



ii 11m exln Only	No	0	15000.50	0.00
3 60kV DC type Tower	No	0	34724.15	0.00
ii 11m exln Only	No	0	10489.74	0.00
ii 11m exln Only	No	0	160719.30	0.00
4 60kV DID type Tower	No	0	499541.21	0.00
ii 11m exln Only	No	0	108650.24	0.00
ii 11m exln Only	No	0	112677.14	0.00
ii 11m exln Only	No	0	304601.06	0.00
5 Gantry	No	2	101507.14	0.00
6 4 pole structure on 11 mtr long PCC poles	No	2	0.00	1078.00
Supply of earthing of towers	Set	2	6647.16	0.00
i Pipe type	Set	0	0.00	0.00
ii Counterpoise type	Set	0	0.00	0.00
2 Supply of following Tower accessories	No	6	677.09	477.09
i Danger Plate	No	6	677.09	2000.00
ii Name Plate	Set	3	677.09	477.09
iii Name Plate (Set of 3)	Set	6	677.09	477.09
iv Name Plate (Set of 2)	Set	6	604.73	4000.00
v Name Plate (Set of 3)	Set	6	9035.04	0.00
vi Anti clashing device	Set	6	0.00	0.00
<b>B LINE MATERIAL</b>				
4 Conductor Wolf ACSR (150mm <sup>2</sup> )	km	12	132090.30	0.00
5 Earth wire (15 mm)	km	0.4	30260.64	0.00
6 Working type disc insulators	Set	25	2627.77	2000.00
ii 80 kV Suspension type	Set	55	3782.58	0.00
ii 80 kV Tension type	No	0	2521.72	0.00
7 66 kV Post Insulators	Set	0	0.00	0.00
8 Hardware Fittings	Set	0	756.52	0.00
i Single Suspension String suitable for Wolf ACSR (150mm <sup>2</sup> )	Set	7	1373.66	0.00
ii Single suspension pilot string suitable for Wolf ACSR (150mm <sup>2</sup> )	Set	19	1639.12	3143.26
iii Single Tension string suitable for Wolf ACSR (150mm <sup>2</sup> )	Set	0	5850.76	0.00
iv Double tension string	Set	0	0.00	0.00
2 Conductor & Earth wire Accessories	No	2	867.45	1734.90
i Mid Span Compression Joint for conductor	No	1	98.29	98.29
ii Mid Span Compression Joint for earth wire	No	2	230.24	460.48
iii Keeper sleeves for conductor	No	2	397.58	795.16
iv Flexible copper Bond	No	60	801.94	4811.00
v Insulator clamp for Wolf ACSR	No	4	472.13	1888.50
vi Vibration damper for earth wire	No	3	614.44	1843.30
vii Earth wire Tension clamp	No	3	633.64	1899.90
viii Earth wire Suspension clamp	No	3	633.64	1900.90
<b>Total</b>				<b>14,16,483.80</b>

**Rs 14,16,483.80**

**(Rupees Fourteen Lakh Sixteen Thousand Four Hundred Eighty Three & Paise Eighty only)**

All terms and conditions of the original work order (Referred above) shall remain unchanged

This may please be read in conjunction with the above referred work order already issued to you by this office and quantity variation may please be acknowledged accordingly

Superintending Engineer/ P&D  
UHBVN, Panchkula

Copy of the above is forwarded to the following for information and necessary action please.

1. SPS to Director/ Tech-I, UHBVN, Panchkula for kind information of the Director.
2. CE/ PD&C, UHBVN, Panchkula.
3. CE/ Op Circle, UHBVN, Panchkula.

Scanned with

Word Order No:- PDC-824/CE PDC/SE PD/XEN DD-III/B-581/2019

Subject :- Work for construction of new 66 kv Towers for strengthening of existing 33 kv Rampur-Thimo and 33 kv Rampur-Ledli lines emanating from 220kv Sub-station Rampur-Kamboj at Low Lying/ Water Logging/Forest Area alongwith complete civil works on turnkey basis under 'Op'Circle, Yamuna Nagar in geographical area of UHBVN.

BOO

W/O Sr. No	Name Of Product/Service	UOM	Work Order - 1 Qty	Rate	Total cost for supply of material	Work Order - 2 Qty	Total qty after amendment	Total (1+2) Amount	Actual qty As per survey of chouli line	Actual qty As per survey of ledli line	Final Execute qty 1+2	Total (FOOT SURVEY) Amount
A	TOWERS											
1	Fabrication and supply of tower part with stubs, bolts & nuts, step bolts, U bolts, hangers, D- shackle etc. of following type of 66 kv D/C KRR Design Towers.											
1.1	66 KV "DA" type Tower	No.	12	24745.33	296943.96	2 ✓	14	346434.62	1	12	13	321689.29
	i) +3m extn only	No.	4	4339.28	17357.12	0	4	17357.12	1	4	5	21696.4
	ii) +6m extn only	No.	1	7700.82	7700.82	2	3	23102.46	0	1	1	7700.82
2	66 KV "DB" type Tower	No.	1	36155.95	36155.95	0	1	36155.95	0	1	1	36155.95
	i) +3m extn only	No.	0	9756.1	0	0	0	0	0	0	0	0
	ii) +6m extn only	No.	0	16508.15	0	0	0	0	0	0	0	0
3	66 KV "DC" type Tower	No.	1	38134.26	38134.26	0	1	38134.26	0	1	1	38134.26
	i) +3m extn only	No.	1	9386.02	9386.02	0	1	9386.02	0	1	1	9386.02
	ii) +6m extn only	No.	0	17645.58	0	0	0	0	0	0	0	0
4	66 KV "DD" type Tower	No.	3	51114.58	153343.74	0	3	153343.74	2	3	5	255572.9
	i) +3m extn only	No.	0	11602.77	0	0	0	0	2	2	2	23205.54
	ii) +6m extn only	No.	2	20055.82	40111.64	0	2	40111.64	0	2	2	40111.64
	iii) +6m extn only	No.	0	33452.51	0	0	0	0	0	0	0	0
5	Gantry	No.	4	12216.81	48867.24	2	6	73300.86	2	4	6	73300.86
6	4 pole structure on 11 mtr long PCC poles*											
7	Supply of earthing of towers											
	i) Pipe type	Set	17	679.09	11544.53	2	19	12902.71	5	17	22	14939.98
	ii) Counterpoise type	Set	0	0	0	0	0	0	0	0	0	0
3	Supply of following Tower accessories											
	i) Danger Plate	No.	25	81.5	2037.5	6	31	2526.5	7	25	32	2608
	ii) Number Plate	No.	25	81.5	2037.5	6	31	2526.5	7	25	32	2608
	iii) Phase Plate (set of 3)	Set	13	81.5	1059.5	3	16	1304	5	32	37	3015.5
	iv) Circuit Plate (set of 2)	Set	25	81.5	2037.5	6	31	2526.5	5	32	37	3015.5
	v) Bird Guard (set of 3)	Set	24	203.73	4889.52	6	30	6111.9	3	17	20	4074.6
	vi) Anti climbing device	Set	17	1086.57	18471.69	6	23	24991.11	3	17	20	21731.4
B	Line Material											
4	Conductor (Wolf ACSR 150mm)	KM	20.69	14535.3	300735.357	1.2	21.89	318177.717	2.06	20.69	22.75	330678.075
5	Earthwire (7/3.15mm)	KM	3.46	3322.36	11495.3656	0.4	3.86	12824.3096	0.673	3.46	4.133	13731.31388
6	Antifog type disc insulators											
	i) 70 KN Suspension type	Set	216	276.86	59801.76	25	241	66723.26	15	340	355	98285.3
	ii) 90 KN tension Type	Set	468	415.29	194355.72	55	523	217196.67	144	432	576	239207.04
7	66 kv Post insulators	No.	0	276.86	0	0	0	0	0	0	0	0
8	Hardware Fittings											

*[Handwritten signature]*

	Single-1" Suspension String suitable for Wolf ACSR 150mmsq	Set	72	83.06	5980.12	10	82	6810.92	3	78	81	6727.86
ii.	Single suspension pilot string suitable for Wolf ACSR 150mmsq	Set	9	165.16	1486.44	2	11	1816.76	0	9	9	1486.44
iii.	Single tension string suitable for Wolf ACSR 150mmsq	Set	156	179.96	28071.76	19	175	31493	24	84	108	19435.68
iv.	Double tension string	Set	0	703.53	0	0	0	0	0	0	0	0
9	Conductor & Earth wire Accessories	No.	14	104.31	1460.34	2	16	1668.96	2	14	16	1668.96
	i) Mid span Compression Joint for conductor	No.	4	11.83	47.32	1	5	59.15	2	4	6	70.98
	ii) Repair sleeves for conductor	No.	5	27.68	138.4	2	7	193.76	0	5	5	138.4
	iii) Flexible copper Bond	No.	12	47.81	573.72	2	14	669.34	3	17	20	956.2
	iv) Vibration damper for Wolf ACSR	No.	456	96.44	43976.64	50	506	48798.64	30	270	300	28932
	v) Vibration damper for earthwire	No.	50	56.76	2838	4	54	3065.04	10	54	64	3632.64
	vi) Earth-wire Tension clamp	No.	26	73.89	1921.14	3	29	2142.81	4	17	21	1551.69
	vii) Earth-wire Suspension Clamp	No.	12	76.2	914.4	3	15	1143	1	12	13	990.6
	Extra Item											
1	33 kV pin insulators with pins(Polymeric)	No.						0				
2	Toe wall							0	12	24	36	
3	U bolt							0				
4	Structure steel for existing tower							0				
5	PG clamp for 100/150 mm2 ACSR Conductor	No.						0				
6	33 kV cross Arm (4-Pole)100 x 50 x 6 mm (3050 mm)(Galvanised )weight 29.158 kg	No.						0	36		36	
7	Channel 75 x 40 x6 mm - 3350 mm (Galvanised ) for earth wire for 4 - poles weight 23.919 kg	No.						0	8		8	
8	Beltting for 4- Pole 50 x50 x6 mm (2040 mm)(Galvanised )weight 9.18 kg	No.						0	4		4	
9	Half clamp weight 1.47kg(Galvanised)	No.						0	16		16	
10	Full clamp weight 2.325 kg (Galvanised)	No.						0	40		40	
11	Stay Set 8'long complete with X plate 460 mm of angle 65 x 65 x 6 Elbow & Rod weight 13.80 kg consist of following (a) Rod 22 mm dia 8' long weight 6.224 kg (b) X plate 460 mm of L 65 x65x 6 mm weight 5.336 kg (c) Elbow & Nut weight - 2.240 kg stay Wire 7/8 SWG (4 mm)	No.						0	16		16	
12	G.I Strip 25 x 6 mm 9 Mtr . For Earthing weight 10.80 kg (SALT/TATA)	Kg						0	208		208	
13	G.I Nuts & Bolts - Off Sizes.	No.						0	8		8	
14	Dismantlement work to be included in erection part of BOQ	Kg						0	100		100	
10	i) Dismantlement of PCC Poles 11 mtr. Long (inclusive of complete fittings) and their transportation proper stacking at any dedicated store of UHBNV	No.	62	516.9	32047.8	0	62	32047.8	11	62	73	37733.7
	ii) Dismantlement of existing of 130 mm2 Leopard ACSR conductor complete with H/W fittings for above portion of line and their transportation proper stacking at any dedicated store of UHBNV.	km	10.278	2572.98	26445.09	0	10.278	26445.08844	2.06	10.278	12.338	31745.42724

*[Handwritten signature]*

	iii) Dismantlement of existing of earthwire complete with H/W fittings for above portion of line and their transportation proper stacking at any dedicated store of UHBYN.	3.426	1379.98	4727.81	0	3.426	4727.81148	0.673	3.46	4.133	5703.45734
	iv) Dismantling of existing of steel structure	MT					0				
	v) Dismantling of Disc and Pin Insulators	Nos					0				
C	Civil Works						0				
1	Detailed Survey	KM	3.426	19037.89	65223.81	0.4	3.826	72838.96714	0.686	4.146	78931.09194
2	Furnishing bore log data	No.	8	6345.96	50767.68	2	10	63459.6	3	8	69805.56
3	A) Construction of tower foundations as per HVPNL Drawings & specifications for 0 to 6M extension including excavation,						0			0	0
	i) 66 KV D/C tower type "DA" classified as						0			0	0
	- Dry	No.	0	75567.73	0.00	0	0	0	0	0	0
	- wet without de-watering	No.	12	79437.5	953250.00	2	14	1112125	1	12	1032687.5
	ii) 66 KV D/C tower type "DB" classified as						0			0	0
	- Dry	No.	0	106697.23	0.00	0	0	0	0	0	0
	- wet without de-watering	No.	1	122048.11	122048.11	0	1	122048.11	0	1	122048.11
	iii) 66 KV D/C tower type "DC" classified as						0			0	0
	- Dry	No.	0	132582.41	0.00	0	0	0	0	0	0
	- wet without de-watering	No.	1	168808.97	168808.97	0	1	168808.97	0	1	168808.97
	iv) 66 KV D/C tower type "DD" classified as						0			0	0
	- Dry	No.	0	176127.14	0.00	0	0	0	0	0	0
	- wet without de-watering	No.	3	213546.75	640640.25	0	3	640640.25	2	3	1067733.75
4	Construction of 66 kv D/C gantry foundations as per HVPNL drgs & Specs including excavation, concreting, supply & placement of steel reinforcement & backfilling complete in all respect. i) KRR design gantry	set	0	309184.22	0.00	0	0	0	0	0	0
5	Dewatering of subsoil water for lowering of water table to enable excavation of earth, concreting for foundations/ stub and backfilling by boring of tube wells or deploying well point system so that continuous lowering of water table is made till completion of work, without disturbing the soil characteristics. the rate shall include all type of expenditure for required dewatering arrangements and respective of type of tower i/c extensions if any i.e. KRR design or TATA design.	No.	17	63459.63	1078813.71	2	19	1205732.97	3	17	1269192.6
6	Protection measure										

Unit supply Total cost for

*[Handwritten signature]*

i)	Brick masonry in 1:4 cement sand mortar including excavation	cum	2	4149.51	8299.02	2	4	16598.04	45	2	47	195026.9	
ii)	Earth filling, compaction, leveling etc inside revetments.	cum	2	81.22	162.44	2	4	324.88	70	2	72	5847.84	
iii)	M-20 (1:1.5:3 mix) concrete for top seal cover for revetment etc.	cum	1	5943.26	5943.26	1	2	11886.52	10	1	11	65375.86	
iv)	Lean concrete (1:4:8)	cum	1	3225.02	3225.02	1	2	6450.04	10	1	11	35475.22	
v)	RCC 1:1.5:3 ( M-20) including all material, labour, excavation, cutting and placing of steel, centering & shuttering, concreting etc. complete in all respect.	cum	5	12691.93	63459.65	5	10	126919.3	0	5	5	63459.65	
vi)	Plaster	Sq mtr							80		80	0	
<b>Total</b>													<b>5,876,015.55</b>



M/S FLAIR ELECTRIC PROJECT PVT. LTD.

*h*  
CONST. Y NAGAR

*any*  
XEN  
CONST. DISTT. KNIL.

*S*  
SPO  
CONST. Y NAGAR

*h*  
JE OP.  
BILASPUR

*S*  
XEN OP.  
JAGADHRI

*S*  
SPO OP.  
BILASPUR

*S*  
SE OP.  
Y. NAGER