

RVPN
An ISO 9001:2000
Certified Company

RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED
(Reg. Office: Vidyut Bhawan, Janpath, Jyoti Nagar, Jaipur-302005)
OFFICE OF THE EXECUTIVE ENGINEER (T&C) MERTA CITY, (Nagaur) 341505,
E-mail: xen.tnc.400merta@rvpn.co.in

NO. RVPN / XEN / T&C / GSS / MTC / TECH / D-48 DATE- 20.4.17

NOTICE INVITING BID. 02/2017 -18

Sealed Tenders are here by invited from reputed firms /contractors for execution of the erection of steel structure, laying of earth mesh , equipment erection and stringing of bus bar with installation of controls panels, cable laying and termination of cable of 33 KV Capacitor Bank at 132 KV GSS Sanjoo (Capacity 5.43MVAR)

Specification Number	
Name of the work	erection of steel structure, laying of earth mesh , equipment erection and stringing of bus bar with installation of controls panels, cable laying and termination of cable of 33 KV Capacitor Bank at 132 KV GSS Sanjoo (Capacity 5.43MVAR)
Estimated Cost	97000/-
Tender cost	NIL
Period of completion	03 Month
Earnest money	NIL
Validity period of offer	70 Days
Last date for sale of tender specification	Up to 01.00 PM, Dt.05/05/2017
Last date of submission of tender specification	Up to 02.00 PM, Dt.05/05/2017
Date of opening of tender	At 03.00 PM, Dt.05/05/2017

Enclosed: G-schedule.

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

Executive Engineer (T&C)
R.R.V.P.N.L Marta City (Nagaur)

Copy to:

1. The Superintending Engineer (T&C) RRVPNL, Mertacity.
2. The Assistant Engineer (T&C) RRVPNL, Nagpur /Mertacity.
3. The Account Officer (T&C) RRVPNL, Mertacity.
4. Feeder manager (T&C) Ajmer for uploading on RVPN Portal.
5. M/s Jogamya ElectroConstruction Jodhpur.
6. M/s Balaji power solution sikar.
7. M/s Mamta electrical & electronics ajmer.
8. M/s Rajshree Enterprises Th. malakhera distt.Alwar
9. M/s Vinayak Enterprises R-14 kamal vihar Nirman nagar jaipur
10. Notice board.

Executive Engineer (T&C)
R.R.V.P.N.L Marta City (Nagaur)

' G ' SCHEDULE

Name of work :- Erection work of 33 kv capacitor bank at 132 KV GSS Sanjoo

1. BSR RVPN/SE(SSPC)XEN(TK)/BSR/A1/D.21dated04.04.2011

S.No.	Description	Unit	Unit Rate in	Qty.	Amount
1	2	3	4	5	6
1	EARTH MESH WORK :- 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, transportation of M.S. Rods from site store to locations, welding of M.S. Rod to M.S. Rod along the lenth , at crossing and with earth electrodes as per drawing, application of bitumin compoun& covering with bitumin impregnated tape on all welded joints, for the type os soil prevent at 0.80 meter below top level of foundation(M.S. Rod of above size & 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 (ii) Hard soil / Murram / Black cotton soil	Mtr. Mtr.	18.00 19.00	125 100	2250 1900
2	Laying of earthing risers of 50 X 6 mm / 50 x 12 mm/ 50x10mmsize,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 & M.S. Flat as required shall be made available by the RVPN) (a) In case Electricity is made available by RVPN with out charge (i) Normal dry soil (ii) Hard soil / Murram / Black cotton soil	Mtr. Mtr.	20.00 21.00	120.00 100.00	2400.00 2100.00
3	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,nuts & bolts 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 structure upto 20 meters)	M.T.	1744.00	8.5	14824
4	BUS BAR WORK :- 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 store to location, laying & 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 upto one end, stringing of conductors between the beams with specified sag and tension, also equalizing sag and fitting spacers and spacer T- clamp for twin conductor, for three phases of conductors in each bus - section. (I) Single ACSR panther	Sec.	875.00	1.00	875.00
5	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 fitting of suspension hardware and erection as required, cutting required length of conductor, making connections, fixing of spacers & spacer T- clamp as required, tightening of clamps / connectors, dressing etc. for three phases. (I) Single ACSR Zebra / Panther conductor	Set	250.00	13.00	3250.00
6	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. (iii) 33 KV C.T.	Nos.	400.00	3.00	1200.00
7	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, & 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. Surge counter, tightening of nuts & bolts etc., complete in all respect. (ii) 33 KV (a) Without Earth blade (b) With Earth blade	Nos Nos	688.00 1025.00	1.00 2.00	688.00 2050.00

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8	erection of 2x33 kv,5.43 MVAR Cap. Bank With Series Reactor/ Residual voltage Transformer/Neutral current Transformer including transportation of Equipments, structure member, nuts&Bolts,washers, clamps& connectors etc. from site store to location,assemble of structure Their placing on foundation,leveling and preparing for grouting as required and their connections as per manufactures drawing fixing of terminal connectors etc.	EACH	13875.00	1.00	13875.00
9	Erection of 33 KV or 11 KV Circuit Breakers, including transportation of equipment, structure members, nuts & bolts, clamp & connectors, accessories 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 manufacture's drawings fitting of terminal connecrors etc. but excluding commissioning of CB. (I) 33 KV or 11 KV outdoor type (VCB/SF6)	Nos.	5563.00	1.00	5563.00
10	Erection of Post insulator 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. (i) 33 KV	Nos.	56.00	6.00	336.00
11	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 side / top covers and doors, earthing to existing earthstrip in control room,connection of bus wiring to existing panel and between control and relay panel as required. (ii) Simplex panel, DC Panel, RTCC Panel,	Nos.	475.00	1.00	475.00
12	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) 33 KV Marshalling Kiosk.	Nos.	144.00	1.00	144.00
13	LAYING AND TERMINATION OF CABLES Control Cables:- (I) Laying of P.V.C. insulated				

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	unarmoured / armoured control cable of 1.1 KV 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 as required, making necessary connections, testing, cable marking on both the terminating ends, etc. as required for all size from 2CX2.5sq. mm. to 4CX2.5sq. mm., 4CX4sq. mm. and 12CX 2.5 sq. mm. (a) Unarmoured Control Cable	Mtr.	4.00	2000.00	8000.00
14	(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 unarmoured control cable (b) 25mm unarmoured control cable	Nos. Nos.	33.00 50.00	20.00 6.00	660.00 300.00
15	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) 2 X 2.5sq.mm (b) 4C X 2.5 sq. mm. (C) 12C X 2.5 sq. mm. In case the wires of any cable are not terminated, then a deduction at the rate of Rs. 3.00 shall be made for each end of the wires not terminated	Each Each Each	16.00 32.00 96.00	5.00 2.00 6.00	80 64.00 576.00
	(c) 4c x 4 sq. mm In case the wires of any cable are not terminated, then a deduction at the rate of Rs. 4.00 shall be made for each end of the wires not terminated	Each	43.00	9.00	387.00
Total					61997.00


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Rs Sixty one thousand nine hundred Ninty Seven Only

61997.00


Junior Engineer (T&C)
RVPN, Nagaur


Assistant Engineer (T&C)
RVPN, Nagaur


Executive Engineer (T&C)
RVPN, Merta City