Limited Enquiry Tender Under This Office TN- 01/2017-18

Notice Inviting Bids (NIB)

Limited Enquiry Tender Under This Office TN No-01/2017-18, are invited for construction works of following erection of-

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Particulars of works</th>
<th>Estimated cost</th>
<th>Tender cost</th>
<th>EMD Rs.</th>
<th>last date for submission of BID</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Erection of Galvanised steel structure, Laying of Earth mesh, Erection of equipment, Bus bar, Jumpers &amp; Cable laying work etc at 132 KV GSS RICO BHILWARA for 01 no 33 KV PHED Bay (Deposite work)</td>
<td>Rs 56,000/-</td>
<td>Nil</td>
<td>Rs 1120/-</td>
<td>08.06.2017</td>
</tr>
</tbody>
</table>

Filled in/completed tenders/Bids are invited & shall be accepted latest by upto 2.00 pm of dated 08.06.2017 & receipted tenders shall be opened on same day i.e. dated 08.06.2017 at 3.00 pm.

1. We have read carefully all terms & conditions of the tender specification & have accepted the same as enclosed with this NIT
2. Rates will remain valid upto the completion of work.
3. Other terms & conditions are enclosed.

Encl.- G-Schedule

EXECUTIVE ENGINEER (T&C)
RVPN, BHILWARA

Copy forwarded/submitted to following for information:-:
1. The Superintending Engineer (T&C) RVPN BHILWARA
2. The AO(T&C) RVPN BHILWARA
3. The FM(T&C) RVPN, AJMER through email to upload NIT on website of Nigam
4. Notice Board.

EXECUTIVE ENGINEER (T&C)
RVPN, BHILWARA
**Schedule of Const. of 01 No. 33 KV Bay at 32 KV GSS RIICO Bhilwara for M/s PHED (Deposit Work)**

Name of Office: AEN-I (T&C) RVPN BHILWARA

Name of Work: Erection of Galvanized steel structure, Laying of earth mesh. Erection of equipment Bus Bar, Jumpers & Cable laying work etc. at 132 KV GSS RIICO Bhilwara for 01 No. 33 KV Bay for M/s PHED

Reference: BSR AS ON 01.04.2017 VIDE RVPN SE (Contracts-II) XEN-4/F/0 45 JAIPUR Dated 21.04.17

<table>
<thead>
<tr>
<th>Item</th>
<th>N. BSR</th>
<th>PARTICULARS OF WORK</th>
<th>UNIT</th>
<th>QTY.</th>
<th>RATE</th>
<th>AMOUNT in Rs.</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>1</td>
<td></td>
<td>2</td>
<td>3</td>
<td>6</td>
<td>7</td>
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<tr>
<td></td>
<td></td>
<td><strong>EARTH MESH WORK</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>A.1</td>
<td></td>
<td>Laying earth mesh with 25mm/28mm dia M.S. rod at a depth of 0.80 metre from top level of foundations, including excavation of trench of required depth and backfilling of the same, transportation of M.S. Rod from site store to location, welding of M.S. Rod to M.S. Rod along the length, at crossings and with earth electrodes as per drawing, application of bitumen impregnated tape on all welded joints, for the type of soil prevalent at 0.80 metre below top level of foundations (M.S. Rod of above sizes &amp; M.S. Flat as required shall be made available by RVPN)</td>
<td>Metres</td>
<td>100</td>
<td>23</td>
<td>2300</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Metres</td>
<td>100</td>
<td>24</td>
<td>2400</td>
</tr>
<tr>
<td>B.1</td>
<td></td>
<td>Laying of earthing risers of 50x6 mm/50x10/50x12 mm size M.S. Flat at a depth of 0.80 metre from top level of foundation, including excavation of trench of required depth and backfilling of the same, transportation of M.S. Flat from site store to locations, preparation of risers, bending as per requirement (after heating if necessary), fixing on and welding / boiling / to equipment / structure and peaks of structures lying in the trench, welding to the earth mesh of M.S. Rod as per drawing, including welding of extra length of M.S. Flat if required, application of bitumen compound and covering with bitumen impregnated tape on all welded joints, painting of all surfaces of risers above ground level with red oxide and green paint for the type of soil prevalent at 0.80 metre below top level of foundations (M.S. Rod of above sizes &amp; M.S. Flat as required shall be made available by RVPN)</td>
<td>Metres</td>
<td>100</td>
<td>27</td>
<td>2700</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Metres</td>
<td>100</td>
<td>28</td>
<td>2800</td>
</tr>
<tr>
<td>C.1</td>
<td></td>
<td>Flooring / Driving of earth electrode of 25/28 mm dia M.S. Rod of length 3.00 meters (approx) to a depth of 3.80 meters from the top level of foundations, including excavation of pit as required and backfilling of the same transportation of M.S. Rod from site store to locations cutting of M.S. Rod to the desired length preparation of one end as spike if necessary, welding of earth electrode to each mesh of M.S. Rod as per drawing application of bitumen compound and covering with bitumen impregnated tape on all welded joints, for the type of soil prevalent at 3.00 metres below top level of foundation (M.S. Rod of above sizes &amp; M.S. Flat as required shall be made available by RVPN)</td>
<td>Nos.</td>
<td>5</td>
<td>532</td>
<td>2660</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>No. 5</td>
<td>532</td>
<td>620</td>
<td>22144</td>
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Assistant Engineer-I (T&C)  
RVPN, BHILWARA  
RVPNL, BHILWARA  
JEN (T&C)  
RVPNL BHILWARA
<table>
<thead>
<tr>
<th>Section</th>
<th>No.</th>
<th>33 KV CT/PT</th>
<th>33 KV</th>
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<tbody>
<tr>
<td>B</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>D</td>
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<td></td>
<td></td>
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<tr>
<td>13</td>
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<td></td>
</tr>
</tbody>
</table>

B) STRINGING of 220 KV, 132 KV, 33 KV & 11 KV Bus Bar of ACSR conductor, including transportation of conductor, disc insulators and tension hardware from site stores to location, laying and cutting required length of conductor. Cleaning and assembly of disc insulators as required along with fitting of bolted type or compression type tension hardware as made available (compression machine shall be provided by RVPN on rent free basis). Making up at one end, stringing of conductors between the beams with specified sag and tension, also equalizing sag and fitting spacers and spacers T-clamps for twin conductor, for three phases of conductors in each bus-section.

B) JUMPERS OF ACSR conductor (3 nos. Y-type) between bus to equipment or between equipment to equipment or between bus to bus, including transportation of conductor, disc insulators and hardware from site stores to locations, cleaning and assembly of disc insulators as required along with fitting of suspension hardware and erection as required, cutting required length of conductor, making connections, fixing of spacers & spacer T-clamps as required, tightening of clamps/connectors, dressing, etc., for three phases.

B) Single ACSR Zebra/panther conductor

4) STRINGING of Earth wire (size 7/ 3.15mm or 7/ 4.00mm), including transportation of earthwire, tension hardwares, etc., from site store to locations, laying and cutting required length of earthwire fitting of bolted type or compression type hardware as made available (compression machine shall be provided by RVPN on rent free basis) making up at one end, stringing of earthwire between structure peaks with specified sag and tension, unbering and connecting earth bonds. For single earthwire.

B) Erection of SUB-STATION EQUIPMENTS

B) Erection of Current Transformer/Potential Transformer/Capacitive voltage Transformer/ Series Reactor/Residual Voltage Transformer/Current Transformer with clamps & connectors on already erected steel structure including transportation from site store to locations. Fabrication of base frame, fixing of terminal connectors, tightening of nuts & bolts etc., complete in all respects.

B) Erection of Lightening Arrester on already erected steel structure including transportation of lightening arrester, clamps & connectors surge counter etc. from site store to locations. Fabrication of base frame, fixing of terminal connectors, surge counter, tightening of nuts & bolts etc., complete in all respects.

B) Erection of Isolators on already erected steel structure including transportation of base frame P.I.'s contacts. Mechanism box clamps & connectors etc., from site store to locations. Minor fabrication as required and fixing of terminal connectors etc., adjustment /alignment of isolator and its earth blade. If provided for their smooth operation and final adjustment if required after jumpering.

B) Single ACSR Panther conductor

B) Single ACSR Zebral/panther conductor

8) Single ACSR Panther conductor
Erection of 33 KV or 11 KV Circuit Breakers, including transportation of equipment, structure members, Nuts & bolts, Clamps & connectors accessories etc from site store to location assembly of support structure, placing on foundation leveling and preparing for grouting as required but excluding grouting assembly/placing of poles, Mechanism box, etc. on support structure as per manufacturers drawings fitting of terminal connectors, etc. but excluding commissioning of CB.

14) 33 KV Outdoor type (VCB / SF 6)

Erection of Control & Relay Panels complete in all respects including transportation from site store to control room, placing on foundation / cable trench as per layout, interconnection between control & relay panels and with existing panels, fixing of side / top covers and doors earthing to existing earth strip in control room, connection of bus wiring to existing panels and between control and relay panel as required.

15) Simplex panel, DC Panel, RTCC Panel, PLC Panel etc.

Erection of Marshalling Kiosk /Line Matching Unil (LMU), Line Matching & Distribution Unit (LMDU) complete in all respects including transportation from site store to location, placing on foundation / cable trench as per layout, preparing for grouting of foundation bolts but excluding grouting etc.

16) 33 KV or 11 KV marshalling Kiosk

10) LAYING AND TERMINATION OF CABLES

A. Control Cables

i) Laying of P.V.C. insulated unarmoured/armoured control cables of 11 KV grade with copper conductor in cable trenches as per specification as required, including transportation of cable drums from site store to location laying in cable trenches, cutting to required length, placing them on cables racks / cable trays / dressing. Including removing and re-fixing trench covers as required making necessary connections, testing, cable marking or both the terminal ends, etc. as required for all sizes from 2x2.5 sq mm to 2x2.5 sq mm, 4x4 sq mm, and 4x6 sq mm.

17) Armoured control cables.

i) Laying of control cables in position with single compression nickel plated brass cable glands conforming to IS-12943 & having three metal washers at one mender ring, including preparation of cable and driving of compression holes in gland plates etc. as required, & including cost of cable gland for each cable gland size.

18) 10 mm unarmoured control cable

19) 25 mm unarmoured control cable

20) Termination of wires of cables with copper conductor using copper terminal ends (pin or ring type as required of Dowells or equivalent as approved by the Engineer-in-charge) duly crimped with crimping tool, including wiring wire ends ready for crimping, tinning & dressing of wires, etc. as required, including cost of terminal ends for all wires for each cable at both ends for cables of the following sizes:

21) Each 5 mm x 2.5 sq mm

22) Each 12x2.5 sq mm

In case all the wires of any cable are not got terminated then a deduction at the rate of Rs.6.00 shall be made for each end of the wires not terminated.

23) Each 4x4.0 sq mm

In case all the wires of any cable are not got terminated then a deduction at the rate of Rs.7.00 shall be made for each end of the wires not terminated.

TOTAL 55949

(Rs. Fifty one thousand two Hundred forty Nine Only)

Assistant Engineer-I (T&C)

RVPNL

Figure 3 of 3
Tenders are invited & shall be accepted latest by 2.00 pm on dated 08.06.2017 for the above NIT which shall be opened on same day dated 08.06.2017 at 3.00 pm

Name of Firm/Bidder.

Address

Phone No / Fax No

TIN/CST/RST No-

Name of contact person

Contact No/Mobile No

Date /___/________

Place ______________
Terms & conditions of the Tender specifications of limited enquiry

Tender for Erection work of 33 KV PHED Bay (deposite work) at 132 KV GSS RIICO,
Bhilwara on BSR as on 01.04.2017, under limited enquiry Tender No TN-01/2017-18

01 Prices: The price shown of above in G-schedule of work & rates are on RVPN/BSR as on 01.04.2017 vide RVPN/SE[Contracts-II]/xen-4/F./D-45 JAIPUR Dt:21.04.17 the contractor should be advised to quote the rates including all taxes as applicable.

02 EMD deposit: You'll have to furnish the security deposit @ 2% of the contract value in cash or by bank draft to the AO T&C RVPN Bhilwara & enclosed copy with Tender.

03 Terms of payment: The payment or running payment if required any on the basis of the bill duly verified by the in charge of work & counter signed by the Executive Engineer Bhilwara & payment released by the AO T&C RVPN Bhilwara through RTGS/NEFT for quick & safe transfer of fund.

04 Quantities: The quantity given in G schedule are only provisional & can vary depending on the side condition. The payment shall be paid on basis of various terms of actual quantity of the work done at unit rate given in cause of schedule of work & prices the actual work can be increased/decreased as per side requirement with maximum increase of 30%.

05 Completion time: You'll have to complete work on order within a period of two month for which layout has to be given by Assistant Engineer (T&C) RVPN Bhilwara.

06 Penalty: Work completion period/time of contract is essence of contract if you fail to complete the work on order within stipulated period, the nigam shall charge penalty @ 0.50% of the cost of unexecuted portion of the work per week or part of their of subject to maximum 10% of total value of unexecuted portion of work contract however no penalty will be imposed if delay is due to obligation of purchaser not being fulfilled in time.

07 Contract Agreement: The contractor shall also require to execute a contract agreement on non judicial stamp paper worth Rs 500/- duly signed accepted & registered.

08 Incharge of work: The work shall be carried out under supervision of AEN (T&C) RVPN Bhilwara under control of XEN (T&C) RVPN Bhilwara.

09 Extension in completion period: Any delay due to stoppage of work by eigam will be compensated by way of extension of completion date.

10 Distribution of material: Material shall be delivered at the work site from the store of AEN (T&C) RVPN Bhilwara & site store.

11 Electricity rules: You'll carry out all the work in accordance with revised & latest provision under Indian electricity rules & Act made their under.

12 Wastages: The contractor shall have to make every effort to minimize the breakage losses & wastages of GSS material etc, supplied free of cost by nigam for construction of GSS.

The maximum ceiling for the wastage permitted is as under:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>ITEM NAME</th>
<th>% WASTAGE PERMITTED (MAX)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Conductor &amp; Earth wire</td>
<td>1%</td>
</tr>
<tr>
<td>2.</td>
<td>Insulator</td>
<td>1%</td>
</tr>
<tr>
<td>3.</td>
<td>Bolts &amp; Nuts</td>
<td>No extra bolts &amp; nuts shall be supplied 2%</td>
</tr>
<tr>
<td>4.</td>
<td>Hard ware &amp; Accessories</td>
<td>1%</td>
</tr>
<tr>
<td>5.</td>
<td>M.S.Flat/M.S.Road</td>
<td>1%</td>
</tr>
</tbody>
</table>

The contractor shall maintain & submit the account of actual wastage with the MAS Account. In case wastage are more than permitted quantities then contractor shall have to compensate to nigam for excess wastage by double the issue rate of material.

13 Scope of work: This contract covers erection & construction work of 33 kv bus which include all activities as mentioned in G schedule of work & G schedule/quoted rates the quantum of work involved as per enclosed G schedule of work (copy of detailed G schedule enclosed).

14 Erection insurance: The contractor shall take suitable storage come erection insurance policy for subject work material at his own cost. The Estimated cost of Project material for insurance purpose shall be intimated by Engineer in charge of work. The insurance policy should be submitted to this office i.e. Executive Engineer (T&C) RVPN Bhilwara for its acceptance.
15. **Quality check/Inspection:** Surprise check of the vendor/supplier premises can be done by quality control, inspection & monitoring section of the VPN'S cooperate office on a short notice for which all necessary arrangement towards inspection of the VPN'S supply/work order are to be arranged by the vendor supplier for ensuring quality as per VPN requirement. The vendor/supplier shall also provide all requisite co-operation/assistance & facility for such quality check/inspection.

16. **Responsibilities:** In case of any fatal/non fatal accident occurred during the execution of work all responsibilities will be borne by contractor & VPN, will not take any responsibility legal/financial.

17. **Qualifying Requirement:** The contractor have to registered in “E” category in VPN.

I AGREE TO DO THE ABOVE WORKS ON_______% ABOVE/BELOW IN G-SCHEDULE AMOUNT BASED ON 2011 BSR

SIGNATURE OF CONTRACTOR