

**RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED**

[AN ISO 9001:2008 CERTIFIED COMPANY]

[Corporate Identity Number (CIN):U40109RJ2000SGC016485]

(Registered Office: Vidyut Bhawan, Jyoti Nagar, Jaipur-302005)

**OFFICE OF THE EXECUTIVE ENGINEER (T&C)****CHANDERIYA, CHITTORGARH (RAJASTHAN) PIN: 312021**

Mobile 9413382270: Email &lt;xen.tnc.chittor@rvpn.co.in&gt;

NO: RVPN / XEN / T&amp;C / CHR / Works /F. - 01/ 2016-17 / D .270

Date 07 .03. 2017

**Notice Inviting Tender No. 02 F. Year 2016-17**

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 and jumpers, Installation of control panels, Cable laying and termination of cable for 33KV Capacitor Bank at 132 KV GSS RRVPNL, Rashmi (Chittorgarh )

Specification number	RRVPN/XEN/T&C/COR/WORKS/NIT NO.01/2016/17
Name of the work	Erection of steel structure, Laying of earth mesh, Equipment erection and stringing of Bus-Bar and jumpers, Installation of control panels, Cable laying and termination of cable for 33KV Capacitor Bank at 132 KV GSS RRVPNL, Rashmi ( Chittorgarh )
Estimated Cost	Rs. 57337.00
Tender cost	NIL
Period of completion	02 Month
Earnest Money	NIL
Validity period of offer	70 days
Last date for sale of tender specification	Up to 12.00 PM on 14.03.2017
Last date of submission of tender	Up to 2.00 PM on 14.03.2017
Date of opening of tenders	Up to 4.00 PM on 14.03.2017

Enclosed : G-schedule.

Note : For this NIB copy of the Bid (not transferable) can be obtained from this office in office time in above mention date.

Executive Engineer (T&C)  
RVPN Chittorgarh

Copy to :

- (1) The Superintending Engineer (T&C) RVPN Chittorgarh.
- (2) Assistant Engineer (T&C) RRVPNL Chittorgarh.
- (3) Feeder Manager (T&C) RVPN, Udaipur for Uploading on RVPN WEB PORTAL.
- (4) The Accounts Officer (T&C) RVPN, Chittorgarh.
- (5) M/S Geetangali Electricals, A 96 Jin Mata Mandir road, Near. Badi Puliya Bhilwara.
- (6) M/S Chamunda Engineering Enterprises VPO Gomana, Choti Sadari, Pratapgarh.
- (7) M/S New Tech Engineers Badii Sadari, Chittorgarh
- (8) Notice Board

Executive Engineer (T&C)  
RVPN Chittorgarh

OFFICE OF THE ASSISTANT ENGINEER (T&C),RRVPNL ,CHITTORGARH  
RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED  
G-SCHEDULE

Name of scheme :- Erection of 33KV Capacitor Bank Unit- II at 132KV GSS Rashmi.  
Work Incharge :- AEN(C&M),RRVPNL,Chittorgarh

W.P.No-11/25/10/2013  
RATES AS PER BSR 2011

S.No	SAP code	DISCRPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
1		<b>EARTH-MESH WORK</b>				
A-1		Laying of earth mesh with 25mm/28mm.Dia M.S.Rod at a depth of 0.80meter from top level of foundation including excavation of trench of required depth and back filling of the same transportation of M.S.Rod from site store to location Welding of M.S.Rod along thr length at crossin and withearth electrodes as per drawing application of bitumen compound and covering with bitumen impregnated tape on all welding joints for thr type of soil prevalent at 0.80meter 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 without charges				
	PRJ 1238	(i) Normal Dry soil	Mtrs.	50	18	900
	PRJ 1239	(ii) Murram/Black cottan/hard soil/Dense soil	Mtrs.	50	19	950
	PRJ 1240	(iii) Soft rock/disintegrated rock	Mtrs.	20	26	520
	PRJ 1242	(iv) Hard rock ( Blasting Prohibited )	Mtrs.	10	45	450
B-1		Laying of earthing risers with 50X6mm/50X10mm/50X12mm size M.S.Flat at a depth of .80meter from top level of foundations, including excavation of trench of required depth and back filling of the same transportation of M.S.Flat from site store to location 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 of extra length of M.S.Flat if required . Application of bitumen compound and covering with bitumen impregnated tape on all welding joints,painting of all surfaces of risers above ground level with red oxide and green paint for all type of soil prevalent at 0.80meter 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 without charges				
	PRJ 1258	(i) Normal Dry soil	Mtrs.	50	20	1000
	PRJ 1259	(ii) Murram/Black cottan/hard soil/Dense soil	Mtrs.	20	21	420
	PRJ 1260	(iii) Soft rock/disintegrated rock	Mtrs.	5	29	145
	PRJ 1262	(iv) Hard rock ( Blasting Prohibited )	Mtrs.	5	49	245
C-1		Placing /driving of earth electrode of 25/28mm dia M.S. Rod of length 3.30meter (approx.) to a depth -3.80meters from the top level of foundatin, including excavation of pit as per required and back filling of the same, transportation of M.S.Rod from site store to location, 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 welding joints for the type of soil prevalent at 4.80meter 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 without charges				
	PRJ 1278	(i) Normal Dry soil	Nos.	0	150	0
	PRJ 1279	(ii) Murram/Black cottan/hard soil/Dense soil	Nos.	1	250	250
	PRJ 1280	(iii) Soft rock/disintegrated rock	Nos.	1	400	400
	PRJ 1282	(iv) Hard rock ( Blasting Prohibited )	Nos.	1	794	794
2	PRJ 1306	<b>ERECTION OF SUB-STATION STEEL STRUCTURES</b> columns,beams lighting mast and equipment structure(excluding Ckt. Brkrs and Capacitor Banks) of all types including transportation of structure members, nuts & bolts,washers,etc. from site store to locations as required .Their assembly placing on foundation ,fixing of template with foundation bolts as required,lavelling and preparing for grouting as required but excluding grouting,erection after grouting and tightining & punching of nuts &bolts( Maximum Height of structures up to 20 meters)	MT	4.5	1744	7848
3		<b>BUS-BAR WORK</b>				
A		Stringing of 220KV, 132KV, 33KV & 11KV Bus Bar of ACSR conductor,including transportation of conductor ,disc insulator ,cleanoing 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.				
	PRJ 1307	(i) Single ACSR Panther	Section	1	875	875
B		<b>JUMPERS OF ACSR CONDUCTOR</b> ( 3Nos., Y-type) between bus to equipment or between equipment to equipment bus to bus, including transportation of conductor, disc insulators and hardware from site stores to location, cleaning and assembly of disc insulators as required, cutting required length of conductors, making connections, fixing of spacer, T- clamps as required tightening of clamps/ connectors, dressing etc. for 3 phase				
	PRJ 1312	(ii) Single ACSR Zebra/ Panther conductor	Set	21	250	5250
4	PRJ 1316	<b>STRINGING OF EARTH WIRE</b> (Size 7/3.15mm or 7/4.00mm) including transportation of earth wire, tension hardware etc. from site 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 to at one end stringing of earth wire between structure peaks with specified sag and tension jumpering and connecting earth bonds for single earth wire.	Each	3	219	657

M. E. Ad  
ASSISTANT ENGINEER  
(T & C) R.V.P.N.L.  
CHITTORGARH

S.No	SAP code	DISCRPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
		<b>ERECTION OF SUB-STATION EQUIPMENTS</b>				
5A		A.Erection of current Transformer/Potential Transformer/ Capacitive voltage 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 respect.				
	PRJ1324	(ii) 33KV CT/ PT	Nos.	3	400	1200
A		Erection of isolators on already erected steel structure including transportation of frame Pis. Contacts, Machanism- 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 adjustment if required after jumpering.				
		(ii) 33/11 KV				
	PRJ1333	a) With Out Earth Blade	Nos.	1	688	688
	PRJ1334	a) With Single Earth Blade	Nos.	2	1025	2050
B		Erection of 2X33KV or 2X11KV Capacitor Bank with Series Reactor & Residual Voltage Transformer/Neutral Current Transformers,including transportation of equipments,structures members nuts bolts,washers,clamps & connectors etc. from site store to location assembly of structure their placing on foundation,levelling 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.	Each	1	13875	13875
C	PRJ1340	Erection of 33KV or 11KV 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 drawing,fitting of terminal connectors etc. but excluding commissioning of CB.				
		(i) 33KV or 11KV outdoor Type ( VCB / SF6 )	Nos.	1	5563	5563
D		Erection of Post insulators on already erected structures including transporation of Pls nut & bolts, clamps & connectors, etc from site store to locations, fabrication of base frame & assemble if required, fixing of clamps. Etc.				
	PRJ1344	(iii) 33KV or 11KV	Nos.	6	56	336
6		Erection of Control & Relay Panels complete in all respects including transportation form site store to control room ,placing on foundation /cable trench as per layout,interconnection between control & relay 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.				
	PRJ1355	(iii) Simple Panel ,DC Panel ,RTCC Panel ,PLCC Panel etc.	Nbs.	1	475	475
7		Erection of Marshalling Kiosk/Line Matching Unit ( LMU ) / Line Matching & Distribution unit ( LMDU) complete in all respects including transportation to site to location, Placing on foundation/cable trench as per lay out, preparing for grouting etc.				
	PRJ1356	(ii) 33Kv & 11 Kv Marshalling Kiosk	Nos.	1	144	144
8		<b>LAYING AND TERMINATION OF CABLES</b>				
		<b>Control Cable</b>				
		(i) Laying of PVC insulated unarmoured armoured control cables of 1.1 KV grade with copper conductor in cable trench as per specification as required including transporation of cable drum from site to 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 neneccessary connections, testing cable making on both the termination ends. etc. as per required for all size from 2CX2.5sq.mm. to 20C x 2.5 sq.mm 4Cx4sq.mm. and 4Cx6sq.mm.				
	PRJ1381	a) Unarmoured control cables	Mtrs.	2500	4	10000
		(ii) Fixing of control cable in position withsingle 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 gland of size.				
	PRJ1383	a) 19 sq.mm. unarmoured control cables	Nos.	12	33	396
	PRJ1385	b) 25 sq.mm. unarmoured control cables	Nos.	0	50	0
	PRJ1387	c) 32 sq.mm. unarmoured control cables	Nbs.	2	72	144
		(iii) Termination of wire of cables with copper couductor using copper terminal ends9Pin or ring type as required of Dowell's or equivalent make as approved by Engineer - in-Charge dully crimped with crimping toolincluding making wire end ready for all wires for each cable at both ends for cable of the following sizes.				
	PRJ1389	a)2CX2.5sq.mm	Each	10	16	160
	PRJ1391	b) 4CX2.5sq.mm	Each	25	32	800
	PRJ1394	c) 12Cx2.5sq.mm	Each	0	96	0
	PRJ1396	d)18CX2.5sq.mm	Each	2	143	286
	PRJ1397	e) 4CX4 sq. mm.	Each	12	43	516
		In case all the wires of any cable are not terminated , then a deduction at the rate of Rs. 5.00 shall be made for each and of the wires not terminated.				
<b>TOTAL AMOUNT IN Rs.</b>						<b>57337.00</b>

I/we are hereby given consent to carry out the above work on ..... % above/below of & schedule amount.

Signature of Bidder/Contractor

Executive Engineer (T&C)  
RRVPLN, Chittorgarh

ASSISTANT ENGINEER  
(T&C) R.R.V.P.N.L.  
CHITTORGARH