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भारत हैवी इलेक्ट्रिकल्स लिमिटेड

BHARAT HEAVY ELECTRICAL LIMITED

(A GOVERNMENT OF INDIA UNDERTAKING)

ELECTRONICS DIVISION

**P.B. NO.: 2606, MYSORE ROAD, BANGALORE-560 026.
KARNATAKA**

NOTICE INVITING TENDER (NIT)

SINGLE PART OPEN TENDER

NIT NO: CE/ES/2020-21/10/NTPC-RGD/NWA/PGK Dated 21st Dec, 2020

Name of Work: Network Auditing of DCS System

At

**NTPC Ramagundam STPS,
Unit-7 (1 X 500 MW) Thermal Power Plant,
PO: Jyotinagar, Dist. Peddapalli,
Telangana - 505215**

TENDER DOCUMENT TO BE DOWNLOADED FROM WEBSITE www.bhel.com

All corrigendum, addendum, amendments, time extensions, clarifications, etc. (if any) to the tender will be hosted on www.bhel.com websites only. Bidders should regularly visit websites to keep themselves updated.

Total Number of pages including Cover page. 14

Bid Due Date: 13/01/2021, 13:00 Hrs (IST)

Date & Time of Bid Opening: 13/01/2021, 13:30 Hrs. (IST)

IMPORTANT NOTE

BIDDER IS ADVISED TO CHECK AND ENSURE COMPLETION OF ALL PAGES OF TENDER DOCUMENT AND REPORT ANY DISCREPANCIES TIMELY FOR CORRECTIVE ACTION, TO THE ISSUING AUTHORITY, BEFORE THE BIDS ARE SUBMITTED. PRINTED COPY OF TENDER DOCUMENT COMPLETE IN ALL RESPECT MUST BE SUBMITTED BACK AS PART OF THE BID WITHOUT WHICH THE SAME IS LIABLE TO BE REJECTED BY BHEL.



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Tender Ref: CE/ES/2020-21/10/NTPC-RGD/NWA/PGK Dated 21st Dec,2020
Due date: 13/01/2021

TENDER NOTICE

Sealed offers under Single part bid system are invited from competent contractors for undertaking the following work as per detailed schedule of work given in Tender Documents. No sale of Bid documents will be done. The Bidder shall download the Bid document from website: www.bhel.com and shall return the duly filled in Tender Document after affixing Signatures and Seal on all pages.

TENDER REFERENCE NO. & DATE	CE/ES/2020-21/10/NTPC-RGD/NWA/PGK Dated 21st Dec, 2020
Scope of Work	Network Auditing of DCS System
Period of Work	4-5 Days during Shutdown of Unit.
Tender Type	Open Tender (Single Part Bid)
PLACE OF WORK	Unit-7 (1x500 MW) NTPC Ramagundam STPS, PO: Jyotinagar, Dist.: Peddapalli, Telangana - 505215
Earnest Money Deposit (EMD)	NIL
Tender Value	Rs.200000.00 (Rs. Two Lakhs only) Exclusive of GST.
DUE DATE & TIME OF TENDER	21/01/2021 (DD/MM/YYYY), 13:00 Hrs.
Address for Submission of completed Tender	Submission of EMD including Tender Documents should be sent in original through R.P.A.D / Speed post / hand delivery / Courier and Email, so as to reach the office of Offer inviting Authority: Mr. GOPAL GOVIND MAURYA / DGM CE- EXTERNAL SERVICES 5TH FLOOR, NEW ENGINEERING BUILDING BHEL – ELECTRONICS DIVISION MYSORE ROAD, BANGALORE KARNATAKA. PIN – 560 026
Contact Details for Queries related to this tender.	Mr. Gopal Govind Maurya/ DGM / Land: +91-80-2699 8605 Mr. Gopalakrishnan.P/DGM/ Land: +91-80-26998771

The Offer may be sent by post/courier/email (hard copy in original to be sent separately) to the addressee mentioned above to reach before the tender due date and time. The offers received in time, will be opened at Tender Opening Office next to reception at Gate no. 02 of BHEL EDN, Mysore Road, Bangalore – 560026 on **13/01/2021 at 13:30 hours** in the presence of those bidders who wish to be present. Offers received after tender closing date & time will not be considered.

1. The Duration of Work shall be for a period of 4-5 Days during Shutdown of Unit.
2. The validity of offer shall be for 90 days from the date of opening of the bid.
3. The requests for extension of due date will not be considered.

The Bidders must submit their tenders in a sealed covers prominently super scribed the cover with **tender reference no., due date and time** as mentioned in tender notice.

- I. The tender documents with complete details are hosted on BHEL's web page www.bhel.com
- II. Bidders having good experience in Network Auditing intending to participate may download the tender document from the web site.
- III. Tenders must be submitted latest by 13:00 Hrs. on 13.01.2021. Bids shall be opened at 13:30 Hrs. on 13.01.2021 at the tender opening office next to reception, Gate no. 02 of BHEL EDN Unit. Tenders received after the due date and time shall be liable to be summarily rejected.
- IV. No Splitting of Work specified in this Tender is allowed.
- V. All corrigenda, addenda, amendments and clarifications to this tender will be hosted in this web page and not in the newspaper. Bidders shall keep themselves updated with all such amendments.
- VI. BHEL reserves the right to accept or reject any or all tenders without assigning any reason whatsoever.
- VII. BHEL takes no responsibility for any loss / delay of documents or correspondences sent by courier / post/email.
- VIII. Bids once submitted, shall not be returned.
- IX. Unsolicited rebate / discount shall NOT be accepted after bid opening.

GENERAL INSTRUCTIONS TO BIDDERS

1. Before tendering, the bidders are advised to inspect the site of work and the environments and be acquainted with the actual working and other prevalent conditions, facilities available, position of material and labor. No claim will be entertained later on grounds of lack of knowledge.
2. Bidder must fill up all the schedules and furnish all the required information as per the instructions given in various sections of the tender specification. Each and every page of the Tender Specification must be SIGNED, STAMPED AND SUBMITTED ALONG WITH THE OFFER by the Bidder in token of complete acceptance thereof. The information furnished shall be complete by itself.
3. The bidder shall quote the rates in English Language and international numerals. These rates shall be entered in figures as well as in words. In case of difference in rates between words and figures THE LESSER OF THE TWO will be treated as valid rate. For the purpose of tender, the metric system of units shall be used.



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4. **EARNEST MONEY DEPOSIT (EMD):** Not applicable for this tender.
 5. **SECURITY DEPOSIT:** Not applicable for this tender.
 6. Bidder shall fully understand equipment description and scope of work before quoting. The scope of work and responsibility of the Bidder as mentioned shall be covered within the quoted rates / price.
 7. The Bidder shall quote the rates / Price as per the rate schedule only, in part price bid (Original). Conditional price bids or price bids with any deviation / clarification etc. are liable to be rejected. No cutting / erasing / over writing shall be done.

GENERAL CONDITIONS OF THE CONTRACT (GCC) & SPECIAL CONDITIONS OF THE CONTRACT (SCC)

The Contract shall be governed by the Law for the time being in force in the Republic of India. The Civil Court at Bangalore, having ordinary Original Civil Jurisdiction shall alone have exclusive jurisdiction in regard to all claims in respect of this Contract.

8. The Contractor has to comply fully with the safety requirement of the NTPC-RAMAGUNDAM premises.
9. Advance payment and interim payment will **not** be paid to the Contractor.
10. The Contractor has to make his own arrangement for T&P safety appliances and consumables (if any) required for the above job.
11. All necessary personal safety equipment as considered adequate by the safety officer of NTPC-RAMAGUNDAM should be made available at Contractor's cost for use by the persons employed at the site and be maintained in a condition suitable for immediate use. The Contractor should also give sufficient safety training and instructions to their deployed engineers and ensure proper use of safety equipment by those concerned.
12. The Contractor shall compulsorily provide Personal Protective Equipment's (PPE's) to his deployed engineer/s as per the NTPC safety standards/ guidelines & in the event of not providing the same by date specified by Customer, it will be provided by BHEL/NTPC-Ramagundam at Contractor's risk and cost of the same will be recovered from the bill/s.
13. The Contractor shall arrange to obtain valid gate passes for his men and equipment's from the concerned authorities.



14. Apart from GST any other govt. taxes as applicable from time to time shall be borne by the Contractor.
15. No man / material / equipment not covered by valid gate pass shall be permitted within the power station area and no material / equipment shall be permitted to be taken out of the thermal power station unless authorized by concerned authority. The Contractor shall be held fully responsible for any delays / losses / damages that may result consequent on any lapses that may occur on the part of his employees in this regard.
16. Carrying / striking of matches, lighters or smoking or other acts which may cause fire hazards in the restricted area of power station such as Hydrogen plants, Hydrogen storage area, fuel oil plant / storage areas etc. is strictly prohibited.
17. The Contractor shall possess **“Independent PF code”**. Contractor has to observe all formalities as per PF act or Workmen Compensation Insurance, as applicable. Declaration, Proof of any such statutory provisions, may be required to be produced at NTPC Security Office for Gate pass issue of the deployed engineer/s or experts.
18. The Contractor shall not subcontract, transfer or assign any part or full work of this award without prior written permission from BHEL.
19. If any dispute or difference of any kind whatsoever shall arise between BHEL-EDN and the Contractor arising out of the contract or with respect to its interpretation, whether during or after its completion or whether before or after its termination, abandonment or breach of the contract, it shall be referred to the sole arbitration of the Unit head of BHEL-EDN or any Officer duly authorized by him in this behalf and the decision of the Arbitrator shall be final and binding on the parties.
20. As per NTPC-RAMAGUNDAM statutory requirement, the Contractor and their workers shall follow all safety rules while working so that there should not be any accident, which may cause loss of life and damage to Customer's property. **Contractor shall also take insurance cover for workmen compensation for the Engineers employed by them at his own cost**
21. The Bidder shall comply with all State and Central Laws, Statutory Rules, Regulations, etc., such as The payment of wages Act, The Minimum Wages Act, The workmen's Compensation Act, The Employer's Liability Act, The industrial Disputes Act, The Employees' Provident Fund Act, Employees' State Insurance Scheme, the Contract Labor (Regulations and Abolition Act, 1970) and other Acts, Rules and Regulations for labor as may be enacted by the Government



during the tenure of the Contract and having force or jurisdiction at site. The Bidder shall give to the local Governing Body, Police and other concerned Authorities all such notice as may be required under law.

22. Any delay in completion of works or non-achievement of targets, due to reasons attributable to the Bidder, will have to be compensated by the Bidder either by increased manpower and resources or by working extra hours at no extra cost to BHEL.
23. The Bidder shall commence the work within the time indicated in the Letter of Intent and shall proceed with the same with due expedition without delay.
24. **Complete job as defined in scope of work shall be carried out to the satisfaction of Customer / BHEL.**
25. **Bidder shall submit recent work orders / Work Completion certificates (Past 06 years) in support of experience in Network Audit Job carried out similar to the work details in scope of work along with the bid [Minimum 01 nos.]**
26. BHEL, at its sole discretion, will have the rights to cancel the Contract / Tender anytime.

ARBITRATION

27. All disputes between the parties to the Contract arising out of or in relation to the Contract, other than those for which the decision of the Engineer or any other person is by the Contract expressed to be final and conclusive, shall after written notice by either party to the Contract to the other party, be referred to sole arbitration of the General Manager or his nominee. The arbitration shall be conducted in accordance with the provisions of the Arbitration and Reconciliation Act, 1996.

Note: The term 'Company' means BHEL and 'Customer' means NTPC Ramagundam STPS.

TAXES

28. Income tax as per Section 194 of IT Rules plus surcharge as applicable will be deducted from the gross amount of each bill unless Exemption Certificate from appropriate Income Tax Authority is furnished. Please indicate the IT PAN and a **copy of PAN Card be submitted with the bid.**
29. **Goods and Services Tax (GST):**
 - a) BHEL GSTIN number is **29AAACB4146P1ZB**. All invoices to contain BHEL GSTIN No.



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- b) The Bidder shall mention Bidder's GSTIN number in all quotations and Invoices submitted.
Copy of GST Registration certificate (Form GST REG-06) to be submitted with the bid.
- c) The Bidder shall also mention HSN (Harmonized System of Nomenclature) / SAC (Services Accounting Code) mandatorily in all quotations and invoices submitted.
- d) Invoice submitted should be in the format as specified under GST Laws viz. all details as mentioned in Invoice Rules like GSTN registration number, invoice number, quantity, rate, value, taxes with nomenclature – CGST, SGST, UGST, IGST mentioned separately, HSN Code / SAC Code etc. Invoice should be submitted in original for buyer plus duplicate for credit availment.
- e) Payment of GST to Bidder will be made only if it is matching with data uploaded by the Bidder in **GSTR-1 & GSTR-3B**.
- f) Bidders to give undertaking that GST as mentioned in the Invoice has been paid either through cash or admissible input credit and also filed the returns at the time of submission of invoice.
- g) For invoices paid on Reverse charge basis – “Tax payable on reverse charge basis” to be mentioned on the invoice.
- h) In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount will be recoverable from vendor along with interest levied/leviable on BHEL.
- i) In case vendor delays declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law will be recoverable from vendor/contractor along with interest levied/leviable on BHEL.
- j) Penalty if any, charged to successful bidder during execution of the job, GST as applicable will be recovered along with penalty amount.
- k) As per GOI, Ministry of Finance - 1st day of October, 2018, as the date on which the provisions of section 51 GST Act shall have come into force. If applicable for this contract to be acceptable to contractor for deduction of GST TDS @1% on taxable value excluding GST.



PRICE VARIATION

30. The finally accepted rates for scope of work as defined in this tender shall be **FIRM for the entire Contract** period. No price variation on accepted rates is allowed.

SCOPE OF WORK

31. The work of Active & Passive Network Auditing shall be carried out at **Unit-7 DCS of NTPC Ramagundam STPS.**
32. Verification of all internal/ external UTP cable terminations at switch, panel and workstation ends. LAN Network Cable Test End to End to be carried out with certified & calibrated instruments. Total No. of Nodes for verification: **500 Nos. (approx.) $\pm 10\%$ to be considered in the price quoted.**
33. LAN Network Cable Test End to End report with testing parameters i.e. Length (m), Prop. Delay, Delay Skew, Resistance, Insertion Loss Margin, Frequency, Limit, Test: Pass / Fail etc. as per standard auditing protocols.
34. Network Management Software (NMS) shall be loaded for complete system audit (including switches & workstations / servers).
35. The hardware components listed below shall be covered for testing with LAN Network cable tester & NMS for network healthiness:
- ✓ **17 Nos. of Workstations.**
 - ✓ **08 Nos. Dell Servers**
 - ✓ **39 Nos. Layer 2 16 port DC powered switches (Cisco/Moxa)**
 - ✓ **05 Nos. Layer 2 24 ports AC powered switches (Cisco 2960 Series)**
 - ✓ **03 No. layer 3 24 Port AC powered switches (Cisco 2960 XR series)**
 - ✓ **Process Controllers: 110 Nos.**

Note: There are two redundant independent networks maxNET-A (172.16.X.X) & maxNET-B (172.17.X.X) with subnet. Each process controllers, Server and Workstations has Two Ethernet ports connected to both NET A & NET B to achieve redundancy.

36. 02 (Two) Sets of Resultant Test reports prepared / generated to be provided in both CD & Hard copy (One for NTPC- Ramagundam and another for BHEL-EDN).

TIME SCHEDULE

37. The Bidder is required to mobilize the manpower and Tools and commence the work within 5 days from the date of intimation of requirement at site by BHEL. Entire work as detailed in the Scope of work shall be completed within 4-5 days at site during the shutdown schedule of the unit. **The tentative shutdown of the unit is scheduled in the month of September, 2021 for a period of 15-20 days.** The prior intimation of exact shutdown schedule (in case of prepone / postpone) will be informed well in advance to the successful bidder.

SPECIAL TOOLS

38. The Special Tools (hardware & software) required for carrying out the network auditing job as detailed in scope of work shall be in bidder's scope and their hire charges if any shall be included in their quoted price.
39. The calibration the Hardware Instrument & License validity of the software tools to be ensured by bidders before deployment to the site. The list of few suggested tools / software:
- ✓ Standard Network Auditing Instrument (Eg. Fluke Networks Cable Analyzer or its equivalent & better version)
 - ✓ Latest Whatsup Gold NMS tool or its equivalent or a better version for NMS audit
- In case of much advanced / better tools available for carrying out the said auditing job as detailed in the Scope of work shall be used by bidder at no additional cost of BHEL and within the quoted prices.

MANPOWER

40. Skilled Engineer/s with relevant experience in Network Auditing to be deployed to site so as to complete the job as per customer shutdown requirement.
41. **Travel, lodging & boarding charges for the deputed engineer/s to site shall be in bidder's scope & to be included in the quoted prices.**



PAYMENT TERMS

42. 100% payment will be released within 30 days from the date of receipt of proper GST Invoice / bill at BHEL-EDN, Bangalore on completion of work along with signed protocols / record notes of discussion at site and submission of resultant reports as detailed in **clause 36**.
43. Bills with all enclosures shall be submitted in duplicate and shall be forwarded to the addressee as mentioned in tender notice for processing and release of payment.
44. **Mode of payment:** Payment will be made by EFT and the transaction charges (if any) shall be borne by the Contractor. The Contractor will be required to submit NEFT mandate form duly certified by bank for EFT mode of payment along with a crossed cancelled Cheque in original along with the bill. If already a registered vendor with BHEL EDN Unit, EFT form will not be required.
45. GST Component of the bill will be released after verification of the returns filed by contractor as detailed in **clause 29(e)** after the release of Basic Payment less deduction like IT etc.



ANNEXURE – A

FORMAT OF DECLARATION (ON BIDDER'S LETTER HEAD) TO BE GIVEN WITH FINAL BILL

Ref:

Date:

To:

BHEL - Electronics Division,
PB.No.2606,
Mysore Road
Bangalore – 560026

Dear Sir / Madam

Ref: Your W.O NO..... Date:

This is to certify that

1. We have made full & final payment (Retrenchment Compensation, One month notice / notice pay in lieu thereof, payment for un availed portion of EL etc. as applicable) to all our workers and as on today nothing is pending / payable to any worker on account of wage & other benefits.
2. We have complied with relevant provisions of employees provident fund and misc. provisions Act 1952 and rules made there under and we have deposited up to date PF contribution under PF code No:.....
3. No one was injured / died due to accident during the period of Contract in the execution of the work and hence no compensation payment is applicable.
4. No labour payment is pending with us.
5. We hereby certify that the work was completed in accordance with terms and conditions of the said work order / award letter and all the particulars as declared above are true to the best of my knowledge & belief.
6. That in case principal employer is held responsible / liable to pay any amount/penalty charge by an order of the court, arbitrator or authority due to acts or omissions of the Bidder M/shereby undertakes to indemnify the principal employer to deduct that amount from our bills payable by you in any other Contract.
7. No other claims against this Contract / work order will be made by..... on BHEL Bangalore.

Thanking You,

Yours Sincerely
Signature of the Bidder



Tender Ref: CE/ES/2020-21/10/NTPC-RGD/NWA/PGK Dated 21st Dec,2020
Due date: 13/01/2021

ANNEXURE-B

Sub-contract work of “NETWORK AUDITING OF DCS SYSTEM AT UNIT-7 (1 X 500MW) NTPC-RAMAGUNDAM STPS”

(PREFERABLY TO BE GIVEN ON SUB CONTRACTORS LETTER HEAD)

CERTIFICATE FOR NO DEVIATION

I/We,.....

Of M/s.....hereby

certify that there is no deviation from the tender specifications and conditions either technical or commercial and I/We agree to all the terms and conditions mentioned in the tender specification.

Signature of the Contractor With seal

Place:

Date:



Tender Ref: CE/ES/2020-21/10/NTPC-RGD/NWA/PGK Dated 21st Dec,2020
Due date: 13/01/2021

SCHEDULE OF PRICE

LUMPSUM charges for “ACTIVE AND PASSIVE NETWORK AUDITING OF DCS SYSTEM AT UNIT-7 (1 X 500MW) NTPC-RAMAGUNDAM STPS”

Sl.no.	Description	Qty	UOM	Price in <input type="text"/>
1	Complete Verification / Testing of all nodes (500 Nos. approx.), cables & Submission of standard audit report for the hardware as details in the Scope of work	1	Lumpsum	
2	Complete scanning of all hardware components details in Scope of work using NMS (Network Management Software) tool & submission of audit report	1	Lumpsum	
A	Sub Total Basic Price (Sl. no. 1+2) :			<input type="text"/>
B	(if applicable) Add GST% on (A) :			<input type="text"/>
C	Total Quoted Price inclusive of Taxes (A+B) :			<input type="text"/>

Total amount in words: _____

(SEAL & SIGNATURE OF THE BIDDER)