

WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED

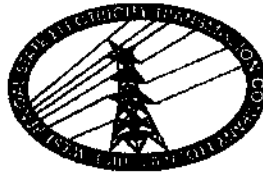
Tender Document FOR

**CONSTRUCTION OF 132 KV S/C TRANSMISSION LINE OVER D/C TOWER (1.5
KM) & THROUGH UG CABLE (1.232 KM) FROM DALKHOLA 220 KV SUB-
STATION TO PROPOSED DALKHOLA T.S.S AND ALLIED WORK ON TURN KEY
BASIS.**

&

**CONSTRUCTION OF 01 (ONE) NO. 132 KV METERING BAY AT DALKHOLA TSS
FOR BULK POWER SUPPLY TO DALKHOLA TSS FROM DALKHOLA 220 KV
SUB STATION AND ALLIED WORK ON TURN KEY BASIS.**

NI e-T No. CECON/2016-17/13 DATED 03.02.2017



WBSETCL

**CHIEF ENGINEER (O & M) CONSTRUCTION
WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED
VIDYUT BHAVAN
10TH.Floor 'D' BLOCK
SALT LAKE CITY, KOLKATA - 700 091**

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Page | 1

Dalkhola – Line & TSS

SECTION - I

DETAILED NOTICE INVITING TENDER

WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED
(A Govt. of West Bengal Enterprise)

OFFICE OF THE CHIEF ENGINEER (O&M) CONSTRUCTION
BIDYUT BHAWAN (10TH FLOOR), DJ-BLOCK, SECTOR-II
SALT LAKE CITY, KOLKATA-700 091

NOTICE INVITING TENDER
FOR

CONSTRUCTION OF 132 KV S/C TRANSMISSION LINE OVER D/C TOWER (1.5
KM) & THROUGH UG CABLE (1.232 KM) FROM DALKHOLA 220 KV SUB-
STATION TO PROPOSED DALKHOLA T.S.S AND ALLIED WORK ON TURN
KEY BASIS.
&
CONSTRUCTION OF 01 (ONE) NO. 132 KV METERING BAY AT DALKHOLA TSS
FOR BULK POWER SUPPLY TO DALKHOLA TSS FROM DALKHOLA 220 KV
SUB STATION AND ALLIED WORK ON TURN KEY BASIS.

(Domestic competitive bidding)

Notice Inviting e-Tender No. CECON/2016-17/13, Dated 03/02/2017

- 1.0 **West Bengal State Electricity Transmission Company Limited** herein referred to as **WBSETCL** invites e-tender (Submission of Bid through **online**) through local competitive bidding (LCB) from eligible bidders for Engineering as required, civil construction, supply & delivery, erection and commissioning including transportation & insurance, storage in respect of the following work:-

CONSTRUCTION OF 132 KV S/C TRANSMISSION LINE OVER D/C TOWER (1.5
KM) & THROUGH UG CABLE (1.232 KM) FROM DALKHOLA 220 KV SUB-
STATION TO PROPOSED DALKHOLA T.S.S AND ALLIED WORK ON TURN
KEY BASIS.

&

CONSTRUCTION OF 01 (ONE) NO. 132 KV METERING BAY AT DALKHOLA
TSS FOR BULK POWER SUPPLY TO DALKHOLA TSS FROM DALKHOLA 220
KV SUB STATION AND ALLIED WORK ON TURN KEY BASIS.

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

- 1) Name of the Work: - CONSTRUCTION OF 01 (ONE) NO. 132 KV METERING
BAY AT DALKHOLA TSS FOR BULK POWER SUPPLY TO DALKHOLA TSS
FROM DALKHOLA 220 KV SUB STATION AND ALLIED WORK ON TURN
KEY BASIS.

a) **SUPPLY:-**

Supply and delivery of all outdoor and indoor equipments with associated structures, connectors, hardware fitting, conductors, bus pipes, etc. conforming to Technical Specification and approved drawings for successful commissioning of 01 no. 132 KV Metering Bay at Dalkhola TSS for Bulk Power Supply to Dalkhola TSS from Dalkhola 220 KV Sub Station and allied work on Turn Key basis.

b) **ERECTION:-**

The scope includes the following but not limited to:

- **Civil Foundation:** All the civil foundation works of equipments/Structures/ tower including Cable trenches conforming to Technical Specification and approved drawings.
- **Equipment:** Erection of equipment with associated structures, necessary connections through drawal of pipe bus/conductors complete as per requirement for successful commissioning of 01 no. 132 KV Metering Bay at Dalkhola TSS for Bulk Power Supply to Dalkhola TSS from Dalkhola 220 KV Sub Station and allied work on Turn Key basis as per Technical Specification and approved drawings.

- **Earthing:**

A) TSS End:- All works related to proper earthing of all equipment and structures along with treated and untreated earth pit including auxiliary earth mat for Isolators, wherever necessary etc. as per Technical Specification and approved drawings.

2) Name of the Work:- CONSTRUCTION OF 132 KV S/C TRANSMISSION LINE OVER D/C TOWER (1.5 KM) & THROUGH UG CABLE (1.232 KM) FROM DALKHOLA 220 KV SUB-STATION TO PROPOSED DALKHOLA T.S.S AND ALLIED WORK ON TURN KEY BASIS.

A) **For XLPE Cable Portion:-**

- Check Survey of Cable route from Sub Station Cable Support End Structure to Composite Tower.
- Laying of 132 KV single core XLPE Cable from Sub Station Cable Support End Structure to Composite Tower as per Technical Specification.
- Erection of Cable Termination Kit at CSE and Composite Tower as per Technical Specification.
- Testing and Commissioning of above 132 KV single core XLPE Cable.

B) For Overhead portion:-

- i) Check survey work including profiling, tower spotting etc.
- ii) Fabrication, galvanizing and supply of 132 KV D/C and Narrow Based Composite Towers.
- iii) Supply of conductors, insulators including all materials, accessories and other line materials as per technical specification & BOQ.
- iv) Construction of foundation for 132 KV D/C and Narrow Based Composite tower including protection work as necessary.
- v) Erection of 132 KV D/C and Narrow Based Composite towers including fixing of insulator strings, stringing of conductor and earth-wire (GSW) along with all necessary tower and line materials and accessories including earthing of towers.
- vi) Dismantling of existing 132 KV S/C Towers, Conductor, Disc Insulators, Hardware & accessories and return to the Store of WBSETCL.
- vii) Testing, commissioning and handing over of the line.

3.0 Estimated Cost for the Project: - **Rs. 631.00 Lac (Rupees Six Crores and Thirty One Lac) only including all Taxes & Duties, Service Tax.**

4.0 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
01.	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	03.02.2017
02.	Documents download/sell start date (Online)	04.02.2017 04:00 P.M.
03.	Last Date of uploading of Pre Bid Quarries	10.02.2017 03:00 P.M.
04.	Pre Bid Meeting	15.02.2017 03:00 P.M.
05.	Bid submission start date (On line)	20.02.2017 09:00 A.M
06.	Bid Submission closing (On line)	06.03.2017 03:00 P.M.
07.	Last Date of submission of original copies for the cost of Tender Documents and cost of Earnest Money Deposit (Off line)	07.03.2017 01:00 P.M.
08.	Bid opening date for Technical Proposals (Online)	08.03.2017 11:00 A.M
09.	Date of uploading list for Technically Qualified Bidder (online)	15.03.2017 03:00 P.M.

10.	Date for opening of Financial Proposal (Online)	To be intimated later
11.	Completion Time	365 days from the date of placement of LOA.

5.0 In the event of e-filing, intending bidder may download the tender documents from the website <http://wbtenders.gov.in>, <https://etender.wb.nic.in> directly with the help of Digital Signature Certificate. Necessary cost of tender documents (tender fees) amounting to **Rs. 5,000/- (Rupees five thousand) only** may be remitted through Bank Draft / Pay Order issued from any scheduled bank in favour of the “**West Bengal State Electricity Transmission Company Limited**”, payable at Kolkata and a scanned copy of the same to be uploaded. Necessary Earnest Money (EMD) may be remitted through Bank Draft / Pay Order/Banker’s cheque issued from any scheduled bank in favour of the “**West Bengal State Electricity Transmission Company Limited**”, payable at Kolkata or Bank Guarantee from any scheduled Bank and also to be documented through e-filing. The original Bank Draft / Pay Order against tender fees and the original Bank Draft / Pay Order / Bank Guarantee against Earnest Money Deposit (EMD)(As statutory documents) should be submitted physically (Offline) to the Office of The Chief Engineer (O&M) Construction, WBSETCL under sealed cover on or before the scheduled date & time as specified above.

6.0 All bids must be supported by **bid security (EMD)** for an amount of **6.35 Lac (Rupees Six Lac and Thirty 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 two hundred and forty (240) days from the next day of final bid submission date i.e. bid deadline with a further claim period of ninety (90) days. Bid shall be rejected by the WBSETCL if the bidder fails to submit original Bank Guarantee /Demand Draft /Pay order against tender fees & Earnest Money Deposit (EMD) physically to the office of the Chief Engineer, (O&M) Construction Department, WBSETCL under sealed cover on or before the scheduled date & time as specified above.

7.0 QUALIFYING REQUIREMENT FOR BIDDERS:

The Bidder must have to meet the following conditions:

A. 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. 950.00Lac.**
- 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. 160.00 Lac.**

B. Technical Capability and Experience:

The Bidder, who intends to participate in the Bid, shall have to comply the following criteria:

- I. When the Bidder is a Manufacturer intends to participate in the bid shall have to comply the following criteria:
 - a) The Bidder shall be a manufacturer of 132 KV or higher voltage class XLPE Cable who must have designed, manufactured, type tested and supplied at least 1.0 KM of 132 KV or higher voltage class single core XLPE cable in Indian power utility. The Bidder shall have performance of operation of such cable for a length not less than 1.0 (One) KM for at least one (1) year in any Indian Power utility. *(to be supported by certificate stating successful completion and satisfactory performance certificate and Taking over Certificate [TOC] of the relevant contract executed).*

AND

- b) The Bidder shall have the performance of successful execution of laying of at least 1.0 KM of 132 KV or higher voltage class underground XLPE cable in a single contract with complete survey, engineering, laying & erection of XLPE cable and accessories including testing and commissioning under any power utility in India within last 10 (Ten) years which must be in successful operation for at least one year as on date of NIT *(to be supported by certificate stating successful completion and satisfactory performance certificate and Taking over Certificate [TOC] of the relevant contract executed).*

OR

The Bidder may engage separate Erection Contractor who have successfully executed laying of at least 1.0 Km of 132 KV or higher voltage class underground XLPE cable in a single contract with complete, laying & erection of XLPE cable and accessories including testing and commissioning under any power utility in India within last 10 (Ten) years which must be in successful operation for at least one year as on date of NIT *(to be supported by certificate stating successful completion and satisfactory performance certificate and Taking over Certificate [TOC] of the relevant contract executed).*

- II. When the Bidder is a Turn Key Contractor intends to participate in the Bid, shall have to comply the following criteria:
 - a) The Bidder may be a Turn Key contractor who have successfully executed laying of at least 1.0 KM of 132 KV or higher voltage class underground XLPE cable in a single contract with complete survey, engineering, laying & erection of XLPE cable and accessories including testing and commissioning under any power utility in India within last 10(Ten) years which must be in successful operation for at least one year as on date of NIT *(to be supported by certificate stating successful completion and satisfactory performance certificate and Taking over Certificate [TOC] of the relevant contract executed).*

AND

- b) The Bidder shall procure cables form a reputed manufacturer having manufacturing capability of 132 KV or Higher Voltage Class XLPE cables who have designed,

manufactured, type tested and supplied at least 1 KM of 132 KV or higher voltage class single core XLPE cable in Indian power utility. The Bidder shall have performance of operation of such cable for a length not less than 1.0 (One) KM for at least one (1) year in any Indian Power utility *(to be supported by certificate stating successful completion and satisfactory performance certificate and Taking over Certificate [TOC] of the relevant contract executed).*

III. When the Bidder is a Turn Key Contractor having experience in Bored Pile foundation work intends to participate in the Bid, shall have to comply the following criteria:

a) The Bidder must have executed bored pile foundations (piles placed in groups, for at least ten such groups), of pile diameter not less than 1000 mm and depth not less than 25 metre each against a single contract during last 5 years with supply of all construction materials. The Bidder may engage separate erection contractor for the transmission line work who satisfy the technical eligibility criteria mentioned at serial III (b) below.

AND

b) The Bidder may engage separate Erection Contractor who have successfully executed laying of at least 1.0 Km of 132 KV or higher voltage class underground XLPE cable in a single contract with complete, laying & erection of XLPE cable and accessories including testing and commissioning under any power utility in India within last 10 (Ten) years which must be in successful operation for at least one year as on date of NIT *(to be supported by certificate stating successful completion and satisfactory performance certificate and Taking over Certificate[TOC] of the relevant contract executed).*

AND

c) The Bidder shall procure cables form a reputed manufacturer having manufacturing capability of 132 KV or Higher Voltage Class XLPE cables who have designed, manufactured, type tested and supplied at least 1 KM of 132 KV or higher voltage class single core XLPE cable in Indian power utility. The Bidder shall have performance of operation of such cable for a length not less than 1.0 (One) KM for at least one (1) year in any Indian Power utility *(to be supported by certificate stating successful completion and satisfactory performance certificate and Taking over Certificate [TOC] of the relevant contract executed).*

AND

d) If the Bidder has no manufacturing capability for galvanised fabricated member for towers of their own, they shall undertake to procure the same from the vendors for such items duly taking approval from WBSETCL.

AND

e) The bidder may engage separate Erection Contractor who have executed at least one contract independently on turnkey basis for EHV line of 132 KV or higher voltage

class having a route length not less than 1 Km during last 5 years with survey, construction and engineering, with supply of tower materials, insulators, hardware and accessories, with or without supply of conductor and earth wire, erection, stringing, testing and commissioning of the line. The bidder shall furnish satisfactory completion certificate from the concerned authority (to be supported by Taking over Certificate). The Erection Contractor should have its own engineering facility and experience for 132 KV or higher voltage class lines.

In addition to above, the Bidder:

- A. Shall procure Cable jointing material & Cable termination Kits and other required accessories from manufacturers or its authorized agent whose products have been used in Indian power utilities and are in successful operation for at least one year as on the date of NIT.

The Bidder shall upload valid and authenticated documents in support of his eligibility and technical qualification as required above.

C. Personnel Capability:

The bidder must have full-fledged set up for executing similar projects in power utility. Details of execution set up to be deployed by the bidder shall be furnished in their offer.

Project Management team shall be headed by a Project Manager who shall have at least 2(two) years experience in execution of such contract of comparable nature. He shall be stationed at work site.

D. Other requirement:

Bids may be submitted by a Registered Company that on its own meets all the qualifications, experience and requirements set forth in bidding document. Bidder shall also satisfy the following conditions:

- a) They shall possess a valid electrical contractor's license issued under the Act.
- b) All equipment offered for this tender shall be Type Tested and they should procure the equipments/materials from approved maker's list of WBSETCL.
- c) The "Must Conditions" to be met by the bidder have been further elaborated in the NIT. Bidders shall upload scanned copies of valid and authenticated documentation in support of his capability/experience/requirement and qualification.

8.0 Completion period for the project is **365 (three hundred and sixty five) days** from the date of placement of LOA.

9.0 The tender consist of 04 (four) Price Schedules, two price schedules relating to Supply of equipment etc. and two price schedules relates to corresponding erection of 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.
- 10.0 The Material and Service Component for each item of the "Erection Schedule" should be correctly segregated by the vendor.
- 11.0 Constructional Labour Welfare CESS @ 1% (*one percent*) of cost of erection will be deducted from every Bill of the successful bidder.
- 12.0 WBSETCL reserves the right to accept or reject any bid partly or fully or cancel the bidding without assigning any reason thereof and in such case no bidder/ intending bidder shall have any claim arising out of such action.
- 13.0 The bidder may mailed their Pre – Bid queries to the following E-mail within the scheduled date as mentioned above.
- 14.0 **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.
- 15.0 **Approved Maker's List of WBSETCL:** - Approved Maker's List of WBSETCL 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.
- 16.0 **Drawings of different Structures & Foundations:-** Drawings of different Structures & Foundations are available at the website of WBSETCL i.e. www.wbsetcl.in. The Bidders are requested to download the same from the aforesaid website, but the same is for Tender purpose only.
- 17.0 **ADDRESS FOR COMMUNICATION**
- The Chief Engineer (O&M) Construction,
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
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