

NTPC LTD
CORPORATE OPERATION SERVICES, WR-II HQ, RAIPUR
VENDOR ENLISTMENT FOR O&M WORKS PACKAGE ON PAN NTPC BASIS

1	CEG No.	TMD-19
2	Brief description of CEG	Contractor enlistment for Overhauling of TDBFP drive turbine for 490 MW units and above
3	Responsibility Centre	CPC
4	Brief scope of work	<p><u>Indicative brief Scope of Work:</u></p> <ol style="list-style-type: none"> <i>1. This Brief Scope of Work is indicative only. The detailed Scope of Works shall be as mentioned in tender enquiry by respective sites.</i> 2. Overhauling of TDBFP Drive turbine job involves complete dismantling of BFP Drive turbine & associated equipments including acoustic enclosure, if any & necessary insulations, its valves and servomotors, bearings etc. Providing necessary assistance for removal & re-assembly of C&I instruments. Carrying out necessary repair & replacement. Carrying out MPI of rotor & casing blades. Carrying out alignment & centering, assembling etc, assistance in slow speed balancing (if mentioned in tender enquiry), attending to defects observed during trial run etc and any other job related to TDBFP drive turbine as per detailed scope of work given in tender enquiry. 3. The agency has to complete the job within specified period mentioned in tender enquiry. 4. T&Ps required for the above overhauling jobs as mentioned in tender enquiry are within scope of the contractor except for special T&P that have been supplied by the OEM with the equipment package. These special T&P will be issued to the contractor on returnable basis for carrying out the job. Party has to submit calibration certificate for all measuring instruments & load test certificate for slings / chain pulley blocks etc before use. 5. Alumina powder shall be in the scope of contractor if mentioned in tender enquiry. Alumina blasting machine required for the above job falls within scope of contractor. Party shall make necessary shed arrangement for the alumina blasting. Tarpaulins or tents required for the above work is under contractor's scope. Ultrasound test kit, DP Test kit etc will be in the scope of the contractor if mentioned in tender enquiry. Test etc required will be carried out by the contractor. NTPC would only witness the tests. Consumables that go into the machine like Molykotes, Hylomar etc. will be in the scope of NTPC. Consumables that do not go into the machine like diesel, gases etc are in the scope of the contractor. All spares are in the scope of NTPC.


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NAME OF CEG: Overhauling of TDBFP drive turbine for 490 MW units and above

5	Technical Qualifying requirements	<p>The applicant must have executed, at least three (03) times, the job of Overhauling of drive turbine of TDBFP for 490 MW power generation units or above capacity during the preceding five years from the last date of submission of application for enlistment.</p> <p>Or</p> <p>The applicant must have executed, at least two (02) times, the job of Overhauling of Steam Turbine (any cylinder) of 60 MW or above capacity power plants during the preceding five years from the last date of submission of application for enlistment."</p>
	Document to be submitted by Vendor in support of meeting QR	<p>Relevant legible PO copy / work order with detailed scope of work, terms and conditions, BOQ and Client's Completion Certificate/RA bill/Final deviation statement.</p> <p>NTPC can ask the applicant any further document / information required for verification of the credentials submitted. For jobs carried out in NTPC units, the execution proofs can be checked from NTPC records</p>
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> <ul style="list-style-type: none"> i. Three POs with BOQ of the highest executed values of similar work (see clause 7) 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 be submitted. ii. Audited balance sheet including profit and loss statement for the previous three completed financial years reckoned from the date of application. In case the audited results for the preceding financial year is not available, certification of financial statements from a practicing chartered account may be submitted. In case, applicant is not able to submit the certificate from practicing chartered accountant certifying its financial parameters, the audited results of three consecutive financial years preceding the last financial year shall be considered for evaluating the financial parameters. Further a Certificate would be required from the CEO/CFO stating that the financial results of the company are under audit as on the date of Application and the Certificate from the practicing Chartered Accountant certifying the financial parameters is not available. iii. NSIC / SSI / MSME registration certificate, if any iv. PF and Service Tax registration certificate v. Any other documents in addition to the above which the applicant wants to submit.

7	Notes	<p><u>Note 1.</u></p> <p><u>Similar work for calculation of Executed Values –</u></p> <p>Overhauling of Drive turbine of TDBFP or Overhauling of Steam Turbines/Gas Turbine or Overhauling / Erection of Turbines in power plant</p> <p>In case any composite work/ purchase order which includes any other overhauling / maintenance / erection jobs of a power plant in addition to the above mentioned jobs in similar works definition then the total value executed value against the said work order shall be taken for execution capability calculation.</p> <p>Note 2</p> <p>Value means basic value of the PO. Where PO value is composite (i.e. including Service taxes/ GST 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 on account of price adjustment, if any, in the contract.</p>
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DRAFT FIELD QUALITY PLAN

 COS-ST WRHQ-II,RAIPUR	AGENCY'S NAME & ADDRESS: Name of the Work: Overhauling of TDBFP drive turbine for 490 MW units or above.	QP NO:FQP/OS/ REV NO: DATE: Page 1 of 1	LOA NO & DATE
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Sl. No	Component/ Operation	Type of Check	Class	Quantum of check	Reference Document/ Acceptance norms	Format of Record	Remarks
1.0	Rotor journal diameters and Bearing bore dimensions	Measure	B	100%	O&M manual/OEM recommendations	Protocol	
2.0	Rotor run-out reading	Measure	B	100%	O&M manual/OEM recommendations	Protocol	
3.0	Blue matching of seat/ disc	Visual	B	100%	LOA specification/ Complete line contact	Protocol	
4.0	NDT(UT&DPT) personnel qualification	Certificate review	B	100%	ISNT/ ASNT LEVEL II	Certificate	
5.0	DPT of Bearings , rotor , rotor blades and couplings components	DPT	A	100%	OEM procedure	DPT report	See note 1
6.0	DPT of control valve and stop valve components	DPT	A	100%	OEM procedure	DPT report	See note 1
7.0	DPT of valve Servomotors components	DPT	A	100%	OEM procedure	DPT report	See note 1
8.0	Ultrasonic testing of Bearings & thrust pads	UT	A	100%	OEM procedure	UT report	See note 1
9.0	MPI of rotor & casing blades	MPI	A	100%	ASME standards	MPI report	
10.0	Longitudinal Keys, sole packers and holding down bolts clearances at Front and Rear pedestal	Measure	B	100%	O&M manual/OEM recommendations	Protocol	
11.0	Final Rotor centering readings.	Measure	B	100%	O&M manual/OEM recommendations	Protocol	
12.0	Journal contact area with journal bearing	Visual	B	100%	O&M manual/OEM recommendations	Protocol	
13.0	Final thrust float	Measure	B	100%	O&M manual/OEM recommendations	Protocol	
14.0	Final alignment readings	Visual& Measure	B	100%	O&M manual/OEM recommendations	Protocol	

Note:1. OEM has to submit DPT&UT procedures along with bid for NTPC –FQA reference.

2. It is the responsibility of the contracting agency to offer 'A' class checks to witness by FQA and EIC & 'B' class checks to witness by execution department. The complete protocols are to be made on real time basis then & there.

3. Welding electrodes shall be of NTPC approved make and brand only.

CONTRACTOR	LEGEND: CLASS *	FOR NTPC USE		
(SIGNATURE)	A : To be witnessed by FQA & EIC B : To be witnessed by EIC C : To be performed & witnessed by Contractor	PREPARED / PROPOSED BY	REVIEWED BY	APPROVED BY