)

2	2	00000000011	0	011	Nos	3	3229000.00	9687000.00	90328910	9	9
Microprocessor Based Digital Governor Controller											
12	12	000000000110	0	001	Set	1	999000.00	999000.00	90328910	9	9
HMC SPARES - (A) 1 no Pressure Gauge, (B) 1 no Miniature circuit breaker, (C) 2 nos Filtering Element, (D) 1 no Push Button, (E) 1 set Seal/Gasket, (F) 1 set Indicating Lamp, (G) 1 no Cartridge valve, (H) 1 no Servo/proportional valve, (I) 1 no Pressure switch, (J) 1 no Hydraulic Valve, (K) 1 no Auto/Manual solenoid valve, (L) 2 nos Electric Indicating meter, (M) 2 nos Speed sensor (magnetic pickup), (N) 1 no Guide vane feedback transducer											

Mandatory Spares Total: 2,29,56,000.00

Mandatory Services									
ENQ SN	OFR SN	Product Description	Major Activity	Actual Activity	UoM	QTY	Unit Price	Total Price	SAC

1	1	HYDRO TURBINE	Supervision only	Supervision for E&C of Digital Governing System	Lot	1	2028000.00	2028000.00	998349
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Mandatory Services Total: 20,28,000.00

Total for HEP BHOPAL: Rs. 2,49,84,000.00/- (Rupees Two Crore Forty Nine Lakhs Eighty Four Thousand Only).

	(B) 1 no Miniature circuit breaker, (C) 2 nos Filtering Element, (D) 1 no Push Button, (E) 1 set Seal/Gasket, (F) 1 set Indicating Lamp, (G) 1 no Cartridge valve, (H) 1 no Servo/proportional valve, (I) 1 no Pressure switch, (J) 1 no Hydraulic Valve, (K) 1 no Auto/Manual solenoid valve, (L) 2 nos Electric Indicating meter, (M) 2 nos Speed sensor (magnetic pickup), (N) 1 no Guide vane feedback transducer [HSN Code – 90328910]			
	Subtotal (Supply part)			2,29,56,000.00
02.00	Service Part			
02.01	Supervision for E&C of Digital Governing System [HSN Code – 998349]	1 Lot	20,28,000.00	20,28,000.00
	Subtotal (Service part)			20,28,000.00
	Subtotal (Ex Works)			2,49,84,000.00
03.00	Goods and service Tax at Ex Works (@18%)			44,97,120.00
04.00	Packing and Forwarding Charges (Inclusive)			0.00
05.00	Total unit freight & insurance (@ 4% of Ex -Works supply part)			9,18,240.00
	Freight charges shall be paid extra at actual tentatively limited to maximum @ 4% of Ex-works Rate/Basic Rate [For Bidders outside C.G.]			
06.01	GST@18% on freight & insurance charges			1,65,283.20
	Total Amount			3,05,64,643.20
	(In Words- Rs. Three Crore Five Lakh Sixty Four Thousand Six Hundred Forty Three and Paise Twenty Only)			

07.03 Basic Price

: Prices indicated in "Schedule of Prices" are of delivery Ex-works inclusive of Packing and forwarding charges but are exclusive of Goods & Service tax as applicable w.e.f. 01.07.2017. The IGST/ CGST-SGST/ UTGST (as the case may be) shall be charged Extra at actuals at the rates prevailing at the time of dispatch or billing. Present rate of IGST is 18% on basic value.

07.02 Price Schedule

Sl. No.	Particulars	Qty.	Per unit ex-works Price (Rs.)	Amount
01.00	Supply Part			
01.01	Microprocessor Based Digital Governor Controller [HSN Code – 90328910]	03 Nos	32,29,000.00	96,87,000.00
01.02	Work Station [HSN Code – 90328910]	01 No	6,92,000.00	6,92,000.00
01.03	Programming tool kit (Laptop with software) [HSN Code – 90328910]	01 No	4,15,000.00	4,15,000.00
01.04	Speed Sensing Device (Toothed wheel With magnetic pick up) [HSN Code – 90328910]	03 Nos	77,000.00	2,31,000.00
01.05	Hydro Mechanical Cabinet for G.V. (Servo/ proportional based) [HSN Code – 90328910]	03 Nos	23,06,000.00	69,18,000.00
01.06	Hydraulic Over speed device [HSN Code – 90328910]	03 Nos	1,08,000.00	3,24,000.00
01.07	Feedback position transducer for G.V. & Runner (1 No. for Guide Vane) [HSN Code – 90328910]	03 Set	2,00,000.00	6,00,000.00
01.08	Piping & fitting for local Modification [HSN Code – 90328910]	03 Lot	2,15,000.00	6,45,000.00
01.09	Cable for termination between EHGC,HMC, control desk ,(switches & indicating meters) -1 Lot } { 1 Lot = 500 meter (4 core , 2.5 mm sq. Cable), 1000 meter (7 core, 1.5 mm sq. cable) with Cable glands ,terminal ferrule and lugs) [HSN Code – 90328910]	03 Lot	2,00,000.00	6,00,000.00
01.10	EHGC SPARES As EHGC SPARES - (A)One no of each type power supply unit, (B)One no processor module, (C)One no each type digital input & output module (D) One no each type analog input & output module, (E) One no each type transducer, (F) One no each type auxiliary relay) [HSN Code – 90328910]	1 set	18,45,000.00	18,45,000.00
01.11	HMC SPARES HMC SPARES – (A) 1 no Pressure Gauge,	1 set	9,99,000.00	9,99,000.00



Chhattisgarh State Power Generation Company Limited

Annexure-II

ACE (S&P), KW
 O/o Addl. Chief Engineer (S&P)
 New Administrative Building
 HASDEO THERMAL POWER STATION
 P.O. JAMNIPALI, KORBA (W) CHHATTISGARH
 Pin - 495450
 Telephone - 07759 236208

Your Reference:
 Our Reference:
 Your Vendor Number with us 302097

Purchase Order (Material)
 PO number/date
 5500094460 / 14.01.2022
 Address
 Bharat Heavy electricals Limited
 Bhopal - Bhopal

Bhopal
 State - Madhya Pradesh
 Pin code - 462001

Supply. P.O.

Sub:- Order for Supply, Erection, Testing and commissioning of new Microprocessor based Electro Hydraulic Governor system (EHGC) for guide vane control to retro fit existing analogue version EHGC (EHG and HMC cubical) installed at 3x40MW Hydro TG Units of HBHPS, Machadoli.

- Ref:-1. CE(S&P:GEN)Tender No.03-03/HW-004/21, Rfx. No. 8100021171.
 2. Your offer against above tender (Response No. 8400153546) and all correspondence done thereof.
 3. CE (S&P:GEN) LOI No.03-03/HW-004/21/LOI/3515 dtd.27.12.2021.
 4. Service PO No.5500094471 dtd.14.01.2022 for Erection & Commissioning of EHGC

Dear Sir,

In continuation to above referred documentation, we are pleased to issue this detailed order on the rates as mentioned in the enclosed order schedule. The order shall be governed by the terms and conditions laid down hereunder in addition to our tender specification. These shall be binding on you in respect of this order.
 BASIS OF THE ORDER: It is explicitly implied and understood that the basis of this order is our tender specifications, your offer and any written correspondence exchanged from either end in connection with the tender. In the event, if there is any doubt at any stage, records as above shall be required to be referred to, for any conclusive inferences. The intention is that any reference is drawn from the structures of words and sentences in the order shall always mean basis of past records of this order and the supplier (firm) shall not have any right to draw /produce any inference independent of past records associated with this contract. CSPGCL always have a right to amend the order at any stage, during the currency of contract within the frame work of all standing documentation. These shall be binding on you in respect of this contract and any condition or stipulation contrary to the above or which are inconsistent will not be applicable/acceptable.

1. PRICE ,TAXES AND DUTIES :

PRICES: The accepted prices as indicated in the order schedule enclosed with this order are FIRM.

TAXES AND DUTIES:-

GST:- Extra @18%

HSN Code:- 90328910.

P&F charges:- Inclusive.

Freight charges:- Extra @0.5%.



Chhattisgarh State Power Generation Company Limited

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ACE (S&P), KW
O/o Addl. Chief Engineer(S&P)
New Administrative Building
HASDEO THERMAL POWER STATION
P.O. JAMNIPALI, KORBA (W)
CHHATTISGARH
Pin - 495450
Telephone - 07759 236208

Your Reference:
Our Reference:
Your Vendor Number with us 302097
Storage Location :- Bango

Purchase Order (Material)
PO number/date
5500094460 / 14.01.2022
Address
Bharat Heavy electricals Limited
Bhopal - Bhopal

Bhopal
State - Madhya Pradesh
Pin code - 462001

Sl.	Item	Qty.	Deliv. Date
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00010	Material No.-1844802001 , Microprocessor Based Digital Governor Controller for 3X40MW Hydro TG unit	3 NO	31.01.2024
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NAME	AMOUNT	PER	UoM	VALUE	
Basic Price	4,228,000.00	INR	1	NO	12,684,000.00
Freight%(base) -	0.50	%			63,420.00
GST	18	%			2,294,535.60
Net price+Disc	5,013,985.20	INR	1	NO	15,041,955.60
*** Item completely delivered ***					

Sl.	Item	Qty.	Deliv. Date
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00020	Material No.-1844802002 , Work Station for Digital Governor Controller 3X40MW Hydro TG unit	1 NO	31.01.2024
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NAME	AMOUNT	PER	UoM	VALUE	
Basic Price	1,057,000.00	INR	1	NO	1,057,000.00
Freight%(base) -	0.50	%			5,285.00
GST	18	%			191,211.30
Net price+Disc	1,253,496.30	INR	1	NO	1,253,496.30
*** Item completely delivered ***					

Sl.	Item	Qty.	Deliv. Date
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00030	Material No.-1844802003 , Programming tool kit (Laptop with software)	1 NO	31.01.2024
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NAME	AMOUNT		PER	UoM	VALUE
Basic Price	634,000.00	INR	1	NO	634,000.00
Freight%(base) -	0.50	%			3,170.00
GST	18	%			114,690.60
Net price+Disc	751,860.60	INR	1	NO	751,860.60
*** Item completely delivered ***					

Sl.	Item	Qty.	Deliv. Date
00040	Material No.-1844810001 , Speed Sensing Device (Toothed wheel With magnetic pick up)	3 NO	31.01.2024

NAME	AMOUNT		PER	UoM	VALUE
Basic Price	99,000.00	INR	1	NO	297,000.00
Freight%(base) -	0.50	%			1,485.00
GST	18	%			53,727.30
Net price+Disc	117,404.10	INR	1	NO	352,212.30
*** Item completely delivered ***					

Sl.	Item	Qty.	Deliv. Date
00050	Material No.-1844831001 , Hydro Mechanical Cabinet for Guide vane (Servo/ proportional based)	3 NO	31.01.2024

NAME	AMOUNT		PER	UoM	VALUE
Basic Price	2,114,000.00	INR	1	NO	6,342,000.00
Freight%(base) -	0.50	%			31,710.00
GST	18	%			1,147,267.80
Net price+Disc	2,506,992.60	INR	1	NO	7,520,977.80
*** Item completely delivered ***					

Sl.	Item	Qty.	Deliv. Date
00060	Material No.-1844810002 , Hydraulic Over speed device	3 NO	31.01.2024

NAME	AMOUNT		PER	UoM	VALUE
Basic Price	120,000.00	INR	1	NO	360,000.00
Freight%(base) -	0.50	%			1,800.00
GST	18	%			65,124.00

24

Net price+Disc 142,308.00 INR 1 NO 426,924.00
*** Item completely delivered ***

Sl.	Item	Qty.	Deliv. Date
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00070	Material No.-1844822001 , Feedback position transducer for Guide vane & Runner (1 No. for Guide Vane)	3 SET	31.01.2024
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NAME	AMOUNT	PER	UoM	VALUE	
Basic Price	183,000.00	INR	1	SET	549,000.00
Freight%(base) -	0.50	%			2,745.00
GST	18	%			99,314.10
Net price+Disc	217,019.70	INR	1	SET	651,059.10

*** Item completely delivered ***

Sl.	Item	Qty.	Deliv. Date
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00080	Material No.-1844809001 , Piping & fitting of Gov. & HMC unit local Modification	3 LOT	31.01.2024
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NAME	AMOUNT	PER	UoM	VALUE	
Basic Price	282,000.00	INR	1	LOT	846,000.00
Freight%(base) -	0.50	%			4,230.00
GST	18	%			153,041.40
Net price+Disc	334,423.80	INR	1	LOT	1,003,271.40

*** Item completely delivered ***

Sl.	Item	Qty.	Deliv. Date
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00090	Material No.-1844809002 , Cable for termination between EHGC,HMC, control desk , (switches & indicating meters) -1 Lot } {1 Lot = 500 meter (4 core , 2.5 mm sq. Cable), 1000 meter (7 core, 1.5 mm sq. cable} with Cable glands ,terminal ferrule and lugs)	3 LOT	31.01.2024
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NAME	AMOUNT	PER	UoM	VALUE	
Basic Price	564,000.00	INR	1	LOT	1,692,000.00

25

Freight%(base) -	0.50	%			8,460.00
GST	18	%			306,082.80
Net price+Disc	668,847.60	INR	1	LOT	2,006,542.80

*** Item completely delivered ***

Sl.	Item	Qty.	Deliv. Date
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00100	Material No.-1844809003 , EHGC SPARES#(A)One no of each type power supply unit,# (B)One no processor module,#(C)One no each type digital input & output module#(D) One no each type analog input & output module, #(E) One no each type transducer, #(F) One no each type auxiliary relay)#	1 SET	31.01.2024
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NAME	AMOUNT	PER	UoM	VALUE
Basic Price	2,537,000.00	INR	1	2,537,000.00
Freight%(base) -	0.50	%		12,685.00
GST	18	%		458,943.30
Net price+Disc	3,008,628.30	INR	1	3,008,628.30

*** Item completely delivered ***

Sl.	Item	Qty.	Deliv. Date
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00110	Material No.-1844809004 , HMC SPARES (A) 1 no Pressure Gauge, (B) 1 no Miniature circuit breaker, (C) 2 nos Filtering Element, (D) 1 no Push Button, (E) 1 set Seal/Gasket, (F) 1 set Indicating Lamp, (G) 1 no Cartridge valve, (H) 1 no Servo/proportional valve, (I) 1 no Pressure switch, (J) 1 No Hydraulic Valve (K) 1 No Auto Manual Solenoid Valve (L) 1 No Electric Indicating Meter (M) 2 Nos Speed Sensor (magnetic Pickup) (N) 1 No Guide Vane Feedback transducer	1 SET	31.01.2024
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NAME	AMOUNT		PER	UoM	VALUE
Basic Price	1,198,000.00	INR	1	SET	1,198,000.00
Freight%(base) -	0.50	%			5,990.00
GST	18	%			216,718.20
Net price+Disc	1,420,708.20	INR	1	SET	1,420,708.20
*** Item completely delivered ***					

TOTAL ITEM NET VALUE					33437636.40 INR

ACE (S&P), KW

ED/CE (Gen) Korba West



Chhattisgarh State Power Generation Company Limited

Annexure-III

ACE(S&P), KW
O/o Addl. Chief Engineer(S&P)
New Administrative Building
HASDEO THERMAL POWER STATION
P.O.JAMNIPALI, KORBA (W) CHHATTISGARH
Pin - 495450
Telephone - 07759 236208
Your Vendor Number with us 300513

Purchase Order(Services/Works)
PO number/date
5500094471 / 14.01.2022
Address
M/s BHARAT HEAVY ELECTRICALS LTD.
- 2, Arya Nagar, Narmada Road,
JABALPUR
State - Madhya Pradesh Pin code - 482001

Service P.O.

Sub:- Order for Supply, Erection, Testing and commissioning of new Microprocessor based Electro Hydraulic Governor system (EHGC) for guide vane control to retro fit existing analogue version EHGC (EHG and HMC cubical) installed at 3x40MW Hydro TG Units of HBHPS, Machadoli.

- Ref:-1. CE(S&P:GEN)Tender No.03-03/HW-004/21, Rfx. No. 8100021171.
2. Your offer No.OFR_SB21J0042/Rev_00/214028/HSD/NGP/21044 dtd.27.08.2021 and all correspondence done thereof.
3. CE (S&P:GEN) LOI No.03-03/HW-004/21/LOI/3515 dtd.27.12.2021.
4. Supply PO No.5500094460 dtd.14.01.2022. for Microprocessor based Electro Hydraulic Governor system (EHGC) along with accessories

Dear Sirs,

With reference to the above, this office pleased to issue work order for Work of Supply, Erection, Testing and commissioning of new Microprocessor based Electro Hydraulic Governor system (EHGC) for guide vane control to retro fit existing analogue version EHGC (EHG and HMC cubical) installed at 3x40MW Hydro TG Units of HBHPS, Machadoli, on the rates and terms & conditions as detailed in the order schedule enclosed with this order of tender No.CE(S&P:GEN)Tender No.03-03/HW-004/21-22/113, Rfx. No. 8100021171. These shall be binding on you in respect of this order.

BASIS OF THE ORDER: It is explicitly implied and understood that the basis of this order is our tender specifications, your offer and any written correspondence exchanged from either end in connection with the tender. In the event, if there is any doubt at any stage, records as above shall be required to be referred to, for any conclusive inferences. The intention is that any reference is drawn from the structures of words and sentences in the order shall always mean basis of past records of this order and the supplier (firm) shall not have any right to draw/produce any inference independent of past records associated with this contract. CSPGCL shall always have a right to amend the order at any stage, during the currency of contract within the frame work of all standing documentation.

1. PRICE,TAXES AND DUTIES:

PRICES: The accepted rates as mentioned in the schedule enclosed with this order are firm in rupees for total order value Rs.1,92,36,360.00 inclusive of GST @18%.

Goods & Service Tax: Goods & Service Tax shall be paid extra as applicable @ 18%.

INCOME TAX: Income Tax shall be recovered as per the Govt.rules. Our Sr. A. O. will issue a certificate to this effect.

TDS on GST:- TDS on GST shall be recovered as per Govt rule and certificate to this effect shall be issued by Sr AO.

2. ACCEPTANCE:

Please convey your acceptance to this order immediately of receipt of the order.

3. TERMS OF PAYMENT :

- (i) 50% of the lump sum value as in price clause shall be payable after completion of mobilization and dismantling.
- (ii) 40% of the lump sum value as in price clause shall be payable after assembly work & machine put on barring.
- (iii) Final 10% of the lump sum value shall be payable after commissioning the unit as per scope of Work in BHEL's Offer.

All payment shall be released within 15 days from the date of invoice.

4. DELIVERY :

- (1) Contractual Period- 01 year after receipt of material
- (2) 30 days from the date of handing over site against each unit.
- (3) Mobilization Period:- Within Four weeks on getting information of unit shutdown schedule.

5. PERFORMANCE SECURITY :

Exempted being Central PSU .

6. CONTRACT RIDERS (clauses) :

(1) AGREEMENT:- The contractor shall execute an agreement bond within 7 days from the date of receipt of order on non-judicial stamp paper worth Rs.50/- (Fifty) plus Rs.1/- Revenue stamp. The agreement will be executed in prescribed form enclosed and submitted to the office of SE(O&M):HBHPS: CSPGCL: Machadoli Bango.

(2) ENGINEER IN CHARGE:- The Engineer in charge of site shall be deputed by the SE(O&M):HBHPS: CSPGCL: Machadoli Bango.

(3) COMPENSATION IN CASE OF ACCIDENT: The contractor shall be wholly responsible for any loss arising from the accident pilferage while executing of the work. Contractor is wholly responsible for providing the safety appliances to their workers. In case of accident of workers of the contractor or by the workers of contractor while executing the work, CSPGCL will not pay any compensation and all such compensation is to be borne by the contractor only.

(4) SAFETY OF EQUIPMENTS: Contractor shall be accountable for any damage to the CSPGCL's equipment for his negligence or poor workmanship and shall have to compensate such loss.

(5) RECORD KEEPING: The contractor shall maintain an up-to date record of work progress and material issued / utilized at site.

(6) Scope of Work And Terms & Conditions:

- 1. Dismantling of the existing governor EHG panel.
- 2. Dismantling of the existing PMG or SSG system.
- 3. Dismantling of the existing HMC panel.
- 4. Installation of the new EHG panel.
- 5. Installation of the new HMC panel
- 6. Installation of the new SSG system.

7. Installation of the new Hydraulic over speed device.
8. Installation of feedback transducer (LVDT) on servomotors.
9. Installation of governor loose instrument/meters/switches on existing UCB/CD in the control room
10. Installation of EWS & OWS PC based system in the control room.
11. Installation/laying and termination of the new set of cables for interconnection between the systems supplied as per schematic/wiring/termination details.
12. Spinning of machine to rated speed in governor manual mode as well as in auto mode.
13. Synchronising of machine in auto mode.

TERMS AND CONDITIONS

1. All tools and tackles shall be arranged by the contractor itself.
2. Billing will be done on actual work carried out basis only. Optional work will be carried out on subject to availability of spares.
3. Firm shall follow all the rules and regulations of the company & State Government regarding safety, labour etc. applicable.
4. Free air & electricity shall be provided by the CSPGCL.
5. Residential facility shall be provided if available.
6. Necessary machining of components/parts, required during overhaul work shall be in the scope of contractor. The contractor should arrange/engage local workshop & transport for this purpose to avoid any delay

OTHER TERMS AND CONDITIONS:-

1. All the safety rules shall have to be followed by the contractor and any lapse will be in contractor's part.
2. SAFETY:- Necessary safety appliances of ISI mark viz Helmet, Shoes, Hand Gloves etc. shall be provided to labours engaged, at contractor's cost during execution of work and a record of issue of safety appliance will be kept by the contractor which will be required to produce whenever demanded by Officer-In-Charge/ Safety Officer/ Factory Inspector. If safety rules are not complied action will be taken in accordance with clause - III, sub clause - 1-c & 2 of factory act 1948. In case any of your labour or supervisor is observed not following safety rules and regulations as per Factory Act/ The Industrial Health & safety Department of Govt., penalty as deemed fit but not exceeding Rs. 500/- per day per person may be imposed on the contractor by the Engineer-In-Charge/ Safety Officer of the Board. Any dispute in labour court or any other Court regarding accident or any other thing related to work order will be purely dealt by the contractor. Board will have no responsibility including filing FIR in Police, if required.

7. EXTENSION ORDERS :

(I) Considering the actual condition of site/regular growth of work, the quantity/ quantum of work under the scope of the work of a particular contract may vary/ increase. Accordingly, The schedule contract period of the work may be increased of further six months and the contractor is bound to accept it on the same rates, terms and conditions.

8. DISPUTE :

In case of disputes the decision of the E.D./C.E.(Gen), Addl. C.E. (O&M-II), HTPS, Korba West / S.E.(O&M), HBHPS, Machadoli, Bango will be final and binding on the Firm.

9. GUARANTY :

Defect liability period shall be "45 days after attaining full load". But full load should be attained within 3 days after synchronization i.e. defect liability period shall be 48 days after synchronization of the unit.

10. JURISDICTION :

Any dispute or difference arising under, out of, or in connection with tender-contract shall be subject to exclusive jurisdiction of competent court at Korba/Bilaspur (C.G.) only.

PURCHASE ORGANIZATION : ED/CE(Gen)Korba West
PURCHASE ORDER NO. : 5500094471

Dt 14.01.2022

11. CORRESPONDENCES :

(A) All correspondence pertaining to this order should invariably be made to the :
1. Superintending Engineer(O&M),HBHPS, Machadoli, Bango.

Email: seonm.bango@cspc.co.in

2. This Office. Email: sepnw.kw@cspc.co.in

B)All correspondence in respect of financial matters shall be made to:

(1) The Assistant Manager (Bills) O/o Executive Director (Finance),CSPGCL, Raipur.
Email:managerbills.cspgcl@cspc.co.in

(2) The Sr. Accounts Officer, HTPS, CSPGCL, Korba West. Email: srao.kw@cspc.co.in

12. ACKNOWLEDGEMENTS :

Please acknowledge the receipt of the order and confirm your acceptance. If no formal acceptance of the order is received within 10 days from dispatch of this order, it will be presumed that the order has been accepted in all respect.

13. ENCLOSURES :

1. Order Schedule.
2. Agreement Bond Proforma.

Thanking you
Yours Faithfully,

ACE(S&P),KW

ED/CE(Gen)Korba West

Copy To :

M/s. BHEL, Power Sector, Western Region
SAS, Shree Mohini Complex, 345, Kingsway,
Nagpur- 440001
Email- anand.sharma@bhel.in



ACE (S&P), KW
 O/o Addl. Chief Engineer (S&P) New
 Administrative Building HASDEO THERMAL
 POWER STATION
 P.O. JAMNIPALI, KORBA (W) CHHATTISGARH
 Pin - 495450
 Telephone - 07759 236208
 Your Vendor Number with us 300513

Purchase Order (Services/Works)
 PO number/date
 5500094471 / 14.01.2022
 Address
 M/s BHARAT HEAVY ELECTRICALS LTD.
 - 2, Arya Nagar, Narmada Road,
 JABALPUR
 State - Madhya Pradesh Pin code - 482001

Cost Schedule

Sl. No.	Description	Quantity	OUN	Del. Date
10001	EC&T of EHGC & HMC Dismantling of existing installed Electro Hydraulic Governor System comprising EHG and HMC Panel and associated parts/auxiliary to an extend as required and Erection, commissioning and testing of new Microprocessor based Electro hydraulic governor system in Unit no. 01, 02 and 03 at HBHPS, Machadoli. Work Shall be carried out in One by one manner subjected to availability of unit. Scope of work covers supply of engineer, technician, labour, all tools and tackles and consumables required to complete the E&C work in all respect.	1	JOB	25.02.2024
Order Number - H64392200001				
		Basic Price	16,302,000.00	16,302,000.00
		GST	2,934,360.00	2,934,360.00
		Net price+Disc	19,236,360.00	19,236,360.00
ITEM	Description	Quantity	Rate (Rs)	Gross Price (Rs)
10	Service ET&C of new EHGC and HMC at Bango	3	JOB 5,434,000.00	16,302,000.00

Purchase Order - 5500094471

Dt 14.01.2022

Total net value

19,236,360.00 INR

Thanking you
Yours Faithfully,

ACE (S&P), KW

ED/CE (Gen) Korba West

छत्तीसगढ़ राज्य विद्युत उत्पादन कम्पनी मर्यादित : रायपुर

क्रमांक : 03-15/निविदा/57/918
प्रति,

रायपुर, दि. 18/10/2022

महाप्रबंधक,
छत्तीसगढ़ संवाद
सेक्टर-19, नार्थ ब्लॉक,
कायाबांधा, नया रायपुर (छ.ग.) 492015

विषय : निविदा सूचना प्रकाशित करने बाबत ।

-0-

महोदय,

इस पत्र के साथ निविदा प्रकाशन की सूचना संलग्न है। कृपया आप निम्नलिखित समाचार-पत्रों में इस पत्र की तारीख से तीन दिनों के भीतर राज्य स्तरीय समाचार पत्रों में तथा पांच दिनों के भीतर राष्ट्रीय स्तर के समाचार पत्रों में 8x12 सेंटीमीटर साईज एवं फोन्ट साईज 8 (आठ) में प्रकाशित करने का कष्ट करें, तथा प्रकाशन तिथि से तीन दिनों के भीतर समाचार-पत्र एवं देयक (तीन प्रतियों में) इस कार्यालय को प्रेषित करें ।

समाचार-पत्रों के नाम :-

01. द स्टेट्समैन, कोलकाता
02. मिलेनियम पोस्ट, दिल्ली
03. दैनिक भास्कर, बिलासपुर
04. नवभारत, रायपुर

संलग्न: निविदा विशेषीकरण क्रमांक मुअसि/ए.यू. एण्ड पी.सी./ए.टी.पी.एस.-को.प. /कार्य/2022/61
तथा जावक क्रमांक 03-15/कार्य/904 रायपुर, दि. 13.10.2022.

मुख्य अभियंता (सिविल) ए.यू. एण्ड पी.सी.
छ.रा.विद्युत उत्पा.कं.मर्या. : रायपुर

प्रतिलिपि :-

01. प्रबंधक (जन संपर्क) छ.रा.विद्युत पारेषण कम्पनी मर्यादित, रायपुर को उनके स्वीकृति क्रमांक 201 दिनांक 14.10.2022 एवं प्रबंध निदेशक (उत्पा.), रायपुर का स्वीकृति क्र. 2177 दिनांक 14.10.2022 के संदर्भ में सूचनार्थ ।
02. कार्यपालक निदेशक, ऊर्जा प्रौद्योगिकी केन्द्र छ.रा.विद्युत वितरण कम्पनी मर्यादित, रायपुर को निविदा की प्रति एवं फ्लॉपी सहित आवश्यक कार्यवाही हेतु प्रेषित ।
03. सहायक प्रबंधक (केन्द्रीय लेखा ईकाई), छ.रा.विद्युत उत्पादन कम्पनी मर्यादित, रायपुर ।
04. बिल प्रभाग मुख्य अभियंता (सिविल) छ.रा.विद्युत उत्पादन कम्पनी मर्यादित, रायपुर ।

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OFFICE OF THE CHIEF ENGINEER (CIVIL) AU & PC, CSPGCL
 Shed No. 2, Dangama, Raipur-492013 Phone No. 0771-2576880, Fax : 0771-2574579, e-mail: cecd.raipur@gmail.com

No.03-15/W/904 **E-TENDER NOTICE** **Raipur, date 13.10.2022**

Online bids are invited through CSPCL e-bidding system (SAP SRM) from contractors registered in appropriate class in CSPGCL in three part tendering system. The unregistered contractor having experience in Govt./Public Sector Undertaking/Local bodies/Power Generating Companies in India only may also be considered on submission of experience certificate for following works as mentioned below :-

Sl. No.	Tender Specification No.	Name of Work	NT value i/c 18% GST (Rs.)	EMD (Rs.)	Completion period (incl. Rainy season)	RFx No.
1	CEC/AU&PC/HTPS-KW/W/2022/61	2nd stage Raising the height of Pond-II from RL 313.0 M to 316.00 M of Ash Dyke Dindolbhatta of 1X500 MW Extension Unit at HTPS, CSPGCL, Korba West	387.00 Lacs	3,87,000/-	08 Months	81000 27964

Cost of tender form is Rs. 1180/- (Rs. 1000/- +18%GST). The due date & time for submission of bids Tender Cost & EMD is 31.10.2022 (up to 15:00 Hrs) and bid opening date (Techno commercial bids) is 02.11.2022 (up to 16:00) Hrs respectively. The tender document can be viewed and downloaded online from our e-bidding portal <https://ebidding.cspcl.co.in:50724/irj/portal>.

Note:- (i) In case, the rate quoted by the contractor is on extremely lower side than estimated contract value. a performance guarantee @ 5% of contract value i/c GST in addition to Security Deposit shall have to be deposited by the contractor. (ii) Maintenance period for the work shall be 12 months

SAVE ELECTRICITY

Chief Engineer (Civil) AU & PC, CSPGCL, Raipur

SIZE 8X12

[Signature]
Supdtg. Engineer (Civil)
O/o. C.E. (Civil) AU & PC
C.S.P.G.C.L.; RAIPUR

[Signature]
 19/10/22

	RFQs	RFxs	RFx Templates	Auctions	Auction Templates
All (0)	Ready To Compare (0)	All (31)	Saved (0)	Saved (0)	All (0)
	Missing Quotations (0)	Awaiting Approval (0)	RFQ (0)	Published (0)	English Auction (0)
				Active (0)	Company Best Bid (0)
				Paused (0)	
				Ended (0)	Completed (0)
				Deleted (0)	Release Rejected (0)

Show Quick Criteria Maintenance

Change Query Define New Query Personalize

RFx Number	RFx Name	Type	Status	RFx Category	Current Status	Purchasing Organization	Submission Deadline	Responses
27954								
8100027954	2nd stage raising of Pond-II Dindolbhatta	BID	Published		Extended	CE(CVIL)-AU&PC,CSPGCL, RAIPUR	11.11.2022	3

Last Refresh 14.11.2022 11:56:24 INDIA Refresh

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EMD Payment Details

RFx Name 2nd stage raising of Pond-II Dindobhata

Save Close Window

RFx No. 8100027864

Submission Deadline 11.11.2022 15:00:00 Time Zone INDIA

EMD Payment Details

Edit Details

Company Name	Contact	Payment Method	Amount	Currency	Instrument Number	Payment / Waived Date	EMD Reversal	Reversal Date	Status
M K GUPTA & COMPANY	UMASHANKER AGRAWAL	Online Payment	387,000.00	INR	170000070618	10.11.2022			Paid
M K GUPTA & COMPANY	UMASHANKER AGRAWAL	Online Payment	387,000.00	INR	170000070618	10.11.2022			Paid
SAJAN KUMAR AGRAWAL	SAJAN KUMAR AGRAWAL	Online Payment	387,000.00	INR	170000069164	31.10.2022			Paid
SHANKER ENGINEERING WORKS	M SHANKAR SAMY	Online Payment	387,000.00	INR	170000068877	28.10.2022			Paid

Active Queries

	RFQs	RFxs	RFx Templates	Auctions	Auction Templates
All (0)	Ready to Compare (0)	Saved (0)	Published (0)	English Auction (0)	Company Best Bid (0)
RFxs All (1)	Awaiting Approval (0)	RFQ (0)	Active (0)	Paused (0)	Completed (0)
Completed (0)	Deleted (0)	Completed (0)	Ended (0)	Completed (0)	Release Rejected (0)

RFxs - All

Hide Quick Criteria Maintenance

Change Query Define New Query Personalize

Number:	8100027964	To	
RFx Type:			
Name of RFx:			
Status:			
Processed Since:	Last 30 Days		
Purchasing Organization:			
Product Category:			
Submission Deadline:			
My RFx:			
Purchase Group:			
Number of RFx responses:			
Supplier:			
Item Product:			

Apply Clear

[illegible]

- ☒ Mail has been sent to -nkg_navrangs@rediffmail.com
- ☒ Mail has been sent to -sajanjanigir@gmail.com
- ☒ Mail has been sent to -shankarenga.work@gmail.com

Price Opening Date Intimation

Input field

Tender Number: 8100027864
Price Opening Date & Time: 28.11.2022 12:20:00

Submit

Annexure-V

Tender Number -8100027964			
Tender Name -2nd stage raising of Pond-I			
Vendor Name			
Response Number			
NET VALUE			
OVERALL RANK			
	SHANKER ENGI	SAJAN KUMAR	M K GUPTA &
	8400182418	8400182801	8400184212
	39386500	35133400	42091375
	L2	L1	L3
1			
Excavation for Benching the seat			
350			
	NET PRICE	50	6
	BIDDER QUANTITY	350	14.1
	NET VALUE	17500	350
	ITEM RANK	2100	4935
ITEM NO -2	L3	L1	L2
Furrowing and plugging the seat of emban			
48000			
	NET PRICE	5	1
	BIDDER QUANTITY	48000	1
	NET VALUE	240000	48000
	ITEM RANK	48000	48000
ITEM NO -3	L2	L1	L1
Embankment from the suitable ash spoil o			
48000			
	NET PRICE	26	28
	BIDDER QUANTITY	48000	48000
	NET VALUE	1248000	1344000
	ITEM RANK	1104000	1344000
ITEM NO -4	L2	L1	L3
Embankment from the Ash spoil obtained f			
125000			
	NET PRICE	29	28
	BIDDER QUANTITY	125000	125000
	NET VALUE	3625000	3500000
	ITEM RANK	2875000	3500000
ITEM NO -5	L3	L1	L2
Excavation in Soil (by Mechanical Means.)			
47000			
	NET PRICE	90	95
	BIDDER QUANTITY	47000	47000
	NET VALUE	4230000	4465000
	ITEM RANK	4230000	4465000
ITEM NO -6	L1	L1	L2
Compaction of earth work at optimum moi			
47000			

Qishan
28/11/22

	NET PRICE	9	20	36
	BIDDER QUANTITY	47000	47000	47000
	NET VALUE	423000	940000	1692000
ITEM NO -7	ITEM RANK	L1	L2	L3
Supplying and forming , If sand is used				
9000				
	NET PRICE	350	255	300
	BIDDER QUANTITY	9000	9000	9000
	NET VALUE	3150000	2295000	2700000
ITEM NO -8	ITEM RANK	L3	L1	L2
Supplying and forming , If bottomis used				
6000				
	NET PRICE	80	100	300
	BIDDER QUANTITY	6000	6000	6000
	NET VALUE	480000	600000	1800000
ITEM NO -9	ITEM RANK	L1	L2	L3
Supply of mineral45 mm standard size bro				
2600				
	NET PRICE	900	1000	1200
	BIDDER QUANTITY	2600	2600	2600
	NET VALUE	2340000	2600000	3120000
ITEM NO -10	ITEM RANK	L1	L2	L3
Supply of mineral13.2mm standard size br				
2600				
	NET PRICE	900	1000	1200
	BIDDER QUANTITY	2600	2600	2600
	NET VALUE	2340000	2600000	3120000
ITEM NO -11	ITEM RANK	L1	L2	L3
Supplying and forming rock toe using roc				
4500				
	NET PRICE	1700	1300	1290
	BIDDER QUANTITY	4500	4500	4500
	NET VALUE	7650000	5850000	5805000
ITEM NO -12	ITEM RANK	L3	L2	L1
reinforcement for R.C.C. workCold/HOT				
14000				
	NET PRICE	80	52	65
	BIDDER QUANTITY	14000	14000	14000
	NET VALUE	1120000	728000	910000
	ITEM RANK	L3	L1	L2

28/11/22

ITEM NO. 11				
Excavation for all types and sizes of fo				
1100				
	NET PRICE	80	80	90
	BIDDER QUANTITY	1100	1100	1100
	NET VALUE	88000	88000	99000
ITEM NO. 12	ITEM RANK	L1	L1	L2
Providing and laying nominal mix 1:4:8				
600				
	NET PRICE	3500	2800	3000
	BIDDER QUANTITY	600	600	600
	NET VALUE	2100000	1680000	1800000
ITEM NO. 13	ITEM RANK	L3	L1	L2
Providing and laying nominal mix 1:2:4				
5				
	NET PRICE	4400	2900	3900
	BIDDER QUANTITY	5	5	5
	NET VALUE	22000	14500	19500
ITEM NO. 14	ITEM RANK	L3	L1	L2
Filling with available excavated stuff				
350				
	NET PRICE	80	61	65
	BIDDER QUANTITY	350	350	350
	NET VALUE	28000	21350	22750
ITEM NO. 15	ITEM RANK	L3	L1	L2
Rendering of protective treatment to embank				
12000				
	NET PRICE	18	7	10
	BIDDER QUANTITY	12000	12000	12000
	NET VALUE	216000	84000	120000
ITEM NO. 16	ITEM RANK	L3	L1	L2
Construction of earthen dowels on top of				
1500				
	NET PRICE	62	30	30
	BIDDER QUANTITY	1500	1500	1500
	NET VALUE	93000	45000	45000
ITEM NO. 17	ITEM RANK	L2	L1	L1
Brickwork with modular fly-ash 1:6				
600				

28/11/22

		NET PRICE	2900	2500	3263
		BIDDER QUANTITY	600	600	600
		NET VALUE	1740000	1500000	1957800
ITEM 2		ITEM RANK	L2	L1	L3
	Providing and making 15mm thick cement				
	6000				
		NET PRICE	90	100	90
		BIDDER QUANTITY	6000	6000	6000
		NET VALUE	540000	600000	540000
ITEM		ITEM RANK	L1	L2	L1
	Providing and placing in up stream fly a				
	21000				
		NET PRICE	146	170	210
		BIDDER QUANTITY	21000	21000	21000
		NET VALUE	3066000	3570000	4410000
ITEM		ITEM RANK	L1	L2	L3
	Random masonry in CM 1:6 with all				
	210				
		NET PRICE	900	2200	2515
		BIDDER QUANTITY	210	210	210
		NET VALUE	189000	462000	528150
ITEM		ITEM RANK	L1	L2	L3
	Providing and placing in position plain				
	70				
		NET PRICE	2900	2700	180
		BIDDER QUANTITY	70	70	70
		NET VALUE	203000	189000	12600
ITEM		ITEM RANK	L3	L2	L1
	Supplying RCC hume pipe grade I				
	450				
		NET PRICE	1500	840	906
		BIDDER QUANTITY	450	450	450
		NET VALUE	675000	378000	407700
ITEM		ITEM RANK	L3	L1	L2
	Providing and placing in position				
	7100				
		NET PRICE	80	52	60
		BIDDER QUANTITY	7100	7100	7100
		NET VALUE	568000	369200	426000
ITEM		ITEM RANK	L3	L1	L2

Q. Shari
28/11/20

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Prov.	providing design mix M-25 grd				
	55				
		NET PRICE	4400	3090	4300
		BIDDER QUANTITY	55	55	55
		NET VALUE	242000	169950	236500
ITEM		ITEM RANK	L3	L1	L2
Foun.	footings, bases of columns				
	300				
		NET PRICE	135	200	200
		BIDDER QUANTITY	300	300	300
		NET VALUE	40500	60000	60000
ITEM		ITEM RANK	L1	L2	L2
Struct	work in single section				
	7500				
		NET PRICE	80	60	90
		BIDDER QUANTITY	7500	7500	7500
		NET VALUE	600000	450000	675000
ITEM		ITEM RANK	L2	L1	L3
Provi.	providing approved pipe hand				
	150				
		NET PRICE	10	50	100
		BIDDER QUANTITY	150	150	150
		NET VALUE	1500	7500	15000
ITEM		ITEM RANK	L1	L2	L3
Dism	discontinuing steel structure				
	1				
		NET PRICE	5000	80000	1000
		BIDDER QUANTITY	1	1	1
		NET VALUE	5000	80000	1000
ITEM		ITEM RANK	L2	L3	L1
Const	curbular sub-base				
	900				
		NET PRICE	1350	940	1400
		BIDDER QUANTITY	900	900	900
		NET VALUE	1215000	846000	1260000
ITEM		ITEM RANK	L2	L1	L3
Water	water 63 to 45 mm size agg				
	330				
		NET PRICE	1350	980	1434

28/11/22

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		BIDDER QUANTITY	330	330	330
		NET VALUE	445500	323400	473220
ITEM	33	ITEM RANK	L2	L1	L3
Water	33	330			
		NET PRICE	1350	980	1434
		BIDDER QUANTITY	330	330	330
		NET VALUE	445500	323400	473220
		ITEM RANK	L2	L1	L3

Q. Khan
28/11/22

Registered AD/-

CHHATTISGARH STATE POWER GENERATION CO. LTD.

No.03-15/HTPS-KW/W/202/ 1365

Raipur,dt. 27/12/2022

To,

**M/s Sajan Kumar Agrawal,
Main Road Netaji Chowk, Janjgir-Champa (CG)**

Sub:- Tender for the work of **2nd stage Raising the height of Pond No.-II from RL 313.00 M to 316.00 M of Ash Dyke Dindolbhata of 1x500 MW Extension Unit at HTPS, CSPGCL, Korba West (Tender Spn. No. CEC/AU&PC/HTPS-KW/W/2022/61), Rfx No. 8100027964.**

Ref:- 1. Your response No. 8400182801
2. Your price bid opened on **28.11.2022.**

Dear Sir,

1. Your tender for the work of **2nd stage Raising the height of Pond No.-II from RL 313.00 M to 316.00 M of Ash Dyke Dindolbhata of 1x500 MW Extension Unit at HTPS, CSPGCL, Korba West. (Tender Spn. No. CEC/AU&PC/HTPS-KW/W/2022/61), Rfx No. 8100027964** participated in E-Tendering of C. E. (Civil) AU&PC, CSPGCL, Raipur and opened on **28.11.2022** has been accepted at your quoted rate, as per schedule enclosed. This acceptance is subject to the terms and conditions as stipulated in detail in the tender specifications which shall be binding on you in respect of this contract and no conditions or stipulations to the contrary or which are inconsistent will be applicable. No separate payment for lead and lift of materials shall be made unless otherwise specified.

2. You are requested to submit the GST registration before commencement of work to ensure whether you fall under (a) Registered dealer (b) Unregistered dealer (c) Composite dealer category.

3. The value of the contract is estimated to be **Rs. 3,51,33,400/- (Rs. Three crore fifty one lacs thirty three thousand four hundred) only + GST (at present @ 18%) Rs. 63,24,012/-**. GST shall be extra as applicable either to be paid to you or to be paid by CSPGCL to the authority directly depending on your status of registration for GST. **Thus total contract value of work including GST is Rs. 4,14,57,412/-.**

4. Please arrange within 10 (TEN) days of receipt of this letter to deposit with the Senior Accounts Officer, 1X500MW, HTPS, CSPGCL, Korba West / Assistant Manager, (CAU), CSPGCL, Raipur a sum of **Rs. 4,42,200/- (Rs. Four lacs forty two thousand two hundred) only** which together with the sum of **Rs. 3,87,000/- (Rs. Three lacs eighty seven thousand) only** already deposited by you as earnest money with tender shall form initial security deposit of the contract @2% of contract value since you are registered with the Co. Further deductions @3% will be made from each of the running account bills of the contract for the work done till the total amount of security deposit equivalent to 5% of the contract value is realized in full.

The above deposit shall be retained as security for the due and proper fulfillment of the contract. The initial Security deposit can also be furnished in any one or the other approved forms such as Demand Draft, Fixed Deposit Receipt, Bank Guarantee in Company's prescribed proforma issued by Nationalized Banks only shall be acceptable. The money receipt obtained from Senior Accounts Officer, 1X500MW, HTPS, CSPGCL, Korba West / Assistant Manager, (CAU), CSPGCL, Raipur in the case of cash remittance or deposit receipts etc. towards the above security deposit may please be produced in this office at the time of execution of contract agreement.

5. "Please attend this office or direct your authorized representative alongwith proper and valid "Power of Attorney" to attend this office within 10 (Ten) days of receipt of this letter to execute the contract agreement on non judicial stamp paper as per the proforma prescribed by the Co. for the due and proper fulfillment of the contract.

6. The cost of stamp paper worth Rs. 300/- along with revenue stamp of value Re. 1/- (One rupee) only on which agreement is to be executed will be borne by you. Non judicial stamp paper in three sheets will be required for the purpose.

7. Time is essence of contract and work shall be completed in all respects within the time specified i.e. **08 (Eight)** months including rainy season. Time allowed for carrying out the work shall be reckoned from the date on which order to commence the work is given to the contractor or from the date of handing over of site or issue of first set of drawing (if any), whichever is later.

8. **The Executive Engineer (Civil) Const. Dn. -I, 1X500MW, HTPS, CSPGCL, Korba West** will be the Engineer-in-Charge of this work. The Engineer-in-Charge should ensure delivery of LOI and pursue the contractor for timely execution of agreement and commencement of work.

9. The expenditure shall be met out from the Capital grant of Civil work of Ash Dyke Dindolbhata of 1X500MW Exten., HTPS, Korba West for the year 2023-24.

10. Necessary work order along with construction drawing shall be issued by the Engineer-in-Charge.

Note:- The maintenance period for the work shall be 12 (Twelve) months after the satisfactory completion of work after which a certificate of completion shall be given by Engineer-in-Charge.

Please acknowledge the receipt of this order.

Thanking you

Encl:- Schedule

Yours faithfully,

Handwritten signature
27/12/2022
de Chief Engineer (Civil)AU&PC
CSPGCL : RAIPUR

No.03-15/HTPS-KW/W/202/

Raipur,dt.

Copy to :-

1. The Chief Engineer (Gen.) HTPS, CSPGCL, Korba West.
2. The Superintending Engineer (Civil)Circle, 1X500MW, HTPS, CSPGCL, Korba West.
3. The Executive Engineer (Civil) Const. Dn. -I, 1X500MW, HTPS, CSPGCL, Korba West.
4. The Senior Accounts Officer, 1X500MW, HTPS, CSPGCL, Korba West.
5. Agreement Copy.

Encl:- Schedule.

Handwritten signature
Superintending Engineer (Civil)
O/o C. E. (Civil)AU&PC, CSPGCL, Raipur
de 27/12/2022

SCHEDULE

Name of work :- 2nd stage Raising the height of Pond No.-II from RL 313.00 M to 316.00 M of Ash Dyke Dindolbhata of 1x500 MW Extension Unit at HTPS, CSPGCL, Korba West. (Tender Spn. No. CEC/AU&PC/HTPS-KW/W/2022/61), Rfx No. 8100027964.

S.N.	Particulars	Unit	Qty	Rate	Amount
1	Item No. 1 :- Excavation for Benching the seat of embankment to an average depth of 15cm and cross slope of 1 in 12 including removing the rubbish up to a distance of 50m including dressing.	Cum	350.00	6.00	2100.00
2	Item No. 2 :- Furrowing and plugging the seat of embankment.	Sqm	48000.00	1.00	48000.00
3	Item No. 3 :- Ash work in excavation from the specified borrow area / foundation area of proposed ash bund within the existing ash dyke including cleaning of borrow pit / foundation area by uprooting of all types of vegetation, grass bushes, water hyssenth, saplings etc. by any means and stripping of top layer of minimum 20 cms. or to such depth as decided by the ENC. depending upon the suitability of ash to be used in forming ash embankment i/c. disposal of all unsuitable materials outside the working area with all lead and lifts complete as per direction of Engineer-in-charge including loading, transportations, unloading suitable / selected excavated materials on the bank, in layers not exceeding 250 mm thick for forming the embankment with all leads, lifts, breaking clods / lumps watering compaction (i/c. additional ash work beyond theoretical profile required for desired compaction) to achieve dry density (standard proctor) with approved mechanical means, including trimming of slope to the theoretical profile and all other incidental charges such as watering, cost of labourers equipments and materials etc. complete as per specifications, drawings and as directed by the ENC.				
(i)	Embankment from the suitable ash spoil obtained from foundation area.	Cum	48000.00	23.00	1104000.00
(ii)	Embankment from the Ash spoil obtained from the borrow area pit and existing ash dyke (as obtained from HCSD system).	Cum	125000.00	23.00	2875000.00
4	Item No.4 :- Excavation in Soil (by Mechanical Means.) Excavation for roadway in soil using mechanical means including loading in tipper for carrying of cut earth to embankment site and unloading with all lifts and lead upto 1000 meters as per relevant clauses of section 300.	Cum	47000.00	90.00	4230000.00
5	Item No.5 :- Compaction of earth work at optimum moisture content to 98% of standred proctor maximum dry density (excluding watering) vibrators /High speed rollo watering earth work for compaction on at optimum moisture content with lead of water up to 100m.	Cum	47000.00	20.00	940000.00
6	Item No.6 :- Supplying and forming graded sand blanket / filter / chimney / below rock toe be using fine / course sand in the Bund as per drawing including cost of transportation of materials from the approved source, placing it in position consolidation and compaction at least upto 70% of relative dry density complete including cost of labours, excavation in Ash / Earth wherever required for placement, disposal of the excavated materials with all leads and lifts etc. as per specification drawing, and direction of Engineer-in-charge.				
	(i) If sand is used	Cum	9000.00	255.00	2295000.00
	(ii) If bottom is used	Cum	6000.00	100.00	600000.00
7	Item No.7 :- Supply of mineral aggregate like broken stone/crushed stone (crushed in mechanical crusher) as per clause 520 at road site including all lead and stacking etc. complete.				
(i)	45 mm standard size broken stone	Cum	2600.00	1000.00	2600000.00
(ii)	13.2 mm standard size broken stone	Cum	2600.00	1000.00	2600000.00

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- 2 - (T.S No. CEC/AV&PC/HTPS-KU/W/2022/61)

8	Item No.8 :- Supplying and forming rock toe using rock material of sound, durable and well graded broken rock ranging in size from 100 mm. to 450 mm and hand placing, filling intersties including cost of all materials, royalties, all taxes, transportation / labourers, equipments and T&P etc. with all leads and lifts as per drawing, specification and direction of Engineer-in-Charge.	Cum	4500.00	1300.00	5850000.00
9	Item No.9 :- Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete: Cold twisted bar / Hot rolled deformed steel				
10	Item No.10 :- Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. In all types of soils.	Kg	14000.00	52.00	728000.00
11	Item No.11 :- Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	Cum	1100.00	80.00	88000.00
12	Item No.12 :- Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size).	Cum	600.00	2800.00	1680000.00
13	Item No.13 :- Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.	Cum	350.00	61.00	21350.00
14	Item No.14 :- Rendering protective treatment to embankment side slope by TURFING including scarifying the slopes of bund surface dressing with 150 mm thickness of good approved soil including all lead and lifts rolling the soil with hand roller along slope turfing the slopes of embankment with 50 mm. thick grass turf sods ramming and watering for 3 months or till the grass establishes itself uniformly whichever is later with all leads & lifts watering complete as per specification and as directed by Engineer-in-Charge.	Sqm	12000.00	7.00	84000.00
15	Item No.15 :- Construction of earthen dowela on top of the embankment with earth arranged by the contractor from his own source, i/c. all excavation, transportation all leads & lifts, labours, materials, tools and plants, safeguards compaction & all necessary works to complete the earthen dowela in desired shape as per specification and as directed by Engineer-in-Charge.	RM	1500.00	30.00	45000.00
16	Item No.16 :- Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: Cement Mortar 1:6 (1 cement : 6 coarse sand)	Cum	600.00	2500.00	1500000.00
17	Item No.17 : Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix: In Cement Mortar 1:6 (1 cement : 6 fine sand)	Sqm	6000.00	100.00	600000.00

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(Cont-3)

- 3- CT. S No. CEC/HTPS-KU/M 2022/61

18	Item No.18:- Providing and placing in up stream fly ash brick pitching using fly ash brick of metric size with minimum compressive strength of 50 kg. per cm ² by mechanical mixing by means to be laid in panels over slope of embankment as indicated in drawing and 0.5 m. at top bund level on U/S side excluding construction of panel walls as per drawing using fly ash bricks of metric size in CM 1:6 including excavating fixing fly ash bricks of metric size i/c. excavating earth & fixing brick inside it in both directions i/c. excavating earth & fixing brick inside it in booth directions i/c, placing, ramming for preparation of bed, curing, finishing providing and mixing, its removal, all labours, material, except cost of cement and ash which will be supplied by Deptt. Free of Cost but transportation, loading, unloading and other charges applicable of same shall be borne by contractor at his own costs, equipments, tools, plants machinery all	Sqm	21000.00	170.00	3570000.00
19	Item No. 19:- Random Rubble Masonry in CM 1:6 with all lead and lift including cost of all materials but excluding cost of Cement as per direction of Engineer-in-Charge.	Cum	210.00	2200.00	462000.00
20	Item No.20:- Providing and placing in position plain cement concrete including scaffolding and formwork (if mentioned against the item). Dewatering, vibration, curing, cost of all material (except cement) labour, transportation etc. complete including all lead lift as per specification as directed by Engineer-in-Charge (Cement shall be supplied free of Cost by Deptt.).	Cum	70.00	2700.00	189000.00
22	Item No.21:- Supplying & laying RCC hume pipe grade I for cross drain of starter dyke i/c loading, unloading transportation, T&P labours etc. complete as per direction of ENC.	RM	450.00	840.00	378000.00
Total (Part-A) Rs.					32503950.00

Note :- (1) Bottom Ash will be provided at Power House free of cost as per ash availability.

(2) Quantity of sand or bottom ash may be increased / decreased as per the availability of bottom ash.

" PART - B" Raising of Decantation well

S.N.	Particulars	Unit	Qty	Rate	Amount
1	Item No. 1 :- Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete: Cold twisted bar / Hot rolled deformed steel	Kg	7100.00	52.00	369200.00
	Item No.2 :- Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work. M-25 Grade	Cum	55.00	3090.00	169950.00
3	Item No.3 :- Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.	Sqm	300.00	200.00	60000.00
4	Item No.4 :- Structural steel work in single section including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.	Kg	7500.00	60.00	450000.00
5	Item No. 5 :- Providing and fixing approved pipe hand rail to walls (ramps, stair cases) including cutting chases and repairing the same to original condition, applying a priming coat of red oxide zinc chromate primer.	Kg	150.00	50.00	7500.00

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- 4 - (T.S.No. C.E.C/AU&PC/HPS-KM/2024/61)

6	Item No.6 :- Dismantling of existing steel structure provided over beam structure of decantation well and approach to decantation well including cutting by gas cutter/welding, lifting of pieces of steel structure from well and stacking the same at site office including all loading, unloading, transportation etc. complete as per direction of Engineer-in-charge and refixing the same as directed by ENC.	Job	1.00	80000.00	80000.00
Total (Part-B) Rs.					1136650.00
" PART - C" Construction of WBM Road Over Bund Top					
S.N.	Particulars	Unit	Qty	Rate	Amount
1	Item No.1 :- Construction of granular sub-base by providing graded Material, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401	Cum	900.00	940.00	846000.00
2	Item No. 2 :- Water Bound Macadam (Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density as per clause-404.)				
	(A) Grading- I (63 to 45 mm size aggregate)	Cum	330.00	980.00	323400.00
	(B) Grading- II (53 to 22.4 mm size aggregate)	Cum	330.00	980.00	323400.00
Total (Part -C) Rs.					1492800.00
Total contract value (Part A + B + C) Rs.					35133400.00

(Rs. Three crores fifty one lacs thirty three thousand four hundred only)

Add @ 18% GST Rs.

6324012.00

Total contract value i/c GST Rs.

4,14,57,412/-

TERMS AND CONDITIONS :-

- In the contract work, it shall be mandatory to deploy 10% labour according to their skills, from the list of land oustees provided by the Addl. C.E.(T&SS) of the Power Plant. If 10% labours works out to less than 1, then at least 1 labour will have to be considered for deployment
- No material will be supplied by the department.
- During execution of work the contractor have to keep close watch over the working Activities of their labour & ensure that labour not to do any work except the work under subject.
- If any labour contractor found doing the work other than work under subject and committed Accident or injury what so ever the Department will not be responsible at all.
All consumable required to complete for work in contractor scope.
- GST : Value of GST @18% of contract value shall be extra paid to the contractor or to be paid by CSPGCL to the authority directly depending on status of ergistration of GST.
- As per factory Act all rules regarding health & safety is to be complied including submission of Form 21 for every labour engaged etc.
- ठेकेदार को ठेका श्रमिकों को नियोजन हेतु निम्न प्रावधानों/अधिनियमों का पालन करना आवश्यक होगा :-
 - संविदा श्रमिक अधिनियम 1970 ।
 - न्यूनतम वेतन अधिनियम 1948 ।
 - कारखाना अधिनियम 1948 एवं छ.ग. कारखाना नियमावली 1962 के अंतर्गत प्रपत्र 21 में स्वास्थ्य परीक्षण कराया जाना ।
 - कर्मचारी भविष्य निधि प्रकीर्ण उपबन्ध अधिनियम 1952 ।
 - राज्य कर्मचारी बीमा योजना ।
 - क्षतिपूर्ति अधिनियम ।
 - बोनस अधिनियम ।
 - बैंक के द्वारा वेतन भुगतान ।

Signature

Executive Engineer (Civil)

O/o C.E.(Civil), AU&PC CSPGCL, Raipur

Annexure-VII

छत्तीसगढ़ राज्य विद्युत उत्पादन कम्पनी मर्यादित : रायपुर

क्रमांक : 03-15/निविदा/33/82
प्रति,

रायपुर, दि. 20/04/2022

महाप्रबंधक,
छत्तीसगढ़ संवाद
सेक्टर-19, नार्थ ब्लॉक,
कायाबांधा, नया रायपुर (छ.ग.) 492015

विषय : निविदा सूचना प्रकाशित करने बाबत ।

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महोदय,

इस पत्र के साथ निविदा प्रकाशन की सूचना संलग्न है। कृपया आप निम्नलिखित समाचार-पत्रों में इस पत्र की तारीख से तीन दिनों के भीतर राज्य स्तरीय समाचार पत्रों में तथा पांच दिनों के भीतर राष्ट्रीय स्तर के समाचार पत्रों में 10x3 सेंटीमीटर साईज एवं फोन्ट साईज 8 (आठ) में प्रकाशित करने का कष्ट करें, तथा प्रकाशन तिथि से तीन दिनों के भीतर समाचार-पत्र एवं देयक (तीन प्रतियों में) इस कार्यालय को प्रेषित करें ।

समाचार-पत्रों के नाम :-

01. मॉनिंग इंडिया, कोलकाता
02. द साउथ इंडिया टाइम्स, चेन्नई
03. पत्रिका, रायपुर
04. छत्तीसगढ़ वैभव, कोरबा

संलग्न: निविदा विशेषीकरण क्रमांक मुअसि/ए.यू. एण्ड पी.सी/एच.टी.पी.एस-को.प. /कार्य/2022/01, मुअसि/ए.यू. एण्ड पी.सी/डी.एस.पी.एम. को.पू. /कार्य/2022/02 एवं मुअसि/ए.यू. एण्ड पी.सी/एच.टी.पी.एस-को.प. /कार्य/2022/03 तथा जावक क्रमांक 03-15/W/ 66 रायपुर, दि. 19.04.2022

मुख्य अभियंता (सिविल) ए.यू. एण्ड पी.सी.

छ.रा.विद्युत उत्पा.कं.मर्या. : रायपुर

प्रतिलिपि :-

01. प्रबंधक (जन संपर्क) छ.रा.विद्युत होल्डिंग कम्पनी मर्यादित, रायपुर को उनके स्वीकृति क्रमांक 178 दिनांक 12.04.2022 एवं प्रबंध निदेशक (उत्पा.), रायपुर का स्वीकृति क्र. 763 दिनांक 18.04.2022 के संदर्भ में सूचनार्थ ।
02. कार्यपालक निदेशक, ऊर्जा प्रौद्योगिकी केन्द्र छ.रा.विद्युत वितरण कम्पनी मर्यादित, रायपुर को निविदा की प्रति एवं फ्लॉपी सहित आवश्यक कार्यवाही हेतु प्रेषित ।
03. सहायक प्रबंधक (केन्द्रीय लेखा ईकाई), छ.रा.विद्युत उत्पादन कम्पनी मर्यादित, रायपुर ।
04. बिल प्रभाग मुख्य अभियंता (सिविल) छ.रा.विद्युत उत्पादन कम्पनी मर्यादित, रायपुर ।

**OFFICE OF THE CHIEF ENGINEER (CIVIL) AU & PC, CSPGCL,
Shed No. 2, Dangania, Raipur-492013**

Phone No. 0771-2576380, Fax :- 0771-2574579, website www.cspcl.co.in E-mail:- cecivil.aupc@gmail.com

No.03-15/W/66

Raipur, date 19.04.2022

E-TENDER NOTICE

Online bids are invited through CSPCL e-bidding system (SAP SRM) from contractors registered in appropriate class in CSPGCL in three part tendering system. The unregistered contractor having experience in Govt./Public Sector Undertaking/Local bodies/Power Generating Companies in India only may also be considered on submission of experience certificate for following works as mentioned below :-

Sl. No.	Tender Specification No.	Name of Work	NIT value i/c 18% GST (Rs.)	EMD (Rs.)	Completion period (incl. Rainy season)	Rfx No.
1	CEC/AU&PC/HTPS-KW/W/2022/01	Utilization of Pond ash by filling in low laying area near pond 1B towards village side and site office at ash dyke Dindolbhata at HTPS, CSPGCL, Korba West.	84.90 Lacs	84,900/-	01 Months	81000 25104
2	CEC/AU&PC/DSPM-KE/W/2022/02	Utilization of fly ash by filling low laying area within a distance of 50 Km. by evacuation of fly ash from Ash Dyke situated of Village Gorhi/ Pandripani of DSPM-TPS, CSPGCL, Korba East.	108.65 Lacs	1,08,700/-	06 Months	81000 25134
3	CEC/AU&PC/HTPS-KW/W/2022/03	2nd stage raising the height of Pond I-A from RL 313.00M to 316.00M of Ash Dyke Dindolbhata of 1x300 MW Extension unit at HTPS, CSPGCL, Korba West.	354.00 Lacs	3,54,000/-	08 Months	81000 25146

Cost of tender form S.No.1 is Rs.885/-(Rs.750/-+18%GST) and for S.No. 2&3 is Rs. 1180/-(Rs.1000/- + 18%GST). The due date & time for submission of bids Tender Cost & EMD is 10.05.2022 (up to 15:00 Hrs) and bid opening date (Techno commercial bids) is 12.05.2022 (up to 16:00) Hrs respectively. The tender document can be viewed and downloaded online from our e-bidding portal <https://ebidding.cspcl.co.in:50724/irj/portal>. Note:- (i) In case, the rate quoted by the contractor is on extremely lower side than estimated contract value, a performance guarantee @ 5% of contract value i/c GST in addition to Security Deposit shall have to be deposited by the contractor. (ii) Maintenance period shall be 12 Months for Sl.No. 1,2&3.

//Save Electricity//

Chief Engineer (Civil) AU & PC,
CSPGCL, Raipur

SIZE 10X3

Rc
**C.E (CIVIL) AU & PC
CSPGCL, RAIPUR)**

de
19/04/2022 *12*

Active Queries

- RFXs All (0) Ready to Compare (0) Missing Quotations (0)
RFXs All (30) Saved (0) Awaiting Approval (0) Published (0) Completed (0) Deleted (0) Release Selected (0)
RFX Templates All (0) RFP (0) RFO (0)
Auctions All (0) Saved (0) Published (0) Active (0) Paused (0) Ended (0) Completed (0)
Auction Templates All (0) English Auction (0) Company Best Bid (0)
- RFXs - All

Show Quick Criteria Maintenance

View: [Standard View]

Change Query														Define New Query	Personalize													
View: [Standard View]														Create RFX	Copy	Display	Edit	Delete	Publish	Responses and Awards		Print Preview	Refresh	Export	Current Status	Purchasing Organization	Submission Deadline	Responses
RFX Number	RFX Name	Type	Status	RFX Category	Published	BID	Published	Current Status	Purchasing Organization	Submission Deadline	Responses	Change Query	Define New Query	Personalize														
*25146	2nd stage raising 313-316 Pond-1A Dindol	BID	Published					Published	CE(CIVIL)-AU&PC,CSPGCL, RAIPUR	10.05.2022	5																	

Last Refresh 10.05.2022 15:25:29 INDIA



Options

EMD Payment Details

RFx Name 2nd stage raising 313-316 Pond-1A Dindol RFx No. 8100025146 Submission Deadline 10.05.2022 15:00:00 Time Zone INDIA

EMD Payment Details

Edit Details

Company Name	Contact	Payment Method	Amount	Currency	Instrument Number	Payment / Waived Date	EMD Reversal	Reversal Date	Status
BUNDEL KHAND ENGINEERS	BUNDEL KHAND ENGINEERS	Bank Guarantee	354,000.00	INR					Awaiting
J.P. Associates	Jai Prakash Singh	Online Payment	354,000.00	INR	170000056354	09.05.2022			Paid
N CHAURASIA ASSOCIATES	N CHAURASIA ASSOCIATES	Online Payment	354,000.00	INR	170000056379	09.05.2022			Paid
SAJAN KUMAR AGRAWAL	SAJAN KUMAR AGRAWAL	Online Payment	354,000.00	INR	170000056404	10.05.2022			Paid
SHANKER ENGINEERING WORKS	M SHANKAR SAMY	Online Payment	354,000.00	INR	170000056198	05.05.2022			Paid



Options

Tender Fee Payment Details

RFX Name 2nd stage raising 313-316 Pond-1A Dindol
RFX No. 8100025146
Submission Deadline 10.05.2022 15:00:00 Time Zone INDIA

Save Close Window

Tender Fee Payment Details

Edit Details

Company Name	Contact	Payment Method	Amount	Currency	Instrument Number	Payment / Waived Date	Payment / Waived Date	Payment Status
BUNDEL KHAND ENGINEERS	BUNDEL KHAND ENGINEERS	Online Payment	1,180.00	INR	170000056349	09.05.2022	13:32:43	Paid
J.P. Associates	Jai Prakash Singh	Online Payment	1,180.00	INR	170000056347	09.05.2022	13:15:37	Paid
N CHAURASIA ASSOCIATES	N CHAURASIA ASSOCIATES	Online Payment	1,180.00	INR	170000056302	08.05.2022	16:44:33	Paid
SAJAN KUMAR AGRAWAL	SAJAN KUMAR AGRAWAL	Online Payment	1,180.00	INR	170000056399	10.05.2022	12:56:23	Paid
SHANKER ENGINEERING WORKS	M SHANKAR SAMY	Online Payment	1,180.00	INR	170000056197	06.05.2022	09:16:39	Paid



- Mail has been sent to -sejanjanigir@gmail.com
- Mail has been sent to -shankarengg.work@gmail.com
- Mail has been sent to -bundeikhandengineers@yahoo.com
- Mail has been sent to -jpassociateskorba@gmail.com

Price Opening Date Intimation

Input field

Tender Number: 8100025146

Price Opening Date & Time: 26.05.2022 15:11:00

Submit

Tender Number -8100025146
Tender Name -2nd stage raising 313-316 P

Annexure -VIII

Vendor Name	J.P. Associa	BUNDEL KHAND	SHANKER ENGI	SAJAN KUMAR
Response Number	8400170362	8400170363	8400170266	8400170410
NET VALUE	47949725	40990583.5	42276310	39339835
OVERALL RANK	L4	L2	L3	L1

1

Excavation for Benching the seat
350

NET PRICE	40	15.65	8	7
BIDDER QUANTITY	350	350	350	350
NET VALUE	14000	5477.5	2800	2450
ITEM RANK	L4	L3	L2	L1

ITEM NO -2

Furrowing and plugging the seat of emba
48000

NET PRICE	5	4	2	1
BIDDER QUANTITY	48000	48000	48000	48000
NET VALUE	240000	192000	96000	48000
ITEM RANK	L4	L3	L2	L1

ITEM NO -3

Embankment from the suitable ash spoil o
71500

NET PRICE	35	15	27	26
BIDDER QUANTITY	71500	71500	71500	71500
NET VALUE	2502500	1072500	1930500	1859000
ITEM RANK	L4	L1	L3	L2

ITEM NO -4

Ash work in excavation from the specifie
160400

NET PRICE	35	29	44	42
BIDDER QUANTITY	160400	160400	160400	160400
NET VALUE	5614000	4651600	7057600	6736800
ITEM RANK	L2	L1	L4	L3

ITEM NO -5

Excavation in Soil (by Mechanical Means)
44600

Quahan
26/05/22

MP
26/05/22

NET PRICE	120	120	95	93
BIDDER QUANTITY	44600	44600	44600	44600
NET VALUE	5352000	5352000	4237000	4147800
ITEM RANK	L3	L3	L2	L1

ITEM NO -6
Compaction of earth work at optimum mois
44600

NET PRICE	30	20.86	15	23
BIDDER QUANTITY	44600	44600	44600	44600
NET VALUE	1338000	930356	669000	1025800
ITEM RANK	L4	L2	L1	L3

ITEM NO -7
Supplying and forming graded if send use
7890

NET PRICE	750	575	400	283
BIDDER QUANTITY	7890	7890	7890	7890
NET VALUE	5917500	4536750	3156000	2232870
ITEM RANK	L4	L3	L2	L1

ITEM NO -8
Supplying and forming graded if bottom a
5260

NET PRICE	180	300	120	142
BIDDER QUANTITY	5260	5260	5260	5260
NET VALUE	946800	1578000	631200	746920
ITEM RANK	L3	L4	L1	L2

ITEM NO -9
Supply of mineral aggregate 45 mm std si
1550

NET PRICE	1350	1290	1250	1235
BIDDER QUANTITY	1550	1550	1550	1550
NET VALUE	2092500	1999500	1937500	1914250
ITEM RANK	L4	L3	L2	L1

ITEM NO -10
Supply of mineral aggregate 13.2 mm std
1550

NET PRICE	1350	1290	1250	1235
BIDDER QUANTITY	1550	1550	1550	1550
NET VALUE	2092500	1999500	1937500	1914250
ITEM RANK	L4	L3	L2	L1

Quenay
26/05/22

26/5/2022

60

ITEM NO -11

Supplying and forming rock toe using roc
4500

NET PRICE	1650	1350	1600	1425
BIDDER QUANTITY	4500	4500	4500	4500
NET VALUE	7425000	6075000	7200000	6412500
ITEM RANK	L4	L1	L3	L2

ITEM NO -12

Providing and placing in position reinfo
13900

NET PRICE	105	75	90	58
BIDDER QUANTITY	13900	13900	13900	13900
NET VALUE	1459500	1042500	1251000	806200
ITEM RANK	L4	L2	L3	L1

ITEM NO -13

*Excavation for all types and sizes of f
875

NET PRICE	50	50	80	90
BIDDER QUANTITY	875	875	875	875
NET VALUE	43750	43750	70000	78750
ITEM RANK	L1	L1	L2	L3

ITEM NO -14

Providing and laying nominal mix 1:4:8
475

NET PRICE	3250	2900	3500	3080
BIDDER QUANTITY	475	475	475	475
NET VALUE	1543750	1377500	1662500	1463000
ITEM RANK	L3	L1	L4	L2

ITEM NO -15

Providing and laying nominal mix 1:2:4
7

NET PRICE	3500	3600	4000	3325
BIDDER QUANTITY	7	7	7	7
NET VALUE	24500	25200	28000	23275
ITEM RANK	L2	L3	L4	L1

ITEM NO -16

Filling from available excavated stuff
875

26/05/22

26/05/22

NET PRICE	65	50	90	67
BIDDER QUANTITY	875	875	875	875
NET VALUE	56875	43750	78750	58625
ITEM RANK	L2	L1	L4	L3

ITEM NO -17

#NAME?
11000

NET PRICE	8	5	15	7
BIDDER QUANTITY	11000	11000	11000	11000
NET VALUE	88000	55000	165000	77000
ITEM RANK	L3	L1	L4	L2

ITEM NO -18

Construction of earthen dowela on too of
1500

NET PRICE	150	100	44	33
BIDDER QUANTITY	1500	1500	1500	1500
NET VALUE	225000	150000	66000	49500
ITEM RANK	L4	L3	L2	L1

ITEM NO -19

Brick work with modularflyash 1:6
490

NET PRICE	2800	3000	2600	2750
BIDDER QUANTITY	490	490	490	490
NET VALUE	1372000	1470000	1274000	1347500
ITEM RANK	L3	L4	L1	L2

ITEM NO -20

Providing and making 15mm thick cemen
5020

NET PRICE	110	70	90	108
BIDDER QUANTITY	5020	5020	5020	5020
NET VALUE	552200	351400	451800	542160
ITEM RANK	L4	L1	L2	L3

ITEM NO -21

Providing and placing in up stream fly a
18300

NET PRICE	190	170	143	185
BIDDER QUANTITY	18300	18300	18300	18300
NET VALUE	3477000	3111000	2616900	3385500
ITEM RANK	L4	L2	L1	L3

ITEM NO -22

Q. Shah
26/05/22

26/05/2022

Random Rubble Masonry in CM 1:6 with
175

NET PRICE	1750	750	2330	2430
BIDDER QUANTITY	175	175	175	175
NET VALUE	306250	131250	407750	425250
ITEM RANK	L2	L1	L3	L4
ITEM NO -23				

Providing and placing in position plain
51

NET PRICE	3250	2900	3500	2990
BIDDER QUANTITY	51	51	51	51
NET VALUE	165750	147900	178500	152490
ITEM RANK	L3	L1	L4	L2
ITEM NO -24				

Supply of empty cement bag (HDPE Bags)
14000

NET PRICE	5	2.5	8	2
BIDDER QUANTITY	14000	14000	14000	14000
NET VALUE	70000	35000	112000	28000
ITEM RANK	L3	L2	L4	L1
ITEM NO -25				

Supply and laying RCC Hume 250mm dia
585

NET PRICE	750	450	1160	940
BIDDER QUANTITY	585	585	585	585
NET VALUE	438750	263250	678600	549900
ITEM RANK	L2	L1	L4	L3
ITEM NO -26				

Providing and placing in position reinf
7100

NET PRICE	105	75	85	58
BIDDER QUANTITY	7100	7100	7100	7100
NET VALUE	745500	532500	603500	411800
ITEM RANK	L4	L2	L3	L1
ITEM NO -27				

Providing and laying design mix reinf
55

NET PRICE	4250	3200	4000	3430
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Q. Shari
26/05/22

Q. Shari
26/05/2022

BIDDER QUANTITY	55			
NET VALUE	233750	55	55	55
ITEM RANK	L4	L1	L3	L2
ITEM NO -28				

Providing and fixing form work includin
300

NET PRICE	240			
BIDDER QUANTITY	300	120	100	230
NET VALUE	72000	300	300	300
ITEM RANK	L4	L2	L1	L3
ITEM NO -29				

Structural steel work in single section
7500

NET PRICE	110			
BIDDER QUANTITY	7500	120	90	67
NET VALUE	825000	7500	7500	7500
ITEM RANK	L3	L4	L2	L1
ITEM NO -30				

Providing and fixing approved pipe hand
150

NET PRICE	120			
BIDDER QUANTITY	150	100	90	59
NET VALUE	18000	150	150	150
ITEM RANK	L4	L3	L2	L1
ITEM NO -31				

Dismantling of existing steel structure
1

NET PRICE	25000			
BIDDER QUANTITY	1	30000	25000	90000
NET VALUE	25000	1	1	1
ITEM RANK	L1	L2	L1	L3
ITEM NO -32				

Construction of granular sub-base by pr
1073

NET PRICE	1350			
BIDDER QUANTITY	1073	1300	1450	1045
NET VALUE	1448550	1073	1073	1073
ITEM RANK	L3	L2	L4	L1
ITEM NO -33				

Quhan
26/05/22

26/5/2022

Water Bound Macadam Grd-1 63-45 mm size

422

NET PRICE	1450	1500	1490	1090
BIDDER QUANTITY	422	422	422	422
NET VALUE	611900	633000	628780	459980
ITEM RANK	L2	L4	L3	L1

ITEM NO -34

-Water Bound Macadam Grd-2 53-22.4 mm si
422

NET PRICE	1450	1500	1490	1090
BIDDER QUANTITY	422	422	422	422
NET VALUE	611900	633000	628780	459980
ITEM RANK	L2	L4	L3	L1

Quay
26/05/22

26/5/2022

Before TCD

$$= 39339835 - 29933889$$

29933889

x 100 = 31.42%
(above)

After TCD

$$\text{rebate @ 2.0\% on quoted rate} = \frac{38553038 - 29933889}{29933889} \times 100 = 28.79\% \text{ (above)}$$

* Estimated value considering inflation @ 7.1% per year

$$= 26029469 \times 1.07 \times 1.07 \times 1.07 = 31887219$$

$$= \frac{38553038 - 31887219}{31887219} \times 100 = 20.90\% \text{ (above)}$$

Registered AD/-

CHHATTISGARH STATE POWER GENERATION CO. LTD.

No.03-15/KWB/W/161/ 757.

Raipur, dt. 12/08/2022

To,

**M/s Sajan Kumar Agrawal,
Main Road Netaji Chowk, Janjgir-Champa (CG)**

Sub:- Tender for the work of 2nd stage Raising the height of Pond 1-A from RL 313.00 M to 316.00 M of Ash Dyke Dindolbhata of 1x500 MW Extension Unit at HTPS, CSPGCL, Korba West (Ten. Spc.No. - CEC/AU&PC/ HTPS-KW/W/2022/03), Rfx No. 81000-25146.

**Ref:- 1. Your response No. 8400170410
2. Your price bid opened on 26.05.2022 and 2nd round techno commercial discussion held on 08.08.2022.**

Dear Sir,

1. Your tender for the work of **2nd stage Raising the height of Pond 1-A from RL 313.00 M to 316.00 M of Ash Dyke Dindolbhata of 1x500 MW Extension Unit at HTPS, CSPGCL, Korba West (Ten. Spc.No. CEC/AU&PC/HTPS-KW/W/2022/03), Rfx No. 8100025146** participated in E-Tendering of C. E. (Civil)AU&PC, CSPGCL, Raipur and opened on 26.05.2022 has been accepted at your quoted item rate and rebate **@6.00% after techno commercial discussion**, as per schedule enclosed. This acceptance is subject to the terms and conditions as stipulated in detail in the tender specifications which shall be binding on you in respect of this contract and no conditions or stipulations to the contrary or which are inconsistent will be applicable. No separate payment for lead and lift of materials shall be made unless otherwise specified.
2. You are requested to submit the GST registration before commencement of work to ensure whether you fall under (a) Registered dealer (b) Unregistered dealer (c) Composite dealer category.
3. The value of the contract is estimated to be **Rs. 3,69,79,445/- (Rs. Three crore sixty nine lacs seventy nine thousand four hundred forty five) only + GST (at present @ 18%) Rs. 66,56,300/-**. GST shall be extra as applicable either to be paid to you or to be paid by CSPGCL to the authority directly depending on your status of registration for GST. **Thus total contract value of work including GST is Rs. 4,36,35,745/-**.
4. Please arrange within 10 (TEN) days of receipt of this letter to deposit with the Senior Accounts Officer, 1X500MW, HTPS, CSPGCL, Korba West / Assistant Manager, (CAU), CSPGCL, Raipur a sum of **Rs. 5,18,800/- (Rs. Five lacs eighteen thousand eight hundred) only** which together with the sum of **Rs. 3,54,000/- (Rs. Three lacs fifty four thousand) only** already deposited by you as earnest money with tender shall form initial security deposit of the contract @2% of contract value since you are registered with the Co. Further deductions @3% will be made from each of the running account bills of the contract for the work done till the total amount of security deposit equivalent to 5% of the contract value is realized in full.

The above deposit shall be retained as security for the due and proper fulfillment of the contract. The initial Security deposit can also be furnished in any one or the other approved forms such as Demand Draft, Fixed Deposit Receipt, Bank Guarantee in Company's prescribed proforma issued by Nationalized Banks only shall be acceptable. The money receipt obtained from Senior Accounts Officer, 1X500MW, HTPS, CSPGCL, Korba West / Assistant Manager, (CAU), CSPGCL, Raipur in the case of cash remittance or deposit receipts etc. towards the above security deposit may please be produced in this office at the time of execution of contract agreement.

66

5. "Please attend this office or direct your authorized representative alongwith proper and valid "Power of Attorney" to attend this office within 10 (Ten) days of receipt of this letter to execute the contract agreement on non judicial stamp paper as per the proforma prescribed by the Co. for the due and proper fulfillment of the contract.

6. The cost of stamp paper worth Rs.300/- along with revenue stamp of value Re. 1/- (One rupee) only on which agreement is to be executed will be borne by you. Non judicial stamp paper in three sheets will be required for the purpose.

7. Time is essence of contract and work shall be completed in all respects within the time specified i.e. **08 (Eight)** months including rainy season. Time allowed for carrying out the work shall be reckoned from the date on which order to commence the work is given to the contractor or from the date of handing over of site or issue of first set of drawing (if any), whichever is later.

8. **The Executive Engineer (Civil) Const. Dn. -I, 1X500MW, HTPS, CSPGCL, Korba West** will be the Engineer-in-Charge of this work. The Engineer-in-Charge should ensure delivery of LOI and pursue the contractor for timely execution of agreement and commencement of work.

9. The expenditure shall be met out from the Capital grant of Civil work of Ash Dyke Dindolbhata of 1X500MW HTPS, Korba West for the year 2022-23.

10. Necessary work order along with construction drawing shall be issued by the Engineer-in-Charge.

Note:- The maintenance period for the work shall be 12 (Twelve) months after the satisfactory completion of work after which a certificate of completion shall be given by Engineer-in-Charge.

Please acknowledge the receipt of this order.

Thanking you

Encl:- Schedule

Yours faithfully,

[Signature]
12/9/2022
d/c Chief Engineer (Civil) AU&PC
CSPGCL : RAIPUR

No.03-15/KWB/W/161/

Raipur,dt.

Copy to :-

1. The Chief Engineer (Gen.) HTPS, CSPGCL, Korba West.
2. The Superintending Engineer (Civil) Circle, 1X500MW, HTPS, CSPGCL, Korba West.
3. The Executive Engineer (Civil) Const. Dn. -I, 1X500MW, HTPS, CSPGCL, Korba West.
4. The Senior Accounts Officer, 1X500MW, HTPS, CSPGCL, Korba West.
5. Agreement Copy.

Encl:- Schedule.

[Signature]
Superintending Engineer (Civil)
O/o C. E. (Civil) AU&PC, CSPGCL, Raipur
d/c 12/9/22

SCHEDULE

Name of work:- 2nd stage Raising the height of Pond 1-A from RL 313.00 M to 316.00 M of Ash Dyke Dindolbhata of 1x500 MW Extension Unit at HTPS, CSPGCL, Korba West (Ten. Spc.No. - CEC/AU&PC/ HTPS-KW/W/2022/03), Rfx No. 8100025146.

" PART -A" Raising of Dyke

S.N.	Particulars	Unit	Qty	Rate	Amount
1	Item No. 1 Excavation for Benching the seat of embankment to an average depth of 15cm and cross slope of 1 in 12 including removing the rubbish up to a distance of 50m including dressing.	Cum	350.00	7.00	2450.00
2	Item No. 2 Furrowing and plugging the seat of embankment.	Sqm	48000.00	1.00	48000.00
3	Item No. 3 Ash work in excavation from the specified borrow area / foundation area of proposed ash bund within the existing ash dyke including cleaning of borrow pit / foundation area by uprooting of all types of vegetation, grass bushes, water hyacinth, saplings etc. by any means and stripping of top layer of minimum 20 cms. or to such depth as decided by the ENC depending upon the suitability of ash to be used in forming ash embankment i/c disposal of all unsuitable materials outside the working area with all lead and lifts complete as per direction of Engineer-in-charge including loading, transportations, unloading suitable / selected excavated materials on the bank, in layers not exceeding 250 mm thick for forming the embankment with all leads, lifts, breaking clods / lumps watering compaction (i/c. additional ash work beyond theoretical profile required for desired compaction) to achieve dry density (standard proctor) with approved mechanical means, including trimming of slope to the theoretical profile and all other incidental charges such as watering, cost of labourers equipments and materials etc. complete as per specifications, drawings and as directed by the ENC.				
	(i) Embankment from the suitable ash spoil obtained from foundation area.	Cum	71500.00	26.00	1859000.00
	(ii) Ash work in excavation from the specified borrow area from pond no. 2 (HCSO) of Ash dyke Dindolbhata including clearing of borrow area and removing of bushes, water hyacinth, sapling etc. complete upto such depth as decided by the ENC and filling for construction of embankment in layers not exceeding 250 mm layers including dewatering and cleaning of pit area. Removing all bushes and shrubs before filling and breaking clods, lumps, watering and compaction to achieve 98 percent of standard proctor dry density with approved mechanical means etc. complete including loading, transportation, unloading suitable / selected excavated materials in the pond, for forming the embankment with all leads, lifts, breaking clods / lumps watering compaction (including. additional ash work beyond theoretical profile required for desired compaction) to achieve dry density (standard proctor) with approved mechanical means, including trimming of slope to the theoretical profile and all other incidental charges such as watering, cost of labourers equipments and material and all other incidental charges such as watering, cost of labourers equipments and materials etc. complete as per specifications, drawings and as directed	Cum	160400.00	42.00	6736800.00
4	Item No.4 Excavation in Soil (by Mechanical Means.) Excavation for roadway in soil using mechanical means including loading in tipper for carrying of cut earth to embankment site and unloading with all lifts and lead upto 1000 meters as per relevant clauses of section 300.	Cum	44600.00	93.00	4147800.00
5	Item No.5 Compaction of earth work at optimum moisture content to 98 percent of standard proctor maximum dry density (including watering) vibrators /High speed roller watering earth work for compaction on at optimum moisture content with lead of water up to 100 m.	Cum	44600.00	23.00	1025800.00

Qw
etc

(Cont-2)

6	Item No.6 Supplying and forming graded sand blanket / filter / chimney / below rock toe be using fine / course sand in the Bund as per drawing including cost of transportation of materials from the approved source, placing it in position consolidation and compaction at least upto 70% of relative dry density complete including cost of labours, excavation in Ash / Earth wherever required for placement, disposal of the excavated materials with all eads and lifts etc. as per specification drawing, and direction of Engineer-in-charge.				
	(a) If sand is used	Cum	7890.00	283.00	2232870.00
	OR				
	(b) If Bottom ash is used in place of sand against Item no 6 (a)	Cum	5260.00	142.00	746920.00
7	Item No.7 Supply of mineral aggregate like broken stone/crushed stone (crushed in mechanical crusher) as per clause 520 at road site including all lead and stacking etc. complete.				
	(iii) 45 mm standard size broken stone	Cum	1550.00	1235.00	1914250.00
	(vi) 13.2 mm standard size broken stone	Cum	1550.00	1235.00	1914250.00
8	Item No.8 Supplying and forming rock toe using rock material of sound, durable and well graded broken rock ranging in size from 100 mm. to 450 mm and hand placing, filling intersties including cost of all materials, royalties, all taxes, transportation / labourers, equipments and T&P etc. with all leads and lifts as per drawing, specification and direction of Engineer-in-Charge.	Cum	4500.00	1425.00	6412500.00
9	Item No.9 Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:				
	Cold twisted bar / Hot rolled deformed steel	Kg	13900.00	58.00	806200.00
10	Item No. 10 Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling.				
	In all types of soils.	Cum	875.00	90.00	78750.00
11	Item No. 11:- Providing and laving nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.				
	1:4:8 (1 cement: 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	Cum	475.00	3080.00	1463000.00
12	Item No.12:- Providing and laving nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.				
	1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 40mm nominal size).	Cum	7.00	3325.00	23275.00
13	Item No.13 :- Filling from available excavated stuff (Excluding rock) in trenches, plinth,sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.	Cum	875.00	67.00	58625.00
14	Item No. 14 :- Rendering protective treatment to embankment side slope by TURFING including scarifying the slopes of bund surface dressing with 150 mm thickness of good approved soil including all lead and lifts rolling the soil with hand roller along slope turfing the slopes of embankment with 50 mm. thick grass turf sods ramming and watering for 3 months or till the grass establishes itself uniformly whichever is later with all leads & lifts watering complete as per specification and as directed by Engineer in-Charge.	Sqm	11000.00	7.00	77000.00
15	Item No. 15 :- Construction of earthen dowela on top of the embankment with earth arranged by the contractor from his own source. i/c. all excavation, transportation all leads & lifts, labours, materials, tools and plants, safeguards compaction & all necessary works to complete the earthen dowela in desired shape as per specification and as directed by Engineer-in-Charge.	RM	1500.00	33.00	49500.00

16	Item No. 16 :- Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS: 12894-2002 of class designation 4.0 in foundation and plinth in: Cement Mortar 1:6 (1 cement: 6 coarse sand)	Cum	490.00	2750.00	1347500.00
17	Item No. 17 : Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix: In Cement Mortar 1:6 (1 cement: 6 fine sand)	Sqm	5020.00	108.00	542160.00
18	Item No. 18:- Providing and placing in up stream fly ash brick pitching using fly ash brick of metric size with minimum compressive strength of 50 kg. per cm ² by mechanical mixing by means to be laid in panels over slope of embankment as indicated in drawing and 0.5 m. at top bund level on U/S side excluding construction of panel walls as per drawing using fly ash bricks of metric size in CM 1:6 including excavating fixing fly ash bricks of metric size i/c. excavating earth & fixing brick inside it in both directions i/c. excavating earth & fixing brick inside it in both directions i/c, placing, ramming for preparation of bed, curing, finishing providing and mixing, its removal, all labours, material, except cost of cement and ash which will be supplied by Deptt. free of cost but transportation, loading, unloading and other charges applicable of same shall be borne by contractor at his own costs, equipments, tools, plants machinery all.	Sqm	18300.00	185.00	3385500.00
19	Item No. 19:- Random Rubble Masonry in CM 1:6 with all lead and lift including cost of all materials but excluding cost of Cement as per direction of Engineer-in-Charge.	Cum	175.00	2430.00	425250.00
20	Item No. 20 Providing and placing in position plain cement concrete 1:4:8 including scaffolding and formwork (if mentioned against the item). Dewatering, vibration, curing, cost of all material except cement) labour, transportation etc. complete including all lead lift as per specification as directed by Engineer-in-Charge.	Cum	51.00	2990.00	152490.00
21	Item No. 21:- Supply of empty cement bag (HDPE Bags) and placing in position dully filled with Ash from Ash Dyke area including stitching with sutli all lead and lift complete as per direction of ENC.	Bags	14000.00	2.00	28000.00
22	Item No. 22:- Supply and laying RCC Hume pipe grade-I for cross drain of starter dyke i/c loading unloading transportation T&P labours etc complete as per direction of ENC. RCC hume pipe 250 MM dia.	RM	585.00	940.00	549900.00
Total (PART -A) Rs.					36027790.00

PART -B :- Raising of decantation well.

1	Item No. 1 Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete: Cold twisted bar / Hot rolled deformed steel	Kg	7100.00	58.00	411800.00
2	Item No.2 Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20 mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work. M-25 Grade	Cum	55.00	3430.00	188650.00
3	Item No.3 Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.	Sqm	300.00	230.00	69000.00
4	Item No.4 :- Structural steel work in single section including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.	Kg	7500.00	67.00	502500.00
5	Item No. 5 :- Providing and fixing approved pipe hand rail to walls (ramps, stair cases) including cutting chases and repairing the same to original condition, applying a priming coat of red oxide zinc chromate primer.	Kg	150.00	59.00	8850.00

6	Item No. 6 :- Dismantling of existing steel structure provided over beam structure of decantation well and approach to decantation well including cutting by gas cutter/welding, lifting of pieces of steel structure from well and stacking the same at site office including all loading, unloading, transportation etc. complete as per direction of Engineer-in-charge and refixing the same as.	Job	1.00	90000.00	90000.00
Total (PART-B) Rs.					1270800.00
PART - C :- Construction of WBM Road Over Bund Top					
S.N.	Particulars	Unit	Qty	Rate	Amount
1	Item No.1 Construction of granular sub-base by providing graded Material, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401	Cum	1073.00	1045.00	1121285.00
2	Item No. 2 :- Water Bound Macadam (Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density as per clause-404.)				
	(A) Grading-1 (63 to 45 mm size aggregate)	Cum	422.00	1090.00	459980.00
	(B) Grading- II (53 to 22.4 mm size aggregate)	Cum	422.00	1090.00	459980.00
Total (PART-C) Rs.					2041245.00
Total value (PART-A + B + C) Rs.					39339835.00
After 2nd round techno commercial discussion @ 6% rebate Rs. (-)					2360390.10
Total contract value Rs.					36979444.90
Say Rs.					3,69,79,445/-

(Rs. Three crore sixty nine lacs seventy nine thousand four hundred forty five only)

Add @18% GST Rs. 6656300.00

Total contract value i/c GST Rs. 4,36,35,745/-

TERMS AND CONDITIONS :-

- In the contract work, it shall be mandatory to deploy 10% labour according to their skills, from the list of land oustees provided by the Addl. C.E.(T&SS) of the Power Plant. If 10% labours works out to less than 1, then at least 1 labour will have to be considered for deployment
- No material will be supplied by the department.
- The payment of wages to the labour shall be made through Bank. The R.A. Bill/ Final bill will be released on production of certified documents in support of payment through Bank.
- During execution of work the contractor have to keep close watch over the working Activities of their labour & insure that labour not to do any work except the work under subject.
- If any labour contractor found doing the work other than work under subject and committed Accident or injury what so ever the Department will not be responsible at all.
- All consumable required to complete the work are in contractor scope.
- GST : Value of GST @18% of contract value shall be extra paid to the contractor or to be paid by CSPGCL to the authority directly depending on status of registration of GST.
- As per factory Act all rules regarding health & safety is to be complied including submission of Form 21 for every labour engaged etc.
- ठेकेदार को ठेका श्रमिकों को नियोजन हेतु निम्न प्रावधानों/अधिनियमों का पालन करना आवश्यक होगा :-
 - संविदा श्रमिक अधिनियम 1970 ।
 - न्यूनतम वेतन अधिनियम 1948 ।
 - कारखाना अधिनियम 1948 एवं छ.ग. कारखाना नियमावली 1962 के अंतर्गत प्रपत्र 21 में स्वास्थ्य परीक्षण कराया जाना ।
 - कर्मचारी भविष्य निधि प्रकीर्ण उपबन्ध अधिनियम 1952 ।
 - राज्य कर्मचारी बीमा योजना ।
 - क्षतिपूर्ति अधिनियम ।
 - बोनस अधिनियम ।
 - बैंक के द्वारा वेतन भुगतान ।


 Executive Engineer (Civil)
 O/o C. E. (Civil) AU&PC
 CSPGCL Raipur

Reconciliation of Capitalisation (In Cr.)

Sl No	Note No- 4 : Property Plant and Equipment (As per Accounts)	
1	Balance as at 1st Apr 2023	16901.96
2	Addition	149.32
3	Disposals/Retirement	-60.95
4	Balance as at 31st Mar 2024	16990.33

Plant-wise Capitalisation considered in the Petition									
Sl No	Description	HTPS	DSPM	KW TPP	ABVTSP	Hasdeo Bango	GP-III	CAU/HO/ KTPS	Total
5	Plant wise Capitalisation considered Qualified	49.91	0.00	41.94	13.42	10.95	0.02	0.00	116.24
6	Plant wise Capitalisation considered Non-Qualified	1.05	0.58	0.00	0.00	0.00		1.55	3.18
7	Allocation of Add. Cap. at HO considered as M&G Expense	0.46	0.27	0.27	0.55				
8	Plant wise Capitalisation considered Special Allowance	29.85							29.85
9	Total Capitalisation	81.28	0.85	42.22	13.97	10.95	0.02	1.55	149.28

Decapitalisation Considered at HTPS Accounts/Petition			
Sl No	Asset Deletion Considered at HTPS Quality	Accounts	Petition
10	Distributed Control System (DCS)	-23.41	-23.41
11	Augumentgtion of ESP *	-32.53	-16.27
12	Other Against old asset capitalised	-2.36	-2.36
13	Total	-58.30	-42.03
14	Asset Deletion Cosidered at HTPS Non Qualify	-2.65	-2.65
15	Total	-60.95	-44.69

Note : Leave is craved for filing of negligent adjstment in capitilisation (to the tune of about Rs four laksh only) alongwith the revision in model subsequent to finalisation of ESP de-capitalisation and updation of coal prices.

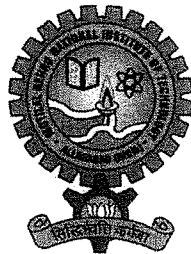
Annexure-X

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1x500 MW KWTPP: Project Cost details (Year-wise) in Rs Cr.											
Cut-off date approved		31-Mar-24		Approved at para 29 of order dtd. 15/03/2024 on CSPGCL Additional CIP petition no 84 of 2023							
Approved Project Cost		3,719.37		Order on P no 08/2015 dtd. 22/09/2015							
Less- Balance work of the original scope pleaded in CIP 25-26 under Risk & Cost		1.80									
Effective Approved project cost for Capitalisation		3,717.57									
Project Cost Capitalised as on 31st-Mar-2024		3,644.09									
Thus it may be seen that the project cost capitalised (including works considered under Risk & Cost) is lower by aproximately 73 Cr than the approved project cost.											
Year	Project Cost Capitalised (I)			Capitalisation against Approved CIP (II)			Total GFA (I + II)			Reference	
	Opening	Addition	Closing	Opening	Addition	Closing	Opening	Addition	Closing		
From COD (05.09.2013) to 31.03.2014	2,913.54	137.57	3,051.11				2,913.54	137.57	3,051.11	Order on P. No. 3/2016 dtd.30.04.2016	
FY 2014-15	3,051.11	340.27	3,391.39				3,051.11	340.27	3,391.39	Order on P. No. 3/2016 dtd.30.04.2016	
FY 2015-16	3,391.39	170.58	3,561.97				3,391.39	170.58	3,561.97	Order on P. No. 66/2016 dtd. 31/03/2017	
FY 2016-17	3,561.97	12.81	3,574.78				3,561.97	12.81	3,574.78	Order on P. No. 02/2019 dtd. 28/02/2019	
FY 2017-18	3,574.78	11.10	3,585.88				3,574.78	11.10	3,585.88	Order on P. No. 02/2020 dtd. 30/05/2020	
FY 2018-19	3,585.88	13.39	3,599.27				3,585.88	13.39	3,599.27		
FY 2019-20	3,599.27	-7.53	3,591.74		9.15	9.15	3,599.27	1.62	3,600.89	Order on P. No. 09/2021 dtd 02/03/2021	
FY 2020-21	3,591.74	9.32	3,601.06	9.15	1.59	10.74	3,600.89	10.91	3,611.80	Order on P. No. 01/22 dtd. 13/04/2022	
FY 2021-22	3,601.06	79.25	3,680.31	10.74	4.94	15.68	3,611.80	84.19	3,695.99	Order on P. No. 102/22 dtd 28/03/2023	
FY 2022-23	3,680.31	-71.81	3,608.50	15.68		15.68	3,695.99	-71.81	3,624.18	Order on P. No. 10/2024 dtd 01/06/2024	
FY 2023-24	3,608.50	35.58	3,644.09	15.68	5.67	21.36	3,624.18	41.26	3,665.44	P. No. 95/2024	

Report
on
Third Party Audit on Fly Ash Generation & Utilization from
Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East
(For 2023-24)

Submitted to:
Central Pollution Control Board



Submitted by:
Dr. Anupam Rawat
Department of Civil Engineering
Motilal Nehru National Institute of Technology, Allahabad
November 2024

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Third Party Audit on Fly Ash Generation & Utilization from Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East (In the year 2023-24)

1.0 Context of Fly Ash Third Party Audit

The Central Pollution Control Board (CPCB) is conducting third-party audits on Fly Ash generation and utilization, as mandated by Clause-E (5) of the Ministry of Environment, Forest and Climate Change (MoEF & CC) Gazette Notification dated 31st December 2021. Compliance audits for ash disposal by thermal power plants are to be performed by auditors authorized by the CPCB. The audit reports must be submitted annually to both the CPCB and the respective State Pollution Control Board (SPCB). These audits are conducted independently.

The Dr. Shyama Prasad Mukherjee Thermal Power Station is a 500-megawatt (MW) coal-fired power station at Korba East in Chhattisgarh, India. The power station is owned and operated by Chhattisgarh State Power Generation Company, publicly owned generation utility formed in 2009 following the restructuring of the Chhattisgarh State Electricity Board. The installed capacity of the power plant is 500 MW (2x250 MW).

Electricity generation is predominantly coal based. One of the important aspects of any coal based TPPs is necessity of combustion of coal. However, the coal combustion generates two categories of by-products i.e., bottom ash and fly ash. Indian coal is of low grade having very high ash content in the range from 30-55%. Bottom ash is collected at the bottom of the boiler. While, fly ash is collected in the electrostatic precipitators as well as in economizer hoppers. Generally, the combustion of coal produces approximately 20% of by-product in the form of bottom ash and remaining 80% in the form of fly ash. Thus, fly ash generation is significantly large in quantity than the bottom ash. Therefore, utilization of fly ash that has generated in huge quantity is a challenge. A large number of techniques and methods have been developed for gainful utilization and safe management of fly ash. The unutilized ash requires substantial precious land for its storage and its physical presence is a threat to environment and ecosystem, as it can become source of pollution of both air and water. To reduce the requirement of land for storage and disposal of fly ash into ash ponds and to address the problem caused by physical presence of fly ash, a holistic approach is needed. Notifications have been issued by MoEF & CC, Government of India, so as to achieve 100% utilization of fly ash. In order to assess the percentage utilization of fly at Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East, Central Pollution Control Board has been conducting an audit. This report is prepared based on the audit carried out by visiting Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East. Ministry of Environment & Forestry (MoEF), Govt. of India, has issued Notification's country mandating all TPPs for achieving 100% utilization of fly ash in diverse sectors. Adhering to the guidelines of Ministry, most of the TPPs are thriving to achieve 100% utilization of fly ash. This audit is intended to ascertain the correctness of the information supplied by TPPs and in compliance with MoEF guidelines.

2.0 Objective of the Work

The objective of the study is to audit & validation of data on Fly Ash generation and utilization by Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East during the year 2023-24.

3.0 Scope of the Work

The scope of the work involves the following activities:

Oneup

- a) To audit the data available on fly ash generation & utilization by Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East, in different sectors, for the year 2023-24.
- b) To scrutinize and verify the documents and data submitted by Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East for the year 2023-24.
- c) To make field visits to Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East and have interaction with the plant authorities on fly ash generation and utilization.
- d) To assess the present practices of ash management being adopted by Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East.

4.0 Brief of the Organization

The Dr. Shyama Prasad Mukherjee Thermal Power Station is a 500-megawatt (MW) coal-fired power station at Korba East in Chhattisgarh, India. The power station is owned and operated by Chhattisgarh State Power Generation Company, publicly owned generation utility formed in 2009 following the restructuring of the Chhattisgarh State Electricity Board. The installed capacity of the power plant is 500 MW (2x250 MW).

5.0 Methodology Adopted for Auditing

The methodology adopted for the completion of auditing is divided into three parts for convenience and easy of doing.

Part-A: Data Collection

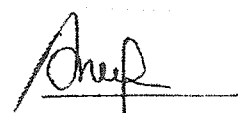
The information related to data on fly ash generation and utilization and other relevant supporting documents that have been submitted by Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East for the year 2023-24 was collected. The entire auditing has been progressed solely on the basis of these documents only.

Part-B: Auditing the Data and Information

Auditing has been carried out by physically visiting Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East on 16/11/2024. The schedule of the visit was intimated to Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East in advance so that the concerned officials can make the necessary documents ready for auditing purpose during the visit. Following the intimation, the visit was made on the said date and audit has been conducted. During the audit, the data provided by Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East month wise has been scrutinized and verified vis-à-vis the records that each plant has been maintaining. Auditing includes verification of data pertinent to the capacity of the power plant, coal consumption, fly ash generation & utilization, ash disposal system, etc. All records giving details on the above parameters have been critically scrutinized and verified against each individual parameter to ascertain that the data and information provided by the Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East. Any mismatch in the data and information between that communicated to CPCB and records were noted down and brought to the notice of CPCB in the form of this report.

Part-C: Field Visits

Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East have intimated to CPCB that they are utilizing the fly ash for a variety of applications. Some of the applications include brick or cement or tile or asbestos manufacturing, agriculture land reclamation, small land filling, land development, dyke raising, construction of roads, etc. In order to ascertain whether or not fly ash is being utilized in these applications and to assess the exact quantity of fly ash being utilized, sites where fly



ash used for a specific activity was physically inspected and photographs have been captured as evidence. Facts or anomalies identified or found during the site visit have been noted down to include in the final report that is herewith submitted to CPCB.

Following the completion of data auditing and field visits, data obtained was collated and assimilated to make final recommendations. A final report is prepared using compiled data and submitted to CPCB.

5.1 Document Verification

During the audit, the following important documents were verified.

- 1) Records in support of daily or monthly fly ash and bottom ash generation & utilization for the period from April-2023 to March-2024.
- 2) Reports of coal and fly ash analysis
- 3) List of brick manufacturers to whom fly ash has been supplied.
- 4) Work Order/PO/Contract Agreement/Formal Letter of Requisition released by TPP engaging a transporting agency for mobility of fly ash for brick manufacturing or road making or land fill or dyke raise or agriculture land reclamation or land development or cement making, etc.
- 5) Documents like Payment made to a contractor, who has been engaged for transportation of fly ash.
- 6) Log books showing the quantity of fly ash transported per day/per month, number of trips, entry, and exit of the vehicle, etc.
- 7) Weigh bridge documents depicting actual quantity of fly ash transported daily/monthly.
- 8) Documents related to fly ash utilization in diverse sectors.
- 9) Layouts, diagrams, maps, photographs, etc.

5.2 Interaction with Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East Officials

During the audit and physical visit to the various TPP, active interactions have been made with officials working in Environmental Divisions and those who are dealing with disposal and utilization of fly ash. The officials include civil engineers, environmental engineers, administration, security, lab technicians, etc. In addition, the various physical and chemical properties of fly ash produced by respective TPP were verified and generic suggestions were made to the best knowledge of the auditor.

6.0 Fly Ash Generation & Utilization by Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East

The audit has been conducted on Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East, Summary of ash generation and utilization is listed in Table 1.

Table 1 Summary of fly ash generation and utilization during the 1st April-31st March 2023-24

Sl. No.	Details	Particulars
1.	Quantity of coal consumption during reporting period (MT per Annum):	2977638.00 MT
2.	Average ash content in percentage (per cent):	45.08 %
3.	Quantity of current ash generation during reporting period (MT per annum)	1343321.00 MT
	Fly ash (Metric Tons per Annum):	1074656.80 MT
	Bottom ash (Metric Tons per Annum):	268664.20 MT
4.	Capacity of dry fly ash storage silo(s) (Metric Tons):	2 Nos. Silo Capacity 1100 MT Each= 2200

Details of utilization of current ash generated during reporting period		MT
Total quantity of current ash utilized (MT) during reporting period:		878238.00 MT
5.	(a) Quantity of fly ash utilized (MT):	
	I. Construction of roads, road and fly over embankment:	465666.08 MT
	II. Filling of mines voids:	234185.38 MT
	III. Filling up of low-lying area:	49504.84 MT
	(b) Quantity of bottom ash utilized (MTPA):	
	I. Construction of roads, road and flyover embankment:	111649.12 MT
	II. Filling up of low-lying area:	457.16 MT
	III. Filling of mines voids:	16775.22 MT
	Total quantity of current ash unutilized (MTPA) during reporting period:	465083.00 MT
	Percentage utilization of current ash generated during reporting period (per cent):	65.38 %
7.	Details of disposal of ash in ash ponds	
	(a) Total quantity of ash disposed in ash pond(s) (Metric Tons) as on 31st March (excluding reporting period):	19233530.00 MT
	(b) Quantity of ash disposed in ash pond(s) during reporting period (Metric Tons):	465083.00 MT
	(c) Total number of ash ponds:	
	(i) Active:	02
	(ii) Exhausted (yet to be reclaimed):	01
	(iii) Reclaimed:	01
8.	Individual ash pond details	Nil
	(i) Date of start of ash disposal in ash pond	Active Pond, Exhausted Pond AP:21/10/2007 EP:1994/1995 (Stop on 31/12/2020)
	(ii) Quantity of ash disposed as on 31st March (Metric Tons):	AP:19698613 MT EP: 16824000 MT
	(iii) Available volume in percentage (per cent) and quantity of ash can be further disposed (Metric Tons):	AP: 27.67%, 303126.00 MT EP: NIL
	(iv) expected life of ash pond (number of years and months):	AP: 30 months EP: NIL
	(v) Ash water recycling system (AWRS) installed and functioning:	Yes
	(vi) Quantity of wastewater from ash pond discharged into land or water body (m3):	Nil
	(vii) Last date when the dyke stability study was conducted and name of the organization who conducted the study:	(Water Recirculation) 22 July 2022 By Chhattisgarh Swami Vivekanand Technical University Bhilai

7.0 SUMMARY AND RECOMMENDATIONS

- ◆ Auditing for fly ash generation and utilization was done for Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East on 16/11/2024.
- ◆ The actual fly ash generation is 1343321 MT and utilization is 878238.00 MT. **65.38 %** utilization of fly ash is achieved by Dr. Shyama Prasad Mukherjee Thermal Power Station, Korba East during the period of 1st April-31st March 2023-24.
- ◆ The maximum percentage utilization of fly ash is in:
 - Construction of roads, road and fly over embankment:
 - Filling of mines voids:
 - Filling up of low-lying area:
- ◆ The maximum percentage utilization of Bottom ash is in:

Shree

- Construction of roads, road and flyover embankment:
- Construction of dams:
- Filling up of low-lying area
- Filling of mines voids:

◆ The sector-wise utilization of fly ash is found to be:

Sector	Ash Utilization
Construction of roads, road and fly over embankment:	465666.08 MT
Filling of mines voids:	234185.38 MT
Filling up of low-lying area:	49504.84 MT

◆ The sector-wise utilization of Bottom ash is found to be:

Sector	Ash Utilization
Construction of roads, road and flyover embankment:	111649.12 MT
Filling up of low-lying area	457.16 MT
Filling of mines voids:	16775.22 MT


Dr. Anupam Rawat
 Civil Engg. Dept.
 MNNIT, Allahabad
 Dr. Anupam Rawat
 Associate Professor
 Department of Civil Engineering
 Motilal Nehru National Institute of Technology
 Allahabad

Break-up of Other General Expenses (Amount in Rs Cr)				
GL Code	ACCOUNT HEAD	Total_Closing	IND AS Minor Head	Regulatory Head
E180612	Commission to agents (MSTC)	0.37	Misc.Expenses	M&G Expense
E210351	Ministry/Secrti.All	0.00	Misc.Expenses	Employee Expenses
E210826	Compensation injuries/ death-staff	-	Misc.Expenses	Employee Expenses
E220105	Registration and licensing of vehicles	0.02	Misc.Expenses	M&G Expense
E220106	Price Difference	-0.52	Misc.Expenses	M&G Expense
E220107	Price Difference A/c for non migrated PO -CSPG	-	Misc.Expenses	M&G Expense
E220108	Outsourced Man Power	17.12	Misc.Expenses	Manpower deployed on out sourcing basis
E220203	Water charges	0.84	Misc.Expenses	M&G Expense
E220312	Transit insurance	0.03	Misc.Expenses	M&G Expense
E220401	Telephone fax and telex	0.18	Misc.Expenses	M&G Expense
E220402	Postage and courier charges	0.05	Misc.Expenses	M&G Expense
E220501	Printing and stationary	0.82	Misc.Expenses	M&G Expense
E220601	Traveling Expenses	0.58	Misc.Expenses	M&G Expense
E220602	Local Conveyance	-	Misc.Expenses	M&G Expense
E220607	Service Charges - Sub Contracting	0.03	Misc.Expenses	M&G Expense
E220610	Tr. & All-Members	0.10	Misc.Expenses	M&G Expense
E220812	Expenses on WREB	0.58	Misc.Expenses	M&G Expense
E221002	Loss from asset sale	-	Misc.Expenses	M&G Expense
E221101	ManPower On Contract Basis for 33/11 KVA S/s	0.44	Misc.Expenses	Manpower deployed on out sourcing basis
E221103	Man Power For Security Services On Contract Basis	3.18	Misc.Expenses	Manpower deployed on out sourcing basis
E223001	Advertisement expenses	0.75	Misc.Expenses	M&G Expense
E223002	Exhibition and demonstration expenses	0.00	Misc.Expenses	M&G Expense
E223003	Promotional expenses	0.00	Misc.Expenses	M&G Expense
E223004	Entertainment expenses	0.16	Misc.Expenses	M&G Expense
E223006	Books&Periodicals	0.01	Misc.Expenses	M&G Expense
E225001	Fees & subscription	2.09	Misc.Expenses	M&G Expense
E225002	Meeting expenses	0.05	Misc.Expenses	M&G Expense
E225010	Miscellaneous expenses	32.73	Misc.Expenses	M&G Expense
E225012	Data Processing & Data Punching Expenses	0.78	Misc.Expenses	Manpower deployed on out sourcing basis
E225030	Incidental Stores Expenses	0.97	Misc.Expenses	M&G Expense
E230812	Penalty chg- Delay Payment	0.00	Misc.Expenses	Not Applicable
E240515	Write Off Of HBA Of Deceased.Employees	-	Misc.Expenses	Employee Expenses
	Total	61.34		

Break-up of Other Coal Related Cost (All amount in Cr.)										
GL Code	ACCOUNT HEAD	HTPS	ABVTSP	DSPM	KWTTP	BANGO	GP III	HO	CAU	Total
E180402	PH cess on auxiliary consumption	-	-	-	-	-	-	-	0.16	0.16
E180604	Coal handling contract charges	2.52	0.42	-	0.70	-	-	-	-	3.64
E180608	Siding Charges	-	-	-	-	-	-	-	-	-
E180616	Coal Stock Maintenance Cost	2.36	0.00	-	-	-	-	-	-	2.36
E180618	Coal Conveyor and crusher	61.58	8.38	-	-	-	-	-16.29	-	53.68
E180620	Other Coal related Costs	3.39	2.79	10.54	-	-	-	-	1.64	18.36
E180622	Locomotives and Wagons	-	2.38	1.05	-	-	-0.04	-	-	3.40
E180631	Third Party Coal Sampling Charges	3.47	3.29	1.52	-	-	-	-	-	8.28
E201230	R&M Railway Siding	-	0.30	1.83	-	-	-	-	-	2.13
E260120	Fuel Related Losses & Exp Relating To PY	-	-	-	-	-	-	-	-	-
	Total	73.32	17.57	14.95	0.70	-	-0.04	-16.29	1.80	92.01

Plant Wise Break-up as claimed in petition			
HTPS+KWTTP (Combined)		HTPS	KWTTP
		63.29%	36.71%
% Share of Coal Consumption		46.84	27.17
As considered in petition			
		ABVTSP	DSPM
As considered in petition		17.57	14.95

Form-21 Page 113 of petition and Annexure-B8 page 83 of Additional submission

Annexure-XIV

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