

RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED



Corporate Identity Number (CIN) : U40109RJ2000SGC016485

Regd. Office: Vidyut Bhawan, Jyoti Nagar, Jaipur-302005

OFFICE OF THE EXECUTIVE ENGINEER (T&C)

132 KV GSS Campus Sindhari Road, BARMER-344001

Telephone No. 02982-221178 Email Address: - xen.cm.barmer@rvpn.co.in website: -rvpn.co.in

No- RVPN/XEN/T&C/BME /Estt./F-40 / D. 192 Dated. 01.06.2017

LIMITED TENDER No. 07/2017-18

For Erection work of Sub-station structure, Bus-Bar, Equipments and Earthing work for Installation of 33 KV, 5.43 MVAR Cap. Bank at 132 KV GSS Undoo. Tender shall be received up to 2.00PM on 13.06.17 and shall be opened at 3.00PM on the same day in presence of bidders who choose to be present at that time. The G schedule of the work Erection work of Sub-station structure, Bus-Bar, Equipments and Earthing work for Installation of 33 KV, 5.43 MVAR Cap. Bank at 132 KV GSS Undoo is enclosed. All the enclosed documents shall be returned duly filled up with signature/date/seal on each page.

1. Specification No.: - RVPN/XEN/T&C/ NIT-07/2017-18
2. Name of work: - Erection work of Sub-station structure, Bus-Bar, Equipments and Earthing work for Installation of 33 KV, 5.43 MVAR Cap. Bank at 132 KV GSS Undoo
3. Estimate Cost: - Rs. 73374.50
4. Completion period: - 45 Days
5. Due Date of Open: - Tender should reach this office by 2.00PM on dt.13.06.17 & shall open on the same day at 3.00PM
6. Earnest money: - @2% i. e. Rs. 1470.00 should be deposited before 2.00PM on dated 13.06.17 through demand draft/ Cash in favor of AO (T&C), RVPN, Barmer/ Executive Engineer (T&C), RVPN, Barmer

TERMS AND CONDITIONS FOR WORK

1. The tender should be addressed to the Executive Engineer (T&C), RVPN, having office at 132 KV GSS Campus Sindhari Road, Barmer. Email id is xen.tnc.barmer@rvpn.co.in and contact No. is 9414061192, Sh. K. L. Gajraj XEN (T&C), RVPN, Barmer
2. The tender shall be submitted in closed/sealed envelope duly super scribe as "Tender for Erection work of Sub-station structure, Bus-Bar, Equipments and Earthing work for Installation of 33 KV, 5.43 MVAR Cap. Bank at 132 KV GSS Undoo. The under does not blind 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.
3. The quoted rates shall be valid for 120 days from the date of opening tenders.
4. The work shall be completed as per "G" schedule within 45 days from the date of placing of work order/LOI or within 10 days after issue of complete material, whichever is later.
5. 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, Barmer after receipt of verified bills/Invoice by the consignee.
6. All addition and/or alterations in the tender must be clearly initialed.



7. 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.
8. Tender received late due to any reason or which are incomplete shall not be accepted for consideration.
9. Quantity of items may vary at the time of placement order.
10. Balance 10 % payment will be released after Three month from the date of satisfactory completion of work.


Encl: As Above


01.6.2017

(Er. K. L. Gajraj)
Executive Engineer (T&C)
RVPN, Barmer

Copy submitted/forwarded to the following for information & necessary action please.

1. The Zonal Chief Engineer (T&C), RVPN, Jodhpur
2. The Superintending Engineer (T&C), RVPN, Barmer/Jodhpur/Bikaner/Jaisalmer /Sirohi/Ramgarh/Kakani/Bhadla/Ratangarh
3. The Accounts Officer (T&C), RVPN, Barmer with requested to please instruct to your any representative to attend this office on the date i.e 13.06.17 of opening of the tender
4. The Assistant Engineer (T&C), RVPN, Barmer/Balotra.
5. The Feeder Manager (T&C), RVPN, Sirohi along with details of LIMITED TENDER and G Schedule to upload on Nigam website
6. Notice Board


01.6.2017

Executive Engineer (T&C)
RVPN, Barmer

RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD

**G - SCHEDULE OF 2X33KV, 1X5.43MVAR CAPACITOR BANK INSTALLATION AT
132KV GSS UNDOO**

CODE NO.	DESCRIPTION	Unit	SAP code	Rate	Qty	Amounts
1	2	3	4	5	6	7
1	EARTH MESH WORK					
A.1	Laying of earth mesh with 25mm/28mm dia, M.S. Rod at depth Of 0.80 meter from top of foundation including excavation of trench of required depth and backfilling of the same transportation of M.S.Rod from site store to locations, welding of M.S.Rod to M.S. Rods 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 meter 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					
	ii) Hard soil / Murram / Black cotton soil	Meter	PRJ1239	26.00	110	2860.00
B.1	Laying of earthing risers of 50x6mm / 50x10mm / 50x12mm size M.S.Flat at a depth of 0.80 meter 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 location, preparation of risers, bending as per requirement (after heating if necessary), fixing on and welding / bolting to equipment / structure and peak 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 surface of risers above ground level with red oxide and green paint, for the type of soil prevalent at 0.80 meter 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	Meter	PRJ1258	27.00	150	4050.00
	ii) Hard soil / Murram / Black cotton soil	Meter	PRJ1259	28.00	100	2800.00

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CODE NO.	DESCRIPTION	Unit	SAP code	Rate	Qty	Amounts
1	2	3	4	5	6	7
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 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 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 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					
	ii) Hard soil/Murram/Black cotton soil	Nos	PRJ1279	333.00	4	1332.00
	iii) Soft Rock	Nos	PRJ1280	532.00	4	2128.00
2	ERECTION OF SUB-STATION STEEL STRUCTURES columns, Beams ,lighting mast and equipment structures (excluding Circuit Breakers and nuts & bolts, washers etc from site store to locations Their assembly, placing on foundation, fixing of template, with 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 structures up to 20 meters)	MT	PRJ1306	2321.00	3.5	8123.50
3	BUS-BAR WORK:					
A.	STRINGING of 220KV,132KV, 33KV & 11KV Bus Bar of ACSR conductor, including transportation of conductor, disc Insulator 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 tape 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 spacer T-Clamps for twin conductor for three plates of conductors in each bus-section					
	i) Single ACSR Panther	Sec.	PRJ1307	1165.00	1	1165.00

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CODE NO.	DESCRIPTION	Unit	SAP code	Rate	Qty	Amounts
1	2	3	4	5	6	7
B.	JUMPERS OF ACSR conductor (3 nos Y- type)between bus To equipment or between equipment to equipment or between 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	Sets	PRJ1312	333.00	13	4329.00
	ii) Double ACSR Zebra Conductor	Sets	PRJ1313	665.00	1	665.00
4	STRINGING of Earth wire(size 7/3.15 mm or 7/4.00mm) Including transportation of earthwire, tension hardware's 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 earthwire between structure peaks with Specified sag and tension, jumpering and connecting earth Bonds, for single earthwire.					
		Sec.	PRJ1316	292.00	1	292.00
5	ERECTION OF SUB-STATION EQUIPMENTS:					
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 transport-Station of base frame, fixing of terminal connectors, tightening of nuts & bolts etc. complete in all respect.					
	iii) 33KV or 11KV CT/PT	Nos	PRJ1321	532.00	3	1596.00
D	Erection of Isolators on already erected steel structure Including transportation of base frame 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.					
	ii) 33KV & 11KV					
	a) Without Earth Blade	Nos	PRJ1333	916.00	1	916.00
	b) With Single Earth Blade	Nos	PRJ1334	1364.00	2	2728.00

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CODE NO.	DESCRIPTION	Unit	SAP code	Rate	Qty	Amounts
1	2	3	4	5	6	7
F.	Erection of 2x33 KV or 2x11KV Capacitor Bank, with Series Reactors & Residual Voltage Transformers / Neutral Current Transformers, including transportation of equipment, structure Site store to location, assembly of structure, their placing on Foundation leveling and preparing for grouting as required, but Excluding grouting, assembly of capacitor bank cells on frames As required & their connections as per manufacturer's drawings, Fixing of terminal connectors etc.	Each	PRJ1337	18466.00	1	18466.00
H.	Erection of 33KV 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, 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) 33KV or 11KV Outdoor Type (VCB/SF 6)	Nos	PRJ1340	7404.00	1	7404.00
I.	Erection of Post Insulators on already erected structures including Transportation of P.I's nuts & bolts, clamps & connectors etc. from Site store to locations, fabrication of base frame & assembly if Required, fixing of clamps, etc.					
	iii) 33KV or 11 KV	Nos	PRJ1344	75.00	6	450.00
6	Erection of Control & 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 & Relay panels and with existing panels fixing of site/top Covers and doors earthing to existing earth strip in control room, And relay panel as required.					
	iii) Simplex Panel, DC Panel, RTCC Panel, PLCC Panel, etc.	Nos	PRJ1353	632.00	1	632.00
7	Erection of Marshalling Kiosk/Line Matching Unit(LMU)/Line Matching & 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) 33KV or 11KV Marshalling Kiosk	Nos	PRJ1356	192.00	1	192.00
10	LAYING AND TERMINATION OF CABLES:					
A.	Control Cable:					

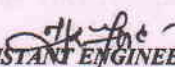
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CODE NO.	DESCRIPTION	Unit	SAP code	Rate	Qty	Amounts
1	2	3	4	5	6	7
	i) Laying of P.V.C insulated unarmoured/ armoured control cable of 1.1 KV grade with copper conductor in cable trenches as per specification as required, including transportation of 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, 4c x 6 sq.mm.					
	a) Unarmoured control cable,	Mtr	PRJ1381	5.00	2000	10000.00
	ii) Fixing of control cable in position with single compression nickel plated brass cable glands confirming 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) 19mm unarmoured control cable	Nos	PRJ1383	44.00	36	1584.00
	c) 25mm unarmoured control cable	Nos	PRJ1385	67.00	6	402.00
	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.					
	b) 3c x 2.5sq.mm	Each	PRJ1390	32.00	6	192.00
	f) 12c x 2.5 sq.mm	Each	PRJ1394	128.00	3	384.00
	In case all the wires of any cable are not got terminated, then a deduction at the rate Rs.6.00 shall be made for each end of wires not terminated.					
	i) 4c x 4.0 sq.mm	Each	PRJ1397	57.00	12	684.00
	In case all the wires of any cable are not got terminated, then a deduction at the rate Rs.7.00 shall be made for each end of wires not terminated wires not terminated.					
TOTAL AMOUNT IN Rs.						73374.50

The rate for the erection work given as per BSR 1.04.2017 vide D 45 Dt 21.04.2017 by SE(Contract-II)Jaipur


(En. K. L. GAJRAJ)
 Executive Engineer(T&C)
 RVPN, BARMER


 ASSISTANT ENGINEER (T&C)
 RVPN BALOTRA