

Bid no.



RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD.

(An ISO 9001-2008 Certified Company)

Regd. Office: - Vidyut Bhawan, Janpath, Jyoti Nagar, Jaipur
OFFICE OF THE EXECUTIVE ENGINEER (T&C), BADALA
(Dist.:- Jodhpur) Pin code:-342307
Email-id. xen.tnc.bhadala@rvpn.co.in

NO.RVPM/xen/T&C/BHADALA/WORKS/F. (Const. work of 132 KV Bay) / D. 24th Dated

M/s

14.02.17

Limited Enquiry Tender Under This Office Bid No. 01(20-16-17)elt
TENDER INVITING Bids (NIB)

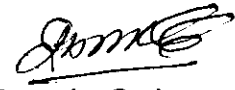
Limited Enquiry Tender /NIBS Under This Office Bid No. 01(2016-17) are invited for Construction Work of following 132 KV bay on labor rate contract as per our specification

SN	Description	Tender Cost	EMD	Estimated Cost as per BSR 2011	Last date for submission of Bid
1	Construction of 01 Nos 132 KV Bay To take in ckt of 132 KV I/C Phalodi at 132 KV GSS PS-5 as per enclosed G schedule	200	1601	80071.00	27.02.2017

Filled/Completed tender/Bids are invited and shall be accepted latest by up to 3.00 PM of dated 27.02.17 and receipted tenders shall be opened on dated 28.02.17 at 4.00 PM in the presence of bidders who choose to be present and procurement committee members (S.S. Meena Executive Engineer T&C RVPNL Bhadala, Sh. A.K.Singh Executive Engineer 220 KV GSS Badisid and Sh.Dlip Soni Accounts Officer T&C Bhadala)

1. You have read carefully all terms & condition/instructions of the tender specification and accepted the same, as enclosed with this NIT
2. Rates will remain valid up to the completion of work
3. Tender document are to be purchase from AO (T&C) RVPNL Bhadala (Head quarter 220 KV GSS Premises Phalodi) after deposit the tender cost & EMD/SD in cash/DD in the name of Accounts Officer T&C Bhadala
4. The tender cost is non refundable
5. The tenders shall be addressed to the Executive Engineer T&C RVPNL Bhadala campus 220 KV GSS RVPNL Bap

6. The undersigned has right to extend the date of opening/rejection of tender if necessary
7. The tender un complete in any respect will not be considered
8. Tender received late on any account not be considered
9. *Other T&C may be adopted as per RT DP Rule 2013 RT PP Oct/2012*



Executive Engineer
T&C RVPNL Bhadala

Copy to the following for information and necessary action

1. The Zonal Chief Engineer T&C RVPNL Jodhpur
2. The Superintending Engineer T&C RVPNL Bhadala
3. The Executive Engineer 220 KV GSS RVPNL Badisid
4. The Account officer T&C RVPNL Bhadala
5. The Feeder Manager RVPNL Jodhpur for uploading the above in RVPN site
6. Notice Board

Executive Engineer
T&C RVPNL Bhadala

RAJASTHAN RAJYA VIDHYUT PRASARAN NIGAM LIMITED

G Schedule of 132 KV Bay at 132 KV GSS PS V for tacking 132 Phalodi I/C in Ring System

CODE NO.	DESCRIPTION	UNIT	Rate	Qty	Amount
1	2	3	4	5	6
I	EARTH MESH WORK				
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	250	4500
	ii) Hard soil / Murram / Black cotton soil	Metres	19.00	40	760
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	200	4000
	ii) Hard soil / Murram / Black cotton soil	Metres	21.00	25	525
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		150.00	10	1500

	ii) Hard /murrum/ black cotton Soil	Nos.	250.00	9	2250
2	ERECTION OF SUB-STATION STEEL STRUCTURES 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	5	8720
3	BUS-BAR WORK				
A.	STRINGING of 220 KV, 132 KV, 33 KV & 11KV 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 spacer T-clamps for twin conductor, for three phases of conductors in each bus-section.				
	i) Single ACSR Panther	Section	875.00	1	875
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.				
	i) Single ACSR Zebra / Panther conductor	Set	250.00	12	3000
4	STRINGING 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	5	1095
5A	Erection of 33/0.4 KV or 11/0.4 KV Station Transformer up to 500 KVA on existing masonry platform including transportation of transformer & accessories from site store to location, erection of Horn Gap fuse set, jumpering from isolator to Horn Gap to transformer.	Each	1	2981.00	2981.00
			2981	1 &	
5.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.				
	ii) 132 KV CT / PT / CVT	Nos.	1063.00	6	6378

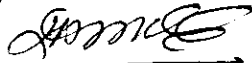
C.	Erection of Lightening Arrestor on already erected steel structure including transportation of Lightening Arrestor, clamps & connectors, surge counter, etc. from site store to locations, fabrication of base frame, fixing of terminal connectors, surge counter, tightening of nuts & bolts etc., complete in all respect.				
	ii) 132 KV	Nos.	1069.00	3	3207
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.				
	ii) 132 KV				
	a) Without Earth Blade	Nos.	1950.00	2	3900
	b) With Single Earth Blade	Nos.	2288.00	1	2288
	(iii) 33 KV				
	a) Without Earth Blade	Nos.	688.00	1.00	688.00
E.	Erection of Wave trap on already erected structure beam, including transportation of wave trap, disc insulators, hardware, clamps and connectors, etc. from site store to locations, cleaning & assembly of disc insulators alongwith fitting of suspension arrangement and erection, fixing of terminal connectors, etc.				
	ii) 132 KV	Nos.	450.00	2	900
G.	Erection of 220 KV or 132 KV Circuit Breakers, including transportation of equipment, structure members, nuts & bolts, clamps & 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 support columns / poles, mechanism box / control cubicle, and other accessories as per manufacturer's drawings, fitting of SF 6 gas pipeline, fabrication of air / oil pipeline as required, electrical wiring from pole to control cubicle, fixing of terminal connectors as required, but excluding commissioning of CB, for all types of operating mechanism, as required.				
	ii) 132 KV	Nos.	11438.00	1	11438
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.				
	ii) Duplex Panel	Nos.	950.00	1	950
	(iv) LT Panel	Nos.	1306.00	1	1306
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.				
	i) 220 KV or 132 KV Marshalling Kiosk	Nos.	281.00	1	281
10	LAYING AND TERMINATION OF CABLES				

A.	Control Cables				
	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	1000	4000
	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	15	495
	c) 25 mm unarmoured control cable	Nos.	50.00	10	500
	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	10	160
	b) 3c x 2.5 sq. mm.	Each	24.00	10	240
	c) 4c x 2.5 sq. mm.	Each	32.00	10	320
	f) 12c x 2.5 sq. mm.	Each	96.00	9	864
	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	30	1290
	In case all the wires of any cable are not got terminated, then a deduction at the rate of Rs. 5.00 shall be made for each end of the wires not terminated.				
10.B	LT Power Cable				
	i) Laying of PVC insulated and PVC sheathed armoured / unarmoured LT Power Cable of 1.1 KV grade with aluminium conductor as per IS :1255 in ground / cable trench/ wall/ surface including transportation of cable drums from site store to locations and excavation of 30 cms* 75cm size trenches providing 25 mm thick under layer of sand & 2nd class brick covering & refilling earth in remaining portion, fixing as per approved / available spacing by means of MSU clamps etc. as per specification as required including making necessary connections & testing etc. as required of the following sizes.				
	(d) 3.5 Core * 300 sq. mm.	Mtrs.	40	200.00	8000.00


$\frac{200}{40}$

ii)	Fixing of control cable in position with single compression. heavy duty nickel plated brass cable glands as per IS:12943 & having three mental washers and one rubber ring. Including preparation of cable and drilling of corresponding holes in gland plate, etc. including cost of cable gland if required for each end cable of size.		2 ²	332 ²	
(g)	75/76 mm. for 3.5 Core * 300sq. mm cable with material	Nos.	332.00	2	664.00
(h)	75/76 mm. for 3.5 Core * 300 sq. mm cable without material	Nos.	93 ²	2.00	186.00
iii)	Termination of wires of cable with aluminium conductor using ISI marked tubular aluminium terminal ends as per IS:8309 duly crimped with crimping tool, including making cable ends ready for crimping and providing insulaton tape with colour code, dressing of wires etc. Including cost of terminal ends if required for each end of cable (4 nos. per end) for the following size of cables.		2 ⁰	93	
(g)	3.5 Core * 300 sq. mm. with material	Sets.	616	2.00	1232.00
(h)	3.5 Core * 300 sq. mm. without material	Sets.	289	2.00	578.00
			2	289	

RS Eighty Thousand Seventy one Rupees only



Executive Engineer
T&C RVPNL Bhadala

 Total
Assistant Engineer(T&C)
RVPN, Bhadala

80071.00