

NTPC LIMITED
Consultancy Services
EOC Noida

Vendor Enlistment/ Rate Contract for Pre Bid tie ups. - Stage-I
CSG-02-Performance Testing of Boilers of Various Capacity

- 1.0 Intent: The intent of this Rate Contract is to select qualified Agency for “Supply & installation of boiler efficiency test instruments and test data collection during the test” In India.
- 2.0 To enter into rate contract agreement with vendors capable of supplying & installation of test instrument & data collection during boiler efficiency test in large Energy Intensive Utility like Thermal power station, captive Power Station, Refineries etc.
- 3.0 Unit: One Power Generating Unit of 100 MW to 800 MW, Captive Power Station of Installed capacity of 80 MW and above, Steam and Power Generating Co-Gen Units of 150 T /hr Steam.
- 4.0 Coverage: Anywhere in India.
- 5.0 Duration of Rate Contract: The enlistment shall be valid for a period of 3 years. However, the rate contract finalized subsequently may be valid for 2 years
- 6.0 Minimum Quantity: There is no minimum off take guarantee.
- 7.0 Work Completion Period: 1 Month from the date of Start to be intimated by EIC.
- 8.0 Lead time /Intimation Period: 15 days before start of work.
- 9.0 Evaluation Criteria:
 - 9.1. Applicant will be selected on the basis of L1 Price quoted exclusive of applicable taxes.
 - 9.2. NTPC reserve the right to enter into rate contract agreement with more than one party.
- 10.0 Scope of Work:
 - 10.1. Test Instruments.
 - a. The supplier shall supply, transport and install all the test instruments at site as per the list provided. Vendor shall be responsible for test data collection and removal of test instruments after test.
 - b. Supplier is advised to keep sufficient Spare instruments for completion of testing as per agreed schedule.
 - c. All test instruments shall meet the accuracy specified.
 - d. All test instruments shall have valid calibration certificate from an accredited test lab.
 - e. All calibration certificates shall be submitted to NTPC for verification.

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- f. Measurement of O₂, CO & Temp of flue gas at APH inlet and outlet simultaneously by grid method (point by point traverse).
 - g. O₂ Mapping of flue gas duct.
 - h. All test logs shall be provided to NTPC.
- 10.2. Test team: The supplier will deploy the test team with specified experience to carry out all the test activities. A team leader will be nominated for co-coordinating the activities and interact with NTPC & client.
- 11.0 Recommended list of Instruments:

SN	Description	Quantity	Accuracy
1	Portable CO+O ₂ gas analyzer with 3 meter long sampling probe along with K – Type thermocouples (0- 400 Deg C) for grid measurement of O ₂ , CO &FG temp. at APH inlet & outlet ducts	02	Oxygen $\pm 2\%$ of span CO ± 20 ppm K Type Thermocouples $\pm 0.4\%$
2	Sling psychomotor/Hygrometer	01	± 0.5 Deg C / $\pm 2\%$ RH

12.0 Qualifying requirement:

- 12.1. General Requirement: The applicant should be a registered company in India.
- 12.2. Technical requirement:

SN	Qualifying Requirement	Submission requirement
1.	Applicant to have all instruments specified corresponding to the particular job with valid calibration certificate either owned or through valid tie up	List of instruments with Make, Model and accuracy and last date of calibration. Proof of ownership or tie up.
2.	Agency must have at least one senior personnel with total professional experience of more than 15 year in the relevant field.	CV of senior personnel
3.	Key qualified person with minimum of 5 year experience in the relevant field. Agency should have at least one qualified BEE Auditor.	List of employed persons and qualification and certification on experience. In case of BEE qualified Energy Auditor BEE number

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SN	Qualifying Requirement	Submission requirement
4.	Agency should have completed at least 3 assignments with cumulative value of 20 Lakhs or more during the 3 preceding years as on the last date of submission of application for enlistment. At least one of the assignments should be in a Power Plant of 200 mw and above.	Copy of Purchase order. Proof of work completion.

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13.0 Instruction to Applicants:

- 13.1. Applicable Standard Terms and Conditions (STC) for applications specifically invited vide Notice Inviting Applications under reference CW-C&M- VENDOR ENLISTMENT dated 20.10.2016 for consultancy services group enlistment CSG-01), (CSG-02) and (CSG-03) are contained in STC document reference no. CW-C&M- VENDOR ENLISTMENT /STC Dated 05.10.2016. Applicants should not refer any other STC that may appear in this website.
- 13.2. The purpose of the enlistment is to have a pre bid tie up with experienced agency (ies) in place, which can be used in future assignments to NTPC with a short notice.
- 13.3. Applicants to upload the documents in support of their claim for meeting the qualification requirement. Based on the documents submitted, NTPC will evaluate and enlist the vendors found qualified for the jobs. Subsequent to enlistment, NTPC will invite price bids from the all the qualified applicants for the rate contract.
- 13.4. Evaluation Criteria:
 - a. Applicant will be selected on the basis of lowest price quoted for each of the BOQ items. As such, the process may end up with one or more rate contracts depending upon rates quoted by the applicants.
 - b. The rates quoted by the applicants shall be inclusive of all taxes and duties.
- 13.5. The rates, thus finalized, will be valid for a period of 2 years from the date of agreement and no escalation, what so ever, will be allowed by NTPC during the currency of the rate contracts.

As the rate contract is to be used in future assignments, NTPC does not guarantee any minimum job during the period of rate contract.

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14.0 Bill of Quantity:

<u>Bill of Quantity</u> <u>Performance Testing of Boilers of Various Capacity</u> (PLEASE DO NOT SUBMIT ANY PRICE DATA IN THE BOQ AT THIS STAGE. PRICE TO BE SUBMITTED IN THE STAGE-II BID)			
Sl.No.	Description	Unit of Measurement	Rate. (INR)
1.0	Complete scope as per scope of work above for Coal Power Station Up to and Including 300 MW		
1.1	Zone 1: UP, Haryana, Punjab, Rajasthan, Gujarat	Per Unit	*****
1.1	Zone 2: West Bengal, Odisha, Jharkhand, Bihar	Per Unit	*****
1.1	Zone 3: MP, Maharashtra, Chhattisgarh, AP, Karnataka, Tamilnadu, Telengana	Per Unit	*****
2.0	Complete scope as per scope of work above for Coal Power Station above 300 MW, up to 800 MW		
2.1	Zone 1: UP, Haryana, Punjab, Rajasthan, Gujarat	Per Unit	*****
2.2	Zone 2: West Bengal, Odisha, Jharkhand, Bihar	Per Unit	*****
2.3	Zone 3: MP, Maharashtra, Chhattisgarh, AP, Karnataka, Tamilnadu, Telengana	Per Unit	*****
3.0	Complete scope as per scope of work above for Captive Power Stations including Co-Generation Stations of all sizes		
3.1	Zone 1: UP, Haryana, Punjab, Rajasthan, Gujarat	Per Unit	*****
3.2	Zone 2: West Bengal, Odisha, Jharkhand, Bihar	Per Unit	*****
3.3	Zone 3: MP, Maharashtra, Chhattisgarh, AP, Karnataka, Tamilnadu, Telengana.	Per Unit	*****

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15.0 Qualification details:

15.1. General Requirement: Details of company. (Please enclose a copy of the certificate of incorporation issued by registrar of companies)

15.2. Technical Requirements:

a)	Seeking qualification for	<u>Performance Testing of Boilers</u>
b)	List of instruments with valid calibration certificate.	(please attach a list of instruments relevant to the particular job available along with the details of quantities, make & model, accuracy, ownership details such as owned by the company/available through tie up, accuracy. Enclose copies of calibration certificates)
c)	No of persons with total professional experience of more than 15 years	(Please enclose CVs of all such persons including employment details)
d)	Key qualified persons employed with a minimum of 5 years' experience relevant to the particular job :	(Please enclose list of such persons with details of employment, experience, etc.)
e)	No. of qualified BEE auditors employed.	(Please furnish a detail list with BEE number)
f)	No of energy audits completed in large utilities during the 3 preceding years as on the last date of submission of application for enlistment	(Please give reference to at least 3 such plants including at least one in a power plant of 200MW or above. Also please enclose detail work order and completion certificate from the client for all such reference plants)

Enlistment/ Rate contract for Pre Bid Tie Ups-Stage-I

Clarification No. CSG-02/ 01

Date 06.12.2016

CSG-02: Performance Testing of Boilers of Various Capacity.

SN	Cl. Ref	Document Provisions	Bidder's Query	NTPC Clarification
01	08	Lead Time/Intimation Period: 15 days before start of work	Clause No. 8.0 Lead time/Intimation Period may be increased to one month as calibration of instruments may be required to be arranged during the total contract period of 3 months.	Provisions of the NTPC document shall prevail.
02	10.1(f)	Measurement of O ₂ , CO & Temp of flue gas at APH inlet and outlet simultaneously by grid method (point by point traverse).	Clause No. 10.1(f) Grid Method point by point traverse): Please clarify whether traverse means that one test probe can be used in all the test pockets one by one or test probe for each of the pocket in the flue gas duct before and after APH has to be arranged.	One test probe can be used one by one
03	11.0	Recommended list of instruments:	Clause No. 11.0 Recommended list of Instruments: 3-meter-long sampling probe may not be sufficient for higher capacity boilers for point by point traversing the flue gas duct cross section. As per our experience 10 meter long probe is required for 600MW and above boilers, please clarify.	Specified probe is adequate for the scope

