

Section I - NOTICE INVITING TENDER

West Bengal State Electricity Transmission Company Limited

(A Govt. of West Bengal Enterprise)

Office of the Chief Engineer (Procurement)

CIN: U40101WB2007SGC113474

ABRIDGED NOTICE INVITING e-TENDER

For

**CONSTRUCTION OF 220 KV AND 132 KV GIS  
SUBSTATIONS ALONG WITH LINE BAY EXTENSION  
WORKS AND CONSTRUCTION OF TRANSMISSION  
LINES AT VARIOUS LOCATIONS**

**[PACKAGE-C3]**

**[Domestic Competitive Bidding]**

NIT No: CE(P)/WBSETCL/CompositePkg-C3/21-22/39 DT: 17.03.2022.

WBSETCL invites e-tender from bonafide, eligible bidders having experience in doing similar nature of work for construction of:-

- a) Khanakul 220 KV GIS substation **along with** Single circuit LILO of 220 KV Domjur – Arambagh Line at proposed Khanakul 220 KV GIS **(Route length 11.413 km approx.)**
- b) Silicon Valley 132 KV GIS substation **along with** 1 no 132 KV Line Bay at New Town AA I with modification requirement at New Town AA II 220 KV substation, 132 KV Single Circuit Underground line from New Town AA I 132 KV substation to Silicon Valley 132 KV GIS Substation **(Route length 6.7 km approx.)** and 132 KV Single Circuit Underground line from New Town AA II C 220 KV substation to Silicon Valley 132 KV GIS substation **(Route length 3 km approx.)**
- c) 132 KV Terminal Arrangement at Belda TSS **along with** 132 KV Double circuit by LILO of 132 KV Single circuit Egra-Hijli transmission line at Belda TSS **(Route length D/C 8.8 kms km approx. and S/C Route length 0.60 km approx)**

- d) Construction of 1 no. 420 KV 125 MVAR Reactor bay at New PPSP 400 KV substation, District - Purulia
- e) Construction of 2 nos. 220 KV AIS Feeder bays at Krishnanagar 132 KV AIS substation, District - Nadia.

Interested bidders may obtain bidding documents by registering themselves to the e-tendering portal (<https://wbtenders.gov.in> or <https://etender.wb.nic.in>) with the help of Digital Signature Certificate and thereby downloading from **17.03.2022** 11:00 A.M. and shall be submitted up to 4.00 PM on **20.04.2022**.

Detailed NIT is also available on WBSETCL website ([www.wbsetcl.in](http://www.wbsetcl.in)) and can be downloaded from the website for bidders' information only.

WBSETCL intends to finance this package through Loan/Bond.

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 procurement), B- Block, 10<sup>th</sup> Floor, WBSETCL, Bidyut Bhawan on or before **21.04.2022** up to 3.00 P.M.

DETAILED NOTICE INVITING TENDER

**WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED**

(A Govt of West Bengal Enterprise)

CHIEF ENGINEER (PROCUREMENT), VIDYUT BHAVAN

NOTICE INVITING TENDERS

For

**CONSTRUCTION OF 220 KV AND 132 KV GIS  
SUBSTATIONS ALONG WITH LINE BAY EXTENSION  
WORKS AND CONSTRUCTION OF TRANSMISSION  
LINES AT VARIOUS LOCATIONS**

**[PACKAGE-C3]**

**[Domestic Competitive Bidding]**

**Ref:** NIT No: CE(P)/WBSETCL/Composite Pkg–C3/21-22/39 DT: 17.03.2022

*West Bengal State Electricity Transmission Company Limited (WBSETCL)* invites bids from the eligible bonafide bidders on turnkey basis through Domestic Competitive Bidding for Design, engineering, construction, supply & delivery, erection, stringing, testing and successful commissioning including transportation & insurance and storage along with all other associated works as detailed below in respect of :-

- a) Khanakul 220 KV GIS substation **along with** Single circuit LILO of 220 KV Domjur – Arambagh Line at proposed Khanakul 220 KV GIS **(Route length 11.413 km approx.)**
- b) Silicon Valley 132 KV GIS substation **along with** 1 no 132 KV Line Bay at New Town AA I with modification requirement at New Town AA II 220 KV substation, 132 KV Single Circuit Underground line from New Town AA I 132 KV substation to Silicon Valley 132 KV GIS Substation **(Route length 6.7 km approx.)** and 132 KV Single Circuit Underground line from New Town AA II C 220 KV substation to Silicon Valley 132 KV GIS substation **(Route length 3 km approx.)**

- c) 132 KV Terminal Arrangement at Belda TSS **along with** 132 KV Double circuit by LILO of 132 KV Single circuit Egra-Hijli transmission line at Belda TSS **(Route length D/C 8.8 kms km approx. and S/C Route length 0.60 km approx)**
- d) Construction of 1 no. 420 KV 125 MVAR Reactor bay at New PPSP 400 KV substation, District - Purulia
- e) Construction of 2 nos. 220 KV AIS Feeder bays at Krishnanagar 132 KV AIS substation, District - Nadia.

against NIT No: **CE(P)/WBSETCL/CompositePkg-C3/21-22/39 DT: 17.03.2022.**

## 2. **SCOPE OF WORK:**

The brief scope of work is as under:

The work covered under this package for the construction of sub-station, bay extension and associated Transmission Line shall be but not limited to the following:

- i. Preparation of Sub-station layouts, detailed engineering, supply & delivery of all Sub-stations structures including equipment structures, GIS equipment and associated outdoor equipment conforming to technical specification and as per Schedule, civil foundations, GIS buildings, control building, utility buildings/quarters etc as applicable as furnished in the Bid document and other civil works etc.
- ii. Check survey work including profiling, tower spotting wherever necessary and detailed survey, if necessary.
- iii. Fabrication, galvanizing and supply of D/C towers (drawings of towers shall be provided by WBSETCL), Conductors (ACSR Moose and ACSR Panther), Earth wires (OPGW), UG XLPE cable, insulators, including all materials and accessories and other line materials as per Bid Schedule.
- iv. Design & Construction of Tower including Special River/Power/Rail/N.H X-ing, Dwarf, Composite & Auxiliary X-Arm Towers.
- v. Erection of substations in all respects including Fiber Optic Communication System, Bay Extensions and D/C & Special River/Power/Rail/N.H X-ing, Composite & Auxiliary X-Arm towers including fixing of insulator strings, stringing of conductors and earth-wire (OPGW), line materials and accessories including Earthing (Pipe type) of towers and laying of UG XLPE cable.

- vi. Testing, commissioning and handing over of the substations in all respects including Fiber Optic Communication System, Bay Extensions and Transmission Line.
- vii. Dismantling & removal of towers, conductors and earth wires with hard wares and accessories.

**However detail scope of work shall be given by the schedule of works.**

Interested eligible bidders may obtain further information on the bidding documents from the **Office of the Chief Engineer(Procurement) , WBSETCL** at the address given below:-

Vidyut Bhavan, 10<sup>th</sup>. Floor  
 B Block,  
 SaltLake, Block DJ  
 Sector II, Kolkata-91.

**2.1 Schedule of Work:**

<b>Sl.No</b>	<b>Name of Work</b>	<b>Description works</b>	<b>Completion Period</b>
1	SUBSTATION	Construction of Khanakul 220 KV GIS substation. The connecting substation for Khanakul substation is Arambagh 400 KV and Domjur 220 KV Substation.	20 Months from the date of LOA
2	SUBSTATION	Silicon Valley 132 KV GIS substation. The connecting substation for Silicon Valley substation is New Town AAI and New Town AAIC substations	18 Months from the date of LOA
3	TERMINAL ARRANGEMENT	132 KV Terminal Arrangement at Belda TSS. The connecting substation for Belda substation is Egra and Hijli substations	12 Months from the date of LOA
<b>LINE/REACTOR BAY EXTENSION WORKS</b>			
4	LINE BAY	1 no 132 KV Line Bay at New Town AA I and Modification requirement at New Town AA II 220 KV substation	12 Months from the date of LOA

5	LINE BAY	Construction of 2 nos. 220 KV AIS Feeder bays at Krishnanagar 132 KV AIS substation, District - Nadia.	12 Months from the date of LOA
6	REACTOR BAY	Construction of 1 no. 420 KV 125 MVAR Reactor bay at New PPSP 400 KV substation, District - Purulia	12 Months from the date of LOA
<b>ASSOCIATED TRANSMISSION LINES</b>			
7	TR. LINE	132 KV Single Circuit Underground line from New Town AA I 132 KV substation to Silicon Valley 132 KV GIS Substation ( <i>Route length 6.7 km approx.</i> )	18 months from the date of LOA
8	TR. LINE	132 KV Single Circuit Underground line from New Town AA II C 220 KV substation to Silicon Valley 132 KV GIS substation ( <i>Route length 3 km approx.</i> )	18 months from the date of LOA
9	TR. LINE	132 KV Single circuit LILO of 132 KV Single circuit Egra-Hijli transmission line at Belda TSS ( <i>Route length D/C 8.8 kms km approx. and S/C Route length 0.60 km approx</i> )	12 months from the date of LOA
10	TR. LINE	Single circuit LILO of 220 KV Domjur – Arambagh Line at proposed Khanakul 220 KV GIS ( <i>Route length 11.413 km approx.</i> )	20 months from the date of LOA

3.0 WBSETCL intends to finance this package through Loan/Bond.

4.0 Detailed Specification , scope of work and conditions are given in the bidding documents as per the following schedule :

<b>SL.No.</b>	<b>Particulars</b>	<b>Date &amp; Time</b>
1	Bidding document No	CE(P)/WBSETCL/Composite Pkg-C3/21-22/39 DT: 17.03.2022
2	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	17.03.2022 from 10.00 A.M.
3	Documents download/sell start date (Online)	17.03.2022 from 11.00A.M.
4	Documents download/sell end date (Online)	20.04.2022 up to 3:00 P.M.
5	Start date of hard copy submission of clarification/pre-bid queries/proposed modifications/additional information (if any)	17.03.2022 from 2.00 P.M.
6	Closing date of hard copy submission of clarification/pre-bid queries/proposed modifications / additional information (if any)	28.03.2022 up to 4.00 P.M.
7	Pre-bid meeting to be held at Office of the Chief Engineer (Procurement), 10 <sup>th</sup> Floor, B-Block Bidyut Bhawan.	04.04.2022 at 11.30 A.M.
8	Bid submission start date (On line)	12.04.2022 from 9:00 A.M.
9	Bid Submission closing (On line)	20.04.2022 up to 4.00 P.M.
10	Last Date of submission of original copies for the cost of Bidding Documents and Earnest Money Deposit (Off line) in sealed envelope.	21.04.2022 up to 03:00 P.M.

11	Last date of submission of the legally enforceable documents as mentioned in General guidelines for e-tendering in sealed envelope.	21.04.2022 up to 03:00 P.M.
12	Bid opening date for Technical Proposals (Online)	22.04.2022 from 4.00P.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 (INCLUSIVE OF 18 % GST)	Rs. 5900/-

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 (Procurement), B- Block, 10<sup>th</sup> Floor, WBSETCL, Bidyut Bhawan on or before **21.04.2022 up to 03.00 P.M.**

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

5.0 All bids must be accompanied by bid security for an amount of **Rs 4.94 Crores (Rupees Four Crore Ninety Four Lakh 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 (Procurement), 10<sup>th</sup> Floor, B-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:**

**STATE BANK OF INDIA  
CF BLOCK, SALT LAKE, CF-351, SECTOR-I, BIDHANNAGAR,  
KOLKATA 700064**

**ACCOUNT NO: 31279958953  
IFSC CODE SBIN0012360**

#### **6.0 Qualifying Requirement for bidders:**

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

#### **6.1 Technical Qualification**

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

**I)** Bids must be submitted by a registered Indian company that on its own (credentials of past experience as a JV partner shall not be considered) meets all technical & financial qualifications, personal capabilities, experience and requirements set forth in the bidding document.

**II.** The bidder must have executed at least one contract independently on turnkey basis for EHV line having a route length not less than **50 Km in case of 220 KV** and above voltage class line in a single contract during last **5 years** with complete survey, design, testing and engineering, supply of materials (tower members, conductor, GSS & OPGW earth-wire, insulators, hardware and accessories), erection, stringing, testing and commissioning of the line.

The above line(s) should be in successful operation for at least one year from the date of commissioning as on the date of NIT. The bidder shall furnish satisfactory completion/operation certificate from the concerned authority (to be supported by Taking Over Certificate).

**III.** The Bidder should have successfully executed at least one contract of transmission line which includes 132 kV or higher voltage class underground cable laying, jointing and termination of not less than **4.85 Kms** of underground cable laying work in aggregate including testing, commissioning within last **five years from the date of NIT**.

**OR**

The Bidder may engage any other agency who have successfully executed contract under any utility in India which includes underground cable laying, jointing the termination of not less than **4.85 Kms** of underground cable laying work in aggregate, 132 KV or higher voltage class underground XLPE cable including testing, commissioning under any power utility in India with **last five years** from the date of NIT and the Bidder must obtain authorization from any such execution contractor supported by legally enforceable undertaking jointly to guarantee quality, performance, service support and defect liability obligations as specified in the relevant technical specification and General Condition of Contract.

**IV.** The bidder, must have successfully erected, tested and commissioned on supply cum erection basis at least one number substation of **220 KV** or higher KV class complete substation or Extension of existing substation including complete design and engineering under Turnkey contract in India, during last **7 years from the date of NIT**. Such complete substation or Extension of existing substation must have at least 3 (three) numbers **220 kV or higher kV class** complete bays (including supply of transformer or reactor which must be in successful operation for at least one year from the date of NIT).

The bidder should submit history of past supply, client's certificate (project executed under PPP/TBCB/Employer or from the concerned Govt. agency etc.) in support of satisfactory operation of **220 KV or above KV class** substation meeting the criteria as mentioned above.

**V.** The bidder must have completed (with design & execution) one **132 KV** or higher KV class complete substation with all buildings, civil infrastructures, SCADA/SAS etc. as turnkey basis during **last 7 (seven) years from date of NIT**. Such substation must be in successful operation for at least one year from date of NIT.

**VI.** The bidder shall either have the manufacturing capability of fabricated tower members at his own plant or shall have clear access from other reputed manufacturing plant of

fabricated tower members (to be supported by legally enforceable documents like MOU and Affidavit regarding Eligibility of the Fabricator) having yearly manufacturing capacity of **9000 M.T.** Such plant must have manufactured an average of **6000 M.T during last three years.**

**VII.** The bidder should have in-house design development department and have their own NABL accredited Tower testing facility capable of testing the tendered voltage class (**400 KV/220 KV/132 KV**) or higher voltage class transmission line tower in India.

**VIII.** The bidder shall procure GIS equipment from WBSETCL enlisted GIS equipment manufacturer. The Bidder shall also submit a legally enforceable undertaking (jointly with the GIS manufacturer) to guarantee quality, timely supply, erection, performance and warranty obligations as specified for the equipment(s). Installation, testing and commissioning of GIS equipment shall be done under direct supervision of the original GIS equipment manufacturer.

**IX.** The bidder shall procure OPGW from eligible reputed manufacturer who have manufactured, type tested and supplied at least **100 KM of OPGW during last 3 years** in Indian power utilities from the date of NIT.

**X.** The Bidder shall procure relevant type of OFC and other accessories from eligible reputed manufacturer who have manufactured and supplied minimum **10 (ten) KM of fibre optic cable during last 3(three) years** in Indian utilities from the date of NIT.

**XI.** Bidder must Supply **Power Transformer** from a reputed manufacturer complying the following criteria:

*a) An original manufacturer of the same or higher rated (both in voltage class and power rating) transformers having manufacturing plant in India.*

*b) The Transformer manufacturer must have delivered **at least 4 nos** of same or higher rated (both in Voltage and Power rating) transformers in one financial year during last 5 (five) financial years from the date of NIT to any Power Utility in India.*

*c) The same or higher rated (both in voltage and power rating) transformers must have been in successful operation in any Indian Power Utility for not less than one (01) year as on date of NIT.*

**XII.** Bidder must Supply **Reactor** from a reputed manufacturer complying the following criteria:

*b) An original manufacturer of the same or higher rated (both in voltage class and power rating) Reactor having manufacturing plant in India.*

*b) The Reactor manufacturer must have delivered **at least 4 nos** of same or higher rated (both in Voltage and Power rating) reactors in one financial year during last 5 (five) financial years from the date of NIT to any Power Utility in India.*

*d) The same or higher rated (both in voltage and power rating) reactors must have been in successful operation in any Indian Power Utility for not less than one (01) year as on date of NIT.*

**XIII.** All equipment offered should be type tested as per latest IS/IEC and relevant specification with a validity as specified in latest CEA guidelines on the date of NIT.

**XIV.** All equipment must be supplied from the latest approved makers list and specification of WBSETCL as uploaded in the company website.

**XV.** The Bidder should have successfully executed/completed any transmission line project under Central/State Power Utility or TBCB in any one project **within 18 (eighteen) months during last Seven (7) financial years** and the executed value of such project in any One (1) financial year shall not be less than **Rs 74.10 Crore**.

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

## **6.2 Personnel Capability**

The bidder must have full-fledged set up for executing similar turnkey projects. 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 (Engineering Graduate) with at least 10 (ten) years of experience in execution of such contract of comparable nature. He

shall be stationed at work site. **However, installation, testing and commissioning of GIS equipment shall be done under direct supervision of the original GIS equipment manufacturer.**

### **6.3 Financial**

- i) The **Net worth** at the end of last financial year shall be not less than **Rupees 62 Crore (Rupees Sixty Two Crore)** only.
- ii) The **average yearly turnover** over the last three financial years shall not be less than **Rupees 223 Crore (Rupees Two Hundred and Twenty Three Crore)** only.
- iii) **Liquid Asset** must not be less than **Rs. 37.5 Crore (Rupees Twenty Seven Crore)**. Bidders shall have Liquid Asset (LA) and/or evidence of access to or availability of credit facilities of equivalent amount.

7.0 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.

8.0 Address for Communication :

**The Addl.C.E& Nodal officer (9434910724),  
O/o The Chief Engineer,  
Procurement Department, 10th.Floor, 'B' Block,  
Vidyut Bhavan, Block-DJ, Sector-II, Salt Lake,  
Kolkata-700091.**

**WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY  
LIMITED**

**FAX : 91-33-2359-1894**

**TELEPHONE : 91-33-23197713/ 91-33-23595041**

**E-mail : [ceprocurement\\_wbsetcl@rediffmail.com](mailto:ceprocurement_wbsetcl@rediffmail.com)**

**Website : [www.wbsetcl.in](http://www.wbsetcl.in)**

- **E-mail ID for online submission of Pre-Bid Queries: [prebidqueries@gmail.com](mailto:prebidqueries@gmail.com)**