

TENUGHAT VIDYUT NIGAM LIMITED  
(A GOVT. OF JHARKHAND UNDERTAKING)  
HINOO, DORANDA, RANCHI-834002  
TELE: 0651- 2253841 , 2252160, 2252164

Website: [www.tvnl.in](http://www.tvnl.in)

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**NIT No. - 52/TM/W/TVNL/RAN /2022-23**

**Due on - 08-02-2023 at 12:00 Hrs**

**SRM RFx No. - 1000007705**



## **TENDER DOCUMENT**

**SUBJECT: Annual maintenance contract (AMC) for running maintenance and short breakdown maintenance works in Turbine & its auxiliaries of 2x210MW units at TTPS, Lalpania for two year period.**



# TENUGHAT VIDYUT NIGAM LIMITED

तेनुघाट विद्युत निगम लिमिटेड  
(A GOVT. OF JHARKHAND UNDERTAKING)  
HINOO, DORANDA, RANCHI-834002, JHARKHAND

Ref No. 1212/22-23

Dated 17 -01-2023

**NOTICE INVITING TENDER**  
**NIT NO- 52/TM/W/TVNL/RAN/2022- 23**  
**SRM RFx No. - 100007705**

For and on behalf of TENUGHAT VIDYUT NIGAM LIMITED (TVNL), Ranchi tenders in two parts (Part-I Technical & Commercial Bid, Part-II Price Bid to be submitted in TVNL Website Only) (A-Requisite cost of Tender Document & Earnest Money of specific value to be submitted to TVNL, contact person well before submission deadline, B-Technical & Commercial) are invited online through SAP-SRM,TVNL website: [webdispatcher.tvnl.in/srmprd](http://webdispatcher.tvnl.in/srmprd) from experienced, reputed and financially sound firms for Annual maintenance contract (AMC) for running maintenance and short breakdown maintenance works in Turbine & its auxiliaries of 2x210MW units at TTPS, Lalpania, Dist. Bokaro, Jharkhand, the details of which are as follows:-

Description of Work	Annual maintenance contract (AMC) for running maintenance and short breakdown maintenance works in Turbine & its auxiliaries of 2x210MW units at TTPS, Lalpania for two year period.
Estimated Cost (Rs.) For Two Year Period	Rs. 1,76,22,712.80 ( One Crore seventy six lakh twenty two thousand seven hundred twelve and paise eighty) only plus GST as applicable.
Cost of Tender Documents to be deposited only through payment gateway link in TVNL website (Non Refundable)	Rs. 15,000/- (Rupees Fifteen thousand) only.
Amount of EM to be deposited in the form BG or to be deposited in TVNL payment gateway only	Rs. 3,52,500.00 (Rupees Three Lakh fifty two thousand five hundred) only.
Downloading of Tender Paper from TVNL website	From <b>17-01-2023</b>
Last Date & Time for receipt of Tender Paper	<b>08-02-2023</b> , up to 12:00 Hrs.
Date & Time of Opening of Part-I of Tender	<b>08-02-2023</b> , at 13:00 Hrs.
Place of submission of bid documents and address for communication	Electrical Superintending Engineer (C&M), Tenughat Vidyut Nigam Limited, Hinoo, Ranchi-834002.

**1. The bidder should have the following Qualifying Requirements (QR)**

**A. Technical Qualifying Requirements :-**

- The bidder should have executed the work of maintenance/overhauling related to Turbine Maintenance and its auxiliaries in thermal power Plant of capacity not less than 210 MW in any Govt./ Semi Govt. / CPSU/SPSU/ SEB's/ Reputed private organization.
- The bidder should have experience of having successfully completed similar work during last seven years ending last day of month previous to the one in which application are invited. Bidder has to submit copy of work order with work completion certificate. The successful completed similar work shall be either of the following:
  - Three similar completed works each costing not less than the amount equal to 40% of the estimated cost. OR
  - Two similar completed works each costing not less than the amount equal to 50% of the estimated cost. OR
  - One similar completed work costing not less than the amount equal to 80% of the estimated cost.

Similar order means, the bidder must have executed the work of maintenance/overhauling related to Turbine Maintenance and its auxiliaries in thermal power Plant of capacity not less than 210 MW of any Govt./ Semi Govt. / CPSU/SPSU/ SEB's/ Reputed private organization.

- The bidder should have valid Employee Provident Fund code no., GST registration certificate and ESI Registration on their firm name.
- Bidder has to submit a self declaration that the agency has not been blacklisted from any Govt/Semi Govt./CPSUs/SPSUs/SEB's/ Reputed Private company at the time of bid submission.

## **B. Financial Qualification requirements :-**

- a. The average annual financial turnover of bidder during the last 03 (three) years, ending 31st March 2022 should be at least 30% of the estimated cost. The bidder should submit authenticated copies of Profit & Loss and Balance sheet of last three financial years. In case where audited results for the last financial year are not available, certification of financial statements from a practicing Chartered Accountant shall also be considered.
  - b. The bidder should have financial credibility /capacity of at least 10% of the estimated cost. Bidder may submit Bank Solvency Certificate issued within current financial year, of any Indian Nationalized/Scheduled Commercial Bank in support of their financial credibility /capacity.
2. The tender document is to be downloaded from the TVNL [www.tvnl.in](http://www.tvnl.in) / [www.jharkhand.gov.in](http://www.jharkhand.gov.in) . Tenders will have to be submitted in TVNL Web Portal only website <http://webdispatcher.tvnl.in/srmprd>. For easy reference “Vendor Bidding Manual for Open Tender” can be downloaded/viewed from the TVNL website homepage ([https://tvnl.in/pdf/TVNL\\_Vendor\\_Manual\\_for\\_Open\\_Tender.pdf](https://tvnl.in/pdf/TVNL_Vendor_Manual_for_Open_Tender.pdf) ).
  3. After advertisement of NIT, intended bidder who do not have TVNL Bidder/ Vendor ID, will first communicate with TVNL contact person Mr Ramkinkar Prasad, EEE(C&M-III) during office hours for this aforesaid NIT only, on his Mobile No-9031051140 and send their firm details well before the submission deadline like Name, address, email, phone nos. and brief company’s credentials also company’s contact person name, email, Mobile no. may be sent in email ID: [rk.prasad@tvnl.in](mailto:rk.prasad@tvnl.in) or [ramkinkar21@gmail.com](mailto:ramkinkar21@gmail.com) so that login ID & password can be created in SRM-SAP which will be sent to bidders contact person email. Bidder contact person has to register at TVNL web portal: <http://webdispatcher.tvnl.in/srmprd> with the given ID & password.
  4. The **cost of tender document** and the Earnest Money shall be deposited well before the submission deadline and has to be **deposited only through payment gateway link in TVNL website. (DD will not be acceptable).** The copy of the transaction ID or receipt may be submitted to TVNL contact person in person or by mail so that the contact person will allow access to open the RFx details and initiate bidding at TVNL website and attach the details of Part-I.
  5. Bidder have to fill as well as attach scanned copies of the related documents to qualify in the part-I (Technical & commercial) on TVNL web portal: <http://webdispatcher.tvnl.in/srmprd> failing which the bid may be rejected. Bidder may submit the hardcopy of bid part-I (Technical & commercial) to the ESE(C&M), TVNL, Ranchi office along with the details of paid cost of tender document and paid or BG of Earnest money deposit (EMD).
  6. Bidder have to bid for part-II (Price part) on TVNL web portal: <http://webdispatcher.tvnl.in/srmprd> only **Price Part is not to be submitted in Hard copy** ( in sealed envelope).
  7. Bidder will not get access to bidding in SRM-SAP without providing the cost of tender document. Any type of tempering/alteration with tender document shall not be allowed and offer, if submitted so, will be summarily rejected.
  8. Tender without Earnest Money shall not be considered. Cost of tender document and earnest money deposit (EMD) of requisite value as specified above is to be deposited well before submission deadline. EMD may be furnished in the form of Bank Guarantee in required format from any Indian Nationalized Bank/ Schedule Commercial Bank in favour of “TENUGHAT VIDYUT NIGAM LIMITED” payable at Ranchi. The Bank Guarantee should remain valid for 12 months. In case BG is to be submitted against Earnest money deposit (EMD) it is to be submitted to TVNL contact person in a separate envelope so that the contact person will enter the BG details against EMD in the respective RFx well before the submission deadline, failing which offers are liable for rejection.
  9. The earnest money will be forfeited on revocation of tender before expiry of validity of the tender or on refusal to enter into the contract after the award is made by TVNL to the bidder.
  10. Any corrigendum/Addendum/Extension of bid opening date and cancellation of NIT will be published through our website [www.tvnl.in](http://www.tvnl.in) only and not through newspaper. The bidders are requested to visit our website regularly for any addendum/corrigendum/extension till opening of NIT.
  11. The due date of bid opening as mentioned in the tender will remain firm. However, in case of unforeseen circumstances or due to administrative reasons the bids are not opened on the due date, the same shall be opened on the next working day at the same time. In case the last date of submission of bids is declared as holiday, the bids received up to the time of closing of bids on the next working day shall be considered for opening.
  12. TVNL reserves the right to reject any / all offer increase/decrease or to distribute the quantity among the bidders without assigning any reason thereof.

Sd/-  
(Rajesh Ranjan)  
Electrical Superintending Engineer (C&M)

**TENUGHAT VIDYUT NIGAM LIMITED**  
HINOO, DORANDA, RANCHI-834002

**BILL OF QUANTITY**

**PART- I (TECHNICAL& COMMERCIAL)**

**NIT NO- 52/TM/W/TVNL/RAN/2022- 23**  
**SRM RFx No. - 1000007705**

**Sub: Annual maintenance contract (AMC) for running maintenance and short breakdown maintenance works in Turbine & its auxiliaries of 2x210MW units at TTPS, Lalpania for two year period.**

S.N.	Particulars	Details to be furnished by the Bidder (Enclose separate sheets if required)	Flag No.	Page No.
1.	Name of the Bidder (Enclose Letter Head of firm)		I	
2.	Address of Bidder with Telephone, Fax, E-mail		II	
3.	Nature of Firm (Proprietorship/Partnership /Pvt. Ltd./Public Sector) <b>(Attach proof)</b>		III	
4.	Name of the Proprietor/ Head of the Firm and its key personnel with organizational chart giving details of qualification and experience etc.		IV	
5.	Whether the firm are registered with NSIC/MSEs/SSI(Jharkhand)/ (enclose copy of certificate)		V	
6.	Work Experience of Bidder (Attach copy of work order of similar work and its successful completion certificate during last seven years as per Sl. No. 1.c of QR)	Work Order No..... Dated..... Completion Certificate Dated..... Work Order No..... Dated..... Completion Certificate Dated..... Work Order No..... Dated..... Completion Certificate Dated.....	VI	
7.	Financial Credibility/ Capacity (Attach Bank Solvency Certificate)		VII	
8.	Average annual financial turnover of bidder during the last 03 years (Attach audited Balance Sheet & P/L Account for last three years ending 31 <sup>st</sup> March, 2022 are essential)	Average annual financial turnover of bidder during the last 03 (three) years Rs..... Annual Turnover FY 2021-22: Rs.....  FY 2020-21: Rs.....  FY 2019-20 : Rs.....	VIII	
9.	Name & Designation of Authorized Signatory (Attach Power of Attorney if applicable)		IX	
10.	Name and Qualification of the site-in-charge		X	

11.	Permanent Account Number (PAN) (Attach proof)		XI	
12.	Goods and Services Tax Registration Number (GSTIN) (Attach proof)		XII	
13.	Labour License No. <b>(Attach copy of registration)</b>		XIII	
14.	Particulars of Earnest Money (Txn. receipt /BG No. & Date)		XIV	
15.	Particulars of Cost of Tender Document( BOQ) (Txn. receipt & Date)		XV	
16.	EPF. Code No. <b>(Attach copy of registration)</b>		XVI	
17.	ESI Registration No. <b>(Attach copy of registration)</b>		XVII	
18.	Payment Terms	<b>Whether you are accepting our payment terms clause at Sl.no.12 of GTC? Yes / No</b>	XVIII	
19.	Validity period of the offer (minimum 180 days )		XIX	
20.	Whether you will deposit Security Money. If not reasons thereof with documentary proof of exemption:		XX	
21.	Whether you will furnish the Performance Guarantee		XXI	
22.	Do you fulfill the pre-requisite qualification?		XXII	
23.	Whether you accept all term & conditions of B.O.Q.		XXIII	
24.	Details required for ERP Vendor Coding:- a. Name of firm : b. Address : PIN: c. E-mail ID : d. Phone No. : e. Name of Contact Person: f. TIN No : g. CST No. : h. GSTIN No :		XXIV	

	i. PAN No : Details required for EMD Refund through RTGS/NEFT : j. Bank Name : k. Branch : l. Branch Code : m. A/c. No. : n. IFS Code : o. MICR Code :			
25.	Any extra information		XXV	

(Signature & Seal of Bidder)

**TENUGHAT VIDYUT NIGAM LIMITED**  
HINOO, DORANDA, RANCHI-834002

**NIT NO- 52/TM/W/TVNL/RAN/2022- 23**  
**SRM RFx No. - 100007705**

**Sub: Annual maintenance contract (AMC) for running maintenance and short breakdown maintenance works in Turbine & its auxiliaries of 2x210MW units at TTPS, Lalpania for two year period.**

**GENERAL INSTRUCTIONS TO BIDDERS**

1. The tender document is to be downloaded from the TVNL website [www.tvnlonline.com](http://www.tvnlonline.com). Tenders will have to be submitted in TVNL Web Portal only with Login URL: <http://webdispatcher.tvnl.in/srmpnd>. For easy reference “Vendor Bidding Manual for Open Tender” can be downloaded from the TVNL website homepage.
2. First time bidder will first communicate with TVNL contact person during office hours with their firm details well before the submission deadline like Name, address, email, phone nos. and company’s contact person name, email, Mobile no. may be sent in email ID: [rk.prasad@tvnl.in](mailto:rk.prasad@tvnl.in) or [ramkinkar21@gmail.com](mailto:ramkinkar21@gmail.com), so that login ID & password can be created in SRM-SAP which will be sent to bidders contact person email. Bidder contact person has to register at TVNL web portal: <http://webdispatcher.tvnl.in/srmpnd> with the given ID & password.
3. The cost of tender document shall have to be deposited through payment gateway link provided in TVNL website which is Non Refundable. Detail regarding the Transaction has to submitted to TVNL contact person, in person enclosed with a letter or by email giving detail of Rfx no. tender name in which the bidder has register and wish to participate. The contact person will allow access to open the Rfx details and initiate bidding at TVNL website and attach the details of Part-I. **Bidder will not get access to bidding in SRM-SAP without providing the detail of cost of tender document and Earnest money deposit (EMD) deposited.**
4. The bidder has to submit in sealed envelope hardcopy of all the enclosures uploaded of bid part-I (Technical & commercial) to ESE(C&M-I), TVNL, Ranchi office along with the copy of Txn. Slip of cost of tender document and Txn. Slip / BG of Earnest money deposit (EMD) should submitted personally or sent by Registered Post / Speed Post. The NIT no., bid due date, details of cost of Tender and earnest money deposit (EMD) should be super scribed on the envelope if details are sent by Post.

**[Bidder have to bid for part-II \(Price part\) on TVNL web portal:  
http://webdispatcher.tvnl.in/srmpnd only.](http://webdispatcher.tvnl.in/srmpnd)**

**Price Part is not to be submitted in Hard copy.**

5. Offers shall be accompanied with details of earnest money deposit (EMD) of requisite value as specified failing which offers are liable for rejection.  
EMD may be furnished in any of the following forms:-
  - (a) Through payment gateway link provided in TVNL website. (DD will not be acceptable).
  - (b) Bank Guarantee from a Nationalized bank/Schedule commercial bank irrevocable & operative till 30 days after the validity of the offer or extended validity of the offer.
  - (c) The earnest money will be forfeited on revocation of tender before expiry of validity of the tender or on refusal to enter into the contract after the award is made by TVNL to the tenderer.

Tenders without Earnest Money shall not be considered other than NSIC/SSI registered and Jharkhand registered MSEs firms. Jharkhand registered Non MSE firms will get 50% concession in EMD. A copy of such registration/ license/certificate as per MSME act has to be furnished for claiming exemption/concession in EMD.

**6. Validity of Offer:** The bid submitted by the bidders should remain valid for a minimum period of 180 days from the date of opening of Part-I unless otherwise specified.

**7. Late Receipt of the Tender:** Special attention of the bidder is invited about the receipt of the online bids in time. Bids received after the stipulated date and time due to any reason, whatsoever, shall not be considered.

**8. Inspection of Site:** Before quoting the rate, bidders are advised to visit the work site and get satisfied with scope of work for which rates are to be quoted. Engineer -in -charge may be consulted for any clarification regarding scope of work and terms of tender. Bidder should go through the terms and conditions and technical specification of work carefully and sign in all pages of the tender document.

**9. Instruction to Bidder:**

- a. Bidders are advised to submit their bids strictly based on the scope of work, terms and conditions contained in the bid document and subsequent revisions/amendments, if any. The bid should be submitted along with covering letter.
- b. The bid shall be prepared and submitted by typing or printing in English on white paper in consecutively numbered pages duly signed by the authorized signatory with company seal affixed on each page. Any part of the bid, which is not specifically signed by the authorized signatory and not affixed with company seal, may not be considered for the purpose of evaluation.
- c. Copy of bid document, amendments/revisions to bid document if any, shall be signed and submitted along with the bid.
- d. Complete bid document including all enclosures should preferably be submitted in hard bond or spiral



binding and all pages should be numbered and must be signed by the authorized signatory with seal of the company.

**e.** A copy of “**Part-I (Techno-commercial Bid)**” must be submitted in hard copy by speed / registered post or by hand with, Name and address of the bidding firm, NIT no. super-scribed and should be addressed to ESE (C&M), Tenughat Vidyut Nigam Limited, Hinoo, Ranchi-834002. The **bid submission deadline is only valid** for submitting your price bid and all the documents in TVNL SRM online web portal.

**f.** The **Part-II (Price Bid) has to be** bid in TVNL website: <http://webdispatcher.tvnl.in/srmpred> only.

**g.** The envelope containing Part-I (Techno-commercial Bid should be super scribed with NIT No., Name and address of the bidding firm, and should be addressed to ESE (C&M-I), Tenughat Vidyut Nigam Limited, Hinoo, Ranchi-834002. Complete tender or tenders not submitted as per requirement as indicated in the NIT are likely to be rejected.

**h.** Bidders shall submit their offer strictly as per terms and conditions of the tender document without any deviation. If at any time any of the documents/information submitted by the bidder is found to be incorrect, false or untruthful, the bid and/or the resultant order may be summarily rejected/ cancelled at the risk of the bidder.

**10.** Failure to furnish all information and documentary evidence as stipulated in the bid document or submission of an offer that is not substantially responsive to the bid in all respects shall be summarily rejected.

**11. Security Deposit:** The successful bidder shall have to deposit total security deposit @ **10%** of order value as performance guarantee in which initial security money @ **5%** of the order value (including earnest money deposited along with tender) before executing the agreement, balance **5%** of security money will be deducted from R/A bills. The security money will be released after successful completion of work and closure of contract. Initial security money will be accepted as Bank Draft/ Bank Guarantee in the prescribed format.

**12. Payment Terms:** The Contractor shall submit bill in triplicate for work done to the Engineer - in - charge, which will be verified by Engineer - in - Charge and department will make payment to the contractor subject to availability of fund. No interest will be paid in case of delay in any payment.. The contractor shall produce documentary evidence in support of deposit of EPF, ESI premium deposits & GST before release of payment.

**13. Paying Authority:** The Accounts Officer, TTPS, Lalpania will be the Paying Authority.

**14. Engineer-in-Charge:** EEE(TM) will be the Engineer-in-Charge for this work. The works are to be executed as per direction of Engineer-in-Charge. Anything not mentioned here in shall be decided by the in charge of the work and shall be binding on the contractor.

**15. Idle Charges:** No charges for idle men, machine, plant and equipment will be allowed to agency for some reason or the other beyond control of the department.

**16. Safety Measures:** TVNL has a zero-tolerance policy on adherence to Safety norms. The Contractor shall have to observe all the safety measures. The contractor has to make all the employees aware of risk involved in the work. The contractor shall provide all safety appliances, tools and equipments to the workmen and supervisor at contractors cost and ensure that those items are used by all staff while working and on whole duty period. Name of such important personal protective equipments (PPE) are given below: -

i. Asbestos hand gloves, Apron Asbestos cloths etc.

ii. Rubber & Leather hand gloves,

iii. Safety shoes for all types of works,

iv. Safety belts and hooks,

v. Helmets, Ear muffs, Safety goggles, Nose muffs etc.

vi. Any other items related to safety rules may be assumed in contractor's scope.

If workers employed by the contractor found not using PPE a recovery will be made at the rate of Rs. 50/- per worker per day per occasion. Any compensation payable to your employee in the event of accident or casualty has to be borne by you and Nigam will not be responsible on this account in any case. In case of any damage due to negligence mishandling and mal operation by the staff of contractor, the damage would be made good by the contractor at his/own own cost. In case of non-compliance, proportionate deduction will be made from the bills of the contractor. Any compensation payable to the Contractor's employee in the event of accident or causality has to borne by the Contractor himself and TVNL will not be responsible on these accounts in any way.

#### **17. GENERAL TERMS & CONDITIONS**

**a. Scope of the work:** Scope of the work is detailed in BOQ to execute the work. However contractor has to execute all the work as per direction of Engineer-in-Charge for proper working of equipments.

**b. Labour Laws:** The bidder has to follow the guidelines laid under the labour law, workmen compensation, and EPF rules in respect of minimum wages, EPF payment, ESI registration of all its employees and monthly/Yearly premium payment as per the guidelines of State Labour Deptt. and other service conditions. In the event of any accident / casualty to the employees of contractor, the compensation payable to the employees is to be borne by the contractor and TVNL will not be responsible in any way.

**c. Minimum Wage Guarantee:** The contractor shall strictly ensure that the minimum wages as stipulated by GoJ from time to time is paid to their workmen. Any increase in minimum wages during the period of contract, will have to be paid to their workmen without any claim on TTPS/TVNL. If the contractor fails to comply with guarantee of minimum wages then the agreement is liable to be terminated and security money may be forfeited.

**d. Taxes:** All statutory taxes as applicable shall be deducted from bill of contractor.

**e. Violation of Terms & Conditions of Tender:** All terms and conditions of tender shall form a part of the



contract. If contractor fails to execute the work up to entire satisfaction of Engineer -in -Charge as per terms & conditions of tender, then the contract agreement can be terminated on one month prior notice and security money shall be forfeited.

- f. Subletting:** The successful bidder will have to execute the work directly. No subletting will be allowed.
- g. Man Power:** A list of manpower arranged by the contractor should be submitted to Engineer -in -Charge of the work before deployment and same should be deployed with due permission of Engineer -in -Charge. If the performance of the deployed person is not found up to the mark at any time, the contractor will have to replace them with experience and suitable person. During the period of absence of contractors personnel TVNL will have right to deduct penalty from contractor's bill.
- h. Tools & Tackles:** The contractor should have to arrange minimum of minor and special tools & tackles as per scope of work whereas heavy tools like hydra crane will be arranged by TTPS if available as per request of contractor. Contractor will arrange standard make tools after getting approval from EIC. Contractor will arrange welding M/C, gas cutting set etc to carry out any mechanical work in maintenance of field instruments as and when required. The entry of tools and tackles inside the power house should be verified by the CISF and should match with the requirement. Pro-rata deduction will be made if any mismatch is found.
- i. Consumables:** The contractor has to provide all consumables like gas, electrodes, cotton waste, markin cloth, Rustolin, K-Oil, Petrol/Diesel and abrasive materials at their own cost, if required and applicable. Other consumables like gaskets, gland packing, asbestos rope, 'O' ring etc. shall be supplied by TTPS/TVNL free of cost, if applicable. The entry of consumables inside the power house should be verified by the CISF and should match with the requirement. Pro-rata deduction will be made if any mismatch is found.
- j. Site Cleaning:** The Contractor must keep clean the working area after completion of the job. Waste materials and garbage shall be disposed off by the contractor at suitable place as per the instruction of the Engineer-in-Charge. Old unserviceable spare parts if so, has to be returned by the contractor to the Central Store/Site Store of TTPS as per the instruction of the Engineer-in-Charge.
- k. Facilities to be provided by TVNL:**
  - a.** Special T&P, jigs and fixtures, which are supplied by the OEM or procured by the TVNL shall be supplied as required.
  - b.** Closed space nearest to work spot for storing of our T&P and a room for office.
  - c.** Service water, Electricity and compressed Air nearest to work spot.
  - d.** E.O.T crane as and when required.
  - e.** Guest house facility shall be provided to the visiting engineers/officers of the Contractor on chargeable basis if available.
  - f.** Unfurnished accommodation may be provided to the employees of the Contractor, if available during the period of execution of work in TTPS Township on rental basis as per departmental rule.
  - g.** Medical facility as available at project site shall also be extended to the employee of the contractor. No payment will be made for any medicine purchased from outside or any treatment or test done outside the TTPS Hospital.
- l. Working Administration:** In general working hours of the TTPS employee will be the working hours of employee of Contractor. However in case of emergency or as per requirement of the job, contractor's employees will be required to work beyond working hours and also on rest days and holidays on the direction of Engineer -in -Charge. Employees deployed by the contractor will be under the operational control of Engineer -in -charge. In case of any employee working in shift/general duty falling sick or proceeding on leave the facts shall be brought to the knowledge of Engineer -in -Charge and deficit will be made by the contractor either by the existing staff by performing overtime duty or getting other manpower without adding any additional cost to the Project. It shall be binding on contractor that it does not directly or through its personnel divulge the secrecy of the establishment of TTPS. Any person deployed by contractor will not be a member of any trade union operating in the TTPS Projects establishment or outside. They will not take part in any strike or sympathized with any such movement. No employee should be aged below 21 years and age shall be mentioned in the identity card. The agency shall ensure that no unauthorized persons create any nuisance, disturbance, theft or pilferage of TVNL property or unauthorized transportation. The agency shall apprehend culprit and bring it to the notice of authorities of TVNL. If directed, the agency shall hand over them to local police authorities and follow - up the cases with police authorities on behalf of the TVNL Management and keep a close liaison with local police authorities for follow up action.
- m. Penalty:** In case of any breakdown, fault or emergency maintenance, the contractor has to attend the same without any delay. In case of failing or deliberated neglect, the work will be carried out through outside agency at the cost & risk of the contractor and this may be liable for termination of their contract.
- n. Departmental Facilities:** In case of major repair of equipments and testing of special equipments contractor should have to provide services of an expert from manufacturer and special tools & tackles. The contractor will also provide all other technical staffs and T&P's consumables etc free of cost. However, all spares parts shall be provided by TVNL on free of cost.
- o. Transportation:** Successful bidder will be required to arrange his own conveyance for their employee for attending their duties. However, in case of emergency call during night, transport available may be provided by TTPS.
- p. Mobilization Time:** The successful bidder will be given maximum 10 days time from the date of

Information for mobilization of resources, manpower and starting the work. The contractor failing to enter into agreement within 30 days of receipt of Work order and if fails to start the work within 10 days from the date of written information of Unit shutdown will lose the work order and earnest money/security money and work will be allotted to L2, L3.....bidder if they agree.

- 18. Agreement:** The firm or his legally authorized representative having Power of Attorney will have to execute an agreement with the ordering authority within **30** days of issue of order in the event of placement of order on them. The agreement will have to be prepared on a non-judicial stamp paper of Rs.100/- on Nigam's format. Bank Guarantee against Security Deposit, Performance Guarantee etc. as per order will have to be furnished well before execution of agreement. The contractor is required to produce all original paper and documents for verification before agreement failing which order will be cancelled. Contractor will not be allowed to start the work without executing the agreement.
- 19. Jurisdiction of Court:** Any dispute between the Contractor and TVNL shall be settled in the civil court, at Ranchi, Jharkhand only.
- 20. Competent Authority:** Managing Director TVNL reserves the right to extend the due date and to reject any/ all the tenders or to increase / reduce/ distribute the quantity of tender without assigning any reason thereof and not bound to accept the lowest tender or to assign any reason for the rejection of the lowest tender. During the execution of work in case of any dispute between the Engineer-in -Charge and contractor, the decision of GM-cum-CE, Tenughat TPS will be final and binding.
- 21. Variation of quantities of work:** The contract price is based on the units rates and the quantities of items stipulated in the contract. The contract price may undergo corresponding change, if the work orders for change in quantities of items during execution of work. However, the units rates indicated in price schedules shall remain firm and shall not be subject to any escalation whatsoever.
- 22. Extension of Contract :** If found satisfactory the contract may be extended for further period agreed mutually on same rate, terms and conditions however the only applicable VDA declared by the GOJ after the completion of the contract period with overhead at the rate of 35.94% (EPF, Bonus, ESI & contractor's profit) will be enhanced in the contract monthly value on production of documentary evidence and on due initiation of PR by E-I-C and after approval of competent authority.
- 23. Liquidated Damages for Delay in Completion:** In case of any delay in the execution of the work beyond the stipulated date of completion/ Completion schedule including any extension permitted in writing, TVNL reserves right to recover from the agency a sum equivalent to 0.5% of the value of the delay work for each week of delay and part thereof subject to a maximum of 5% of the total value of the work.

(Signature & Seal of Bidder)

**Sub: Annual maintenance contract (AMC) for running maintenance and short breakdown maintenance works in Turbine & its auxiliaries of 2x210MW units at TTPS, Lalpania for two year period.**

### **SCOPE OF WORK**

#### **General Works:-**

#### **A. Routine Mechanical Maintenance Jobs of Main Turbine and Turbine auxiliaries system:-**

1. Cleaning of oil filters of main governing rack, LP bypass governing rack , filters of oil trench, filters of fire protection system ,thrust bearing filters and filters of seal oil system .
2. Checking of oil pressure /flow and oil leakages from the system (if any) from the lub. oil system of Seal system of generator, turbine bearings, turbine governing, LP bypass governing and top up of the lubricants if required.
3. Cleaning of lub. oil filters of BFP hydro-coupling.
4. Checking of complete BFP & CEP system for any leakages, abnormal sound, abnormal vibration, temp rise. bolt looseness etc and top up of the lubricants if required.
5. Attending gland leakages from CEP, ACW pumps, CW booster pumps.
6. Checking of complete regenerative system including Deaerator for any leakages, abnormal sound, temp rise.
7. Attending gland leakages by tightening of gland of various HP & LP valves in TG & Aux. areas.
8. Transportation of lubricants drums from central store to turbine area unit-I&II.
9. Shifting of empty drums from turbine area to central stores.
10. Checking of Masonary Air Washer and sheet metal air washer system for any leakages, abnormal sound, vibration.
11. Checking of Oil Centrifuges for any leakages, any oil leakages , quantity of moisture collected in collection tray.
12. Topping up of Hydrogen in the Generator.
13. Top up of oil in Oil Centrifuge, Seal Oil Vacuum Pumps. Draining of oil from coolers in Seal Oil vapor exhaust line.
14. Daily recording of all the critical parameters of TG & Aux. areas and its submission to E.I.C.

#### **B. Preventive Mechanical Maintenance Jobs of Main Turbine and Turbine auxiliaries system.**

1. Oil Leakage attending from the pipeline flanges of BFP lub. oil and working oil coolers and mechanical seal coolers.
2. Cleaning of BFP suction strainers.
3. Cleaning of cooling pipeline of water jacket of BFP & BFP booster pumps.
4. Cleaning of CEP suction strainers.
5. PM of seal oil pumps (AC& DC).
6. PM of stator cooling water pump.
7. Attending Oil Leakage from pipeline flanges of coolers of seal oil system and stator cooling water system.
8. Preventive maintenance of main ejectors.
9. PM of submersible pumps in sump at minus meter of T.G. Hall unit-1.
10. PM of sumps pumps in minus meter of TG U-2.
11. Preventive maintenance of oil centrifuge.
12. Cleaning of basket strainer of MOT.
13. PM of Vacuum pump of Seal oil system.
14. PM of Gland steam/ MOT/seal oil exhaust fans.
15. Servicing of hydrogen gas trap.
16. Cleaning of mechanical seal and water jacket cooling line of BFP booster and BFP.
17. Checking of bearing cooling lines of CEP.

18. Adjustment of seal oil DP as per direction of E.I.C.
19. Adjustment of stator water flow/pressure as per direction of E.I.C.
20. Checking of hydrogen leakages from different points in generator hydrogen circuit as per direction of E.I.C.

**C. Breakdown Maintenance Jobs of Main Turbine and Turbine auxiliaries system:-**

1. Attending leakages from glands of MAL valves.
2. Attending breakdown jobs in Oil Centrifuge.
3. Purging and dozing of H<sub>2</sub>/CO<sub>2</sub> cylinders in Generator.
4. Replacement of Vacuum pump.
5. Replacement of LPT diaphragm.
6. Replacement of NRV of Main Steam Ejectors.
7. Hand barring of Turbine as and when required as per direction of E.I.C.
8. Attending leakage from the pipe flange of BFP suction line.
9. Replacement of damaged coupling pad of Stator Water Pump.
10. Replacement of damaged coupling pad of AC & DC seal oil pump.
11. Attending minor leakages from glands of plate Heat Exchanger inlet & outlet valves.
12. Attending passing/leakages from Hydrogen valves.
13. Replacement of LP flanged valves of sizes up to 150mm.
14. Coupling and decoupling of defective Gland steam/ MOT/seal oil exhaust fans.

**D. Expected Manpower for the Annual maintenance contract (AMC) for running maintenance and short breakdown maintenance works in Turbine & its auxiliaries of 2x210MW units at TTPS, Lalpania:-**

Based on the calculation of estimated cost, successful bidder is expected to provide 01( One) supervisor of Highly Skilled category, 11(Eleven) workmen of Highly Skilled category and 11 ( Eleven) workmen of Skilled category for working in operation shift duty and general duty as per the Tender documents clause no. 17(l) under “General Instructions to Bidders”.

(Signature & Seal of Bidder)

**TENUGHAT VIDYUT NIGAM LIMITED**  
HINOO, DORANDA, RANCHI-834002.

**BILL OF QUANTITY**

**PART - II (PRICE PART)**

**NIT NO- 52/TM/W/TVNL/RAN/2022- 23**  
**SRM RFx No. - 1000007705**

**Sub: Annual maintenance contract (AMC) for running maintenance and short breakdown maintenance works in Turbine & its auxiliaries of 2x210MW units at TTPS, Lalpania for two year period.**

Sl. No.	Description of work	Quantity (Job)	Rate (Rs.)	Total Amount (Rs.)
1.	<b>Annual maintenance contract (AMC) for running maintenance and short breakdown maintenance works in Turbine &amp; its auxiliaries of 2x210MW units at TTPS, Lalpania ( For the 1<sup>st</sup> Year )</b>	<b>1 AU</b>	XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX	XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX
10.1	AMC & short brkdwn work, TG & Aux. 1st year	<b>12 Months</b>	XXXXXX XXXXXX	XXXXXXXXXX XXXXXXXXXX
2.	<b>Annual maintenance contract (AMC) for running maintenance and short breakdown maintenance works in Turbine &amp; its auxiliaries of 2x210MW units at TTPS, Lalpania ( for the 2<sup>nd</sup> Year )</b>	<b>1 AU</b>	XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX	XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX
20.1	AMC & short brkdwn work, TG & Aux. 2nd year	<b>12 Months</b>	XXXXXX XXXXXX	XXXXXXXXXX XXXXXXXXXX

**Note:**

1. Total quoted cost will be the criteria for defining L<sub>1</sub> bidder
2. GST will be paid extra as applicable.
3. Price Part is not to be submitted in Hard copy.
4. Bidder has to bid for part-II (Price part) on TVNL website: <https://webdispatcher.tvnl.in/srmprd> only.

(Signature & Seal of Bidder)

NIT NO- 52/TM/W/TVNL/RAN/2022- 23  
SRM RFX No. - 100007705

**Sub: Annual maintenance contract (AMC) for running maintenance and short breakdown maintenance works in Turbine & its auxiliaries of 2x210MW units at TTPS, Lalpania for two year period.**

**SELF DECLARATION**

(of the Head of the Firm In the Firm’s Letter Head)

I ..... S/o  
..... Resident of At-  
.....P.O.-..... P.S.-  
..... Dist..... State-.....PIN -

.....do hereby solemnly affirm and declare as follows:-

1. That, I am aged about ..... years. (Male Y/N / female Y/N).
2. That, I/we am/are proprietor/partner of the firm  
..... At-  
.....P.O.-.....P.S.-  
.....Dist.....State-.....PIN .....

3. That, my firm not blacklisted or warned at the time of bid submission by any works department under Jharkhand Govt. / Govt. /Semi Govt./ CPSUs/SPSUs/SEB’s.

4. That, all the above said and documents submitted are true and correct to best of my knowledge, information and belief. Verified and signed at .....on .....2023.

5. That, I have read and understood all the terms, conditions and scope of the work enlisted in the abovementioned Tender and will abide by them if the order is placed on our firm.

Signature with Firm seal

\* SELF DECLARATION of the Head of the Firm duly filled with sign & firm seal attached with tender documents & its scanned copy may be attached online TVNL web portal: [webdispatcher.tvnl.in/srmpd](http://webdispatcher.tvnl.in/srmpd).