



**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 <xen.tnc.chittor@rvpn.co.in>

NO: RVPN / XEN / T&C / CHR / Works / F. - 04/ 2017-18 / D.116

Date 12 -06 - 2017

**Notice Inviting Bid (Limited) No. 04 F. Year 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 and jumpers, Installation of control panels, Cable laying and termination of cable for 132 KV TSS Bay work at 132KV GSS, RRVPNL Senth Dist. Chittorgarh.

Specification number	RRVPN/XEN/T&C/COR/WORKS/NIT NO.04/2017/18
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 132 KV TSS Bay work at 132KV GSS, RVPNL Senth (Chittorgarh).
Estimated Cost	Rs. 188380.00
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 on 27.06.2017
Last date of submission of tender	Up to 02.00 PM on 27.06.2017
Date of opening of tenders	Up to 03.00 PM on 27.06.2017

Enclosed : G-schedule.

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

  
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 VP- Gomana, Choti Sadari, Pratapgarh.
- (7) M/S New Tech Engineers, Badi Sadari, Chittorgarh.
- (8) Notice Board

  
Executive Engineer (T&C)

RVPN Chittorgarh

Signature of Bidder

**OFFICE OF THE ASSISTANT ENGINEER(T&C), RVPNL, CHITTORGARH**

Name of Scheme:- 01 No. 132KV Bay for Railway TSS at 132KV GSS Senth.

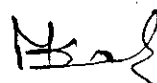
Work Incharge :- AEN(T&C), RVPNL,Chittorgarh

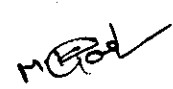
WBS Element CBAY/ 16.21

As per BSR 2017

**G-SCHEDULE**

Sr.N o.	SAP Code	DISCRIPTION	UNIT	Qty	RATE (Rs.)	AMOUNT (Rs.)
<b>1. EARTH-MESH WORK</b>						
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 loc. Welding of M.S.Rod along thr length at crossing and withearth electrodes as per drg. 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 reqd shall be made available by RVPN)				
		(a) In case electricity is made available by RVPN without charges				
	PRJ1238	(i) Normal Dry soil	Mtrs	70	24	1680
	PRJ1239	(ii) Murram/Black cotton/hard soil/Dense soil	Mtrs	100	26	2600
	PRJ1240	(iii) Soft rock/disintegrated rock	Mtrs	60	35	2100
	PRJ1242	(iv) Hard rock ( Blasting Prohibited )	Mtrs	40	60	2400
		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 tolocation 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				
	PRJ1258	(i) Normal Dry soil	Mtrs	50	27	1350
	PRJ1259	(ii) Murram/Black cottan/hard soil/Dense soil	Mtrs	50	28	1400
	PRJ1260	(iii) Soft rock/disintegrated rock	Mtrs	20	38	760
	PRJ1262	(iv) Hard rock ( Blasting Prohibited )	Mtrs	20	65	1300
		C-1Placing /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 reqd and back filling of the same, transportation of M.S.Rod from site store to location, cutting of M.S. Rod todesired length preparation of one end as spike if necessary, welding of earth electrode to earth mesh of M.S. Rod as per drg., application of bitumen compound and covering with bitumen impreganated 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				
	PRJ1278	(i) Normal Dry soil	Nos	0	200	0
	PRJ1279	(ii) Murram/Black cotton/hard soil/Dense soil	Nos	0	333	0
	PRJ1280	(iii) Soft rock/disintegrated rock	Nos	3	532	1596
	PRJ1282	(iv) Hard rock ( Blasting Prohibited )	Nos	3	1057	3171
<b>2.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 reqd .Their assembly placing on foundation ,foxing of template with foundation bolts as reqd,lavelling and preparing for grouting as reqd but excluding grouting,erection after grouting and tightening & punching of nuts &bolts (Max. Height of structures up to 20 meters)						
2	PRJ1306		MT	20	2321	46420
<b>3.BUS-BAR WORK</b>						
3A		A.Stringing of 220KV, 132KV, 33KV & 11KV Bus Bar of ACSR conductor,including transpotation 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.				
		(i) Single ACSR Zebra	Sec	1	1356	1356
	PRJ1307	(i) Single ACSR Panther	Sec	3	1165	3495

  
**Executive Engineer (T&C)**  
 RRVPNL, Chittorgarh



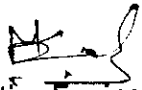
Sr.No.	SAP Code	DISCRIPTION	UNIT	Qty	RATE (Rs.)	AMOUNT (Rs.)
B		JUMPERS OF ACSR CONDUCTOR ( 3Nos., Y-type) between bus to equipment or b/w equipment to equipment bus to bus, including transportation of conductor, disc insulators and hardware from site stores to location, cleaning and assembly of disc insulators as reqd, cutting reqd length of conductors, making connections, fixing of spacer, T- clamps as reqd tightening of clamps/ connectors, dressing etc. for 3 phase				
	PRJ1312	(ii) Single ACSR Zebra/ Panther conductor	Set	54	333	17982
4	PRJ1316	4.SRTINGING OF EARTH WIRE (Size 7/3.15mm or 7/4.00mm) including transporation of E/W, tension hardware etc. from site to locs.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	5	292	1460
5		<b>5.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.				
	PRJ1320	(ii) 132KV CT/ PT / CVT	Nos.	9	1415	12735
5B		B.Erection of Wave trap on already erected structure beam including transportation of wave trap ,disc insulators,hardware, clamps and connectors etc form site store to locations,cleaning &assembly alongwith fitting of suspension arrangement and erection fixing of terminal connectors etc.				
	PRJ1336	(ii) 132 KV	Nos.	0	599	0
5C		C.Erection of Lightening Assesor on already erected steel structure including transportation of Lightening Assesor ,clamps & connectors,surge counter etc. from site store to locations, fabrication of base frame,fixing of terminal connectors,tightening of nuts & bolts etc. complete in all respect.				
	PRJ1324	(ii) 132KV	Nos.	3	1422	4266
5D		D.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.				
		<b>(i)132 KV</b>				
	PRJ1330	a) With Out Earth Blade	Nos.	2	2596	5192
	PRJ1331	a) With Single Earth Blade	Nos.	1	3045	3045
5E	PRJ1339	E.Erection of 132KV Circuit breakers, including transportation of equipment, structure member, nuts&bolts, clamps&connectors, accessorietc. 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, mechanisibox/controlcubicle and other accessories as per manufar's drawings, fitting of SF6 gas pieline, fabricaion of air /oil pipeline as reqd., electrical wiring from pole to control cable, fixing of terminal connectors as reqd., but excluding commissioning of CB for all types of operating mechanism as reqd.	Nos.	1	15223	15223
6		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.				
	PRJ1351	(i) 2 X 2 Duplex Panel	Nos.	1	2521	2521
7		7.Erection of Marshalling Kiosk/Line Matching Unit ( LMU) / Line Matching & Distr. 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.				
	PRJ1355	(i) 220KV or 132 KV Marshalling Kiosk	Nos.	2	374	748
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 reqd. including transporation of cable drum from site to store to location laying in cable trenches, cutting to reqd. length, placing them on cable racks/cable trays cable batten & dressing including removing and re-fixing trench covers as reqd, making necessary 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.	6100	5	30500

Executive Engineer (T&C)

REVPN, Chittorgarh

F:\Desk Top\LINE Folder\Line under progress\senthi Gosunda line\G Sch. bay at Senthi.

Sr.N o.	SAP Code	DISCRIPTION	UNIT	Qty	RATE (Rs.)	AMOUNT (Rs.)
		(ii) Fixing of control cable in position with single compression nickel plated brass cable glands				
	PRJ1383	a) 19 sq.mm. unarmoured control cables	Nos.	50	44	2200
	PRJ1385	c) 25 sq.mm. unarmoured control cables	Nos.	30	67	2010
	PRJ1387	e) 32 sq.mm. unarmoured control cables	Nos.	10	96	960
		(iii) Termination of wire of cables with copper conductor using copper terminal ends 9Pin or ring type as required of Dowell's or equivalent make as approved by Engineer - in-Charge dully crimped with crimping tool ,including 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	30	21	630
	PRJ1391	b) 4CX2.5sq.mm	Each	100	43	4300
	PRJ1394	c) 12Cx2.5sq.mm	Each	50	128	6400
	PRJ1396	d) 18CX2.5sq.mm	Each	30	191	5730
	PRJ1397	e) 4CX4 sq. mm.	Each	50	57	2850
		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. Exclusive of Service tax</b>						<b>188380.00</b>
<i>In Rs One Lacs Eighty Eight Thousand Three Hundred and Eighty Only.</i>						

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

I/We are hereby given consent to carry out the above work on  
 -----% above/below of Cr-schedule amount Rs 188380.00

I/We hereby declare that I have read all the terms & conditions  
 of the tender documents and agree to comply the terms & conditions.

SIGNATURE OF CONTRACTOR  
 With seal and date