

WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED

Tender Document  
for

CONSTRUCTION OF 220 KV GIS SUBSTATION AT **FALAKATA** (DISTRICT – ALIPURDUAR) ALONG WITH CONSTRUCTION OF **INDUS TSS**, DISTRICT - BANKURA, 2 NOS. 132 KV AIS FEEDER BAYS AT **BERHAMPORE 132 KV AIS SUBSTATION**, DISTRICT - MURSHIDABAD, 2 NOS. 132 KV GIS FEEDER BAYS AT **DOMKOL 132 KV GIS SUBSTATION**, DISTRICT - MURSHIDABAD AND AUGMENTATION OF TRANSFORMER CAPACITY FROM EXISITING 2 X 50 MVA TO 3 X 50 MVA AT **DOMKAL 132 KV GIS SUBSTATION**  
**[PACKAGE-70]**

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NIT No. CE(P)/WBSETCL/Sub-stn Pkg-70/20-21/20 DT 01.02.2021

**Section I – V,VIIA,VIIIB**

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Instruction to Bidders (ITB)

Bid Data Sheet (BDS)

General Conditions of Contract (GCC)

Special Conditions of Contract (SCC)

Bid Forms

Annexures



**WBSETCL**

CHIEF ENGINEER (PROCUREMENT)  
WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY  
LIMITED  
VIDYUT BHAVAN  
10<sup>TH</sup>. Floor, 'B' BLOCK  
SALTLAKECITY, KOLKATA – 700 091

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.

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## Section I - NOTICE INVITING TENDER

ABRIDGED NOTICE INVITING TENDER

WBSETCL

(A Govt of West Bengal Enterprise)

CHIEF ENGINEER (PROCUREMENT), VIDYUT BHAVAN

NOTICE INVITING TENDERS

For

CONSTRUCTION OF 220 KV GIS SUBSTATION AT **FALAKATA** (DISTRICT – ALIPURDUAR) ALONG WITH CONSTRUCTION OF **INDUS TSS**, DISTRICT - BANKURA, 2 NOS. 132 KV AIS FEEDER BAYS AT **BERHAMPORE 132 KV AIS** SUBSTATION, DISTRICT - MURSHIDABAD, 2 NOS. 132 KV GIS FEEDER BAYS AT **DOMKOL 132 KV GIS** SUBSTATION, DISTRICT - MURSHIDABAD AND AUGMENTATION OF TRANSFORMER CAPACITY FROM EXISITING 2 X 50 MVA TO 3 X 50 MVA AT **DOMKAL 132 KV GIS** SUBSTATION

### **[PACKAGE-70]**

**[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, civil construction, supply & delivery (**Power Transformers to be supplied by WBSETCL**), erection, testing and commissioning including transportation & insurance, storage in respect of the following:
  - (a) Construction of 220 KV GIS at **Falakata**, District – Alipurduar
  - (b) Construction of **Indus TSS**, District - Bankura
  - (c) Construction of 2 nos. 132 KV AIS Feeder bays at **Berhampore 132 KV AIS** substation, District - Murshidabad.
  - (d) Construction of 2 nos. 132 KV GIS Feeder bays at **Domkol 132 KV GIS** substation, District - Murshidabad.

(e) Augmentation of Transformer Capacity from existing 2 X 50 MVA to 3 X 50 MVA at **Domkal 132 KV GIS** substation.

and other associated works as defined in the bid document on '**Turn-key Basis**' against **NIT No. CE(P)/WBSETCL/Sub-stn Pkg-70/20-21/20 DT 01.02.2021.**

Interested Bidder may download the Bid documents from **01.02.2021 from 11.00 A.M. and Bids shall be submitted online up to 4.00 P.M. on 26.02.2021.**

WBSETCL intends to finance this package through Loan/Bond.

Intending bidder may download the tender documents from the website <http://etender.wb.nic.in> OR [wbtenders.gov.in](http://wbtenders.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 up to **01.03.2021 up to 03.00 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 GIS SUBSTATION AT **FALAKATA** (DISTRICT – ALIPURDUAR) ALONG WITH CONSTRUCTION OF **INDUS TSS**, DISTRICT - BANKURA, 2 NOS. 132 KV AIS FEEDER BAYS AT **BERHAMPORE 132 KV AIS** SUBSTATION, DISTRICT - MURSHIDABAD, 2 NOS. 132 KV GIS FEEDER BAYS AT **DOMKOL 132 KV** GIS SUBSTATION, DISTRICT - MURSHIDABAD AND AUGMENTATION OF TRANSFORMER CAPACITY FROM EXISITING 2 X 50 MVA TO 3 X 50 MVA AT **DOMKAL 132 KV GIS** SUBSTATION

**[Package-70]**

**[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, civil construction, supply & delivery (**Power Transformers to be supplied by WBSETCL**), erection, testing and commissioning including transportation & insurance, storage in respect of the following:
  - (a) Construction of 220 KV GIS at **Falakata**, District – Alipurduar
  - (b) Construction of **Indus TSS**, District - Bankura
  - (c) Construction of 2 nos. 132 KV AIS Feeder bays at **Berhampore 132 KV AIS** substation, District - Murshidabad.
  - (d) Construction of 2 nos. 132 KV GIS Feeder bays at **Domkol 132 KV GIS** substation, District - Murshidabad.
  - (e) Augmentation of Transformer Capacity from existing 2 X 50 MVA to 3 X 50 MVA at **Domkal 132 KV GIS** substation.

and other associated works as defined in the bid document on ‘**Turn-key Basis**’ against **NIT No. CE(P)/WBSETCL/Sub-stn Pkg-70/20-21/20 DT 01.02.2021.**

Interested Bidder may download the Bid documents from **01.02.2021 from 11.00 A.M. and Bids shall be submitted online up to 4.00 P.M. on 26.02.2021.**

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

The brief scope of work is as under:

The work covered under this package is for construction of sub-station and bays on Turn-Key basis as briefed below:

1	CONSTRUCTION OF 220 KV GIS SUBSTATION AT <b>FALAKATA</b> , DISTRICT ALIPURDUAR The linking substations for establishment of telecommunication with Falakata substation are 220 KV substations at Alipurduar and Birpara along with 132 KV Substations at Coochbehar, Dinhata and Mathabhanga, WBSETCL.
2	CONSTRUCTION OF <b>INDUS TSS</b> , DISTRICT - BANKURA
3	CONSTRUCTION OF 2 NOS. 132 KV AIS FEEDER BAYS AT <b>BERHAMPORE</b> 132 KV AIS SUBSTATION, DISTRICT - MURSHIDABAD.
4	CONSTRUCTION OF 2 NOS. 132 KV GIS FEEDER BAYS AT <b>DOMKOL</b> 132 KV GIS SUBSTATION, DISTRICT - MURSHIDABAD.
5	AUGMENTATION OF TRANSFORMER CAPACITY FROM EXISTING 2 X 50 MVA TO 3 X 50 MVA AT <b>DOMKAL 132 KV GIS</b> SUBSTATION, DISTRICT - MURSHIDABAD.

This also includes the following but not limited to:

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 along with erection, testing and commissioning of substations in all respects including Fiber Optic Communication System.



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:

	Package no	Name of sub-station	Brief scope of works	Status of Sub-station and Completion time
1	70	<b>Falakata 220 KV GIS</b>	<p><b>220 KV GIS SS comprising of :</b></p> <p><b>a) 220 KV:</b> 245KV, 40KA for 3sec, 2000 A Double Bus Bar, 3phase / one phase encapsulated GIS suitable for cable entry . The GIS equipment includes Local Control Cubicle (LCC) with all required accessories and Gas monitoring system. The complete system shall be as per technical specification and requirement comprising of - 4 numbers Feeder Bays, 2 number Transformer Bay, 1 no. (One) Bus coupler Bay, 3 phase Bus PT, each for Main Bus-I &amp; Main Bus-II with disconnectors &amp; earth switch, Disconnector with earthing arrangement at both the Main Bus I &amp; II for future extension, Other required equipment &amp; accessories like Bus Earth Switch etc. to complete the GIS system and PD Monitoring system &amp; Dew point meter to complete the GIS system as detailed in Schedule of Works.</p> <p><b>a) 132 KV - 145KV,</b> 31.5KA for 3sec, 2000 A Double Bus Bar, 3phase / one phase encapsulated GIS suitable for cable entry. The</p>	New <b>Completion time 20 Months from the date of LOA</b>

			<p>GIS equipment includes Local Control Cubicle (LCC) with all required accessories and Gas monitoring system. The complete system shall be as per technical specification and requirement comprising of – 4 nos Feeder bays, 4 nos Transformer bays, 1 no. Bus Coupler bay, 3 phase Bus PT, each for Main Bus-I &amp; Main Bus-II with disconnectors &amp; earth switch, Disconnector with earthing arrangement at both the Main Bus I &amp; II for future extension, Other required equipment &amp; accessories like Bus Earth Switch etc. to complete the GIS system.</p> <p><b>b) 33 KV–36 KV, 31.5KA for 3sec Indoor, floor mounted drawout Switchgear Assembly (2500A Bus rating with Copper Bus Bar) with VCB and bus earthing arrangement from both side, including Protection Relays, control &amp; annunciation equipment and other accessories complete as per technical specification and requirement comprising of - - 14 sets of Outgoing Feeder Bays, (capacity 1250A), 2 nos. Transformer Bays, 1 no. Bus section Bay <b>and</b>2(two) set of 3 phase Bus PT - 5 limb with isolation arrangement along with other required equipment and accessories like Bus earthing arrangement etc to complete the system to complete the system as detailed in the Schedule of Works.</b></p>	
2	70	Construction of <b>Indus TSS</b> , District -	132 KV Terminal Arrangement at Indus 132 KV TSS	Existing <i>Completion time 12 Months from the date of</i>

		Bankura		<b>LOA</b>
3	70	Construction of 2 nos. 132 KV AIS Feeder bays at <b>Berhampore</b> 132 KV AIS substation, District - Murshidabad.	Construction of 2 nos 132 KV GIS line bays at Indus 132 KV GIS substation	Existing <b>Completion time 12 Months from the date of LOA</b>
4	70	Construction of 2 nos. 132 KV GIS Feeder bays at <b>Domkol</b> 132 KV GIS substation, District - Murshidabad.	Construction of 1 no 420 KV GIS Dia at New PPSP 400 KV GIS substation	Existing <b>Completion time 12 Months from the date of LOA</b>
5	70	Augmentation of Transformer Capacity from existing 2 X 50 MVA to 3 X 50 MVA at <b>Domkal</b> 132 KV GIS substation		Existing <b>Completion time 12 Months from the date of LOA</b>
6	70		The above scope shall also include supply, delivery, erection, testing and commissioning of Communication System works at linking substations,	

			Establishment of Sub-station Automation System (if applicable for both Part A and B) and other allied works as laid down in the bidding documents, Technical Specification and BOQ.	
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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>Particulars</b>	<b>Date &amp; Time</b>
<b>1</b>	<b>Bidding document No</b>	<b>CE (P) / WBSETCL / Sub-stn Pkg-70/20-21/20 DT 01.02.2021</b>
<b>2</b>	<b>Date of uploading of N.I.T. &amp; other Documents (online) (Publishing Date)</b>	<b>01.02.2021 from 10.00 A.M.</b>
<b>3</b>	<b>Documents download/sell start date (Online)</b>	<b>01.02.2021 from 11.00 A.M.</b>
<b>4</b>	<b>Documents download/sell end date (Online)</b>	<b>26.02.2021 up to 3:00 P.M.</b>
<b>5</b>	<b>Start date of hard copy submission of clarification/pre-bid queries / proposed modifications / additional information (if any)</b>	<b>01.02.2021 from 2.00 P.M.</b>
<b>6</b>	<b>Closing date of hard copy submission of clarification/pre-bid queries/proposed modifications / additional information (if any)</b>	<b>05.02.2021 up to 4.00 P.M.</b>
<b>7</b>	<b>Pre-bid meeting to be held at Office of the Chief Engineer (Procurement), 10<sup>th</sup> Floor, B-Block Bidyut Bhawan.</b>	<b>10.02.2021 at 11.30 A.M.</b>
<b>8</b>	<b>Bid submission start date (On line)</b>	<b>22.02.2021 from 9:00 A.M.</b>
<b>9</b>	<b>Bid Submission closing (On line)</b>	<b>26.02.2021 up to 4.00 P.M.</b>
<b>10</b>	<b>Last Date of submission of original copies for the cost of Bidding Documents and Earnest Money Deposit (Off line)</b>	<b>01.03.2021 up to 03.00 P.M.</b>
<b>11</b>	<b>Last date of submission of the legally enforceable documents as mentioned in General guidelines for e-tendering in sealed envelope.</b>	<b>01.03.2021 up to 03:00 P.M.</b>

<b>12</b>	<b>Bid opening date for Technical Proposals (Online)</b>	<b>02.03.2021 from 4.00 P.M.</b>
<b>13</b>	<b>Date of uploading list for Technically Qualified Bidder(online)</b>	<b>Will be uploaded after completion of the techno-commercial evaluation.</b>
<b>14</b>	<b>Date for opening of Financial Proposal (Online)</b>	<b>Will be published in due course.</b>
<b>15</b>	<b>Cost of Bidding Document (INCLUSIVE OF 18 % GST)</b>	<b>Rs 5900/- (Rs Five Thousand Nine Hundred Only)</b>

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 **01.03.2021 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 2 bid securities for an amount of **Rs 1 Crore 43 Lakh 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, 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) a)** The bidder, must have successfully erected, tested and commissioned on supply cum erection basis 220 KV or higher KV class complete GIS substation (Normal or Hybrid) as per this tender, including complete design and engineering (both electrical and civil), under Turnkey contract, in India whose Order/Executed value in a single order shall not be less than **43 Crore** of the NIT Cost Estimate as specified in 6.3 (iv).

Such complete substation must have at least 5 (five) nos. Rated KV or higher KV class complete bays including two numbers feeder bay and two numbers transformer bay in India during last 7 years from the date of bid submission which must be in successful operation for at least one year from the date of Bid submission. The bidder should submit history of past supply, client's certificate in support of satisfactory operation of rated KV or above KV class gas insulated substation meeting the criteria as mentioned above. Credentials as Joint Venture shall not be considered.

**OR**

**i). b.** Any WBSETCL enlisted GIS equipment manufacturer, who has established manufacturing and testing facility in India for 220 KV or higher voltage class GIS as Subsidiary/Group company by its parent/principal but not meeting the requirement stipulated above shall also be considered provided:

**1)** The bidder, must have manufactured, at least 3 nos 220 KV or higher voltage class GIS Circuit breaker bays based on technological support of the parent/principal and provided that the parent/principal meets the requirement as stated in 6.1.i) a above. Further the Bidder must have either supplied or type tested above Circuit breaker bays (as per IEC or equivalent standard) as on the Bid submission date for the instant tender.

**2)** The Bidder shall also submit a legally enforceable undertaking (jointly with the parent/principal company) to guarantee quality, timely supply, performance and warranty obligations as specified for the equipment(s).

**3)** A confirmation Letter from the parent/principal company stating that the parent/principal company shall furnish performance guarantee for an amount of 10% of the Contract Price. This performance guarantee shall be in addition to Contract Performance Guarantee and shall be valid till completion of the project with an additional claim period of three months.

**4)** A valid collaboration agreement for technology transfer/license to design, manufacture, test and supply rated or higher voltage class GIS equipment in India.

**ii)** WBSETCL reserves the right to assess the performance of the bidder having one or more ongoing/commissioned contracts awarded to them by WBSETCL on the basis of its (WBSETCL's) average Vendor Rating Score in respect of erection part of the Contract(s). The average score computed from the marks achieved by the bidder in the last one (1) year from the final date of bid submission of the tender shall not be less than **50** marks.

Average score is derived by averaging the scores achieved by the bidder in the last 12 months from the final bid submission date. The score of the Bidder shall be as per the "Performance of sub-station Vendor" in each month.

iii) All equipment including GIS module must be supplied from any of the approved vendors of WBSETCL as available in the makers list uploaded in the company website. A declaration in this regard shall have to be furnished as a supporting document.

iv) All GIS equipment offered for this package should have been type tested within the last 10 (Ten) years.

## **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 18.00 Crore (Rupees Thirteen Crore Lakh)** only.

ii) The **average yearly turnover** over the last three financial years shall not be less than **Rupees 65.00 Crore (Rupees Fifty One Crore)** only.

iii) **Liquid Asset** must not be less than **11.00 Crore (Rupees Nine Crore)**. Bidders shall have Liquid Asset (LA) and/or evidence of access to or availability of credit facilities of equivalent amount.

iv) Single Order Value of the substation project executed in terms of Technical QR Clause 6.1 (i) should not be less than **Rs43 Crore (Rupees Thirty One Crore)** only.

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 Chief Engineer, Procurement Department, 10<sup>th</sup>.Floor, 'B' Block, Vidyut Bhavan, Block-DJ, Sector-II, SaltLake, Kolkata-700091.**

WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED

FAX : 91-33-2359-1894

TELEPHONE : 91-33-23197395/ 91-33-23591956

E-mail : [prebidqueries@gmail.com](mailto:prebidqueries@gmail.com)(ONLY FOR PRE BID QUERIES)

**ANY OTHER COMMUNICATION:** [ceprocurement\\_wbsetcl@rediffmail.com](mailto:ceprocurement_wbsetcl@rediffmail.com)

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