

**REQUEST FOR QUOTATION (RFQ) / INQUIRY
FOR DAFT WITH ISOKINETIC SAMPLING OF COAL MILLS @ KMPCL, CHHATTISGARH**

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| DAFT With Isokinetic Sampling of Coal Mills | |
| Plant: 6x600 MW KSK Mahanadi Thermal Power Plant (TPP), Chhattisgarh | |
| Company Name: KMPCL | RFQ / Inquiry No: 2023-24/KMPCL/HYD/DAFT/285 |
| Location: Janjgir-Champa Dist. Chhattisgarh | Revision – 0 |
| | Date of Tender: 4th June 2024 |

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| 1. | Scope of Work | As per the attached Annexure - 1 |
| 2. | BOQ | As per the attached Annexure - 2 |
| 3. | Last date of Submission of offer | Within 10 days from the date of Tender Document. By 1700 hrs of 15th June 2024 |
| 4. | Working Period | |
| | a. Duration of Work | Duration of the Work shall be 10 days from the date handover of Equipment |
| | b. Mobilization | At least 5 Days prior to the schedule of start of work. |
| | c. Date of Start of Work | Shall be informed during finalization of work |
| | d. Notice to Proceed | Shall be intimated 7 days in advance from the date of Start of work. |
| | e. Completion of Work | Within 10 days from the date of start of work |
| | f. Validity of Work | One Year (as Standard) |
| 6. | Payment Terms | 100% upon completion of works within 30 days upon submission of Commercial invoice duly certified by EIC & Plant Head OR on Submission of RA Bills as per schedule completion of work. |
| 7. | Correspondence Address for Inquiry | KSK MAHANADI POWER COMPANY LIMITED 8-2-293/82/A/431/A, Road No. 22, Jubilee Hills, Hyderabad – 500033, Telangana. (Offer Submission) Contact: Mr. GS Bajwa – 7728888516 Email: gurpreet.b@ksk.co.in , contracts@ksk.co.in mukeshkumar.b@ksk.co.in |
| 8. | Site/ Works Address | KSK MAHANADI POWER COMPANY LIMITED (KMPCL), Nariyara Village, Akaltara Tehsil, Janjgir - Chempa Dist - 495556, Chhattisgarh. |
| 9. | Special Note | Please attach stamped and signed copy of all the inquiry / RFQ documents along with your offer. |

- A. SCOPE OF WORK:** As per the attached Annexure - 1
- B. BILL OF QUANTITY (BOQ):** As per the attached Annexure - 2
- C. QUALIFYING CRITERIA (EXPERIENCE):**
1. Bidder should have carried out similar jobs in 500MW & Above Units and relevant WO Copies should be submitted prior to finalizing the order.
 2. Bidder's works shop facility, list of tools & tackles and measuring equipment should be submitted for KMPCL review to perform the job without any discrepancy in order to gain the level of confidence.
 3. Qualified Bidder should have their own quality control system and relevant quality plan has to be submitted and get it approved by KMPCL prior to start the repair work.

The experience claimed by the bidder shall be considered, if the said experience is in the name of the bidder directly and not by subletting the contract. Firm to furnish satisfactory work completion certificate of executed orders, if not have worked with KMPCL earlier.

During the work period, the successful bidder has to depute well familiar experienced Engineers/ diploma holders/ Senior Supervisors. Bidder has to submit the proof about the qualification and experience of labour, supervisor and engineer deputed for cleaning jobs along with tender documents such as copy of appointment letters or P.F. submission Challan, for last 2 years along with qualification of personnel's who will be deputed for this work.

- D. FQP / QAP:**
Contractor shall submit their FQP (as applicable) for further review and approval from the Owner. In case contractor don't have such a quality plan then they have to follow KMPCL's FQP / QAP as per mutual discussions.
- E. ACCOMMODATION & FOOD FOR MANPOWER:**
- Accommodation space for lodging of workmen/ Engineer staff shall be provided by Owner on "As is Where is" basis within plant premises and at the nearest possible location.
 - Food for manpower shall be available in the KMPCL Canteen on chargeable basis. However, to avail the facility, a prior intimation to the canteen manager to be given by the contractor in advance.
- F. GENERAL CONDITIONS OF THE CONTRACT:**
1. **General Scope of Contractor: Applicable only if the Vendor is working @ KMPCL Plant Site:**
 - a. Contractor should deploy competent workers for the particular job and should authorize his workers for carrying out electrical works such as welding, grinding and other works carried out by electrical appliances.
 - b. The contractor should approach the EIC for electric supply point(s) and all electric connections and circuits shall be drawn with his approval. In case of non-compliance of the above, or in case of any mishap or accident the contractor shall be solely responsible for all the consequences.
 - c. All the portable tools are to be used with three plugs and three wires for single phase systems/ 3 phase four wire system for 3 phase system only, so as to avoid electrical shock while working. Proper earthing to be checked both at supply end at tools end.
 - d. Three wire sockets and properly insulated electrical boards with earth leakage circuit breakers (ELCB) are to be used by Contractor. ON/OFF switch should be connected in live wire and not in neutral wire. This should be ensured by qualified electrician.
 - e. Contractor shall submit the latest General Medical Test Report of the manpower deployed by the contractor along with the documents for issuance of necessary Gate Pass.

- f. Special Tools supplied by the OEM's shall be issued by the Owner (as per availability basis) to the contractor on returnable basis. In case of some alternate arrangement is required against the Special Tool (non-availability) the same shall be supported by the contractor to save the time during overhauling.
 - g. The contractor shall maintain all the tools & tackles in healthy condition throughout the period of work. Contractor shall arrange all the required General Tools for execution of the scope of work including the testing equipment. The testing equipment and tools & tackles should be of reputed make.
 - h. All the consumables required for completion of work to be supplied by contractor, unless specified separately.
 - i. Scrap, Waste and Effluent disposal if any to be dumped at the designated place within the plant premises by the contractor as per the instruction of Engineer- in-charge.
 - j. As per the working plan the Supervisor should be available in all the working shifts for close monitoring.
 - k. The contractor shall make his own arrangement of Crane, Hydras, Tractor trailers, Trucks, Hand trolleys, manpower, lifting tools & tackles etc. for all types of material handling job inside KMPCL's plant area at his own cost. This includes loading, unloading and transportation of the material / spares inside plant working area for maintenance work, issue of materials / spares from stores to site of work, return of material back to stores, disposal of scrap & old unused material – from site of work to workshop - from site of work to stores - from the site to the scrap yard / place as specified by the Engineer-in-Charge.
 - l. Contractor shall ensure to possess all the required permits (PTW) and isolation form the EIC, prior to the start of the works.
 - m. Contractor shall ensure hot and height permits availability before start of job. Execution of job without hot and height permit will be the responsibility of Contractor and shall attract penalty as decided by KMPCL EIC.
 - n. Contractor shall ensure 100% illumination at the work place. Any hindrance caused shall attract penalty under unsafe conditions.
 - o. Any scaffolding required for doing the job shall have to be erected and dismantled by the contractor. Material for the same shall be arranged by Owner unless separately specified in the contract.
 - p. Proper housekeeping is a must during entire work period. Hazardous material and inflammable material should be handled so as not to cause harm to the plant or people.
 - q. In case of any ambiguity / dispute about any conditions of contract, Special Conditions of Contract will prevail over General Condition of Contract.
 - r. Work will be carried out on round the clock basis or agreed time.
 - s. Supervisor will be available on shift basis for close monitoring.
 - t. All the tests carried out at site must submit test reports in spiral binding from in 6 sets.
 - u. If any work/consumable/tools and tackles not mention above which is required for completion of the work is in the scope of contractor.
 - v. The decision of Engineer-in-Charge shall be final in regard to all matters relating to the scope of work.
2. **General Scope of Owner: Applicable only if the Vendor is working @ KMPCL Plant Site:**
- a. Permits will be issued by the Owner as per the requirement and based on the documents.
 - b. All the available relevant drawing will be shared as per the requirement of scope of work.
 - c. Spares required against the activities will be provided by the Owner.
 - d. The electricity, water, compressed air etc., shall be provided at fixed points by KMPCL on the basis of 'as is where is" available in the plant. However, further extension cabling / hoses / piping etc. shall be arranged by the contractor.
 - e. Drinking water facility shall be made available by the Owner.
 - f. EOT Crane along with operators etc. under the scope of owner, if not specified separately.
 - g. Workshop facility for machining activities if not specified separately shall be provided by the Owner.
3. **Statutory Compliance: Applicable only if the Vendor is working @ KMPCL Plant Site:**

- a. Contractor has to produce WC policy/ESIC as applicable, before the commencement of work.
 - b. All provisions of the Factory Act 1948, The Chhattisgarh Factory Rules 1950, Indian Electricity rules 1956, and other rules and regulations should be strictly adhered by the contractor.
 - c. The contractor shall ensure compliance with all the Acts, Rules & Regulations pertaining to Health, Safety as applicable from time to time.
 - d. If any of KMPCL safety officers finds that Contractor is not following the Safety Rules and regulations including use of personal protective equipment at site, he is authorized to stop your work immediately. In case of violation of rules after issue of warning letter contractor shall be liable to penalty as decided by the concerned / safety section.
 - e. Safety of the workers to be engaged in the job is Contractor's responsibility and KMPCL will not be responsible for any type of compensation to Contractor's worker, if any accident occurs during the work and Contractor will be liable for all payments, maintenance etc. to the worker / workers' family as per statute or rule in force in the State or the Country as a whole.
4. **Insurance of The Workmen: Applicable only if the Vendor is working @ KMPCL Plant Site:**
- a. The contractor shall insure all his workmen for payment of compensation in case of any accident under the provision of Workmen's Compensation Act. The supporting papers/documents in this regard shall have to be submitted before start of the work.
 - b. The Contractor shall ensure that all their personnel and machinery are covered adequately under an appropriate insurance policy and shall keep Owner fully indemnified against any claims arising whatsoever during the execution of the work. Contractor shall produce necessary documentary proof before the commencement of work at Site.
5. **Safety: Applicable only if the Vendor is working @ KMPCL Plant Site:**
- a. Induction & Training: All the persons to be deployed by the contractor have to undergo safety induction before being engaged in any job and moreover they have also to undergo safety training regularly.
 - b. Contractor should provide all safety equipment's to their workers such as safety shoes, helmets, goggles, aprons, welding screen, safety belts, appropriate hand gloves etc. Good and approved quality appliance shall be arranged and replaced by new ones as soon as worn out by Contractor at his own cost.
 - c. Work should be carried out with all PPEs and under KMPCL safety guidelines
 - d. If any of KMPCL safety officers finds that Contractor is not following the Safety Rules and regulations including use of personal protective equipment at site, he is authorized to stop the work immediately. In case of violation of rules after issue of warning letter, the contractor shall be liable to penalty as decided by the concerned / safety officer / EIC.
 - e. Adequate supervision must be ensured during execution for compliance of safety measures.
 - f. In case of injury to person, the incidence is to be reported to concerned section without delay and all legal formalities completed at earliest.
 - g. Safety of the workers to be engaged in the job is Contractor's responsibility and KMPCL will not be responsible for any type of compensation to Contractor's worker, if any accident occurs during the work and Contractor will be liable for all payments, maintenance etc. to the worker / workers' family as per statute or rule in force in the State or the Country as a whole.
6. **Personal Conduct:**
Entering of any of contractor's person into the factory under influence of alcohol / drugs is strictly prohibited. Further, any act of sabotage to Owners resources with mala fide intentions shall be taken very seriously and immediate removal of the person(s) will be effected.
7. **Termination:**
The Work Order/Contract is subject to termination by the owner at any time before the contractor/agency commences mobilization of manpower and resources or initiate the work.
8. **Quality And Safety:**

You shall implement all applicable quality norms in relation to the performance of the Scope of Work by establishing a well-equipped laboratory and a dedicated quality engineer. You shall also comply with all safety norms and maintain industrial practices for safety of men, material and also cover them under insurance. KMPCL shall be completely indemnified from any obligations arise out of any accident, incident or loss of men, material and property.

9. **Special Note:**

Kindly note, any payment made under this Work Order whether as advance or otherwise, is strictly for providing the services as per this Work Order. In any circumstances, any payment given under this Work Order shall not be adjusted against any outstanding dues, of whatsoever nature, towards KMPCL or any company of KSK Group. In case service is not provided within time stipulated in completion schedule or is not in accordance with the agreed quality, the party/contractor shall refund the entire advance amount within 7 days of intimation in this regard from KMPCL, without any prejudice.

10. **Progress Reports:**

You shall provide final report in mutually agreed formats for circulation among all the relevant parities.

11. **Confidentiality:**

No party shall disclose this "WO" or any part thereof, without the written consent of the other party, except that such consent is not required when such disclosure must be made to a lender, Statutory Authority or in pursuance of any directive from a Regulatory Authority.

12. **Indemnity:**

Notwithstanding anything contained in this "WO", the Contractor hereby agrees and undertakes to indemnify and keep indemnified Owner from and against all and any claims, demands, action, charges, losses, reasonable costs (including without limitation the fees, disbursements and other charges of counsel), expenses, claims, damages, penalties and liabilities that Owner or its Directors or Officers may incur or suffer as a result of, arising out of or in connection with breach by the Contractor of any of its' obligations, undertakings or covenants contained in this 'WO'.

13. **Force Majeure:**

Neither of us shall be considered to have defaulted in the performance of our respective contractual obligations under this Contract, if such non-performance is as consequence of force majeure which shall mean any event beyond the reasonable control of the parties including but not limited to the acts of God, earthquake, typhoon or cyclone, floods, lightening, landslide, fire or explosions, environmental pollution, plague or epidemics, strike and lockouts, (lasting more than fourteen (14) consecutive calendar days except, sabotage, blockade, war, invasion, act of foreign enemies hostilities (whether war to be declare or not), civil war rebellion, revolution, insurrection / or military usurping power or confiscation or trade embargoes or destruction or requisition by order of any Government or any public authority. However, the affected party shall take all measures to mitigate the impact of such force majeure. Commercial difficulty shall not be force majeure.

14. **Arbitration:**

All disputes or differences whatsoever arising out of this "WO" which cannot be settled through mutual negotiations shall finally be settled by arbitration through arbitration in accordance with the provisions of the Arbitration and Conciliation Act 1996. The venue of such arbitration shall be Hyderabad. The decision of the Arbitrator shall be final and binding on the Parties.

15. **Jurisdiction:**

Parties agree that the courts at Hyderabad shall have the exclusive jurisdiction over all disputes and matters that arise under or pursuant to this 'WO'.

16. **Notices:**

Any notice, request or instruction permitted or required to be given hereunder by any party to the other shall be in writing and shall be deemed sufficiently given if delivered personally against receipt or sent by Registered Post A.D or by Speed Post / courier with A.D. at the address of the parties mentioned in the WO.

G. Deviation:

In case of any deviation during the submission of the offer, the bidder must fill the same in the below formats for technical & commercial deviations (if any).

- **Technical Deviation**

| Sr.no | Reference Clause No. | Deviation Taken |
|-------|----------------------|-----------------|
| | | |

- **Commercial Deviation**

| Sr.no | Reference Clause No. | Deviation Taken |
|-------|----------------------|-----------------|
| | | |

ANNEXURE-1

SCOPE OF WORK FOR DAFT WITH ISOKINETIC SAMPLING OF COAL MILLS

A. TECHNICAL SCOPE OF WORK

The technical scope of work shall include but not limited to the following

- Dirty Airflow test in all fourteen coal mills of individually.
- Isokinetic coal sampling by dirty Pitot tube & fuel balancing between all four –coal mill discharge pipes in all fourteen –coal mills individually.
- Total Primary air & PA to coal ratio to be determined by vendor & air optimization to be done in all fourteen – coal mills individually.
- As per the test result & Findings recommendation to be given by contractor to KMPCL for coal mill performance & Combustion Optimization during the test.
- All testing equipment must be calibrated and will be in the scope of Contractor.
- Contractor will provide calibration certificates approved by NABL Lab of all testing equipment in advance.
- Any pre-checklist or requirement by the Contractor must be submitted to us in advance (5 days).
- Logging of all field testing data in prescribed format approved by KMPCL & Same to submitted ti KMPCL for their record soon after completion of the test.
- First all consecutive Mills test must be carried out with constant Boiler Parameters.
- During test, the Operation team as per their convenience will solely decide any decision regarding the changeover or stoppage of the mill.
- Coal mills will be made available for the test without affecting the unit generation & will be solely decided by operation department. Decision of operation department will be final for giving the mill for the test.
- Final Detailed Report must be submitted with necessary recommendations with in two weeks post completion DAFT Test.

B. Special Conditions for the Work:

- The Contractor will arrange all the permissions, clearance and approvals from statutory and/or any other agencies, as may be required for executing the scope of work.
- Testing, analysis & report submission with observation and inputs suggesting modification will be on contractor inline with the duration of validity.
- Test locations will be identified & indicated by the contractor in GA drawings of Boiler, which will be provided to the contractor as per the contractual obligation. This must be sent to us well in advance so that necessary arrangement can be don't by us to avoid any delay (10 days).
- Party has to schedule for the site visit as per Unit#2 shutdown plan and make arrangement for testing at site.
- Duly signed hard copy with soft copy of reports has to provide by party.
- All travelling expenses up to site will be in contractor's scope. However, the local transportation and lodging & Boarding with food shall be in the scope of Owner.
- All Manpower coming to site for shutdown job must have all PPE safety shoes, helmet etc. to be arranged by contractor.

ANNEXURE-1

SCOPE OF WORK FOR DAFT WITH ISOKINETIC SAMPLING OF COAL MILLS

- Contractor will be solely responsible for the security of its own equipment/resources.
- Contractor will provide list of tools and consumables prior to their at site to ensure smooth gate pass process.
- All works to be carried out in coordination with EIC of the Owner.
- After work completion, Protocol signed by EIC of the Owner and submitted.
- Penalty shall be applicable if the man power shall not have desired skill sets, if job not completed with respect to manpower deployment, shortage of T&P and consumables after etc.
- Contractor has to produce WC policy before commencement of work.

C. Tentative T&P Required:

All tools & tackles and machinery required to carry out the DAFT within the schedule will be in the scope of contractor. Required labour to assist the team shall be provided by KMPCL.

D. Drawings & Other Details: Required GA drawing shall be provided by KMPCL. Test locations will be identified & indicated by the Contractor in GA Drawings.

E. Exclusions:

- Supply of C&I Spares & Consumables.
- Scaffolding Material & labour for the same.
- Hydra/Crane/Vehicles for material shifting.
- T&P

BOQ for DAFT With Isokinetic Sampling of Coal Mills at KMPCL

| Sr. No | Description | Quantity | UOM | Rate | Value |
|-----------------------------------|---|-----------------|-------------|-------------|--------------|
| 1 | DAFT with IsoKinetic Sampling of Coal Mills | 14 | No of Mills | | - |
| Sub Total | | | | | - |
| GST @ 18% | | | | | - |
| Total Amount (Basic + GST) | | | | | - |