

NTPC LTD
CORPORATE OPERATION SERVICES, EOC, NOIDA
VENDOR ENLISTMENT FOR O&M WORKS PACKAGE ON PAN NTPC
BASIS

1	CEG No.	BMD-23
2	Brief description of CEG	Inspection & Repairing of Coal Bunker of Boiler of unit capacity less than 500 MW
3	Responsibility Centre	CPC
4	Brief scope of work	<p>Inspection & Repairing of Coal Bunker of Boiler of unit capacity less than 500 MW:</p> <p>10.10: SCAFFOLDING ERECTION (21-30Mtr) FOR INSPECTION OF CONICAL PORTION OF COAL BUNKER (OUTSIDE ONLY)</p> <p>a) Before starting of work , agency must ensure the relevant PTW for the work</p> <p>b) Erection of temporary structure with scaffolding pipes, clamps along with suitable working platforms, access ladders for safe approach / working for inspection, repair work and DP test of weld joints of conical portion of bunker</p> <p>c) Scaffolding material shall be supplied by NTPC free of cost.</p> <p>d) Shifting of planks / boards, scaffolding pipes, clamps from stores to site for erecting temporary structure to the coal bunkers.</p> <p>d) The temporary structure should be made at all levels and elevations (from feeder floor EL (+) 18.00 up to ring beam EL (+) 35 meter approx.) such that entire conical portion of coal bunker is covered for carrying out repair work activities and strengthening work as per instruction of area engineer.</p> <p>e) Party has to arrange sufficient number bulbs for 24 volts lights and safe illumination. 24 volt supply will be arranged by NTPC free of cost.</p> <p>f) Arrangement & use of personal protective equipment, full harness safety belt for all workers working at height and suitable hand gloves for handling sharp objects.</p> <p>g) After completion of work, the agency has to remove the temporary structure and return all the material to the store as per instruction of EIC.</p> <p>h) Erection and dismantling of temporary structure for conical portion of each bunker (outside only) shall be considered as one number for payment purpose.</p> <p>i) Agency have to made hand railings for ladders and platform where the additional safety required.</p> <p>j) At feeder floor the entire area beneath cone where scaffolding erected should be cordon off by the safety ribbon and danger board.</p> <p>10. 20: SCAFFOLDING ERECTION (31-40 Mtr) FOR INSPECTION OF CONICAL PORTION OF COAL BUNKER (INSIDE ONLY)</p> <p>a) Before starting of work , agency must ensure the relevant PTW for the work</p> <p>b) Party has to Ensure that there is no coal left in the bunkers before start of work. Cleaning inside portion of bunker. The agency has to bring fire hoses and nozzle required for cleaning.</p>

- c) Covering of bunker top opening with MS sheets at the bunker floor to avoid entry of spillage coal from bunker conveyor. MS sheets shall be provided by NTPC free of cost.
 - d) Removal of feeder pipe between feeder and bunker outlet gate for going inside the conical hopper.
 - e) Service air for forced ventilation inside the bunker shall be provided and the required hoses are to be provided by the agency.
 - f) If the oxygen level inside the bunker is less, Self-contained breathing apparatus shall be arranged by agency at his own cost.
 - g) Erection of temporary structure with scaffolding pipes, clamps along with suitable working platforms, access ladders for safe approach / working for inspection, repair work and DP test of weld joints of conical portion of bunker
 - h) Scaffolding material shall be supplied by NTPC free of cost.
 - i) The temporary structure should be made at all levels and elevations (from bunker gate EL (+) 24.00 up to ring beam EL (+) 35 meter approx.) such that entire conical portion of coal bunker is covered for carrying out repair work activities and strengthening work as per instruction of area engineer.
 - j) Shifting of planks / boards, scaffolding pipes, clamps from stores to site for erecting temporary structure to the coal bunkers.
 - k) Party has to arrange sufficient number bulbs for 24 volts lights and safe illumination. 24 volt supply will be arranged by NTPC free of cost.
 - l) Arrangement & use of personal protective equipment, full harness safety belt for all workers working at height and suitable hand gloves for handling sharp objects.
 - m) After completion of work, the agency has to dismantle the temporary structure, mounting/normalize the feeder pipe removed, remove MS sheets provided on bunker top and return all the material to the store as per instruction of EIC.
 - n) Cleaning the inside portion, erection and dismantling of temporary structure for scaffolding and approaches (inside only), removal and normalizing back feeder pipe (between feeder and bunker outlet gate) of each bunker shall be considered as one number for payment purpose.
 - o) This scope of work shall be meant for entire inside portion of bunker and this work required to be carried out with extra precaution and safety, all the scaffolding /platform needs to be checked by safety department.
- 10.30: DPT OF WELD JOINT (EITHER FROM INSIDE OR OUTSIDE)**
- a) DPT has to be carried out at SS-SS or MS-SS (ring beam joint) weld joints of conical portion of coal bunker (either inside or outside) & any other identified location as per requirement at all levels and elevations.(including the external structure of bunker cylindrical portion.
The agency has to carry out DPT on structural members of column ,gusset plate, ring beam etc as per the requirements and instruction of engineer in charge
 - b) The agency shall arrange required skilled manpower for carrying out

	<p>DPT</p> <p>c) While working inside the bunker, service air for forced ventilation shall be provided and the required hoses are to be provided by the agency.</p> <p>d) If the oxygen level inside the bunker is less, Self contained breathing apparatus shall be arranged by agency at his own cost.</p> <p>e) Clean the surface to be tested and carry out DPT</p> <p>f) Party will arrange DPT Kit of standard brand for carrying out DPT at their own cost.</p> <p>g) NTPC - FQA department will inspect the DPT joints made ready by the agency.</p> <p>h) DP test of 1 meter joint (either from inside or outside) shall be considered as one number for payment purpose.</p> <p>10.40: REPLACEMENT OF DAMAGED PORTION OF COAL BUNKER (FROM INSIDE OR OUT SIDE) THIS SCOPE INCLUDES THE REPLACEMENT OF ALL THE DAMAGED CONICAL PORTION OF BUNKER FROM INSIDE AND OUTSIDE OF BUNKER AS PER THE INSTRUCTION OF ENGINEER IN CHARGE ON CONICAL AS WELL AS CYLINDRICAL PORTION OF BUNKER.</p> <p>a) Cutting & removal of all damaged parent metal from conical portion of coal bunker, cutting and fabrication of SS plates/ MS plate in necessary size, shape and section. The plasma cutting m/c for cutting of SS plates will be arranged by party at their own cost.</p> <p>b) Replace the removed portion of parent metal with fresh SS plates /MS plate at all elevations. SS plates / MS plate shall be provided by NTPC free of cost.</p> <p>c) While working inside the bunker, service air for forced ventilation shall be provided and the required hoses are to be provided by the agency.</p> <p>d) If the oxygen level inside the bunker is less, Self contained breathing apparatus shall be arranged by agency at his own cost</p> <p>e) Collection of steel plates from stores to the site and return of scrap and unused material at proper place as per instruction of area engr.</p> <p>f) Cutting of plates, bending and welding of plates for conical portion of coal bunker by properly grinding of defective weld joints and edge preparation to ensure quality joint as per instruction of area engineer.</p> <p>g) Welding shall be done by qualified tested welders as per requirement at all levels and elevations.</p> <p>h) Suitable welding electrodes for the job shall be provided by NTPC free of cost. However welding m/c and accessories, grinding m/c, grinding wheel, baking ovens for electrodes will be arranged by party at their own cost..</p> <p>i) Visual inspection and DPT has to be carried out after welding the joint.</p> <p>j) The agency shall arrange required skilled manpower for carrying out DPT.</p> <p>k) Clean the surface to be tested and carry out DPT.</p> <p>l) Party will arrange DPT Kit of standard brand for carrying out DPT at</p>
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		<p>their own cost.</p> <p>m) NTPC-FQA department will inspect the DPT joints made ready by the agency.</p> <p>n) Replacement of parent material with fresh plates, welding and DPT of 1 square meter of job shall be considered as one number for payment purpose.</p> <p>10.50: REPAIR OF DEFECTIVE WELD JOINT (EITHER FROM INSIDE OR OUTSIDE) INCLUDES THE REPAIR OF ALL THE DEFECTIVE WELD JOINTS OF BUNKER FROM INSIDE AND OUTSIDE OF BUNKER ON CONICAL AS WELL AS CYLINDRICAL PORTION AND RING BEAM AS PER THE INSTRUCTION OF EIC</p> <p>a) Repairing of all identified / defective areas (either from inside or outside) of conical portion of coal bunker (SS/ MS plate at ring beam joint)) by grinding and edge preparation to ensure quality joint Welding of the joints shall be done by tested qualified welders as per requirement at all levels and elevations. Qualification test for the welder will be done in presence of NTPC- FQA representative .</p> <p>b) Suitable welding electrodes for the repair of joint shall be provided by NTPC free of cost. However welding m/c and accessories, general purpose electrode, grinding m/c, grinding wheel, baking ovens for electrodes are in agency scope.</p> <p>c) While working inside the bunker, service air for forced ventilation shall be provided and the required hoses are to be provided by the agency.</p> <p>d) Visual inspection and DPT is to be carried out after the repair of weld joint.</p> <p>e) The agency shall arrange required skilled manpower for carrying out DPT.</p> <p>f) Clean the surface to be tested and carry out DPT.</p> <p>g) Party will arrange DPT Kit of standard brand for carrying out DPT at their own cost.</p> <p>h) NTPC-FQA department will inspect the DPT joints made ready by the agency.</p> <p>i) Repair of welding joints and DPT of 1 meter joint (either from inside or outside) shall be considered as one number for payment purpose.</p> <p>Other details of works shall be given in tender document.</p>
2.	Technical Qualifying requirements	The Applicant must have executed the work of Coal Bunker Inspection and repairing in at least 02 Units (Boiler) of 200 MW or above (Minimum 10 Nos. of Coal Bunkers) during last five years from the date of application.
	Document to be submitted by Vendor in support of meeting QR	Relevant PO copy and Client's Completion Certificate/RA bill/Final Deviation Statement and other certificate/documents as mentioned elsewhere

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6	Additional Documents to be submitted	<p>In addition to the documents required in support of meeting Technical Qualifying Requirements as stated above, following documents are required to be submitted by the Applicants applying for enlistment:-</p> <ol style="list-style-type: none"> i. Three POs with BOQ of the highest executed values of similar work during previous five years from the date of application and Copy of Completion Certificate /RA Bill/Final Deviation Statement from the concerned client in support of successful execution of work against each of the POs to besubmitted. ii. Audited balance sheet including Profit & Loss statement for the previous three completed financial years reckoned from the date of application. In case, the audited documents are not ready/available, then certified copy of financial statement by a registered practicing chartered accountant may be submitted. iii. NSIC / SSI / MSME registration certificate iv. PF and GST/Service Tax registration certificate v. Any other documents in addition to the above which the applicant wants tosubmit.
7	NOTES:	<p>1.0 Similar work means: Work of Coal Bunker Inspection and repairing of boiler in Unit of 200 MW or above (Minimum 10 Nos. of Coal Bunkers)</p> <p>2.0 Value means basic value of the PO. Where PO value is composite (i.e. including Service taxes etc.), the applicant has to give break-up of composite PO value mentioning basic value, taxes etc. Executed value of contracts shall include escalation amount because of price adjustment, if any, in thecontract.</p>