

WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED

(A Govt of West Bengal Enterprise)

Office of the Chief Engineer, O&M - II, Vidyut Bhavan, 10th floor, Block-D, Salt Lake City, Kolkata-700 091

Repairing, Inspection and Testing of 01 No. 50 MVA, 132/33 KV and 08 Nos. 31.5 MVA, 132/33 KV Power Transformers including to & fro Transportation.

[Domestic Competitive Bidding]

1. **West Bengal State Electricity Transmission Company Limited** herein referred to as **WBSETCL** invites bids through Domestic Competitive Bidding (DCB) from eligible bidders for **Repairing, Inspection and Testing of 01 No. 50 MVA, 132/33 KV and 08 Nos. 31.5 MVA, 132/33 KV Power Transformers including to & fro Transportation** against **NIT No. CE/ (O&M)-II/Transformer Repairing/2018-19/33**, Dated 15.11.2018.
2. WBSETCL intends to finance this package through own fund.
3. Detailed Specification, scope of supply and terms and conditions of supply are given in the bidding documents, which are available at the online e-tendering portal <https://wbenders.gov.in/> or <https://etender.wb.nic.in> as per the following schedule:

| Sl. No. | Particulars | Date & Time |
|----------------|---|--|
| 01. | Bidding document No | CE/ (O&M)-II/Transformer Repairing/2018-19/33, Dated 15.11.2018. |
| 02. | Date of uploading of N.I.T. & other Documents (online) (Publishing Date) | 15.11.2018 |
| 03. | Documents download start date (Online) | 15.11.2018 05:00 P.M. |
| 04. | Request for Pre-Bid clarifications to be sent to the address given in clause 39 | 22.11.2018 03:00 P.M. |
| 05. | Pre-bid meeting | 28.11.2018 02:30 P.M. |
| 06. | Bid submission start date (On line) | 04.12.2018 09:00 A.M |
| 07. | Last Date of submission of original copies for the cost of Tender Fees, Bid Security (As per Annexure-3b), Original Power of Attorney & Affidavit regarding Eligibility (duly notarized) OR a valid General Power of Attorney in favour of Signatory of the Bid. (Offline) | Up to 18.12.2018 by 01:00 P.M. |
| 08. | Bid Submission closing (On line) | 17.12.2018 03:00 P.M. |

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|-----|--|--|
| 09. | Opening of bid (Online) [Techno-commercial bid] | 20.12.2018 03:00 P.M |
| 10. | Opening of Price bid (Online) | The bidders shall be informed of the date & time of the opening of the price bid at a later stage after techno-commercial evaluation |
| 11. | Completion Time | 365 days from the date of placement of LOA. |
| 12. | Cost of the Tender Document | Rs 5000/- + Rs. 900/- (18% GST) = Total Rs. 5,900/- (Rupees Five Thousand and Nine Hundred only). HSN/ SAC Code – 999799. |

4. In the event of e-filing, intending bidder may download the tender documents from the website <https://etender.wb.nic.in> or <https://wbtenders.gov.in> directly with the help of Digital Signature Certificate. Necessary cost of tender documents (tender fees) as mentioned above may be remitted through in the form of a Demand Draft/ Pay order/ banker's cheque payable at Kolkata drawn in favour of **“WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED”** from any scheduled commercial bank and also to be documented through e-filing. The original Demand Draft / Pay Order against tender fees & Bid Security (As per Annexure-3b) [As Statutory Document] should be submitted physically (offline) to the Office of The Chief Engineer, (O&M) – II Department, WBSETCL under sealed cover on or before the scheduled date & time as specified above.
5. All bids must be accompanied by bid security for an amount of **Rs 2.85 Lakhs [Rupees Two Lakh and Eighty Five Thousand Only]** in the form of Demand Draft / Pay order / Banker's Cheque drawn in favour of “WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED” from any scheduled commercial bank, payable at Kolkata, or a Bank Guarantee from any scheduled commercial bank favouring WBSETCL which shall remain valid for a period of one hundred and eighty (180) days from the next day of techno-commercial bid opening date with a further claim period of thirty (30) days. Bids not supported with an acceptable bid security or bids supported with bid security of inadequate value shall be rejected by WBSETCL. Bids shall be rejected by the WBSETCL; if the bidder fails to submit original Bank Guarantee/Demand Draft / Pay Order/ Banker's Cheque against tender fees & Bid Security(As per Annexure-3b) physically to the Office of The Chief Engineer, (O&M) – II Department, WBSETCL under sealed cover on or before the scheduled date & time as specified above.

The bidder, who intends to quote for all the Equipments, may submit the total value of EMD in single BG/ Demand Draft / Pay order / Banker's Cheque.

For preparation of BG the Bank details of WBSETCL is given below:

Name of the Bank: CANARA Bank

Address of the Bank: Sector-III, Salt Lake City, Kolkata-700091.

Account No.: 2549201000230 and IFSC: CNRB0002549

N.B.: The EMD value indicated in the e-tendering portal is only an ornamental value "1" and shall be read as indicated in Clause Error! Reference source not found.of the detailed NIT. Relevant Annexure-3c is to be submitted in the designated folder satisfactorily.

6. Uploading of bidding documents shall not automatically construe that the bidder fulfils the Qualifying Requirements which shall be determined during bid evaluation based on data/documents submitted by the bidder. No request for sending the bid documents by post or by Courier Service shall be entertained. Bid documents are not transferrable.
7. The purpose of the pre-bid meeting will be to clarify the scope of supply, and any issues regarding the bidding documents and the Technical Specifications, if raised at that stage by the bidders. The WBSETCL shall not be under any obligation to entertain /respond to suggestions made or to incorporate modifications sought for by the prospective bidders during the pre-bid meeting or thereafter.
8. **The bidder must offer the repairing charges of full tendered quantity of the Transformer. Bid submitted by the bidders for quantity less than the tendered quantity shall be liable for rejection. Also, the Bidder must upload the BoQ satisfactorily in accordance with their offered item(s); otherwise the bid may be summarily rejected.**
9. All bids shall remain valid up to a minimum period of one hundred and eighty (180) days from the next day of Techno – Commercial bid opening date.
10. **Qualifying Requirement for bidders:**
In addition to the requirements stipulated under Section-II, Instruction to Bidders (ITB), the following shall also apply:
 - A. **TECHNICAL:**
 1. Bidders **shall** be original transformer manufacturer / repairer having all infrastructural capacity and must have successfully repaired or supplied at **least 03 (Three) no.** of such 132/ 33KV Transformers of capacity 31.5 MVA & above in any STU / CTU / Recognized Indian Power Utility within the **last 05 (Five) years** & the same Transformers must be in successful operation for at least **01 (one) year** as on date of NIT.

2. In **addition** to above, the bidder must have stage inspection and all testing facilities for final inspection at their works as on date of NIT.

(The above information is to be supported by certificate stating successful delivery after manufacturing or repairing and satisfactory performance certificate of the delivered Transformers)

B. FINANCIAL:

- i) The **Minimum Average Annual Turnover (MAAT)** of the Bidder for the best 3 (three) years out of the last 5 (five) financial years for which the audited accounts are available shall not be less than **Rs. 425.00 Lac.**
- ii) **Net worth** at the end of last financial year shall be **positive.**
- iii) Bidder shall have **Liquid Asset (L.A.)** and/ or evidence of access to or availability of credit facilities of equivalent amount not less than **Rs. 70.50 Lac.**

C. OTHER REQUIREMENTS :

The bidder shall furnish, as part of his techno-commercial bid, documents establishing the bidder's qualifications to execute the Order to the satisfaction of the Purchaser. All documents required to establish bidder's financial and Technical qualification must be submitted as part of techno-commercial bid. In particular, the following documents need to be submitted by the bidder:

- a. Copies of un-priced/priced purchase order for similar work during the past 05 (Five) years and execution status of each order supported by duly acknowledged delivery challans, client's certificate or other relevant documents.
- b. Confirmation regarding availability of in-house stage as well as final inspection/ testing facilities or access through other government approved agencies for performing inspection/testing.
- c. Performance Certificates from the user for successful operation of the delivered Transformers.
- d. Copies of related Type Test Certificates of tendered Transformers as per relevant IS / IEC.
- e. Audited Annual Accounts of the company for the last 05 (Five) years (in case of companies)

(or)

IT Return duly acknowledged by the tax department for the last 05 (Five) years (in case of bidders other than companies)

- f. Copies of G.S.T. Registration Certificate along with other relevant details.

In addition to above, the bidder shall also be required to meet the eligibility conditions and submit an affidavit as per the bidding documents.

11. WBSETCL reserves the right to accept or reject any bid partly or fully or cancel the bidding process without assigning any reasons thereof and in such case no bidder shall have any claim arising out of such action.

12. **Right to Split the total tendered quantity :**

WBSETCL reserves the right to split the total tendered quantity amongst more than 1 (One) bidder.

Maximum 04 (Four) Nos. Transformer would be awarded to the L1 bidder.

Next maximum 02 (Two) Nos. Transformer would be awarded to L2 bidder subject to matching of total quoted price of L1 bidder.

Rest Number [Maximum 02 (Two) Nos.] Transformer would be awarded to L3 bidder subject to matching of total quoted price of L1 bidder.

13. **Delivery Schedule**

Maximum 04 (Four) No. Transformer would be awarded to each bidder as described in Sl. No. : 12 above.

The delivery schedule given hereunder is inclusive of the period required for conducting all inspection & testing works (including type tests, if so required by the Purchaser)

- a) The manufacturer/repairer will take up transportation of the transformers from site to their works within 30 (thirty) days from the date of placement of LOA.
- b) All new windings and other components to be supplied /manufactured are to be offered for inspection along with stage inspection within 90 (Ninety) days **from** the date of issue of LOA for all the transformers.
- c) The **1st Unit** of the repaired transformer to be offered for final inspection within 30 (Thirty) days from the date of stage inspection
- d) The **2nd Unit** to be offered for final inspection within 30 (Thirty) days after completion of final inspection of the 1st Unit.
- e) The **3rd Unit** to be offered for final inspection within 30 (Thirty) days after completion of final inspection of the 2nd Unit.
- f) The **4th Unit** to be offered for final inspection within 30 (Thirty) days after completion of final inspection of the 3rd Unit.

g) The transformers to be dispatched to WBSETCL site (anywhere in West Bengal, except Hills) within 30(thirty) days from the date of issue of MICC-Cum-DI.

- 1st Unit of the transformer is to be delivered after completion of final inspection of the transformers at factory within 180 (One hundred and Eighty) days from the date of issue of LOA
- 2nd Unit of the transformer is to be delivered after completion of joint internal inspection of the transformers at factory within 210 (Two Hundred and Ten) days from the date of issue of LOA .
- 3rd Unit of the transformer is to be delivered after completion of joint internal inspection of the transformers at factory within 240 (Two Hundred & Forty) days from the date of issue of LOA .
- 4th Unit of the transformer is to be delivered after completion of joint internal inspection of the transformers at factory within 270 (Two Hundred & Seventy) days from the date of issue of LOA .

14. **Name Plate details of all the transformers to be repaired are attached separately.**

15. **SUBMISSION OF PERFORMANCE GUARANTEE FOR REPAIRING :**

The earnest money deposited by the each successful bidder shall be refunded after receipt of B.G. no.1 to be submitted before lifting of the defective transformer(s) from the site.

1) The value of **B.G no. 1** shall be as follows:

- For each 31.5 MVA, 132/33 KV Transformer awarded to each bidder, the value would be Rs 76.00 Lac (Rupees Seventy Six Lakh) per transformer which will have to be submitted before lifting of the defective transformer(s) from the site.
- For 50 MVA, 132/33 KV Transformer awarded, the value would be Rs 93.00 Lac (Rupees Ninety Three Lakh) which will have to be submitted before lifting of the defective transformer(s) from the site

2) The Contract Performance Guarantee (**B.G. No. 2**) shall be as follows :

- An unconditional Bank Guarantee(s) towards Performance Security (ies) in respect of the Contracts amounting to 10% (Ten) of the Contract Value valid up to ninety (90) days after the end of Defects Liability Period with

further claim period 90 (ninety) days of all the equipment covered under the contract is to be submitted by the Contractor after delivery of repaired Transformer at site.

The **B.G no. 1** shall be returned after successful delivery of the repaired transformer and submission of **B.G. no. 2.**

16. **DEFECT LIABILITY PERIOD :**

The defects liability period shall be **60 (sixty) months** from the date of delivery of the repaired transformer(s) at site.

17. **Technical know-how:** Qualified, experienced and efficient engineer should supervise the various activities such as dismantling of core & windings, repairing, assembling, de-hydration, testing, loading, unloading at works etc. Date-wise record of various activities should be maintained by you.

18. **Methodology for repair of the 09 (Nine) Nos. Transformers.**

- I. The transformers shall be repaired by replacement of the windings and replacement of the Transformer oil along with other materials as per the schedule. Balance materials required for its repairing if any, are to be supplied by the manufacturer/repairer after necessary assessment prior to the submission of the bid.
- II. Before submission of bids, the bidders will carry out Physical (both internal & external) inspection of all the transformers at the destination Sub-Stations with their representatives. Inspection is to be done in the presence of WBSETCL officials. The bidders may also carry out necessary testing at Site. Necessary assistance with the instruments available at site may be used by the bidder to access the healthiness of the available accessories. All testing instruments required for the tests shall be provided by the bidder. However, the bidders may utilize testing instruments of WBSETCL as per their requirement if available at site. The inspection & testing of the transformers shall be completed within a maximum of 2(two) days. 'To & fro' conveyance, boarding, lodging etc. shall be borne by the bidders.

- III. **Date of inspection and testing of the transformers shall be decided by tendering authority, WBSETCL as per request from the intending bidder before scheduled pre-bid meeting**
- IV. Loading of defective transformer from plinth to trailer by repairer.
- V. Transportation of defective transformer (without oil) & accessories from site to the works by repairer.
- VI. Unloading of defective transformer from trailer to shop floor of works by repairer.
- VII. Insurance of whole transformers during above work to be taken by repairer from reputed insurance company.
19. **Stage inspection:** Assembly of new windings / good winding(s) of the defective transformer unit with all new insulating materials over the core, refilling of laminations after cleaning, changing of insulating materials between top & bottom yoke to yoke channels. Low Voltage testing of the Windings in presence of WBSETCL official. Preparation of MOM.
20. Making connection including leads, tap leads, soldering, brazing etc.
21. Replacement of all Gaskets, oil seals etc by new one
22. Vapour phase drying of complete Core-coil assembly & OLTC under vacuum oven – 760 mm of Hg pressure so as to achieve proper IR values and Tan Delta Values and oil impregnation of core & Winding.
23. Overhauling (which includes checking, cleaning, servicing & minor repairing) of all accessories transported to repairer's works such as OLTC, valves, relays, Conservator, Radiators, Bushings, Bushing rods, connector, RTCC panel etc.
24. Oil filtration, Final inspection & Testing: Tanking of transformer with dried core-coil assembly, fresh transformer oil filling through filter machine (filter machine should conform to IS 6034/1974, or with latest amendment, if any) and assembling of accessories.
25. Complete Routine Testing of the Transformer as per latest IS: 2026 as per the attached list. Preparation of MOM.
26. Painting of transformer tank (inside and outside) & accessories after final testing.
27. Proper sealing to be provided at all outlets / joints of transformer by repairer.
28. Loading of transformer and accessories on the trailer & truck and welding of transformer by repairer. SFRA to be taken by the repairer before loading of the repaired transformer on trailer.

29. Transportation of transformer from works to site by repairer. Responsible representative of repairer to be deputed during transportation of transformer and accessories.
30. Unloading of transformer on plinth from trailer by repairer including necessary dragging of the main tank.
31. Tan delta of windings and all bushings including SFRA to be taken by the repairer before commissioning of the transformer at site. SFRA Tests should be conducted both at factory/ works (before despatch/delivery) and at site (after placement on plinth). Representative of the repairer should be present at site during commissioning & installation.
32. Low voltage testing of the repaired transformer by WBSETCL in presence of repairer and commissioning thereof. Repairer is fully responsible for certifying the transformer test results before commissioning of repaired transformer.
33. **COST OF NEW & OLD WINDINGS:** All windings to be supplied shall be manufactured from new copper conductor and new insulating materials. The size and type of new copper conductor should be as per original windings. The dimensions (ID, OD, Height, number of turns etc) of the new windings should be as per original windings. A sketch indicating details of outer and inner diameter, size and type of conductor, type of winding, thickness & size of core laminations with limbs and window dimensions shall be made by the repairer. A copy of the same should be sent along with MOM of Stage Inspection.
34. All defective/damaged windings shall be retained by the repairer. All defective/damaged windings along with other damaged insulating materials shall be cut into small pieces and destroyed / crushed in presence of WBSETCL Engineer. Repairer has to take the photographs of above destroyed scrap windings & photographs of the same should be handed over to WBSETCL officials.
35. If any old windings are manufactured from CTC conductor, then it should be replaced with new windings manufactured from CTC conductor only.
36. New name plate is to be tagged mentioning repaired transformer and other details. Name plate so attached should meet IS compliance.
37. **Necessary Assistance is to be provided by the bidder for installation and commissioning of the repaired Transformer during commissioning.**

38. **Technical Specification:** - All the Technical Specifications are available at the website of WBSETCL i.e. www.wbsetcl.in. The Bidders are requested to download the same from the aforesaid website and the same should be followed.
39. **Address for seeking any clarifications on the bid documents:**

The Chief Engineer (O&M) – II,
WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED

CIN: U40101WB2007SGC113474

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