Sealed Tenders are hereby invited from reputed firms/contractors for execution of the erection of steel structure, laying of earth mesh, equipment erection for 33 kV bay for PHLD at 132 kV GSS Jayal.

<table>
<thead>
<tr>
<th>Specification Number</th>
<th>Name of the work</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Erection of steel structure, laying of earth mesh, equipment erection for 33 kV bay for PHLD at 132 kV GSS Jayal.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Estimated Cost</th>
<th>Tender cost</th>
<th>Period of completion</th>
<th>Earnest money</th>
<th>Validity period of offer</th>
<th>Last date for sale of tender specification</th>
<th>Last date of submission of tender specification</th>
<th>Date of opening of tender</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

| Enclosed: G-schedule. |

Note: For this NIB copy of bid specification (not transferable) can obtained from this office in above mentioned date time.

Copy to:
1. The Superintending Engineer (T&C) RRVPN L. Merta City.
2. The Assistant Engineer (T&C) RRVPN L. Nagaur (Merta City).
3. The Account Officer (T&C) RRVPN L. Merta City.
4. Feeder manager (T&C) Ajmer for uploading on RRVPN Portal.
6. M’s Balaji power solution sikar.
7. M’s Mamta electrical & electronics ajmer.
8. M’s Raishree Enterprises Th. malakhera distt. Alwar
9. M’s Vinayak Enterprises R-14 kamal vihar Nirman nagar jaipur
10. Notice board
TERMS AND CONDITIONS

1. **Qualifying Requirement:** Only those firms who have completed construction of any 220/132 KV GSS on labour contractor of minimum of Rs 5.0 Lacs and have completed within the contract time of the work order in last two year will be qualified for tender. A completion certificate issued by authority not below the rank of Superintending Engineer is to be enclosed as proof of qualification.

2. The tender should be addressed to the Executive Engineer (T&C), RVPN, Merta City having office at 400 KV GSS, Ren Road, Merta City(Nagaur).

3. Besides above, only such contractors should apply, who are already registered with provident fund Commissioner. The copy of certificate in this respect should be attested by Notary Public and signed by the bidder or by authorized representative of the firm.

4. **RAJASTHAN VALUE ADDED TAX, LEVIES & DUTIES:**
   a) In accordance with the scope of works, this is a labour contract of erection from the "FREE ISSUE" material, hence no VAT will be leviable. However tax on such labour contracts if levied, shall be to the Contractor's account.
   b) Goods & Service Tax(GST): The tenderer shall quote the prices inclusive of applicable GST. Any liability towards GST, if arises/applicable, inclusive of cost of material to be supplied by RVNP free of cost, shall be to the firm's account. The tenderer shall give GST registration number. Any statutory variation in GST will be to contractor's accounts.
   c) Work Contract Tax: The work contract tax will be deducted at the applicable laws on the value of erection, testing & commissioning activities. Any liability arising on A/c of work contract tax will be to the contractor's account. Any statutory variation in the work contract tax will be to the contractor's accounts.
   d) Income Tax: If any income tax, surcharge on income tax or any other corporate tax is attracted under the law then the same shall be paid by him as per Government rules / deducted from his bills / invoices at the prevailing rate and if such tax is not applicable, then the contractor can claim reimbursement of the same from the relevant competent authority. However necessary TDS certificate(s) shall be issued by Nigam's paying Authority.

5. The tender along with relevant documents as per eligibility criteria shall be submitted in closed/sealed envelope duly super scribe as "Tender for Erection of steel structure, laying of earth mesh , equipment erection for 33 kV bay for PHED at 132 kV GSS Jayal.

6. The under signed does not bind himself to accept the lowest or any other tender and Reserve the right to reject any or all tender's without assigning any reason thereof.

7. The quoted rates shall be valid for 120 days from the date of opening tenders.

8. The work shall be completed as per "G" schedule within 90 days from the date of placing of work order/LOI or date of issue of layout.

9. 90% payment shall be arranged/released as per Nigam's payment policy on completion of work as per specification through RTGS by the. Accounts Officer (T&C), RVPN, Merta City after receipt of verified bills/invoice by the consignee.

10. All addition and/or alterations in the tender must be clearly initialed.

11. The Rate's should be quoted the FIRM prices inclusive of all taxes and duties, insurance, and other related cost both in words and figures.

12. All the documents issued; shall be submitted by the Tenderer duly filled up in all respect with seal and signature on each page.

13. Tender received late due to any reason or which are incomplete shall not be accepted for consideration.

14. Quantity of items may vary at the time of placement order.

15. Balance 10 % payment will be released after 3 month from the date of satisfactory completion of work.

16. The Tenderer will have to deposit Tender cost by cash and EMD by cash/DD in favour of Account Officer (T&C) RVPN, Merta City.
**PRICE SCHEDULE**

**Name of work:** Erection of steel structure, laying of earth mesh, equipment erection for 33 kV bay for PHED at 132 kV GSS Jayal.

**Name of firm/Tenderer:** ..........................................................

<table>
<thead>
<tr>
<th>Description of Work</th>
<th>Rate as per G-Schedule</th>
<th>% Above/Below Rate as per G-Schedule</th>
<th>Amount in Rs. Above/Below Rate as per G-Schedule</th>
<th>Total Price (2+4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erection of steel structure, laying of earth mesh, equipment erection for 33 kV bay for PHED at 132 kV GSS Jayal.</td>
<td>71003.00</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Rs (In Words):** .................................................................................................................................

1. I/ We have read all terms and conditions of the relevant Tender Enquiry against NIB No. 02/2018-19 These are acceptable to us.
2. Our Offer is valid for 120 days from the date of opening of tenders.
3. The work shall be completed within stipulated period and as per instructions/letter of the Work In Charge.
4. The quoted rate is firm in all respect till completion of work including of insurance charges, all taxes & duties
5. Safe execution of work shall be our responsibility.
6. We shall be responsible for any "Fatal" or "Non-Fatal" accident taking place due to our negligence.

**Date**__/__/________ **Signature**..............................................

**Place** ..............................................

**Phone/ Mobile / Fax** ..............................................

**Address** ...........................................................................

**Name of Signatory**......................................................

**Name of Firm**..................................................................
**G. SCHEDULE**

*Name of work*: Construction of 1 Nos. 33 KV feeder bay at 132 KV GSS Jayal for 33 KV feeder for PHID (Deposited Work)

1. The rates for the erection works given in this BSR are inclusive of all types of labour charges, service tax, sales tax and insurance charges, etc.


3. BSR : RVPN/SE(Contracts-II)/XEN-1/F/ D.45 dated 21.04.2017

4. Chargeable Head: Construction of 1 Nos. 33 KV feeder bay at 132 KV GSS Jayal for 33 KV feeder for PHID (Deposited Work)

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Description</th>
<th>Unit</th>
<th>Qty.</th>
<th>Unit Rate [Rs.]</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>EARTH MESH WORK</strong>: Laying of earth mesh with 25 mm /28 mm. dia. M.S. Rod at a depth of 0.80 meter from top level of foundation, including excavation of trench of required depth and backfilling the same, transportation of M.S. Rods from site store to locations, welding of M.S. Rod to M.S. Rod along the length, at crossing and with earth electrodes as per drawing, application of bitumen compound and covering with bitumen impregnated tape on all welded joints, for the type of soil prevent at 0.80 meter below top level of foundation (M.S. Rod of above size &amp; M.S. Flat as required shall be made available by RVPN) (a) in case Electricity is made available by RVPN with out charge (l) Normal dry soil</td>
<td>Mtr.</td>
<td>60</td>
<td>24</td>
<td>1440.00</td>
</tr>
<tr>
<td>1</td>
<td>**Laying of earthing risers of 50 X 6 mm / 50 x 12 mm/ size M.S. Flat at a depth of 0.80 meter 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 / bolting to equipment / structure and peak of the structure, laying 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 surface of risers above round level with red oxide and green paint, for the type of soil prevent at 0.80 meter below top level of foundation (M.S. Rod of above sizes &amp; M.S. Flat as required shall be made available by the RVPN) (a) in case Electricity is made available by RVPN with out charge (l) Normal dry soil</td>
<td>Mtr.</td>
<td>270</td>
<td>27</td>
<td>7290.00</td>
</tr>
<tr>
<td>1</td>
<td><strong>Placing / Driving of earth electrode of 25 / 28 mm dia. M.S. Rod of length 3.30 meter (Approx.) to a depth 3.80 meter from top level of foundation, including excavation of pit as required and back filling of the same, transportation of M.S. Rod from site store to locations, cutting of M.S. Rod to desired length, preparation of one end as spike if necessary, welding</strong></td>
<td>Mtr.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
of earth electrode to earth 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 3.80 meters
below top level of foundation (M.S.Rod of above sizes
& M.S. Flat as required shall be made available by
RVPN)
(a) In case Electricity is made available by RVPN
with out charge
(i) Normal dry soil

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</thead>
<tbody>
<tr>
<td></td>
<td>Nos.</td>
<td>3</td>
<td>200</td>
</tr>
</tbody>
</table>

2 **Steel Structure Erection**:
Erection of sub-station steel structures,
columns, beams, lighting mast and
equipment structures (excluding circuit breaker
and capacitor banks) of all type including transportation of
structure members nuts & bolts etc. from site store
to locations, their assembly, placing on foundation,
fixing of template with foundation bolts as
required, leveling and preparing for grouting
as required, but excluding grouting, erection
after grouting and tightening & punching of
nuts & bolts. (Maximum height of structure
up to 20 meters)

|   | M.T. | 4  | 2321 | 9284.00 |

3 **Bus -Bar Work**
Jumper 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 store
to location, cleaning and assembly of disc
insulators as required along with fixing of
suspension hardware and erection as
required, cutting required length of conductor,
making connections, fixing of spacers &
space T-clamp as required, tightening of
clamps / connectors, dressing etc for three
phases.

|   | Set  | 8  | 333  | 2664.00 |

4 **Stringing of earth wire**:
Stringing of earth wire (Size 7/3.15mm. or
7/4.00 mm.) including transportation of earth
wire, tension hardware etc. from site store to
locations, laying and cutting required length
of earth wire, 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 earth wire between structure peaks with
specified sag and tension, umpiring and
connecting earth bond, for single earth-wire.

|   | Each | 3  | 297  | 876.00 |

5 **ERECTION OF SUB-STATION EQUIPMENTS**:
Erection of current Transformer/ potential
Transformer/capacitive voltage Transformer/
Series Reactor/ Residual voltage Transformer/
Neutral current Transformer with clamps &
connector 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 respect.

<p>|   | Nos. | 3  | 532  | 1596.00 |</p>
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Nos.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>Erection of Lightening Arrestor on already erected steel structure including transportation of Lightening Arrestor, clamps &amp; connectors, surge counter etc. from site store to locations, fabrication of base frame, fixing of terminal connectors, surge counter, tightening of nuts &amp; bolts etc. complete in all respect. (iii) 33 KV L.A.</td>
<td>3</td>
<td>317</td>
<td>951.00</td>
</tr>
<tr>
<td>D</td>
<td>Erection of Isolators on already erected steel structure including transportation of base frame, P.I.s, contacts, mechanism box, clamps &amp; connectors etc., from site store to locations, minor fabrication as required, &amp; 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. (ii) 33 KV (a) Without Earth blade (b) With Earth blade</td>
<td>2</td>
<td>916</td>
<td>1832.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>1364</td>
<td>1364.00</td>
</tr>
<tr>
<td>H</td>
<td>Erection of 33 KV or 11 KV Circuit Breakers, including transportation of equipment, structure members, nuts &amp; bolts, clamp &amp; connectors, accessories etc. from site store to location, assembly of support structure, their 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 manufacturer’s drawings fitting of terminal connectors etc. but excluding commissioning of CB. (i) 33 KV or 11 KV outdoor type (VCB/SF6)</td>
<td>1</td>
<td>7404</td>
<td>7404.00</td>
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<tr>
<td></td>
<td>6 Erection of Control &amp; Relay panels complete in all respect including transportation from site store to control room, placing on foundation / cable trench as per layout, interconnection between control &amp; 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 panel and between control and relay panel as required. (i) Duplex panel</td>
<td>1</td>
<td>1265</td>
<td>1265.00</td>
</tr>
<tr>
<td></td>
<td>7 Erection of Marshalling Kiosk / Line matching Unit (LMU) / Line Matching &amp; Distribution Unit (LMDU) complete in all respect 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. (ii) 33 KV Marshalling Kiosk.</td>
<td>3</td>
<td>192</td>
<td>192.00</td>
</tr>
</tbody>
</table>
# LAYING AND TERMINATION OF CABLES

## Control Cables:

(i) Laying of P.V.C. insulated unarmored / armored control cable of 1.1KV grade with copper conductor in cable trench as per specification as required, including transportation of cable drum from site store to location, laying in cable trenches, cutting to required length, placing them on cable racks / cable trays / cable batten & dressing including removing and re-fixing trench covers required, making necessary connections, testing, cable marking on both the terminating ends, etc. as required for all size from 2C X 2.5 sq. mm. to 20C X 2.5 sq. mm, 4C X 4 sq. mm. and 4C X 6 sq. mm.

<table>
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<th>Mtr.</th>
<th>1100</th>
<th>5</th>
<th>5500.00</th>
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</table>

(ii) Fixing of control cable in position with single compression nickel plated brass cable glands confirming to IS: 12943 & having three metal washer & one rubber ring, including preparation of cable and drilling of corresponding hole in gland plates, etc. as required & including cost of cable gland for each cable gland of size.

(a) 19mm unarmored control cable

| Nos. | 20 | 44 | 880.00 |

(b) 25mm unarmored control cable

| Nos. | 5  | 62 | 335.00 |

(iii) Termination of wires of cable with copper conductor using copper terminal ends (pin or ring type as required of Dowell’s or equivalent make as approved by the Engineer-in-charge) duly crimped with crimping tool, including making wire ends ready for crimping, ferruling & 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.

(a) 2C X 2.5 sq. mm.

| Each | 2   | 21 | 42.00 |

(b) 3C X 2.5 sq. mm.

| Each | 2   | 32 | 64.00 |

(c) 4C X 2.5 sq. mm.

| Each | 2   | 43 | 86.00 |

(f) 12C X 2.5 sq. mm.

| Each | 2   | 128 | 256.00 |

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

(i) 4C X 4 sq. mm.

| Each | 8   | 57 | 456.00 |

In case the wires of any cable are not terminated, then a deduction at the rate of Rs. 1.00 shall be made for each end of the wires not terminated.

Total

| 44377.00 |

CLRC rate @ 60% above BSR

| 26626.20 |

G. Total

| 71003.20 |

Total Amount ≈ Rs. 71003.00

Rs. Seventy-one thousands three only

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Executive Engineer (T&C)
RUPN, Merta City

Assistant Engineer (T&C)
RUPN, Nagaur