

Rates for various Line materials and Labour charges used in Cost Data Sheets for General Works

SL No	Particulars	Unit	Material Rates in Rs	Labour Charges Complete (Including Erection, Excavation & Fixing) in Rs
I	RCC Poles			
a)	RCC Pole - 9.5 Mtr Long, 300 Kg WL for 33kV Lines	Nos.	7627	1510
b)	RCC Pole - 9 Mtr Long, 145 Kg WL	Nos.	6258	1166
c)	RCC Pole - 9 Mtr Long, 150 Kg WL Sq Section	Nos.	7165	1166
d)	RCC Pole - 8 Mtr Long, 115 Kg WL	Nos.	4706	932
II	PSCC Poles			
a)	11Mtrs Long PSCC pole of working Load 365 Kg for intermediate poles only	Nos.	7874	1707
b)	PSCC Pole - 9 Mtr Long, 200 Kg WL	Nos.	3689	1166
c)	9 Mtr PSCC Pole with working load of 300Kg	Nos.	4686	1166
d)	PSCC Pole - 8 Mtr Long, 140 Kg WL	Nos.	2496	932
e)	PSCC Pole - 8 Mtr Long, 200 Kg WL	Nos.	3054	932
III	Pre - Stressed Tubular Spun Pole			
a)	Pre - Stressed Tubular Spun Pole 11 Mtr Long - 500Kg WL	Nos.	16850	2901
IV	Double Pole Structure complete including 5 KG, 8 SWG GI Wire for Structure Grounding			
a)	9M RCC Poles	Set	17450	3578
b)	8M RCC Poles	Set	14346	3414
c)	9M PSCC Poles with 300Kg WL	Set	14306	3578
V	Three Pole structure complete including 5 KG, 8 SWG GI Wire for Structure Grounding			
a)	9M RCC Poles	Set	28726	6899
b)	8M RCC Poles	Set	24070	6653
c)	9M PSCC Poles with 300Kg WL	Set	24010	6899
VI	Double Pole Transformer Structure complete with cross arms braces, clamps, bolt & nuts and washers including 2 Nos of poles			
a)	For 25/63/100kVA 4/5 Star Rated Transformer on 9 Mtr Long PSCC 300Kg WL Pole - MS	Set	23420	4527
b)	For 25/63/100kVA 4/5 Star Rated Transformer on 9 Mtr Long PSCC 300Kg WL Pole - GI	Set	28577	4527
c)	For 25/63/100kVA 4/5 Star Rated Transformers using 9 mtr RCC Pole 145Kg WL - MS	Set	26439	4527
d)	For 25/63/100kVA 4/5 Star Rated Transformers using 9 mtr RCC Pole 145Kg WL - GI	Set	31550	4527
e)	For 100/300kVA 4/5 Star Rated Transformer on PSCC 9Mtr Long 300Kg WL - MS	Set	27314	4662

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f)	For 100/300kVA 4/5 Star Rated Transformer on PSCC 9Mtr Long 300Kg WL - GI	Set	33912	4662
g)	For 100/300kVA 4/5 Star Rated Transformers using 9 mtr RCC Pole 145Kg WL - MS	Set	30213	4662
h)	For 100/300kVA 4/5 Star Rated Transformers using 9 mtr RCC Pole 145Kg WL - GI	Set	36721	4662
VII	Fixing Single Pole Mounted Transformer kit on 9mtrs Square section/ RCC/PSCC Poles (Excluding erection of poles)			
a)	Single Pole Mounted Transformer kit for 25/63 kVA 4/5 Star Rated Transformer on 9 mtr RCC Poles (Square Section) Without H Frame - MS	Set	4604	1118
b)	Single Pole Mounted Transformer kit for 25/63 kVA 4/5 Star Rated Transformer on 9 mtr RCC Poles (Square Section) Without H Frame - GI	Set	6349	1118
c)	Single Pole Mounted Transformer kit for 25/63 kVA 4/5 Star Rated Transformer on 9 mtr RCC Poles (Square Section) With H Frame - MS	Set	9180	1118
d)	Single Pole Mounted Transformer kit for 25/63 kVA 4/5 Star Rated Transformer on 9 mtr RCC Poles (Square Section) With H Frame - GI	Set	12633	1118
e)	Single Pole Mounted Transformer Structural materials for mounting 25kVA 4/5 Star Rated Transformer using 9 mtr PSCC Pole 300Kg WL Without H Frame - MS	Set	5584	1733
f)	Single Pole Mounted Transformer Structural materials for mounting 25kVA 4/5 Star Rated Transformer using 9 mtr PSCC Pole 300Kg WL Without H Frame - GI	Set	7690	1733
g)	Single Pole Mounted Transformer Structural materials for mounting 25kVA 4/5 Star Rated Transformer using 9 mtr PSCC Pole 300Kg WL With H Frame - MS	Set	9576	1733
h)	Single Pole Mounted Transformer Structural materials for mounting 25kVA 4/5 Star Rated Transformer using 9 mtr PSCC Pole 300Kg WL With H Frame - GI	Set	13176	1733
VIII	Fixing Single Pole Mounted Transformer kit on 11 mtrs Spun Pole (Excluding erection of poles)			

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a)	Single H Frame with Transformer Seating and Seating angle support X arm for 11 mtr Spun Pole for 25kVA (OH Line) - MS	Set	19691	2236
b)	Single H Frame with Transformer Seating and Seating angle support X arm for 11 mtr Spun Pole for 25kVA (OH Line) - GI	Set	27065	2236
c)	Three H Frame with Transformer Seating and Seating angle support X arm for 11 mtr Spun Pole for 250kVA (UG Cable) - MS	Set	26734	2236
d)	Three H Frame with Transformer Seating and Seating angle support X arm for 11 mtr Spun Pole for 250kVA (UG Cable) - GI	Set	36728	2236
e)	Single H Frame without Transformer Seating and Seating angle support X arm for 11 mtr Spun Pole for 63/100/250/500kVA (OH Line) - MS	Set	10171	2236
f)	Single H Frame without Transformer Seating and Seating angle support X arm for 11 mtr Spun Pole for 63/100/250/500kVA (OH Line) - GI	Set	13992	2236
g)	Three H Frame without Transformer Seating and Seating angle support X arm for 11 mtr Spun Pole for 63/100/250/500kVA (UG Cable) - MS	Set	16352	2236
h)	Three H Frame without Transformer Seating and Seating angle support X arm for 11 mtr Spun Pole for 63/100/250/500kVA (UG Cable) - GI	Set	22463	2236
IX	11 kV Horizontal cross arm with HT Single Top support, clamp,bolts, nuts and washers - MS			
a)	For RCC Poles	Set	444	106
b)	For PSCC Poles 140 KG WL	Set	435	106
c)	For PSCC Poles 200 KG WL	Set	438	106
d)	For PSCC Poles 300 KG WL	Set	447	106
IX	11 kV Horizontal cross arm with HT Single Top support, clamp,bolts, nuts and washers -GI			
a)	For RCC Poles	Set	586	106
b)	For PSCC Poles 140 KG WL	Set	573	106
c)	For PSCC Poles 200 KG WL	Set	579	106
d)	For PSCC Poles 300 KG WL	Set	589	106
X	11 kV Horizontal cross arm, clamp,bolts, nuts and washers for DC Lines - MS			
a)	For RCC Poles	Set	332	89
b)	For PSCC Poles 140 KG WL	Set	323	89
c)	For PSCC Poles 200 KG WL	Set	326	89
d)	For PSCC Poles 300 KG WL	Set	335	89
XI	11 kV Horizontal cross arm, clamp, bolts, nuts and washers for DC Lines - GI			
a)	For RCC Poles	Set	441	89

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b)	For PSCC Poles 140 KG WL	Set	428	89
c)	For PSCC Poles 200 KG WL	Set	434	89
d)	For PSCC Poles 300 KG WL	Set	444	89
XII	4 - Pin cross arm with pole clamp, bolts, nuts and washers with braces - MS			
a)	For RCC Poles	Set	272	106
b)	For PSCC Poles 140 KG WL	Set	263	106
c)	For PSCC Poles 200 KG WL	Set	266	106
d)	For PSCC Poles 300 KG WL	Set	275	106
XIII	4 - Pin cross arm with pole clamp, bolts, nuts and washers with braces - GI			
a)	For RCC Poles	Set	360	106
b)	For PSCC Poles 140 KG WL	Set	347	106
c)	For PSCC Poles 200 KG WL	Set	353	106
d)	For PSCC Poles 300 KG WL	Set	363	106
XIV	2 - Pin cross arm with pole clamp, bolts, nuts and washers with braces - MS			
a)	For RCC Poles	Set	168	106
b)	For PSCC Poles 140 KG WL	Set	159	106
c)	For PSCC Poles 200 KG WL	Set	162	106
d)	For PSCC Poles 300 KG WL	Set	171	106
XV	2 - Pin cross arm with pole clamp , bolts, nuts and washers with braces - GI			
a)	For RCC Poles	Set	223	106
b)	For PSCC Poles 140 KG WL	Set	210	106
c)	For PSCC Poles 200 KG WL	Set	216	106
d)	For PSCC Poles 300 KG WL	Set	226	106
XVI	LT Cross arm for vertical configuration with clamps, bolts, nuts and washers (MS)	Set	645	316
XVII	HT Single Top support with bolt, nuts and washers (MS)	Set	112	70
XVIII	LT Single Top support with bolt, nuts and washers (MS)	Set	95	70
XIX	Insulators			
a)	11kV Ceramic Pin insulator with GI pin	No	105	Included in stringing
b)	No.15 Strain Insulator	No	35	
c)	No.8 Strain Insulator	No	16	
d)	1.1 KV Ceramic Pin Insulator With GI pin	No	48	
e)	11 KV, 5KN composite/Polymeric Pin Insulator (24mm Dia FP Rod)	No	180	
f)	45 kN Disc Insulator	No	301	
g)	70 kN Disc Insulator (Ball & Socket type)	No	431	
h)	90 kN Disc Insulator (Ball & Socket type)	No	493	
i)	11KV, 45 KN Polymeric Insulator	No	164	
j)	1KV, 70 KN Polymeric insulator	No	264	
XX	ACSR conductor as per IS : 398 (Part - 2/1996) are the latest revision			
a)	Weasel ACSR (6/2.59 mm Al + 1/2.59 mm St), Std Wt : 128 kgs/km	Kms	21552	2104

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b)	Rabbit ACSR (6/3.35 mm Al + 1/3.35 mm St), Std Wt : 214 kgs/km	Kms	36497	2869
c)	Coyote ACSR (26/2.54 mm Al + 7/1.90 mm St), Std Wt : 521 kgs/km	Kms	100111	5011
d)	Lynx ACSR (30/2.79 mm Al + 7/2.79 mm St), Std Wt : 842 kgs/km	Kms	148499	-
XXI	Guy Wire & GI Wire			
a)	7/10 SWG Guy Wire (7/3.251mm Dia), Std Wt : 128 kgs/km	MT	65137	
b)	8 SWG GI Wire (4.064 mm Dia), Std Wt: 125kgs/km	MT	63293	
c)	10 SWG GI Wire (3.251mm Dia), Std Wt : 128 kgs/km	MT	66777	
d)	GI Barbed Wire 12 SWG	MT	78584	
XXII	Guarding			
a)	Providing guarding for HT & LT line at Road crossings, Telephone line crossings etc up to span of 60 Mtrs. (Including labour for fixing of necessary cross arms)	Per Span	Rs. 80 per mtr	663
b)	Providing guarding between HT & LT line up to a Span of 40 Mtrs. (Including labour for fixing of necessary cross arms)	Per Span	Rs. 80 per mtr	663
c)	Providing guarding between HT & LT line above 40 Mtrs span. (Including labour for fixing of necessary cross arms)	Per Span	Rs. 80 per mtr	1165
XXIII	Guy Set			
a)	Guy set with No.15 strain insulator & Concreting materials as per Drwg No. BESCO/GM/CP/7/Dt; 24.10.07	Set	830	390
b)	Guy set with 2 Nos. 15 strain insulator & Concreting materials as per Drwg No. BESCO/GM/CP/7/Dt; 24.10.07	Set	865	412
c)	Guy set with No. 8 strain insulator & Concreting materials as per Drwg No. BESCO/GM/CP/7/Dt; 24.10.07	Set	811	390
d)	Guy concreting with Boulders, Mud & Sand as per Drawing No BESCO/GM/CP/7 Dt : 24.10.2007 (with out Cement)	Each	Material + Labour	174
XXIV	EG Stirrup with GI Lacing	Set/2Nos.	191	109
XXV	Spiral Earth Electrode	Set	165	61
XXVI	Anti Climbing Device (12 Mtrs GI Barbed wire)	Nos.	76	28

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XXVII	Caution/Danger Board	Nos.	146	53
XXVIII	Distribution Transformers - 3 Phase, 11kV/433V - Stacked Core with Oil			
	A. OPEN BUSHING TYPE			
a)	25kVA, Aluminum Wdg, Star 1 (4 Star)	Nos.	64900	750
b)	25kVA, Aluminum Wdg, Star 2 (5 Star)	Nos.	74365	750
c)	63kVA, Aluminum Wdg, Star 1 (4 Star)	Nos.	120360	750
d)	63kVA, Aluminum Wdg, Star 2 (5 Star)	Nos.	128304	750
e)	100kVA, Aluminium Wdg, Star 1 (4 Star)	Nos.	148680	1001
f)	100kVA, Aluminium Wdg, Star 2 (5 Star)	Nos.	155931	1001
g)	250kVA, Aluminium Wdg, Star 1 (4 Star)	Nos.	336300	1502
h)	250kVA, Aluminium Wdg, Star 2 (5 Star)	Nos.	386745	1502
i)	500kVA, Aluminium Wdg, Star 1 (4 Star)	Nos.	566400	2001
j)	500kVA, Aluminium Wdg, Star 2 (5 Star)	Nos.	651360	2001
XXIX	LT Distribution Boxes for Transformers -			
a)	LT Distribution Box for 100 kVA DTC with MCCB's (Sheet Metal)	Nos.	17545	501
b)	LT Distribution Box for 250 kVA DTC with MCCB's (Sheet Metal)	Nos.	17644	501
c)	LT Distribution Box for 250 kVA DTC with MCCB's (SMC)	Nos.	17644	501
XXX	11 kV, GOS			
a)	200 Amps, Single Break	Set	7799	700
b)	400 Amps, Double Break	Set	17545	777
XXXI	11 kV Solid Core HG Fuse Unit	Set (3 Nos)	882	155
XXXII	11kV Class DOLO Cutouts	Set (3 Nos)	4848	155
XXXIII	Lightning Arresters			
a)	9kV, 5kA Metal Oxide Ceramic Type with ground disconnector	Set (3 Nos)	786	78
b)	9 kV, 5kA Polymeric Type with Ground disconnector	Set (3 Nos)	1335	78
XXXIV	Transformer grounding			
a)	GI Grounding pipe, B - Class, 42mm dia, 2.5mtrs long, 3.2mm thick with bolts nuts, GI Strips and washers complete Minimum Weight of GI Pipe: 7.3 Kgs	Per Electrode	1501	631
b)	Rod Type	Set	1832	-
XXXV	Concreting with Material & Labour			
	A Base concreting CC 1:4:8			
a)	Pole base 11/9.5/9/8 Mtrs Pole supports	500x650x150 mm		237
b)	Pole base 9 Mtrs square pole	650x650x150 mm		308
c)	Pole base 11 Mtrs spun pole	1000x1000x150 mm		730
	B Pole concreting CC 1:2:4 (without coping)			
a)	9.5 Mtrs Supports (Pole Concreting)	650x500x1850 mm		2988
b)	9 Mtrs Supports (Pole Concreting)	650x500x1700 mm		2746
c)	9 Mtrs Square Supports (Pole Concreting)	650x650x1700 mm		3440
d)	11 Mtrs Tubular Supports (Pole Concreting)	1000x1000x2500		12177
e)	11 Mtrs PSCC	650x500x2000 mm		2912

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f)	7.5/8 Mtr Supports	400x400x1500 mm		1051
g)	Guy concreting with Boulders, Mud & Sand	As per Drawing No. BESCO/GM/CP/7 /dt: 24.10.07		174
C Providing Coping for Poles with CC 1:2:4 (As per actuals)				
a)	150mm around poles for a height of 300 mm for RCC, PSCC Poles	each		471
b)	390 mm all around the pole for an height of 300 mm for Spun Poles	each		1930
D Guy concreting in Marshy area:				
a)	Providing cement concrete 1:2:4 for Anchor Rod in Marshy/Black Cotton Soil 600x600x450 mm	each		881
XXXVI	11 kV, 3 Core XLPE UG Cable (Round armoured)			
a)	95 Sqmm, (54 GI Wires - 2.5mm Dia)	km	782621	39377
b)	120 Sqmm, (57 GI Wires - 2.5mm Dia)	km	999586	39377
c)	150 Sqmm, (59 GI Wires - 2.5mm Dia)	km	1149524	39377
d)	185 Sqmm, (51 GI Wires - 3.15mm Dia)	km	1201800	41565
e)	240 Sqmm, (55 GI Wires - 3.15mm Dia)	km	1471370	41565
f)	300 Sqmm, (58 GI Wires - 3.15mm Dia)	km	1692076	43751
g)	400 Sqmm, (51 GI Wires - 4mm Dia)	km	2245566	43751
XXXVII	Providing Electronic Trivector Meters with associated CT's Metering Box etc., on LT side of Distribution Transformer Center (including cost of Energy Meter)			
a)	for 15/25 kVA DTC with CT ratio 50/5A	Set	7812	1260
b)	for 50/63 kVA DTC with CT ratio 100/5A	Set	7392	1260
c)	for 100 kVA DTC with CT ratio 150/5A	Set	7089	1260
d)	for 250 kVA DTC with CT ratio 400/5 A	Set	7251	1260
e)	for 500 kVA DTC with CT ratio 800/5A	Set	7383	1260