



RAJASTHAN RAJYA VIDHUT PRASARAN NIGAM LTD.

[Corporate Identity Number (CIN):L40109RJ2000SGC016485]

Regd. Office: VidyutBhawan, Jyoti Nagar, Jaipur-302005


OFFICE OF THE EXECUTIVE ENGINEER-I (T&C), RRVPNL, Ratangarh.

Phone No. 01567-222060, E-mail:-xen.cm.400ratangarh@rvpn.co.in, Website: www.rvpn.co.in

RVPN/XEN/CM/Ratangarh/D.217 dtd.03.08.2017

CORRIGENDUM (BN-3014301701)

Find attached the corrected G-Schedule of Augmentation of Transformer at 220 kV GSS, Tehandesar (BN-3014301701). All other terms & conditions shall remain same.


3/8/17

EXECUTIVE ENGINEER (T&c)
RVPN, RATANGARH

Rajasthan Rajya Vidyut Parsaran Nigam Limited
Transmission and Construction Circle-SE(T&C),RVPN,Ratangarh.
G -Schedule for Erection of structure & Equipments, Jumpering and earthing work
for Augmentation of Transformer at 220 KV GSS ,RVPN, Tehandesar.

S.No	Particulars	Unit	Rate On BSR, 2017 (Rs.)	Quantity	Amount (Rs.)
1	EARTH MESH WORK				
A-1	Laying of earth mesh with 25/28 mm dia M.S.Rod at a depth of 0.80m 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 the crossing and with earth electrodes as per drawing ,application of bitumen compound and covering with bitumen impregnated tape on all welded joint for all the type of soil prevalent at 0.8m 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 charge				
	i. Normal dry soil	Meter	24.00	1000	24000.00
B-1	Laying of earthing riser of 50x10mm / 50x12mm size M.S.Flat at a depth of 0.8m form the 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 equipments / 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 all the type of soil prevalent at 0.8m 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 charge				
	i. Normal dry soil	Meter	27.00	600	16200.00
C-1	Placing / Driving of earth electrodes of 25/28mm dia M.S.Rod of length 3.30 meter (approx) to a depth of 3.80 meter 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 electrodes to earth mesh of M.S.rod as per drawing, 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 all the type of soil prevalent at 3.8m below top level of foundations (M.S.Rod of above sizes &M.S.Flat as required shall be made available by RVPN)				

2/11/2017

AS

2/11/2017

S.No	Particulars	Unit	Rate On BSR, 2017 (Rs.)	Quantity	Amount (Rs.)
	(a) In case electricity is made available by RVPN without charge				
	i. Normal dry soil	Nos.	200.00	25	5000.00
2	ERECTION OF SUBSTATION STEEL STRUCTURE columns, beams lighting mast and equipment structures (excluding circuit Breakers and Capacitor Banks) of all type including transportation of structure member, nuts & bolts, washers, etc. from site store to locations, their assembly, placing on 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)	M.T.	2321.00	25	58025.00
3	BUS BAR WORK				
A	STRINGING of 220,132,33 & 11 KV bus bar of ACSR conductor including transportation of conductor, disc isolator and tension hardware from site store to location, laying and cutting required length of conductor, cleaning and assembly of disc insulator 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 basis), making up at one end, stringing of conductor between the beams with specified sag and tension, also equalizing sag and fitting spacers and spacer T- Clamps for twin conductor for three phase of conductor in each section .				
	ii) Single ACSR Zebra	section	1356.00	2	2712.00
	iii) Double ACSR Zebra	section	1955.00	2	3910.00
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 insulator and hardware from site store to location, cleaning and assembly of disc insulator as required along with fitting of suspension hardware and erection as required, cutting required length of conductor, making connection, fixing of spacer & spacer T- clamp as required, tightening of clamps/ connectors, dressing etc., for three phase.				
	i) Single ACSR Zebra/ panther cond.	set	333.00	25	8325.00
	ii) Double ACSR Zebra cond.	set	665.00	25	16625.00
4	STRINGING of earth wire (size 7/3.15mm of 7/4.00 mm), including transportation of earth wire, tension hardware, etc from site store to locations, laying and cutting required length of earth wire, fitting of bolted type of compression type hardware as made available (compression machine shall be provided by RVPN on rent basis), making up at one end, stringing of earth wire between structure peaks with specified sag and tension umpiring and connecting earth bonds for single earth wire.	Each			
			292.00	15	4380.00

rdh

AB

Buy

S.No	Particulars	Unit	Rate On BSR, 2017 (Rs.)	Quantity	Amount (Rs.)
B	Erection of current transformer/ potential transformer / capacitive voltage transformer / series reactor / residual voltage transformer / natural current transformer with clamps & connectors, on already erected steel structure including transportation from site store to location fabrication of base frame fixing of terminal connection tightening of nuts & bolts etc. complete in all respects.				
	i) 220 KV CT/PT/CVT	Nos.	2529.00	3	7587.00
	ii) 132 KV CT/PT/CVT	Nos.	1415.00	3	4245.00
C	Erection of lightening arrester on already erected steel structure including transportation of lightening arrester, clamps & connectors, surge counter etc. from site store to location, fabrication of base frame, fixing of terminal connectors, surge counter, tightening of nuts & bolts etc. complete in all respect.				
	i) 220 KV	Nos.	1996.00	3	5988.00
	ii) 132 KV	Nos.	1422.00	3	4266.00
D	Erection of isolators on already erected steel structure including transportation of base frame, P.Is, contacts, mechanism-box, clamps & connectors etc. from site store to location, minor fabrication as required, and fixing of terminal connectors, for their smooth operation and final adjustment if required after jumpering.				
	i) 220 KV				
	a) without earth blade	Nos.	4400	3	13200.00
	d) tandem	Nos.	4899	1	4899.00
	ii) 132 KV				
a) without earth blade	Nos.	2596.00	3	7788.00	
G	Erection of 220 KV or 132 KV 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, leveling and preparing for grouting as required, but excluding grouting, assembly/ placing of support columns/ poles mechanism box/ control cubical, and other accessories as per manufacturers drawing fitting of SF-6 gas pipeline, fabrication of air/ oil pipeline as required, electrical wiring from pole to control cubical, fixing of terminal connectors as required, but excluding commissioning of CB, for all types of operating mechanism, as required.				
	i) 220 KV	Nos.	19216	1	19216.00
	ii) 132 KV	Nos.	15223.00	1	15223.00
I	Erection of Post Insulator on already erected structure including transportation of P.I's, nuts & bolts, clamps & connectors, etc. from site store to location, fabrication of base frame & assembly if required, fixing of clamps, etc.				
	i) 220 KV	Nos.	883.00	45	39735.00
	ii) 132 KV	Nos.	665.00	27	17955.00

zdk

AB

zdk

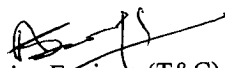
S.No	Particulars	Unit	Rate On BSR, 2017 (Rs.)	Quantity	Amount (Rs.)
K	Erection of 220 KV class EHV Transformer (gas filled tank already placed on foundation with wheels), including transportation of accessories from site store to location erection of HV, IV, LV & Neutral bushing, main & OLTC conservator, radiator, equalizing pipe line, marshalling Kiosk, etc. as per manufacturers drawing preparation of oil filling, dehydration of transformer (filter machine, oil tank & operating staff shall be provided by RVPN), electrical wiring from individual equipment e.g., Buchholz relay, MOLG, OSR, etc. to marshalling kiosk, etc. but excluding testing & commissioning of transformer.				
	a) If electricity is available & arranged by RVPN without charges	Nos	128596.00	1	128596.00
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 C&R panels and with existing panels,fixing of earth strip in control room, connection of bus wiring to existing panel and between C&R panel as required				
	(i) 2*2 Duplex Panel	Nos.	2521.00	1.00	2521.00
	(ii) Duplex panel	Nos	1265.00	1.00	1265.00
	(ii) Simplex panel ,DC panel, RTCC panel, PLCC panel etc.	Nos	632.00	1.00	632.00
7	Erection of Marshalling Kiosk , complete in all respects including transportation from site store to location ,placing on foundation/ cable trench as per Layout, preparing for ground of foundation bolts but excluding grounding etc.				
	(i) 220 or 132 KV Marshalling kiosk	Nos	374.00	2	748.00
10	LAYING AND TERMINATION OF CABLES				
A	Control Cable				
	i)Laying of P.V.C. insulated unarmored / armored control cables of 11KV 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 & re- fixing trench cover 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. & 4c x 6 sq. mm.				
	a) unarmoured control cable	Meters	5.00	10000	50000.00
	(ii) Fixing of control cables 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 & drilling of corresponding holes in gland plates , etc as required & including cost of cable glands for each cable glands, for each cable gland of size.				

20/14

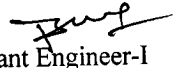
[Signature]

[Signature]

S.No	Particulars	Unit	Rate On BSR, 2017 (Rs.)	Quantity	Amount (Rs.)
	a) 19 mm unarmoured control cable	Nos.	44.00	30	1320.00
	c) 25 mm unarmoured control cable	Nos.	67.00	25	1675.00
	e) 32 mm unarmoured control cable	Nos.	96.00	15	1440.00
	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, feruling and dressing of wires etc. as required including cost of terminal ends for all wires for each cable at both ends for cable of the following sizes:				
	(a) 3 core * 2.5 sq. mm	Each	32.00	4.00	128.00
	(c) 4 core * 2.5 sq. mm	Each	43.00	22.00	946.00
	(d) 6 core * 2.5 sq. mm	Each	64.00	10.00	640.00
	(f) 12 core * 2.5 sq. mm	Each	128.00	15.00	1920.00
	(h) 18 core * 2.5 sq. mm	Each	191.00	12.00	2292.00
	In case of all the wires of any cable are not got terminated, then the deductoin @ Rs. 3.00 shall be made for each end of the wire not terminated				
	(e) 4 core * 4 sq. mm	Each	57.00	30.00	1710.00
	In case of all the wires of any cable are not got terminated, then the deductoin @ Rs. 4.00 shall be made for each end of the wire not terminated				
				Total Rs.	475112.00


Executive Engineer(T&C)
RVPN, Ratangarh


SIN I


Assistant Engineer-I
(T&C),RVPN,Ratangarh

Add above /Below on BSR rates (2017) as aboveincluding all taxes and Duties

Total=.....

I here declare that I have read the all terms & condition of the tender documents and agreed to comply the terms & condition.

Signature of the Contractor with Seal