

RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD.  
[Corporate Identity Number (CIN) U40109RJ2000SGC016485]  
OFFICE OF THE EXECUTIVE ENGINEER (T&C), RVPN, KANKANI,  
NEW POWER HOUSE, JODHPUR

Email: [xen.cm.jodhpur@rvpn.co.in](mailto:xen.cm.jodhpur@rvpn.co.in), Mob. No. 9414061546

No. RVPN/XEN/T&C/KANKANI/F. /TECH/CASH/ESTT/D. 530 DATED 19.12.2016

Short term Tender No. 2 ( 2016-17)

The tender as per G- schedule is invited from experienced Contractors for Construction work of 1No. 33 KV bay work (**Erection work of sub-station structure, Bus Bar, Equipment and Earthing & jumpering work**) at **220 KV GSS RVPN Pali**. Tender will be received from this office from 3:00PM Dated 20.12.16 and submitted on any working day up to 3:00 PM Dated 5.1.17. Tender shall be opened on Dated 06.01.17 at 3:00 PM in the presence of bidders Who choose to be present at that time.

G-Schedule BSR as ON 01.01.2011 of erection work of Sub Station structure, Bus Bar, Equipment and Earthing & jumpering work (complete Construction work of 33 KV Bay ) at 220 KV GSS Pali is enclosed.

All the enclosed documents shall be returned dully filled up with signature /date /seal on each page.


1. Specification No: - RVPN/XEN/T&C/short term NIT.
2. Name of work: - Erection work of sub-station structure, Bus Bar, Equipment & earthing & jumpering work for Installation of 33 KV bay at 220 KV GSS Pali.
3. Estimate Cost :- Rs 33361.00
4. Work Completion period: - 45 Days OR within 10 days after last issue Material, whichever later.
5. Opening date:-05.1.17 at 3:00 PM
6. Earnest money @ 2% i.e. Rs.667.00 should be deposited in cash/through demand draft in favour of A.O. RVPN (T&C) Kankani before the time of opening of tender.

### Term and conditions

1. Tender should be addressed to the Executive Engineer (T&C) Kankani having office at NPH Premises new 220kV GSS control room building Jodhpur in sealed envelope indicated clearly the NIT No.
2. The rate quoted by the tenderer/ firm will be inclusive of all taxes, Insurance and other related levies etc.as applicable. The tenderer does not bind to RVPN for accepting the lowest or any other tender and RVPN reserves the Right to reject any or all tenders without assigning any reason thereof.
3. All material supplied by RVPN at site store i.e. store of AEN (T&C) RVPN Pali. Transportation up to site location will be borne by the Contractor. Quoted rates shall be valid for 120 days from the date of opening of tender.

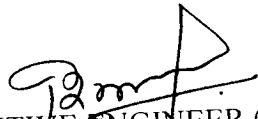
4. The work shall be completed within stipulated period failing which penalty @ 0.5% per week, but maximum to 5% of cost of the work not completed/ Late shall be liable to be imposed.
5. The department /RVPN shall not be responsible for any injury inflicted to your Worker engaged in Construction work and damage to existing yard and equipment .All compensation /Medical aid etc will be to the contractor Account.
6. After Completion of work Contractor will submitted the bill in triplicate to the Engineer in charge. The payment shall be arrange/released as per Nigam payment policy by the AO (T&C) Kankani after deduction made as per rules after receipt of verified bills/invoice by the consignee/in charge Engineer.
7. Work quantity of items may vary at the time of placement of order.  
The contractor/firm confirms to agree to adhere to all terms and conditions as well as technical specifications.
- Enclosed:-G-Schedule

Signature of contractor with date & seal

  
EXECUTIVE ENGINEER (T&C)  
KANKANI RVPN JODHPUR

Copy to the following for kind information and further necessary action please.

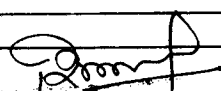
- (1) The Zonal Chief Engineer (T&C) RVPN Jodhpur
- (2) The Superintending Engineer (T&C), RVPN, Kankani .with request to kindly Arrange to upload on SPP web site.
- (3) Assistant Engineer (T&C) Kankani/Pali with direction to attend this office on dated i.e. 5-1-2017 for opening of Tender.
- (4) Accounts officer kindly arrange to attend this office on dated 5-1-2017 for opening of the tender.
- (5) Feeder Manager O/O SE (T&C) Jodhpur along with details of Tender and "G"-Schedule for up load on RVPN website
- (6) Notice Board.

  
EXECUTIVE ENGINEER (T&C),  
KANKANI RVPN, JODHPUR

**RAJASTHAN RAJYA VIDHYUT PRASARAN NIGAM LIMITED**  
**G Schedule of I No. 33 kV Bay (33KV Naya Gaon RICCO Feeder) at 220 kV GSS PALI**

| CODE NO  | DESCRIPTION  | UNIT   | Rate    | Qty | Amount |
|----------|--|--------|---------|-----|--------|
| <b>1</b> | <b>EARTH MESH WORK</b>   |        |         |     |        |
| A-1      | Laying of 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. Rods from site store to locations, welding of M. S. Rod to M. S. Rod along the length, at crossings 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 prevalent at 0.80 metre below top level of foundations (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 without charges.   |        |         |     |        |
|          | i) Normal dry soil   | Metres | 18.00   | 100 | 1800   |
|          | ii) Hard soil / Murram / Black cotton soil   | Metres | 19.00   | 50  | 950    |
| B-1      | Laying of earthing risers of 50x6mm / 50x10mm / 50x12mm size M. S. Flat 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. 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 peaks of structures, 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 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 & M. S. Flat as required shall be made available by RVPN). |        |         |     |        |
|          | (a) In case electricity is made available by RVPN without charges.   |        |         |     |        |
|          | i) Normal dry soil   | Metres | 20.00   | 100 | 2000   |
|          | ii) Hard soil / Murram / Black cotton soil   | Metres | 21.00   | 50  | 1050   |
| C-1      | Placing / Driving of earth electrode of 25 / 28mm dia. M. S. Rod of length 3.30 meters (approx.) to a depth of 3.80 meters from the top level of foundations, 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 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 metres below top level of foundations (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 without charges.   |        |         |     |        |
|          | i) Normal dry soil   | Nos.   | 150.00  | 3   | 450    |
|          | ii) Hard soil / Murram / Black cotton soil   | Nos.   | 250.00  | 2   | 500    |
| <b>2</b> | <b>ERECTION OF SUB-STATION STEEL STRUCTURES</b> columns, beams, lighting mast and equipment structures (excluding Circuit Breakers and Capacitor Banks) of all types including transportation of structure members, nuts & bolts, washers, etc. from site store to locations, their assembly, placing on foundation, fixing of template, with foundation bolts as required, levelling and preparing for grouting as required, but excluding grouting, erection after grouting and tightening & punching of nuts & bolts. (Maximum height of structures up to 20 meters)  | M. T.  | 1744.00 | 2.5 | 4360   |
| <b>3</b> | <b>BUS-BAR WORK</b>  |        |         |     |        |
| B.       | <b>JUMPERS</b> 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.   |        |         |     |        |
|          | i) Single ACSR Zebra / Panther conductor   | Set    | 250.00  | 12  | 3000   |
| <b>4</b> | <b>STRINGING</b> of Earth wire ( size 7 / 3.15 mm or 7 / 4.00 mm ). 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, jumpering and connecting earth bonds, for single earthwire .  | Each   | 219.00  | 2   | 438    |
| <b>5</b> | <b>ERECTION OF SUB-STATION EQUIPMENTS</b>  |        |         |     |        |
| B.       | Erection of Current Transformer / Potential Transformer / Capacitive voltage Transformer / Series Reactor / Residual Voltage Transformer / Neutral 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.   |        |         |     |        |
|          | iii) 33 KV or 11 KV CT / PT  | Nos.   | 400.00  | 3   | 1200   |

|    |  |        |                    |                     |              |
|----|--|--------|--------------------|---------------------|--------------|
| C. | Erection of Lightning Arrestor on already erected steel structure including transportation of Lightning Arrestor, 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 respect.  |        |                    |                     |              |
|    | iii) 33 KV or 11 KV  | Nos.   | 238.00             | 3                   | 714          |
| D. | 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.  |        |                    |                     |              |
|    | iii) 33 KV & 11 KV   |        |                    |                     |              |
|    | a) Without Earth Blade   | Nos.   | 688.00             | 2                   | 1376         |
|    | b) With Single Earth Blade   | Nos.   | 1025.00            | 1                   | 1025         |
| H. | Erection of 33 KV or 11 KV Circuit Breakers including transportation of equipment, structure members, nuts & bolts, clamps & connectors, etc. from site store to location, assembly of support structure, their placing on foundation, levelling 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 11KV Outdoor Type ( VCB / SF 6 )   | Nos.   | 5563.00            | 1                   | 5563         |
| 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 panel and between control and relay panel, as required.   |        |                    |                     |              |
|    | iii) Simplex Panel, DC Panel, RTCC Panel, PLCC Panel, etc.   | Nos.   | 475.00             | 1                   | 475          |
| 7  | Erection of <b>Marshalling Kiosk/ Line Matching Unit (LMU) / Line Matching &amp; Distribution Unit (LMDU)</b> 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 or 11 KV Marshalling Kiosk   | Nos.   | 144.00             | 1                   | 144          |
| 8  | <b>LAYING AND TERMINATION OF CABLES</b>  |        |                    |                     |              |
| A. | <b>Control Cables</b>  |        |                    |                     |              |
|    | i) Laying of P. V. C. insulated unarmoured / armoured control cables of 1.1 KV grade with copper conductor in cable trenches as per specification as required. including transportation of cable drums from site store to locations. 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 as required, making necessary connections. testing, cable marking on both the terminating ends, etc., as required for all sizes 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. |        |                    |                     |              |
|    | a) Unarmoured control cable.   | Metres | 4.00               | 1600                | 6400         |
|    | ii) Fixing of control cables in position with single compression nickel plated brass cable glands conforming to IS: 12943 & having three metal washers and one rubber ring, including preparation of cable and drilling of corresponding holes in gland plates, etc. as required, & including cost of cable glands, for each cable gland of size.  |        |                    |                     |              |
|    | a) 19 mm unarmoured control cable  | Nos.   | 33.00              | 10                  | 330          |
|    | c) 25 mm unarmoured control cable  | Nos.   | 50.00              | 8                   | 400          |
|    | iii) Termination of wires of cables 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   | 16.00              | 4                   | 64           |
|    | c) 4c x 2.5 sq. mm.  | Each   | 32.00              | 4                   | 128          |
|    | f) 12c x 2.5 sq. mm.   | Each   | 96.00              | 2                   | 192          |
|    | h) 18c x 2.5 sq. mm.   | Each   | 143.00             | 2                   | 286          |
|    | In case all the wires of any cable are not got terminated, then a deduction at the rate of Rs. 4.00 shall be made for each end of the wires not terminated.  |        |                    |                     |              |
|    | i) 4c x 4.0 sq. mm.  | Each   | 43.00              | 12                  | 516          |
|    |  |        |                    | <b>Total</b>        | <b>33361</b> |
|    |  |        |                    | Add 50% as per CLRC | 16680.5      |
|    |  |        | <b>Grand Total</b> | <b>50041.5</b>      |              |

  
XEN (T & C) RVPN  
KANKANI, JODHPUR

  
ASSISTANT ENGINEER  
(T&C) RVPN, PALI