



RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED

[Corporate Identity Number (CIN): U40109RJ2000SGC016485]

Regd. Office : Vidyut Bhawan, Jyoti Nagar, Jaipur- 302005

OFFICE OF THE SUPERINTENDING ENGINEER (T&C) KANKANI

New Power House, Jodhpur Telephone/Fax No.0291-2741546
Website: www.rvpn.co.in, Email: se.400kankani@rvpn.co.in

NO.RVPN/SE/T&C/Kankani/S.PS/F.132 KV BAY/D.634

DATED :-11/08/2016

M/s A.G. Enterprises,
18, Clock tower,
Alwar-301001

M/s ShreeTechno Service,
188, Shiv Road,
Ratanada Jodhpur

M/s Vinayak Enterprises,
R-14, Kamal Vihar,
Jaipur

Sub: - Regarding construction of 01 no. 132 KV Bay at 220 KV GSS Bhawad for HPCL Mittal Pipe line on CLRC.

Dear Sir,

On the Captioned subject, it is intimated that 01 no. of 132 KV Bay at 220 KV GSS Bhawad for HPCL Mittal Pipe line is to be constructed under this circle on CLRC of RVPN as per enclosed 'G' schedule.

You are requested to please send your consent within 07 days for execution of above work as per enclosed 'G' schedule ^{so} that work order in this regard may placed to start this work.

Thanking You,

Your's faithfully

Encl.:- As above


SUPERINTENDING ENGINEER (T&C)
RVPNL, KANKANI

Copy submitted/forwarded to the following for information and necessary action:-

1. The Zonal Chief Engineer (T&C) RVPNL Jodhpur
2. The Feeder Manager (T&C) RVPNL Jodhpur.

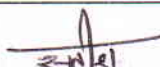
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SUPERINTENDING ENGINEER (T&C)
RVPNL, KANKANI

RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD


**G-SCHEDULE FOR ERECTION WORK OF 132 KV BAY AT 220 KV GSS BHAWAD FOR 132 KV
S/C HPCL MITTAL LINE**

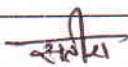
CODE NO.	DESCRIPTION	UNIT	RATE	QTY.	AMOUNT
1	2	3	4	6	7
1	EARTH MESH WORK				
B.1	Laying of earthing risers of 50x6mm/50x10mm/50x12mm size M.S.Flat at a depth of 0.80 metre from top level of foundations. Including excavation of trench of required depth and backfilling of the same. transportation of M.S.Flat from site store to location preparation of risers, bending as per requirement (after heating if necessary), fixing on and welding/bolting to equipment/ structure and oaejs if 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 surface 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	Meter	20.00	50	1000.00
	ii) Hard soil/Murram/Black cotton soil	Meter	21.00	150	3150.00
	iii) Soft Rock	Meter	29.00	100	2900.00
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 foundation 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 meters below top level 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	Meter	150.00	2	300.00
	ii) Hard soil/Murram/Black cotton soil	Meter	250.00	2	500.00
	iii) Soft Rock	Meter	400.00	3	1200.00
	iv) Hard Rock(with blasting)	Meter	700.00	0	0.00
2	ERECTION OF SUB-STATION STEEL STRUCTURES columns. Beams .lighting mast and equipment structures (excluding Circuit Breakers and nuts & bolts, washers etc from site store to locations Their assembly, placing on foundation, fixing of template, with Foundation, fixing of template., with foundation bolts as required Leveling 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)	Nos	1744.00	15	26160.00
3	BUS-BAR WORK:				
A.	STRINGING of 220KV,132KV, 33KV & 11KV Bus Bar of ACSR conductor. including transportation of conductor,disc Insulator and tension hardware from site stores to location laying And cutting required length of conductor. cleaning and assemblyof disc insulators as required along with fitting of bolted type or compression tape 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 spacer T-Clamps for twin conductor for three plates of conductors in each bus-section				
	ii) Single ACSR Zebra	Sec.	1019.00	1	1019.00


Assistant Engineer
SE (400 K V) G.S.S.
R.V.P.N.L., KAKANI, JODHPUR (NEW)


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RRVPL, JODHPUR

B.	JUMPERS OF ACSR conductor (3 nos Y- type)between bus To equipment or between equipment to equipment or between 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	3000.00
4	STRINGING of Earth wire(size 7/3.15 mm or 7/4.00mm) 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	4	876.00
5	ERECTION OF SUB-STATION EQUIPMENTS:				
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 transport-Tation of base frame.fixing of terminal connectors.tightening of nuts & bolts etc. complete in all respect.				
	ii) 132KV CT/PT/CVT	Nos	1063.00	12	12756.00
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 and Bolts etc. complete in all respect.				
	ii) 132KV	Nos	1069.00	3	3207.00
D	Erection of Isolators on already erected steel structure Including transportation of base frame.P 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) 132KV				
	a) Without Earth Blade	Nos	1950.00	2	3900.00
	b) With Single Earth Blade	Nos	2288.00	1	2288.00
E	Erection of Wave trap on already erected structure beam. Including transportation of wave tap. disc insulators.hardware Clamps and connectors.etc. from site store to locations.cleaning & assembly of disc insulators along with fitting of suspension Arrangement and erection. fixing of terminal connectors etc.				
	ii) 132KV	Nos	450.00	2	900.00
G.	Erection of 220KV or 33KV or 132KV Circuit Breaker. 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.level- ing and p repairing for grouting as required. but excluding grouting. Assembly/placing of support colums/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	11438.00
6	Erection of Control & Relay Panels complete in all respect. Including transportation from site store to control room. placingOn foundation/cable trench as per layout. interconnection between Control & Relay panels and with existing panels fixing of site/top Covers and doors earthing to existing earth strip in control room. And relay panel as required.				
	ii) Duplex Panel	Nos	950.00	1	950.00

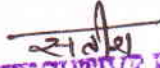

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7	Erection of Marshalling Kiosk/Line Matching Unit(LMU)/Line Matching & Distribution Unit (LMDU) complete in all respect Including transportation from site store to location. placing on Foundation/ cable trench as per layout. preparing for grouting Of foundation bolts but excluding grouting etc.				
	i) 220KV or 132KV Marshalling Kiosk	Nos	281.00	1	281.00
	ii)33KV Marshalling Kiosk	Nos	144.00	1	144.00
10	LAYING AND TERMINATION OF CABLES:				
A.	Control Cable:				
	i) Laying of P.V.C insulated unarmoured/ armoured control cable 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 and 4c x 4 sq.mm.				
	a) Unarmoured control cable.	Mtrs.	4.00	3000	12000.00
	ii) Fixing of control cable in position with single 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 cable gland of size.				
	a)19mm unarmoured control cable	Nos	32.00	20	640.00
	c) 25mm unarmoured control cable	Nos	50.00	5	250.00
	e) 32mm unarmoured control cable	Nos	72.00	0	0.00
	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	16.00	10	160.00
	b) 3c x 2.5sq.mm	Each	24.00	0	0.00
	c) 4c x 2.5 sq.mm	Each	32.00	20	640.00
	f) 12c x 2.5 sq.mm	Each	96.00	2	192.00
	h) 18c x 2.5 sq.mm	Each	143.00	0	0.00
	In case all the wires of any cable are not got terminated. then a deduction at the rate Rs.4.00 shall be made for each end of wires not terminated.				
	i) 4c x 4.0 sq.mm	Each	43.00	15	645.00
	In case all the wires of any cable are not got terminated. then a deduction at the rate Rs.5.00 shall be made for each end of wires not terminated wires not terminated.				
TOTAL					90496.00
ADD:-60% ABOVE BSR					54297.60
TOTAL AMOUNT					144793.60

Say `144794.00 (Rs. One lacs forty Four thousand seven hundred Ninty Four only)


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