

NTPC LIMITED

(A Government of India Enterprise)

CORPORATE CONTRACTS, NOIDA

NOTICE INVITING APPLICATIONS (NIA)

FOR

ENLISTMENT OF AGENCIES FOR CONDUCTING PRELIMINARY AND DETAILED GEOTECHNICAL INVESTIGATIONS FOR THERMAL POWER PROJECTS.

Document No.: CS-0011-723-9

1.0 NTPC Limited invites online applications from eligible domestic Agencies for the above-mentioned Enlistment. All the interested applicants may refer the Notice Inviting Applications (NIA) and application forms along with Schedules to be submitted along with application at the link <https://vendor.ntpc.co.in/content/media/file/CCG-05.pdf>

The System shall remain opened for period 30.11.21-21.12.21 for initial enlistment process and for future, details shall be as mentioned in the NIA documents. All the Terms and conditions, process and link for applications are mentioned in the NIA. Link for application is <https://vendor.ntpc.co.in/ContractEnlistment> to apply for enlistment as per Qualifying requirements.

2.0 Brief Scope of work are as follows:

A) Requirement of geotechnical investigation

- 1) Geotechnical investigation may be either on land or in water body (i.e. in River / sea) and would be carried out in stages, as preliminary, detailed and in few cases during construction or post construction.
- 2) Preliminary geotechnical investigation data is a pre-requisite for the preparation of FR.
- 3) Detailed geotechnical investigation data is a pre-requisite for finalization of FSCs for main plant & offsite civil works package, site levelling & infrastructure works package, ash dyke package, turnkey packages like coal handling plant (CHP), cooling waters, CW & Makeup water system, DM & PT plant, Switchyard, township and other plant & associated facilities.
- 4) Based on the inputs from preliminary / detailed geotechnical investigation, type of foundation system for main plant and offsite structures, turnkey packages, township, is finalized. In case of pile foundations, the pile design & termination criteria of piles are fixed.

- 5) Offshore investigation (in river / sea) is also required to be done for the design of intake well/ arrangement and approach to the intake. Based on the investigation data, termination criteria of intake well/ well foundation is arrived at. The data is also used to estimate depth of scour.

B) Scope of preliminary/ detailed geotechnical investigation work

- 1) Boring in soil and drilling in rock (where rock is encountered) in plant area, ash disposal area, township area, make up water pipe line corridor, ash pipe corridor, intake well and approach walk way, etc.
- 2) Conducting Field tests like Standard Penetration Test (SPT) in boreholes, Plate Load Test (PLT), Seismic Refraction Test (SRT), Cross hole seismic test (CST), Electrical Resistivity Test (ERT), Pressuremeter Test (PMT), Static Cone Penetration Test (SCPT), Dynamic Cone Penetration Test (DCPT), Permeability Tests, Percolation test, Trial Pits, Vane Shear Tests, etc.
- 3) Laboratory tests on soil, rock & ground water samples to evaluate physical, engineering and chemical properties.

3.0 The Enlistment Documents will be available as per following schedule or schedule as mentioned at the portal for initial enlistment:

Start date for submission of Application	30.11.2021
Last date for submission of Queries	05.12.2021
Last date for submission of application*	21.12.2021
Cost of Enlistment Documents	NIL

* No Queries from applicants, whatsoever, shall be entertained by the Employer beyond the last date of receipt of Queries as specified above.

Employer may change Dates and same shall be reflected at the portal shall be applicable for all the applicants.

4.0 Qualifying Requirement for Enlistment

Applicant who wishes to participate in the enlistment shall satisfactorily establish that it fulfills the qualifying requirements stipulated at Annexure-A to NIA.

5.0 Subsequent to Enlistment, only the Enlisted Agencies will be invited to submit bids in respect of specific enquiry of Corporate Centre / Regional Head Quarters/Projects for Conducting Preliminary and Detailed Geotechnical Investigations for Thermal Power Projects till the time enlistment is valid.

- 6.0** NTPC reserves the right to reject any or all applications or cancel/withdraw the 'Notice Inviting Applications' without assigning any reasons whatsoever and in such case no Applicant or intending Applicant shall have any claim arising out of such action. NTPC shall also have the right to verify any information/document furnished by the Applicant/Agency/Company/Firm and inspect the works carried out by the Applicant/Agency/Company/Firm, if so required.
- 7.0** Applicants who respond within due date with application as mentioned above against this advertisement will only be considered for Enlistment. Application for enlistment shall be invited through online mode only at the portal at <https://vendor.ntpc.co.in/ContractEnlistment>.
- 8.0** Issuance of Enlistment Documents to any Applicant shall not construe that such Applicant is considered to be qualified. The Applicant shall bear all costs incurred in the preparation and submission of the application and other actions implied. NTPC shall not be responsible or liable for such costs, regardless of the outcome of the Enlistment process.
- 9.0** Address for communication:

Sr Manager (CS-P&S) / AGM (CS-P&S)
NTPC LIMITED.
6th Floor, Engineering Office Complex,
Plot No.A-8A, Sector -24, Noida – 201 301
Distt. Gautam Budh Nagar, State of U.P., INDIA,

Mobile- 9771440920

Phone Nos: 0120-4948687 / 0120-4946675

Email: ravikumar04@ntpc.co.in , neerajkumar02@ntpc.co.in

Websites: <https://eprocurerntpc.nic.in/nicgep/app> or <https://ntpctender.ntpc.co.in/> or www.ntpc.co.in

Qualifying Requirements for
Enlistment of agencies for conducting Preliminary and Detailed
Geotechnical Investigations for Thermal Power Projects

Applicant who wishes to participate in the enlistment shall satisfactorily establish that it fulfills the qualifying requirements stipulated hereunder:

1.0 Technical Criteria

1.1 The Applicant should have executed within the preceding seven (7) years reckoned as on last date notified for receipt of application, geotechnical investigation works achieving therein the following progress of work:

(i) Boring of at least 1000m in soil in any one (1) month in one (1) or more concurrently running contracts

And

(ii) Drilling of at least 450m in rock in any one (1) month in one (1) or more concurrently running contracts.

1.2 The Applicant should have executed at least one (1) geotechnical investigation work in water body like in river/ sea/ submergence of dam/reservoir/creek/ back waters, etc., within the preceding seven (7) years reckoned as on last date notified for receipt of application.

1.3 The Applicant should have the following manpower on its regular pay roll for minimum one year period reckoned as on last date notified for receipt of application,

1.3.1 At least two (2) qualified geotechnical engineers with PhD/ M.Tech. / M.E. / M.S. degree in Geotechnical Engineering and having minimum five (5) years work experience in the area of geotechnical investigation.

OR

1.3.2 At least one (1) qualified geotechnical engineer with PhD / M.Tech. / M.E. / M.S. degree in Geotechnical Engineering and having minimum five (5) years work experience in the area of geotechnical investigation and one (1) qualified engineering geologist with M.S. / M.Sc. degree in Geology/Engineering Geology, having minimum five (5) years work experience in the area of geotechnical investigation.

1.4 The Applicant should own the following equipment / test setup / facility:

1.4.1 Rotary boring rigs - Five (5) Nos.

1.4.2 Hydraulic feed rotary core drilling rigs -Two (2) Nos.

1.4.3 Seismic Refraction Test setup - One (1) No.

- 1.4.4 Pressure meter test set up capable to apply pressure up to 80 kg/sq.cm - One (1) No.
- 1.4.5 Laboratory set up equipped for testing the physical, engineering and chemical properties of soil and rock.

2.0 Financial Criteria

2.1 The average annual turnover of the Applicant in the preceding three (3) financial years as on the last date notified for receipt of application, should not be less than Rs. 20 millions (Indian Rupees Twenty million only).

3.0 Notwithstanding anything stated above, the Employer reserves the right to assess the capabilities and capacity of the Applicant /subcontractor/ group companies to perform the contract, should the circumstances warrant such assessment in the overall interest of the Employer.

Notes for clause 1.1 above:

- i) If the qualifying work is completed in the last seven (7) years period specified above, even if it has started earlier, the same will also be considered as meeting the qualifying requirements.
- ii) The word "executed" means the Applicant should have achieved the progress specified in the QR even if the contract is not completed / closed.
- iii) For concurrent works the same month shall be considered.

Notes for clause 1.4 above:

- i. As specified at Clause 1.4.1 and 1.4.2, applicant should own 5 nos. rotary boring rigs and 2 nos. hydraulic feed rotary core drilling rigs. In case Applicant owns less than specified 5 nos. rotary boring rigs but owns additional equivalent nos. of hydraulic feed rotary core drilling rigs (over & above the specified 2 nos.), he would be considered meeting the qualifying requirement. However, he should own not less than 2 nos. hydraulic feed rotary core drilling rigs as specified.
- ii. In case the Applicant does not own the test set up mentioned at 1.4.3 and 1.4.4, then tie up with a reputed institution shall be permitted. Applicant shall submit the agreement document in the form of joint agreement or MOU in appropriate legally enforceable form along with the application.

Notes for Project title:

The word "Thermal" shall mean coal based/ gas based/ non-conventional projects.