# WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED

## Tender Document
## for

REPLACEMENT OF EXISTING ACSR/ AAAC PANTHER CONDUCTOR BY HTLS CONDUCTOR (800A) I.R.O. (I) 132KV D/C KTPP-BAGNAN, (II) 132KV D/C HOWRAH-LILUAH, (III) 132KV D/C DOMJUR-ULUBERIA, (IV) 132 KV D/C DURGAPUR- BAMUNARA, (IV) 132KV S/C AB ZONE-C ZONE & (VI) 132KV D/C DPL PLANT-C1 ZONE TRANSMISSION LINE UNDER WBSETCL AND ALLIED WORKS ON TURN KEY BASIS

## NIT No. **CE/ (O&M) – II/HTLS/2024-25/15, DATED 29.08.2024**

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General Conditions of Contract (GCC)
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Bid Forms
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WBSETCL

CHIEF ENGINEER: (O&M) – II
WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED
VIDYUT BHAVAN

These documents are meant for the exclusive purpose of bidding against this NIT and shall not be transferred, reproduced or otherwise used for purposes other than that for which they are specifically issued.

10TH. Floor, 'D' BLOCK
SALT LAKE CITY, KOLKATA – 700 091

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ABRIDGED NOTICE INVITING TENDER

WBSETCL

(A Govt of West Bengal Enterprise)

CHIEF ENGINEER: (O&M) – II, VIDYUT BHAVAN

NOTICE INVITING TENDERS

For

# REPLACEMENT OF EXISTING ACSR/ AAAC PANTHER CONDUCTOR BY HTLS CONDUCTOR (800A) I.R.O. (I) 132KV D/C KTPP-BAGNAN, (II) 132KV D/C HOWRAH-LILUAH, (III) 132KV D/C DOMJUR-ULUBERIA, (IV) 132 KV D/C DURGAPUR- BAMUNARA, (IV) 132KV S/C AB ZONE-C ZONE & (VI) 132KV D/C DPL PLANT-C1 ZONE TRANSMISSION LINE UNDER WBSETCL AND ALLIED WORKS ON TURN KEY BASIS.

**[Domestic Competitive Bidding]**

1. ***West Bengal State Electricity Transmission Company Limited (WBSETCL)*** invites bids from the eligible bidders on turnkey basis through Domestic Competitive Bidding for design, engineering, supply & delivery, erection, testing and commissioning including transportation & insurance, storage in respect of "Replacement of existing ACSR/ AAAC Panther Conductor by HTLS Conductor (800A) i.r.o.(i) 132KV D/C KTPP-Bagnan, (ii) 132KV D/C Howrah-Liluah Transmission, (iii) 132KV D/C Domjur-Uluberia, (iv) Replacement of existing AAAC Panther Conductor of 132 KV D/C Durgapur- Bamunara, (iv) 132KV S/C AB Zone-C Zone & (vi) 132KV D/C DPL Plant-C1 Zone Transmission Line under WBSETCL and allied works on Turn Key basis" against **NIT No.** CE/ (O&M) – II/HTLS/2024-25/15, DATED 29.08.2024.

   Interested Bidder may download the Bid documents from **29.08.2024 from 06:00 P.M. and Bids shall be submitted online up to 3.00 P.M. on 30.09.2024.**

   Intending bidder may download the tender documents from the website http://etender.wb.nic.in OR wbtenders.gov.in directly with the help of Digital Signature Certificate.

DETAILED NOTICE INVITING TENDER

**WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED**

(A Govt of West Bengal Enterprise)

CHIEF ENGINEER: (O&M) – II, VIDYUT BHAVAN

NOTICE INVITING TENDERS

For

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2. **SCOPE OF WORK** : The work covered under this tender shall be but not limited to the following:-

2.1 The scope of work inter-alia includes:

(i) Design, manufacturing, testing & supply of High Temperature Low Sag (HTLS) conductor Annealed aluminium conductor" except GAP conductor as well as required associated hardware fittings and accessories viz. suspension clamps, dead end clamps, mid-span compression joints, repair sleeves, T-Connectors, vibration dampers, etc.

(ii) Survey & profiling of existing line route using Total stations, verification of availability of statutory electrical clearances using PLS-CADD software; de-stringing

of existing Conductor including dismantling of associated fittings & accessories from the above lines and stringing of each circuit with HTLS conductor along with associated fittings and accessories with the other circuit under live condition.

2.2 The material to be supplied on final destination at site basis as covered in the bidding documents shall be designed, manufactured, tested, supplied and installed as per the requirements specified in this Tender. The requirements, conditions, appendices etc. as specified in other Sections of bidding documents shall also apply to.

2.3 The standard type disc insulators (70 KN & 120 KN) along with hardware fittings (except suspension clamps at suspension tower and dead end clamps at tension tower) of the existing line shall be used for re-conductoring of line with HTLS conductor. The existing insulators and hardware fittings shall be inspected by the contractor for any defects and those found defective shall be replaced after approval of engineer-in-charge with fresh items to be supplied by WBSETCL.

2.4 The ACSR/ AAAC PANTHER conductor removed from the existing line is envisaged for re-use/ utilization by the WBSETCL in other projects. Proper handling and safety of the conductor during de-stringing, storage at site, measurement of conductor lengths, rewinding on drums at site and safe transportation to WBSETCL's designated stores along the transmission line shall be included in the scope of work.

2.5 The WBSETCL shall arrange shut down of one circuit at a time and the other circuit shall be kept under charged condition. The contractor shall de-string the existing conductor and restring the circuit with the HTLS conductor section by section and restore the line in original conditions as per program finalized in co-ordination with site. **Normally Shut down will be allowed form 6 AM to 3 PM on daily basis for the replacement work. Generally the contractor has to do the stringing within this interval so that line can be charged at 3 PM every day**. No idle labour is admissible for non-availability of shut down or Right of Way constraints during erection. Appropriate safety measures along with necessary safety tools and equipments to carry out de-stringing and stringing operations under the above conditions including mechanical/ structural safety of the towers shall be the responsibility of the contractor. Necessary calculations shall be carried out by the contractor to ensure that by replacing the existing ACSR PANTHER conductor with the HTLS conductor offered, the loadings on the towers due to conductor tensions as well as loads on account of the re-conductoring activities shall be within specified

limits. **These calculations shall be submitted by the bidder along with bid. The calculations will be checked, if found wrong the bid will be rejected.**

2.6 The materials covered in this tender shall be supplied complete in all respects, including all components, fittings and accessories which are necessary or are usual for their efficient performance and satisfactory maintenance under the various operating and atmospheric conditions. Such parts shall be deemed to be within the scope of the Contract, whether specifically included or not in the Specification or in the Contract Schedules. The Supplier shall not be eligible for any extra charges for such fittings, etc.

2.7 The entire stringing work of conductor shall be carried out by tension stringing technique except where geography/ topographical or other site constraints do not permit use of tension stringing equipment. In such cases manual stringing along with other appropriate tools and equipments may be employed with the approval of WBSETCL's site in charge. Contractor is to indicate the sets of Tension Stringing Equipment in his proposal and indicate no. of stringing equipments which the bidder plans to deploy so as to meet his schedule in their offer.

2.8 Uploading of complete technical details of the proposed HTLS conductor with relevant calculation along with the bid to adjudge the sufficiency of existing towers for carrying out the up-rating works. This shall be carried out in compliances / adherence to all safety and standard requirements as per Indian Electricity Rules 1956. Design parameters and submission of detailed drawings of conductor hardware and accessories and preparation of sag tension chart, stringing chart, of the conductor used showing, sag & tension at various temperatures are included in the scope of the Bidder.

2.9 The existing insulators shall be inspected by the contractor in advance for any defects and those found defective shall be replaced with good ones by WBSETCL. During stringing if any existing insulator found defective, it will be supplied by WBSETCL.

2.10 The entire stringing work of HTLS conductor shall be carried out by tension stringing technique except where geographical / topographical or other site constraints do not permit use of tension stringing equipment. In such cases manual stringing along with other appropriate tools and equipment may be employed with the approval

of engineer in charge. The contractor shall indicate in their offer, the sets of tension stringing equipment he is having in his possession and the sets of stringing equipment he would deploy exclusively for this tender. The contractor shall also engage sufficient manpower so that stringing of the conductor in one stretch is complete within the allowed shut down period of one day. No mid span joint will be allowed & hence the length of the conductor shall be decided by referring the tower schedule.

2.11 Only important road & river crossings and lines passing over civil structures will have double insulator strings. Vibration dampers are to be provided in all suspension & tension locations.

2.12 The rollers, which will be used during stringing, should be so designed that the line can be charged with the roller.

2.13 Contractor should deploy stringing/ installation experts during erection of the offered type of conductor.

3. Estimated Cost for the Project: - **Rs. 7666.32 Lac (Rupees Seventy Six Crores Sixty Six Lac and Thirty Two Thousand) only.**

4. **WBSETCL** intends to finance this project.

5. 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://wbtenders.gov.in / or https://etender.wb.nic.in as per the following schedule:

| Sl No | Particulars | Date & Time |
|---|---|---|
| 1 | Bidding document No | **CE/ (O&M) – II/ HTLS/2024-25/15, DATED 29.08.2024.** |
| 2 | Date of uploading of N.I.T. & other Documents (online) (Publishing Date) | **29.08.2024 from 02:00 P.M.** |
| 3 | Documents download/sell start date (Online) | **29.08.2024 at 06:00 P.M** |
| 4 | Documents download/sell end date (Online) | **30.09.2024 up to 03:00 P.M.** |
| 5 | Closing date of hard copy submission of clarification/pre-bid queries/proposed modifications / additional information (if any) | **05.09.2024 up to 03.00 P.M.** |
| 6 | Pre-bid meeting to be held at Office of the Chief Engineer: | **10.09.2024 at 02.30** |

| | | |
|---|---|---|
| | (O&M) – II, 10th Floor, D-Block Bidyut Bhawan. | **P.M.** |
| 8 | Bid submission start date (On line) | **17.09.2024 from 09:00 A.M** |
| 9 | Bid Submission closing (On line) | **30.09.2024 up to 03:00 P.M.** |
| 10 | Last Date of submission of original copies for the cost of Bidding Documents and Earnest Money Deposit in sealed envelope. & legally enforceable documents as mentioned in General guidelines for e-tendering in sealed envelope. | **01.10.2024 up to 03:00 P.M.** |
| 11 | Bid opening date for Technical Proposals (Online) | **03.10.2024 up to 03:00 P.M.** |
| 12 | Date of uploading list for Technically Qualified Bidder(online) | **Will be uploaded after completion of the techno-commercial evaluation.** |
| 13 | Date for opening of Financial Proposal (Online) | **Will be published in due course.** |
| 14 | Completion Time | **270 days** from the date of placement of LOA. |

6. A complete set of bidding documents may be downloaded by any interested bidder.
7. Downloading the bidding documents shall not automatically construe that the bidder fulfils the Qualifying Requirements which shall be determined during bid evaluation based on data/documents uploaded by the bidder

8. All bids must be accompanied by bid security for an amount of **₹ 153.33 Lakh [Rupees One Crore Fifty Three Lac Thirty Three Thousand only].**

   Details guidelines herein under for submission of bid-security

   a. The bidder shall login to the e-Procurement portal of Government of West Bengal https://wbtenders.gov.in using his login Id and password.

   b. The bidder shall select the tender to bid and initiate payment of EMD. Following payment options are available for paying EMD amount through online mode:

      i. Net-banking through Payment Gateway.

      ii. Submission of EMD through BG: For submission of EMD in the form of BG, bidders will have to opt for EMD Exemption in e-tender portal and upload scanned copy of BG ***i.e. Bank Guarantee of an amount of ₹ 153.33 Lakh (with validity for a period of 240 days from the date of opening of Technical Bids with a claim period of another 90 days thereafter)*** along with requisite testimonials for proportional EMD in the EMD exemption document upload section. Physical copy of BG shall be submitted within the stipulated date at the office of the **Chief Engineer (O&M)-II, 10th Floor, D-Block, Bidyut Bhawan.**

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

STATE BANK OF INDIA
INDUSTRIAL FINANCE BRANCH, KOLKATA
4th & 5Th FOOLR ,JEEVAN DEEP BUILDING,1-MIDDLETON STREET
KOLKATA-700071
A/C No. 41456850307
IFSC CODE : SBIN0001936

c. EMD amount can be paid either in online mode or submitted through Bank Guarantee (BG) in full. Partial payment through online mode and remaining submission through BG is not allowed.

d. GENERAL INSTRUCTIONS FOR ONLINE PAYMENT:

- ► The bidder will have to mandatorily pay through Net-banking facility once Net-banking mode is opted for payment.
- ► Only a single value can be entered as EMD amount in e-tender portal for each tender. However, in case tender has fixed EMD on line item (multiple items) basis, then, for the cases when actual EMD value calculated as per NIT by the bidder is less than the one mentioned in e-tender portal, bidders shall mandatorily opt for Exemption for payment of actual EMD amount and upload the requisite testimonials for proportional EMD and its proportional amount is to be paid in form BG/ online mode.
- ► The bank account used for payment of EMD by the bidders shall be maintained operative until the completion of tendering process. All refunds will be made mandatorily to the Bank A/c from which the payment of EMD has been initiated.

e. Refund/Settlement of EMD Amount:

- ► For unsuccessful bidders, EMD amount submitted against the tender shall be refunded automatically, through an automated process, by NIC portal on receipt of updated status of any bid.
- ► For successful bid(s), EMD will be refunded from WBSETCL authority after completion of tendering process and following due procedures.
- ► The bank account used for payment of EMD by the bidders shall be maintained operative until the completion of tendering process. All refunds will be made mandatorily to the Bank A/c from which the payment of EMD has been initiated.
- ► For any queries related to payments and refunds, bidders will have to communicate with ICICI Customer Support, viz, 9836547320 and 8017094744 since payment gateway facility used by E-tender portal is maintained by ICICI.

9. Non submission of the acceptable bid security as specified here, in a sealed cover or submission of bid security of inadequate value shall be rejected by the WBSETCL and in such cases bids shall be considered as non responsive.

10. Qualifying Requirement for bidders:

In addition to the requirements stipulated under Section, Instruction to Bidders (ITB), the following shall also apply:

**Bidder can be an Indian Manufacturer or Indian EPC Transmission Line erection contractor meeting the Qualifying Requirements as below:**

**1. Technical Qualification:-**

**(A)Technical qualification of the manufacturer as Bidder:-**

(i) The manufacturer should have experience of manufacturing, testing and supply of at least 100 K.M. of ACSR/ AAAC/ High Temperature Low Sag (HTLS) conductor during last five (5) years as on the date of bid opening,

and

(ii) The manufacturer must have experience in manufacturing, testing, and supplying 25 K.M. of same HTLS **conductor equivalent to ACSR Panther for 132KV system which is being offered in this Tender**(excluding GAP conductor and AL 59 conductor) within the last five (5) years as of the date of NIT. Additionally, this conductor must have been in satisfactory operation for at least one (1) year in any Power utility in India as of the date of NIT.

OR

In case, the manufacturer does not meet 1. A (ii) as above, then Indian manufacturer can bid as a licensee of a qualified manufacturer of the **HTLS conductor equivalent to ACSR Panther for 132KV system which is being offered in this Tender** (excluding GAP conductor and AL 59 conductor) wherein Licensor must have Minimum 5 years of Design, Testing and commercial deployment experience **of the HTLS conductor equivalent to ACSR Panther for 132KV system which is being offered in this Tender(excluding GAP conductor and AL 59 conductor)** with Minimum 25 K.M. with 1 year of satisfactory operation in any Power utility in India. The authorised Licensee having registered office in India, of a Licensor complying the requirement as stated in 1A (ii) must also comply below as Bidder::-

(a) The Licensee shall have experience of manufacturing **, testing & supplying** of at least 25 K.M. of HTLS **conductor equivalent to ACSR Panther for 132KV system which is being offered in this Tender** ( except GAP conductor and AL 59 conductor) in last five (5) years as on the date of NIT **in any power utility in India** and should comply with all of the following requirements and furnish an agreement valid for a further period of at least five (5) years after guarantee period between Bidder & licensor in its bid as per proforma enclosed in Annexure 13A. The agreement should also cover following:

- Licensor must guarantee sequential, timely supply of conductor/core materials.
- Any design undertaken by the Licensee shall be approved by the Licensor.

(b) In addition to Contract performance guarantee, the Licensee shall furnish additional performance guarantee in the form of Bank guarantee for 10% of value of the contract of HTLS conductor as per format provided in the Bid documents for successful performance of HTLS conductor to be manufactured and supplied by the Licensee under the contract.

**Erection Criteria for bidder as manufacturer:-**

i) The bidder should have experience for erection of ACSR/ AAAC/ High Temperature Low Sag (HTLS) conductor for transmission line of 50 CKM in India.

ii) The bidder has to propose an erection contractor who fulfils the above criteria to that effect the bidder must furnish relevant document i.r.o. erection contractor be responsible for the total works up to completion.

**(B) Technical qualification for Indian EPC Transmission Line erection contractor as Bidder:-**

a. The bidder should have experience for supply, erection and stringing of Transmission Lines of 132 KV and higher voltage class for at least 100 K.M. conductor on Turnkey basis in a single tender during last five (5) years as on the date of NIT.

b. The bidder should procure HTLS conductor either from the original manufacturer or from licensee holder of Technology owner of HTLS conductor having qualification requirements stipulated in 1 (A) (i) & (ii) above.

c. The bidder should furnish a legally enforceable document in the form of agreement to be submitted along with the bid pertaining to the following requirement as per proforma enclosed in Annexure 13B.The agreement should also cover following:

i. The manufacturer of contractor must guarantee design, sequential and timely supply of equipment/materials and ensure correct Installation practise for quality assurance.

ii. The manufacturer must guarantee long term availability of spares to the purchaser for the full life of the equipment/materials.

(d) The bidder should furnish additional Performance Bank Guarantee of 10% of the total value of the contract at bidding stage that shall be valid up to the guarantee period of the equipment/materials post installation and commissioning.

**2. Financial Capability:-**

i) The Average Annual Turnover for the last three (3) years for which the audited accounts are available shall not be less than **₹ 11499.48 Lakh.**

ii) **Net worth** at the end of last financial year shall be **₹ 1916.58 Lakh.**

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 **₹ 1916.58 Lakh.**

11. Completion period for the project is **270 (two hundred and seventy) days** from the date of placement of LOA.

12. The tender consist of 12 (twelve) Price Schedules, six price schedules relating to Supply of equipment and materials etc. and six price schedules relates to corresponding erection of materials/ equipment etc. at the said locations. Bidders are advised to offer their price for all the ten schedules. In case any of the price schedule is left blank it will be considered that the bidder shall execute the total work as per total price offered for the other price schedules taken together.

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

14. The bidder may mailed their Pre – Bid quarries to the following E-mail within the scheduled date as mentioned above.

15. **Technical Specification: -** All the Technical Specifications are enclosed with this NIT.

16. **ADDRESS FOR COMMUNICATION**

The Chief Engineer: (O&M) - II,
West Bengal State Electricity Transmission Company Limited,
10th Floor, "D" Block,
Block -DJ, Bidyut Bhavan,
Sector –II, Salt Lake City,
Kolkata -700091.

| | |
|---|---|
| Fax | : 91-33-2359-1901 |
| Telephone | : 91-33-2359-1901 |
| E-mail | : cecontcl@gmail.com |
| Website | : www.wbsetcl.in |