

WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LTD.

(A Govt. of West Bengal Enterprise)

CIN: U40101WB2007SGC113474

OFFICE OF THE CHIEF ENGINEER (O&M) - I

VIDYUT BHAWAN: 10th FLOOR: D BLOCK,

SALT LAKE CITY, SECTOR-II, KOLKATA: - 700091,

TELE PHONE /FAX NO. (033) 2359-1895. Website: www.wbsetcl.in



NIT No.:- CE/ (O&M) – I/HTLS/2020-21/10, DATED 13.10.2020

ABRIGED Notice Inviting e-Tender

Notice Inviting NI e-T No.10 of 2020-21 of CE, (O&M) – I WBSETCL for the work of “Replacement of existing ACSR Zebra conductor by HTLS conductor (1200A) i.r.o. i) 220 KV D/C Transmission Line between New Chanditala 400KV Substation & Howrah 220KV Substation (RL: 25.47KM approx.) and ii) 220 KV D/C Transmission Line between Rajarhat 400KV Substation of PGCIL & New Town AA-III 220KV Substation (RL: 8.00KM approx.) under WBSETCL and allied work on Turn Key basis”. Bid submission start date (online): 07.11.2020 from 09:00 A.M. Documents download/sell closing date (Online): 23.11.2020 at 03:00 P.M. Interested bidders may visit the following websites for detail NIT published in: - <https://wbtenders.gov.in>, <https://etender.wb.nic.in> and <http://www.wbsetcl.in>.

(G. K. De)

Chief Engineer:(O&M) – I

Section I - NOTICE INVITING TENDER

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 ZEBRA CONDUCTOR BY HTLS CONDUCTOR (1200A) I.R.O. I) 220 KV D/C TRANSMISSION LINE BETWEEN NEW CHANDITALA 400KV SUBSTATION & HOWRAH 220KV SUBSTATION (RL: 25.47KM APPROX.) AND II) 220 KV D/C TRANSMISSION LINE BETWEEN RAJARHAT 400KV SUBSTATION OF PGCIL & NEW TOWN AA-III 220KV SUBSTATION (RL: 8.00KM APPROX.) UNDER WBSETCL AND ALLIED WORK 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 Zebra conductor by HTLS conductor (1200A) i.r.o. i) 220 KV D/C Transmission Line between New Chanditala 400KV Substation & Howrah 220KV Substation (RL: 25.47KM approx.) and ii) 220, KV D/C Transmission Line between Rajarhat 400KV Substation of PGCIL & New Town AA-III 220KV Substation (RL: 8.00KM approx.) under WBSETCL and allied work on Turn Key basis against NIT No. CE/ (O&M) – I/HTLS/2020-21/10, DATED 13.10.2020.

Interested Bidder may download the Bid documents from **14.10.2020 from 09.00 A.M. and Bids shall be submitted online up to 3.00 P.M. on 23.11.2020.**

Intending bidder may download the tender documents from the website <http://etender.wb.nic.in> OR wbenders.gov.in directly with the help of Digital Signature Certificate. Necessary cost of bidding documents (non refundable) may be remitted through Demand Draft / Pay Order/ Banker's Cheque issued from any scheduled bank in favour of **“WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED” payable at Kolkata** and also to be documented along with the bid and submitted online. The original Demand Draft / Pay Order against tender fees should be submitted physically to the Office of Chief Engineer: (O&M) - I, D- Block, 10th Floor, WBSETCL, Bidyut Bhawan on or before **24.11.2020 up to 01.00 P.M.**

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 ACSR ZEBRA CONDUCTOR BY HTLS CONDUCTOR (1200A) I.R.O. I) 220 KV D/C TRANSMISSION LINE BETWEEN NEW CHANDITALA 400KV SUBSTATION & HOWRAH 220KV SUBSTATION (RL: 25.47KM APPROX.) AND II) 220 KV D/C TRANSMISSION LINE BETWEEN RAJARHAT 400KV SUBSTATION OF PGCIL & NEW TOWN AA-III 220KV SUBSTATION (RL: 8.00KM APPROX.) UNDER WBSETCL AND ALLIED WORK ON TURN KEY BASIS.

[Domestic Competitive Bidding]

NIT No: CE/ (O&M) – I/HTLS/2020-21/10, DATED 13.10.2020

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 Zebra conductor by HTLS conductor (1200A) i.r.o. i) 220 KV D/C Transmission Line between New Chanditala 400KV Substation & Howrah 220KV Substation (RL: 25.47KM approx.) and ii) 220 KV D/C Transmission Line between Rajarhat 400KV Substation of PGCIL & New Town AA-III 220KV Substation (RL: 8.00KM approx.) under WBSETCL and allied work on Turn Key basis against **NIT No. CE/ (O&M) – I/HTLS/2020-21/10, DATED 13.10.2020.**
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 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 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

