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/132 KV AIS SUB-STATION AT ALIPURDUAR, DISTRICT – ALIPURDUAR, ALONG WITH CONSTRUCTION OF 220 KV D/C TRANSMISSION LINE FROM ALIPURDUAR PGCIL SUB-STATION TO PROPOSED ALIPURDUAR 220 KV SUB-STATION (R.L. 6.10 km approx)

(Package-27)

[Domestic Competitive Bidding]

1.0 West Bengal State Electricity Transmission Company Limited herein referred to as WBSETCL invites sealed bids through Domestic Competitive Bidding (DCB) from eligible bidders for

(i) Design, engineering, civil construction, supply & delivery (Power Transformers to be supplied by WBSETCL), erection, testing and commissioning including transportation & insurance, storage in respect of Alipurduar 220 KV GIS/132 KV AIS Sub-station along with its associated works as defined in the Bid document on ‘Turn-key Basis’.

(ii) Supply of materials, Conductor (Moose), GSW earth-wire, hardware materials and accessories along with Construction of Tower, Design and Construction of Tower foundations, erection, stringing, testing and commissioning of 220 KV D/C transmission line with single Moose Conductor from Alipurduar PGCIL sub-station to proposed Alipurduar 220 KV WBSETCL sub-station as defined in the bid document on ‘Turn-key Basis’ (approx Route length 6.10 km).

(iii) Establishment of PLCC Link between Alipurduar PGCIL sub-station and proposed Alipurduar 220 KV sub-station, WBSETCL including supply of associated materials for both end as specified in the Bid document on ‘Turn-key Basis’.

against NIT No. CE (Procurement)/ WBSETCL/ Trans Project/Sub-Stn/Package27/2014-15/17 Dated 17/09/2014.
2.0 SCOPE OF WORK

The brief scope of work is as under:

The work covered under this package is for construction of SUBSTATION AND TRANSMISSION LINE along with establishment of PLCC Line on Turn-Key basis as briefed below:

<p>| | |</p>
<table>
<thead>
<tr>
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<th></th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>Construction of 220 KV D/C transmission line with single moose conductor from Alipurduar PGCIL sub-station to proposed Alipurduar 220 KV WBSETCL sub-station.</td>
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<tr>
<td>B</td>
<td>Establishment of PLCC Link between Alipurduar PGCIL sub-station and proposed Alipurduar 220 KV sub-station, WBSETCL including supply of associated materials for both end</td>
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</table>

A. **The work covered under this tender for 220KV GIS/132 KV AIS sub-station shall also include but not limited to the following:**

Preparation of Sub-station layout, detailed engineering, supply & delivery of all Sub-stations structures including equipment structures, GIS equipments and associated outdoor/indoor equipments conforming to technical specification and as per Schedule, civil foundations, Integrated GIS buildings, utility buildings etc as applicable as furnished in the Bid document and other civil works etc along with erection, testing and commissioning of substation in all respects including Power Line Carrier Communication through 220 KV transmission lines.

B. **The work covered under this tender for 220 KV Transmission Line shall also include but not limited to the following:**

i) Check survey work including profiling, tower spotting wherever necessary and detailed survey, if necessary.
ii) Fabrication, galvanizing and supply of D/C towers, GSW, insulators including all materials, accessories and other line materials as per Bid Schedule.
iii) Design & Construction of tower foundations for 220 KV D/C transmission line tower.
iv) Erection of D/C towers including fixing of insulator strings, stringing of conductors and earth-wires (GSW) along with all necessary tower and line materials and accessories including earthing of towers.
v) Testing, commissioning and handing over of the line.

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, 10th. Floor
B Block,
Salt Lake, Block DJ
Sector II, Kolkata-91.
### 2.1 Schedule of Work:

<table>
<thead>
<tr>
<th>Sl no</th>
<th>Package no</th>
<th>Name of substation/Tr. Line</th>
<th>Brief scope of works</th>
<th>Status of Substation/Tr. line</th>
</tr>
</thead>
</table>
| 1     | 27         | Alipurduar 220/132KV       | (i) 220 KV GIS SS comprising 2 numbers Feeder Bays, 2 numbers 160 MVA Transformer Bays, 1 number Bus Coupler bay with 2 nos Bus PT for Main bus I and II along with disconnectors and Earth switch as detailed in the Schedule of Works.  
(ii) 2 nos 630 KVA, 33/0.4 KV Station Service Transformer as detailed in the Schedule of Works.  
(iii) 2 numbers 132 KV Transformer Bays and 1 no. Bus Transfer bay as detailed in the Schedule of Works. | NEW |
|       |            | Alipurduar 132KV (AIS)     |                      | EXISTING |
| 2     | 27         | 220 KV D/C Transmission Line from PGCIL Alipurduar sub-station to proposed WBSETCL Alipurduar 220 KV sub-station (Route Length 6.10 km Approx) | (i) Supply of materials, Conductor (Moose), GSW earth-wire, hardware materials and accessories  
(ii) Construction of Tower, tower foundations, erection, stringing, testing and commissioning of 220 KV D/C transmission line. | NEW |
Establishment of PLCC Link between Alipurduar PGCIL sub-station and proposed Alipurduar 220 KV sub-station, WBSETCL including supply of associated materials for both end as detailed in the Schedule of Works.

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, which are available for sale at the address given below as per the following schedule:

<table>
<thead>
<tr>
<th>Bidding document No</th>
<th>:</th>
<th>CE (Procurement)/ WBSETCL/ TransProject / Sub-Stn/Package 27 (Alipurduar) /2014-15 /17 Dated 17.09.2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Document sale date &amp; time</td>
<td>:</td>
<td>From 17.09.2014 to 29.09.2014 (Monday to Friday except holidays) From 11-00 AM to 3-00 PM</td>
</tr>
<tr>
<td>Last Date of Submission of Clarifications/Queries for Pre-Bid meeting</td>
<td>:</td>
<td>11.10.2014 by 1.30 P.M.</td>
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<tr>
<td>Pre-bid meeting</td>
<td>:</td>
<td>21.10.2014 at 11.30 A.M.</td>
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<td>Bid receipt date &amp; time</td>
<td>:</td>
<td>Up to 11.11.2014 by 2-00 PM</td>
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<tr>
<td>Bid opening date &amp; time</td>
<td>:</td>
<td>11.11.2014 at 3-00 PM</td>
</tr>
<tr>
<td>Cost of bidding document</td>
<td>:</td>
<td>Rs5000/- [Rupees Five Thousand only]</td>
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A complete set of bidding documents may be purchased by any interested bidder on submission of a written application and payment (non-refundable) of the cost of the bidding documents 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.

Issuance of bidding documents shall not automatically construe that the bidder fulfils the Qualifying Requirements which shall be determined during bid evaluation based on data/documents submitted by the bidder.
5.0 All bids must be accompanied by bid security for an amount of Rs 1.40 Crore [Rupees One Crore and Forty 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. Bids not accompanied with an acceptable bid security as specified in bidding documents, in a separate cover or bids accompanied with bid security of inadequate value shall be rejected by the WBSETCL and in such cases bids shall be returned to the bidders unopened.

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

A) Technical Qualification of the manufacturer of GIS equipment as the Bidder:

(i) The Bidder should have experience of manufacturing, testing and supply of 220 KV or higher class GIS equipment consisting of minimum 3 (three) nos. complete GIS bays consisting of at least one number feeder bay, one number transformer bay and one no. Bus Coupler bay which have already been installed and commissioned in any Indian power utility under Turn Key Contracts during last 5 (five) years from the date of NIT and the said GIS equipments bays are under satisfactory operation for not less than 1(one) year as on date of NIT (to be supported by authenticated documents).

OR

In case, the GIS manufacturer does not meet the QR laid down in 6.1 A) (i) as above, then any Indian manufacturer of GIS equipment can bid as a licensee of the qualified manufacturer or technology owner of the GIS technology, offered in the bid where the Licensor must have minimum ten years of design, testing and commercial deployment experience of the same technology globally with minimum of one year satisfactory operation of their equipment in any power utility in India supplied within the last five years. The authorized licensee must have its own registered office in India. The authorised licensee must also furnish a legally enforceable agreement between himself (as the bidder) and the Licensor in its bid, valid for a further period of five years after guarantee period of the GIS equipment covering the following:

⇒ The Licensor must guarantee sequential, timely supply, performance, service support, availability of spares during life cycle of the offered equipment and defect liability obligations as specified in the relevant technical specification/GCC.
⇒ Any design undertaken by the licensee must be approved by the licensor.
a) In addition to Contract Performance Guarantee, the Licensee shall
furnish additional performance guarantee in the form of Bank
Guarantee for 10% of the value of the contract for successful
performance of the GIS Equipment to be manufactured and supplied
by the Licensee under the contract.

(ii) However, the bidder, must have successfully erected, tested and
commissioned on supply cum erection basis at least one 220 KV or higher
KV Class sub-station (either AIS or GIS) under Turnkey contract in India
including complete design and engineering (both electrical and civil),
having at least 3 (three) nos. 220 KV or higher KV class complete bays -
out of which two nos. must be feeder bays and one no. must be a power
transformer bay (with or without supply of power transformer), during last
5 (five) years from the date of NIT in any Indian power utility which must
be in successful operation for at least one year from the date of NIT (to be
supported by authenticated documents) whose scope of work must also
include Construction of new 220 KV/higher KV Control Building;
Infrastructural works like roads, drainage system, cable trench system etc.

(iii) All equipment including GIS equipment offered for this package shall be
type tested. Copies of type test reports identical to the offered GIS
equipment, as per details given in technical specifications, shall be
attached with the bid document. Test reports of the other equipments shall
be submitted by the successful bidder during detail engineering.

(iv) The bidder should submit history of past supply, client’s certificate in
support of satisfactory operation of 220 KV or above KV class substation
meeting the criteria as mentioned in 6.1 A) (ii) and 220 KV or above KV
class GIS equipments meeting the criteria as mentioned in 6.1 A) (i)
above.

(v) The bidder must have executed independently on turn-key basis at least
one contract for EHV lines of 220 KV or higher class having length not
less than 5 Km. during last five years with complete survey, engineering,
design and construction of foundation, supply of materials (with or without
conductor and insulator), erection, stringing and commissioning of the
line. The bidder shall furnish certificate stating timely completion and
satisfactory performance certificate for similar executed contracts
(supported by Taking over Certificate).

OR

In case, the Bidder does not meet the QR laid down in 6.1 A) (v) as above,
the bidder may engage a Transmission line Erection contractor who has
successfully erected not less than 5 km 220 KV or higher voltage class
Transmission line with complete survey, engineering, design and
construction of foundation, erection, stringing and commissioning of the
line (to be supported by authenticated documents).
However, the Bidder must furnish a legally enforceable deed of agreement
with the Transmission line erection Contractor meeting the above criteria
to guarantee quality, performance, service support and defect liability
obligations as specified in the relevant Technical Specification and General Condition of Contract.

(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 deed of agreement) having **yearly manufacturing capacity of 6000M.T.** Such plant must have manufactured an average of 4000M.T during last three years.

(vii) The bidder shall procure relevant type of conductor from eligible reputed manufacturer who have manufactured and supplied average **1000KM/year** of the relevant type of conductor during last 5 years in Indian power utilities from the date of NIT.

(viii) The bidder shall procure relevant type of insulator from eligible reputed manufacturer who have manufactured and supplied minimum **50000 Nos.** of relevant type of insulator during last 5 years in Indian power utilities from the date of NIT.

B) **Technical Qualification for Indian EPC sub-station contractor as Bidder:**

(i) The bidder must have successfully erected, tested and commissioned on supply cum erection basis at least one 220 KV or higher KV Class sub-station(either AIS or GIS) under Turnkey contract in India including complete design and engineering (both electrical and civil), having at least 3(three) nos. 220 KV or higher KV class complete bays - out of which two nos. must be feeder bays and one no. must be a power transformer bay (with or without supply of power transformer), during last 5(five) years from the date of NIT in any Indian power utility which must be in successful operation for at least one year from the date of NIT (to be supported by authenticated documents) whose scope of work must also include Construction of new 220 KV/higher KV Control Building; Infrastructural works like roads, drainage system, cable trench system etc.

(ii) The bidder shall supply 220 KV class GIS equipment from any national / internationally reputed manufacturer of GIS equipment who meets the QR as laid down in Serial 6.1 A) (i) above. However, the Bidder must obtain authorization from the manufacturer of GIS equipment meeting the above criteria supported by legally enforceable undertaking jointly with the GIS manufacturer to guarantee quality, timely supply, performance, service support, availability of spares during lifecycle of the offered equipments and defect liability obligations as specified in the relevant technical specification and General Condition of Contract. The same is also applicable if bidders’ parent company (principals) is the supplier of GIS equipment.

(iii) All equipment including GIS equipment offered for this package shall be type tested. Copies of type test reports identical to the offered GIS equipment, as per details given in technical specifications, shall be
attached with the bid document. Test reports of the other equipments shall be submitted by the successful bidder during detail engineering.

(iv) The bidder should submit history of past supply, client’s certificate in support of satisfactory operation of 220 or above KV class substation meeting the criteria as mentioned in 6.1 B) (i). The bidder should also submit his proposed GIS manufacturer’s history of past supply, client’s certificate in support of satisfactory operation of 220 KV or above KV class GIS equipments meeting the criteria as mentioned in 6.1 B) (ii) above.

(v) The bidder must have executed independently on turn-key basis at least one contract for EHV lines of 220 KV or higher class having length not less than 5 Km during last five years with complete survey, engineering, design and construction of foundation, supply of materials (with or without conductor and insulator), erection, stringing and commissioning of the line. The bidder shall furnish certificate stating timely completion and satisfactory performance certificate for similar executed contracts (supported by Taking over Certificate).

OR

In case, the Bidder does not meet the QR laid down in 6.1 B) (v) as above, the bidder may engage a Transmission line Erection contractor who has successfully erected not less than 5 km 220 KV or higher voltage class Transmission line with complete survey, engineering, design and construction of foundation, erection, stringing and commissioning of the line (to be supported by authenticated documents).

However, the Bidder must furnish a legally enforceable deed of agreement with the Transmission line erection Contractor meeting the above criteria to guarantee quality, performance, service support and defect liability obligations as specified in the relevant Technical Specification and General Condition of Contract.

(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 deed of agreement) having yearly manufacturing capacity of 6000M.T. Such plant must have manufactured an average of 4000M.T during last three years.

(vii) The bidder shall procure relevant type of conductor from eligible reputed manufacturer who have manufactured and supplied average 1000KM/year of the relevant type of conductor during last 5 years in Indian power utilities from the date of NIT.

(viii) The bidder shall procure relevant type of insulator from eligible reputed manufacturer who have manufactured and supplied minimum 50000 Nos. of relevant type of insulator during last 5 years in Indian power utilities from the date of NIT.
Supporting documents in favour of all the above mentioned requirement shall have to be submitted by the Bidder under Envelope: 1 of the Bid. Failure to furnish any or all information as required as a part of Bid document in every respect will be at the Bidder’s risk and may result in rejection of the Bid.

6.2 Personnel Capability
i) 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 experience in execution of such contract of comparable nature. He shall be stationed at work site. **However, installation, testing and commissioning of GIS equipments shall be done under direct supervision of the original GIS equipment manufacturer.**

Supporting documents in favour of all the above mentioned requirement shall have to be submitted by the Bidder under Envelope: 1 of the Bid. Failure to furnish any or all information as required as a part of Bid document in every respect will be at the Bidder’s risk and may result in rejection of the Bid.

6.3) Financial
i) In order to qualify for this package, the bidder must be having Financial Net Worth at the end of last financial year not less than Rs 14.0 Crore (Rupees Fourteen Crore only).

ii) Average Annual Turnover during last three financial years shall not be less than Rs 55.0 Crore (Rupees Fifty Five 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, 10th Floor, “B” Block, Vidyut Bhaban, Block-DJ, Sector-II, Salt Lake, Kolkata-700091

WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED

FAX : 91-33-2359-1894

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

E-mail : procurement.hq@wbsetcl.in

Website : www.wbsetcl.in

Chief Engineer (Procurement)

WBSETCL