

RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED

"G" SCHEDULE FOR CONSTRUCTION WORK OF 132 KV BERA BAY at 220KV GSS BALI

S,N	DESCRIPTION	UNIT	SAP Code	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	PRJ1238	24 0	300	7200 00
	ii) Hard soil / Murram / Black cotton soil	Metres	PRJ1239	26 0	150	3900 00
	iii) Soft rock	Metres	PRJ1240	35 0	50	1750 00
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	PRJ1258	27 0	300	8100 00
	ii) Hard soil / Murram / Black cotton soil	Metres	PRJ1259	28 0	200	5600 00
	iii) Soft rock	Metres	PRJ1260	38 0	25	950 00
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	Nos	PRJ1278	200 0	9	1800 00
	ii) Hard soil / Murram / Black cotton soil	Nos	PRJ1279	333 0	3	999 00
	iii) Soft rock	Nos	PRJ1280	532 0	3	1596 00
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 structural 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	PRJ1306	2321 0	18	41778
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	PRJ1307	1165 0	1	1165 00
	ii) Single ACSR Zebra	Section	PRJ1308	1356 0	1	1356 00
	iii) Double ACSR Zebra	Section	PRJ1309	1955 0	2	3910 00

S.N	DESCRIPTION	UNIT	SAP Code	Rate	Qty	Amount
1	2	3		4	5	6
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	PRJ1312	333.0	15	4995.00
	ii) Double ACSR Zebra conductor	Set	PRJ1313	665.0	2	1330.00
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	PRJ1316	292.0	5	1460.00
5	ERECTION OF SUB-STATION EQUIPMENTS					
A	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	PRJ1320	1415.0	6	8490.00
B	Erection of Lightning Arrestor on already erected steel structure including transportation of Lightning 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	PRJ1324	1422.0	3	4266.00
C	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					
	i) 132 KV					
	a) Without Earth Blade	Nos	PRJ1330	2596.0	2	5192.00
	b) With Single Earth Blade	Nos	PRJ1331	3045.0	1	3045.00
	c) Tundoon	Nos	PRJ1332	3045.0	1	3045.00
D	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	PRJ1336	599.0	2	1198.00
E	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	PRJ1339	15223.0	1	15223.00
F	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					
	ii) 132 KV	Nos	PRJ1343	665.0	6	3990.00
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	PRJ1352	1265.0	1	1265.00

S.N	DESCRIPTION	UNIT	SAP Code	Rate	Qty	Amount
1	2	3		4	5	6
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.	PRJ1355	374.0	1	374.00
8	LAYING AND TERMINATION OF CABLES					
A	Control Cables					
	i) Laying of P V C insulated unarmoured / armoured control cables of 11 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	PRJ1381	5.0	1200	6000.00
	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	PRJ1383	44.0	20	880.00
	b) 25 mm unarmoured control cable	Nos	PRJ1385	67.0	24	1608.00
	c) 32mm unarmoured control cable	Nos	PRJ1387	96.0	2	192.00
	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					
	a) 2c x 2.5 sq mm	Each	PRJ1389	21.0	2	42.00
	b) 4c x 2.5 sq mm	Each	PRJ1391	43.0	16	688.00
	f) 12c x 2.5 sq mm	Each	PRJ1394	128.0	2	256.00
	h) 18c x 2.5 sq mm	Each	PRJ1396	191.0	2	382.00
	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	PRJ1397	57.0	24	1368.00
	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					
					TOTAL	145393.00

Note:- (1) "G"- Schedule prepared as per BSR 01.04.2017


XEN (T & C) RVPN
KANKANI JODHPUR


ASSISTANT ENGINEER
(T&C) RVPN, PALI



RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD.
[Corporate Identity Number (CIN) U40109RJ2000SGC016485]
OFFICE OF THE EXECUTIVE ENGINEER (T&C), RVPN, KANKANI,
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No. RVPN/XEN/T&C/KANKANI/F. /TECH/CASH/ESTT/D. 396 DATED 6.10.17

Short term Tender No. 12 (2017-18)

The tender as per G- schedule is invited from experienced Contractors for Construction work of 132 Bera KV bay work (Erection work of sub-station structure, Bus Bar, Equipment and Earthing & jumpering work etc.) at 220 KV GSS RVPN BALI. Tender will be received by this office from 2:00PM Dated 06.10.2017 and submitted on any working day up to 3:00 PM Dated 24.10.2017. Tender shall be opened on Dated 25.10.2017 at 4:00 PM in the presence of bidders who choose to be present at that time.

G-Schedule BSR AS ON 21.04.2017 of erection work of Sub Station structure, Bus Bar, Equipment and Earthing & jumpering work etc. (complete Construction work of 132 KV Bera bay) at 220 KV GSS RVPN BALI is enclosed.

All the enclosed documents shall be returned dully filled up with signature /date /seal on each page.

1. Specification No: - RVPN/XEN/T&C/short term NIT.
2. Name of work: - Erection work of sub-station structure, Bus Bar, Equipment & earthing & jumpering work etc. for Installation of 132 KV Bera bay at 220 KV GSS Bali
3. Estimate Cost: - Rs 145393.00
4. Tender cost: - Rs 750.00+ 18% GST(to be deposited at Account Officer(T&C) RVPN,Kankani)
5. Bid security@2%:-2908.00(to be deposited at Account Officer(T&C) RVPN,Kankani upto 3P.M on dated 24.10.2017)
6. Work Completion period: - 60 Days or within 15 days after last issue Material, whichever later.
7. Opening date:-25.10.2017 at 4:00 PM

Term and conditions

1. Tender should be addressed to the Executive Engineer (T&C) Kankani having office at NPH Premises new 220kV GSS control room building Jodhpur in sealed envelope indicated clearly the NIT No.
2. The rate quoted by the tenderer/ firm will be inclusive of all type of labour charges and other related levies etc. as applicable but exclusive of GST/service tax, insurance. The tenderer does not bind to RVPN for accepting the lowest or any other tender and RVPN reserves the Right to reject any or all tenders without assigning any reason thereof.

3. All material supplied by RVPN at site camp store at 220 KV GSS RVPN Bali. Transportation up to site location will be borne by the Contractor. Quoted rates shall be valid for 120 days from the date of opening of tender.
4. The work shall be completed within stipulated period failing which penalty @ 0.5% per week, but maximum to 5% of cost of the work not completed/ Late shall be liable to be imposed.
5. The department /RVPN shall not be responsible for any injury inflicted to your worker engaged in Construction work and damage to existing yard and equipment. All compensation /Medical aid etc will be to the contractor Account.
6. After Completion of work Contractor will submitted the bill in triplicate to the Engineer incharge. The payment shall be arrange/released as per Nigam payment policy by the AO (T&C) Kankani after deduction made as per rules after receipt of verified bills/invoice by the consignee/in charge Engineer.
7. Work quantity of items may vary at the time of placement of order.
The contractor/firm confirms to agree to adhere to all terms and conditions as well as technical specifications.

Enclosed:-G-Schedule

Signature of contractor with date & seal


EXECUTIVE ENGINEER (T&C)
KANKANI RVPN JODHPUR

Copy to the following for kind information and further necessary action please.

- (1) The Zonal Chief Engineer (T&C) RVPN Jodhpur
- (2) The Superintending Engineer (T&C), RVPN, Kankani .with request to kindly arrange to upload on SPP web site.
- (3) The Executive Engineer (220 kV GSS), RVPN, Bhawad .with request to kindly arrange to upload on SPP web site
- (3) Assistant Engineer (T&C) Kankani/Pali with direction to attend this office on dated i.e. 25.10.2017 for opening of Tender.
- (4) Accounts officer kindly arrange to attend this office on dated 25.10.2017 for opening of the tender.
- (5) Feeder Manager O/O SE (T&C) Jodhpur along with details of Tender and "G"-Schedule for up load on RVPN website
- (6) Notice Board.


EXECUTIVE ENGINEER (T&C),
KANKANI RVPN, JODHPUR