

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

REPLACEMENT OF EXISTING CONDUCTOR BY HTLS/ AL59
CONDUCTOR I.R.O. DIFFERENT 220 KV AND 132 KV
TRANSMISSION LINE UNDER WBSETCL AND ALLIED WORK ON
TURN KEY BASIS.

[Domestic Competitive Bidding]

NIT No: CE/ (O&M) – II/HTLS & AL59/2017-18/11, DATED 07.11.2017

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 conductor by HTLS/ AL59 conductor i.r.o. different 220 KV and 132 KV Transmission Line under WBSETCL as defined in the bid document on ‘Turn-key Basis’ against NIT No. CE/ (O&M) – II/HTLS & AL59/2017-18/11, DATED 07.11.2017.
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 solid core conductor” except GAP conductor and AL 59 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 & 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 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 from 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. 9186.20 Lac (Rupees Ninety One Crores Eighty Six Lac and Twenty Thousand) only.**
4. **WBSETCL intends to finance the Project under Power System Development Fund (PSDF).**
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 & AL59/2017-18/11, DATED 07.11.2017.
2	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	07.11.2017
3	Documents download/sell start date (Online)	07.11.2017 from 04.00 P.M.
4	Documents download/sell end date (Online)	12.12.2017 up to 03:00 P.M.
5	Start date of hard copy submission/ on line submission of clarification/pre-bid queries/ proposed modifications/additional information (if any)	08.11.2017 from 11.00 A.M.
6	Closing date of hard copy submission/ on line submission of clarification/pre-bid queries/ proposed modifications / additional information (if any)	17.11.2017 up to 03.00 P.M.

7	Pre-bid meeting to be held at Office of the Chief Engineer: (O&M) – II, 10 th Floor, D-Block Bidyut Bhawan.	22.11.2017 at 02.30 P.M.
8	Bid submission start date (On line)	28.11.2017 from 09:00 A.M.
9	Bid Submission closing (On line)	12.12.2017 up to 03.00 P.M.
10	Last Date of submission of original copies for the cost of Bidding Documents and Earnest Money Deposit (Off line)	13.12.2017 up to 01.00 P.M.
11	Last date of submission of the legally enforceable documents as mentioned in General guidelines for e-tendering in sealed envelope.	13.12.2017 up to 01:00 P.M.
12	Bid opening date for Technical Proposals (Online)	14.12.2017 from 03.00 P.M.
13	Date of uploading list for Technically Qualified Bidder(online)	Will be uploaded after completion of the techno-commercial evaluation.
14	Date for opening of Financial Proposal (Online)	Will be published in due course.
15	Cost of Bidding Document	Rs 5000/- (Rupees Five Thousand Only)
16	Completion Time	365 days from the date of placement of LOA.

6. A complete set of bidding documents may be downloaded by any interested bidder. Cost of the Bidding document (non-refundable) as mentioned above in the form of a Demand Draft/Pay Order/Banker's Cheque drawn in favour of "**WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED**" from any scheduled bank payable at Kolkata shall have to be deposited physically at the office the Chief Engineer: (O&M) - II, D- Block, 10th Floor, WBSETCL, Bidyut Bhawan on or before **13.12.2017 up to 01.00 P.M.**
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 **Rs 185.00 Lac [Rupees One Crore and Eighty Five Lac only]** in the form of Demand Draft /Pay order /banker's Cheque/ Bank Guarantee and shall remain valid for a period of 240 days from the date of opening of Bids with a claim period of another 90 days thereafter. Bidders must submit the Bid security physically within the stipulated date as above at the office of the Chief Engineer: (O&M) – II, 10th Floor, D-Block, Bidyut Bhawan and also to be

documented along with the bid and submitted online. Non submission of the acceptable bid security along with prescribed cost of bidding documents as specified here, in a sealed cover or submission of bid security and cost of bidding document of inadequate value shall be rejected by the WBSETCL and in such cases bids shall be considered as non responsive.

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

CANARA BANK

SECTOR III SALT LAKE CITY KOLAKATA 700091

ACCOUNT NO: 2549201000230

IFSC CODE CNRB0002549

9. Non submission of the acceptable bid security along with prescribed cost of bidding documents as specified here, in a sealed cover or submission of bid security and cost of bidding document 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 at least 100 K.M. of ACSR/ AAAC/ High Temperature Low Sag (HTLS) conductor having at least 37 number of strands as that of the conductor being offered in this Tender during last five (5) years as on the date of bid opening, and
- (ii) The manufacturer should have experience of manufacturing, testing and supply 25 KM. of High temperature low sag conductor (HTLS) except GAP conductor of same technology as that of the conductor being offered in this Tender having minimum 195 sq. mm. Aluminium cross section area, in last five (5) years as on the date of NIT and the same should have been in satisfactory operation for a period of at least one (1) year in any Power utility in India as on 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 or Technology Owner of the HTLS technology offered in the bid wherein Licensor must have Minimum 5 years of Design, Testing and commercial deployment experience of the same technology globally with Minimum 25 K.M. with 1 year of satisfactory operation in any Power utility in India. Technical qualification of the authorised Licensee having registered office in India, of a Licensor

complying the requirement as stated in 1A (ii) and must also comply below as Bidder:-

- (a) The Licensee shall have experience of manufacturing for 25 K.M. of HTLS conductor except Gap conductor of same technology as that of the conductor being offered in this Tender having minimum 195 sq. mm. Aluminium cross section area, in last five (5) years as on the date of NIT 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 Double Circuit transmission line of route length of 50 Km 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 **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. 13780.00Lac.**
- 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. 2300.00 Lac.**

- 11. Completion period for the project is **365 (three hundred and sixty five) days** from the date of placement of LOA.
- 12. The tender consist of 14 (fourteen) Price Schedules, seven price schedules relating to Supply of equipment and materials etc. and seven price schedules relates to corresponding erection of materials/ equipment etc. at the said locations. Bidders are advised to offer their price for all the four 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 the Tender Document and the same should be followed.

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.

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