

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

SL No	Particulars	Unit	Material Rate in Rs	Labour Charge Complete (Including Erection, Excavation & Fixing) in Rs
<b>I</b>	<b>RCC Pole</b>			
a)	RCC Pole - 9.5 Mtr Long, 300 Kg WL for 33 kV Lines	No	7627	1736
b)	RCC Pole - 9 Mtr Long, 145 Kg WL	No	7153	1341
c)	RCC Pole - 9 Mtr Long, 150 Kg WL Sq Section	No	8226	1341
d)	RCC Pole - 8 Mtr Long, 115 Kg WL	No	5306	1072
<b>II</b>	<b>PSCC Pole</b>			
a)	PSCC Pole - 11 Mtr Long, 365 Kg WL for intermediate poles only	No	7874	1964
b)	PSCC Pole - 9 Mtr Long, 200 Kg WL	No	4276	1341
c)	PSCC Pole - 9 Mtr Long, 300 Kg WL	No	5050	1341
d)	PSCC Pole - 8 Mtr Long, 140 Kg WL	No	2496	1072
e)	PSCC Pole - 8 Mtr Long, 200 Kg WL	No	3578	1072
<b>III</b>	<b>Pre - Stressed Tubular Spun Pole</b>			
a)	Pre - Stressed Tubular Spun Pole 11 Mtr Long - 500 Kg WL	No	16850	3337
<b>IV</b>	<b>Double Pole Structure complete including 5 Kg, 8 SWG GI Wire for Structure Grounding</b>			
a)	9M RCC Pole	Set	21369	4114
b)	8M RCC Pole	Set	17675	3926
c)	9M PSCC Pole with 300 Kg WL	Set	17163	4114
<b>V</b>	<b>3 Pole structure complete including 5 Kg, 8 SWG GI Wire for Structure Grounding</b>			
a)	9M RCC Pole	Set	36273	7933
b)	9M PSCC Pole with 300 Kg WL	Set	29964	7933
<b>VI</b>	<b>Double Pole Transformer Structure complete with cross arms, braces, clamps, bolts &amp; nuts and washers including 2 No of Poles</b>			
a)	For 25/63/100 kVA 4/5 Star Rated Transformer on PSCC Pole - 9 Mtr Long, 300 Kg WL - MS	Set	28518	5205
b)	For 25/63/100 kVA 4/5 Star Rated Transformer on PSCC Pole - 9 Mtr Long, 300 Kg WL - GI	Set	35286	5205
c)	For 25/63/100 kVA 4/5 Star Rated Transformer on RCC Pole - 9 Mtr Long, 145 Kg WL - MS	Set	32553	5205
d)	For 25/63/100 kVA 4/5 Star Rated Transformer on RCC Pole - 9 Mtr Long, 145 Kg WL - GI	Set	39271	5205
e)	For 100/300 kVA 4/5 Star Rated Transformer on PSCC Pole - 9 Mtr Long, 300 Kg WL - MS	Set	33723	5361
f)	For 100/300 kVA 4/5 Star Rated Transformer on PSCC Pole - 9 Mtr Long, 300 Kg WL - GI	Set	42379	5361
g)	For 100/300 kVA 4/5 Star Rated Transformer on RCC Pole - 9 Mtr Long, 145 Kg WL - MS	Set	37594	5361
h)	For 100/300 kVA 4/5 Star Rated Transformer on RCC Pole - 9 Mtr Long, 145 Kg WL - GI	Set	46150	5361
<b>VII</b>	<b>Single Pole Mounted Transformer (SPMT) Kit for erection on 9 Mtr Square section RCC/PSCC 9 Mtr Long Pole (Excluding Pole and erection of poles )</b>			
a)	For 25/63 kVA 4/5 Star Rated Transformer on RCC Pole - 9 Mtr Long, 150 Kg WL Sq Section Without H Frame - MS	Set	7206	1286
b)	For 25/63 kVA 4/5 Star Rated Transformer on RCC Pole - 9 Mtr Long, 150 Kg WL Sq Section Without H Frame - GI	Set	10027	1286
c)	For 25/63 kVA 4/5 Star Rated Transformer on RCC Pole - 9 Mtr Long, 150 Kg WL Sq Section With H Frame - MS	Set	12283	1286
d)	For 25/63 kVA 4/5 Star Rated Transformer on RCC Pole - 9 Mtr Long, 150 Kg WL Sq Section With H Frame - GI	Set	16902	1286
e)	For 25 kVA 4/5 Star Rated Transformer on PSCC Pole - 9 Mtr Long, 300 Kg WL Without H Frame - MS	Set	7446	1993
f)	For 25 kVA 4/5 Star Rated Transformer on PSCC Pole - 9 Mtr Long, 300 Kg WL Without H Frame - GI	Set	10338	1993
g)	For 25kVA 4/5 Star Rated Transformer on PSCC Pole - 9 Mtr Long, 300 Kg WL With H Frame - MS	Set	12722	1993
h)	For 25kVA 4/5 Star Rated Transformer on PSCC Pole - 9 Mtr Long, 300 Kg WL With H Frame - GI	Set	17471	1993
<b>VIII</b>	<b>Fixing Single Pole Mounted Transformer (SPMT) Kit on 11 Mtr Spun Pole (Excluding Pole and erection of poles)</b>			

SL No	Particulars	Unit	Material Rate in Rs	Labour Charge Complete (Including Erection, Excavation & Fixing) in Rs
a)	Single H Frame with Transformer Seating and Seating angle support cross arm for 11 Mtr Spun Pole for 25 kVA (OH Line) - MS	Set	26528	2571
b)	Single H Frame with Transformer Seating and Seating angle support cross arm for 11 Mtr Spun Pole for 25 kVA (OH Line) - GI	Set	35861	2571
c)	Three H Frame with Transformer Seating and Seating angle support cross arm for 11 Mtr Spun Pole for 25 kVA (UG Cable) - MS	Set	36110	2571
d)	Three H Frame with Transformer Seating and Seating angle support cross arm for 11 Mtr Spun Pole for 25 kVA (UG Cable) - GI	Set	48481	2571
e)	Single H Frame without Transformer Seating and Seating angle support cross arm for 11 Mtr Spun Pole for 63/100/250/500 kVA (OH Line) - MS	Set	13640	2571
f)	Single H Frame without Transformer Seating and Seating angle support cross arm for 11 Mtr Spun Pole for 63/100/250/500kVA (OH Line) - GI	Set	18661	2571
g)	Three H Frame without Transformer Seating and Seating angle support cross arm for 11 Mtr Spun Pole for 63/100/250/500 kVA (UG Cable) - MS	Set	22098	2571
h)	Three H Frame without Transformer Seating and Seating angle support cross arm for 11 Mtr Spun Pole for 63/100/250/500 kVA (UG Cable) - GI	Set	29630	2571
<b>IX</b>	<b>11 kV, Horizontal Cross Arm with HT Single Top supports, clamps, bolts, nuts &amp; washers - MS</b>			
a)	For RCC Pole	Set	668	122
b)	For PSCC Pole 140 KG WL	Set	655	122
c)	For PSCC Pole 200 KG WL	Set	664	122
d)	For PSCC Pole 300 KG WL	Set	671	122
<b>IX</b>	<b>11 kV, Horizontal Cross Arm with HT Single Top supports, clamps, bolts, nuts &amp; washers - GI</b>			
a)	For RCC Pole	Set	870	122
b)	For PSCC Pole 140 KG WL	Set	854	122
c)	For PSCC Pole 200 KG WL	Set	865	122
d)	For PSCC Pole 300 KG WL	Set	875	122
<b>X</b>	<b>11 kV, Horizontal Cross Arm with clamps, bolts, nuts &amp; washers for DC Line - MS</b>			
a)	For RCC Pole	Set	526	102
b)	For PSCC Pole 140 KG WL	Set	513	102
c)	For PSCC Pole 200 KG WL	Set	522	102
d)	For PSCC Pole 300 KG WL	Set	529	102
<b>XI</b>	<b>11 kV, Horizontal Cross Arm with clamps, bolts, nuts &amp; washers for DC Line - GI</b>			
a)	For RCC Pole	Set	683	102
b)	For PSCC Pole 140 KG WL	Set	667	102
c)	For PSCC Pole 200 KG WL	Set	678	102
d)	For PSCC Pole 300 KG WL	Set	688	102
<b>XII</b>	<b>LT 4 Pin Cross Arm with clamps, bolts, nuts &amp; washers with brace - MS</b>			
a)	For RCC Pole	Set	439	122
b)	For PSCC Pole 140 KG WL	Set	426	122
c)	For PSCC Pole 200 KG WL	Set	435	122
d)	For PSCC Pole 300 KG WL	Set	442	122
<b>XIII</b>	<b>LT 4 Pin Cross Arm with clamps, bolts, nuts &amp; washers with brace - GI</b>			
a)	For RCC Pole	Set	571	122
b)	For PSCC Pole 140 KG WL	Set	555	122
c)	For PSCC Pole 200 KG WL	Set	566	122
d)	For PSCC Pole 300 KG WL	Set	576	122
<b>XIV</b>	<b>LT 2 Pin Cross Arm with clamps, bolts, nuts &amp; washers with braces - MS</b>			
a)	For RCC Pole	Set	274	122
b)	For PSCC Pole 140 KG WL	Set	261	122
c)	For PSCC Pole 200 KG WL	Set	270	122
d)	For PSCC Pole 300 KG WL	Set	277	122
<b>XV</b>	<b>LT 2 Pin Aross Arm with clamps, bolts, nuts &amp; washers with braces - GI</b>			
a)	For RCC Pole	Set	357	122
b)	For PSCC Pole 140 KG WL	Set	341	122
c)	For PSCC Pole 200 KG WL	Set	352	122
d)	For PSCC Pole 300 KG WL	Set	362	122
<b>XVI</b>	<b>LT Cross Arm for vertical configuration with clamps, bolts, nuts &amp; washers (MS)</b>		Set	968
				122

SL No	Particulars	Unit	Material Rate in Rs	Labour Charge Complete (Including Erection, Excavation & Fixing) in Rs
<b>XVII</b>	<b>HT Single Top Support with bolts, nuts &amp; washers (MS)</b>	Set	143	81
<b>XVIII</b>	<b>LT Single Top Support with bolts, nuts &amp; washers (MS)</b>	Set	113	81
<b>XIX</b>	<b>Insulator</b>			
a)	11 kV Ceramic Pin insulator with GI pin	No	145	Included in stringing
b)	No. 15 Strain Insulator	No	55	
c)	No. 8 Strain Insulator	No	25	
d)	1.1 kV Ceramic Pin Insulator With GI pin	No	65	
e)	11 kV, 5 KN Composite/Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	221	
f)	45 KN Disc Insulator Porcelain	No	470	
g)	11 kV, 45 KN Polymeric Insulator	No	202	
h)	11 kV, 70 KN Polymeric insulator	No	325	
<b>XX</b>	<b>ACSR conductor as per IS : 398 (Part - 2/1996) are the latest revision</b>			
a)	Weasel ACSR (6/2.59 mm Al + 1/2.59 mm St), Std Wt: 128 Kg/KM	KM	37018	2420
b)	Rabbit ACSR (6/3.35 mm Al + 1/3.35 mm St), Std Wt: 214 Kg/KM	KM	61515	3299
c)	Coyote ACSR (26/2.54 mm Al + 7/1.90 mm St), Std Wt: 521 Kg/KM	KM	152940	5763
<b>XXI</b>	<b>Guy Wire &amp; GI Wire</b>			
a)	7/10 SWG Guy Wire (7/3.251 mm Dia), Std Wt: 128 Kg/KM	MT	80119	-
b)	8 SWG GI Wire (4.064 mm Dia), Std Wt: 125 Kg/KM	MT	77850	-
c)	10 SWG GI Wire (3.251 mm Dia), Std Wt: 128 Kg/KM	MT	82136	-
d)	GI Barbed Wire 12 SWG	MT	96658	-
<b>XXII</b>	<b>Guarding</b>			
a)	Providing guarding for HT & LT line at Road crossings, Telephone line crossings etc up to span of 60 Mtr (Including labour for fixing of necessary cross arms)	Per Span	Rs. 98 per Mtr	762
b)	Providing guarding between HT & LT line up to a Span of 40 Mtr (Including labour for fixing of necessary cross arms)	Per Span	Rs. 98 per Mtr	762
c)	Providing guarding between HT & LT line above 40 Mtr span (Including labour for fixing of necessary cross arms)	Per Span	Rs. 98 per Mtr	1340
<b>XXIII</b>	<b>Guy Set</b>			
a)	Guy set with No. 15 Strain Insulator & Concreting materials as per Dwg No. BESCO/GM/CP/7 Dt: 24.10.07	Set	1209	448
b)	Guy set with 2 Nos. 15 Strain Insulator & Concreting materials as per Dwg No. BESCO/GM/CP/7 Dt: 24.10.07	Set	1264	448
c)	Guy set with No. 8 Strain Insulator & Concreting materials as per Dwg No. BESCO/GM/CP/7 Dt: 24.10.07	Set	1179	448
d)	Guy concreting with Boulders, Mud & Sand as per Dwg No. BESCO/GM/CP/7 Dt: 24.10.2007 (with out Cement )	Each	Material + Labour	200
<b>XXIV</b>	<b>EG Stirrup with GI Lacing</b>	Set (2 Nos)	287	125
<b>XXV</b>	<b>Spiral Earth Electrode</b>	Set	248	70
<b>XXVI</b>	<b>Anti Climbing Device (12 Mtr GI Barbed wire)</b>	No	93	32
<b>XXVII</b>	<b>Caution/Danger Board</b>	No	146	53
<b>XXVIII</b>	<b>Distribution Transformer - 3 Phase, 11kV/433V - Stacked CRGO Core with Oil</b>			
	<b>A. OPEN BUSHING TYPE</b>			
a)	25 kVA, Aluminum Wdg, Star 1 (4 Star)	No	87950	863
b)	25 kVA, Aluminum Wdg, Star 2 (5 Star)	No	102343	863
c)	63 kVA, Aluminum Wdg, Star 1 (4 Star)	No	160000	863
d)	63 kVA, Aluminum Wdg, Star 2 (5 Star)	No	176257	863
e)	100 kVA, Aluminium Wdg, Star 1 (4 Star)	No	204320	1151
f)	100 kVA, Aluminium Wdg, Star 2 (5 Star)	No	214306	1151
g)	250 kVA, Aluminium Wdg, Star 1 (4 Star)	No	426500	1727
h)	250 kVA, Aluminium Wdg, Star 2 (5 Star)	No	520500	1727
i)	500 kVA, Aluminium Wdg, Star 1 (4 Star)	No	727500	2301
j)	500 kVA, Aluminium Wdg, Star 2 (5 Star)	No	878800	2301
<b>XXIX</b>	<b>LT Distribution Box for Transformer</b>			

SL No	Particulars	Unit	Material Rate in Rs	Labour Charge Complete (Including Erection, Excavation & Fixing) in Rs
a)	LT Distribution Box for 100 kVA DTC with MCCB's (Sheet Metal)	No	22809	576
b)	LT Distribution Box for 250 kVA DTC with MCCB's (Sheet Metal)	No	22937	576
<b>XXX</b>	<b>11 kV, GOS</b>			
a)	200 Amps, Single Break	Set	9125	805
b)	400 Amps, Double Break	Set	20528	894
<b>XXXI</b>	<b>11 kV, Solid Core HG Fuse Unit</b>	Set (3 Nos)	1032	178
<b>XXXII</b>	<b>11 kV, DOLO Cutout</b>	Set (3 Nos)	5672	178
<b>XXXIII</b>	<b>Lightning Arrester</b>			
a)	9 kV, 5 kA Metal Oxide Ceramic Type with ground disconnector	Set (3 Nos)	975	90
b)	9 kV, 5 kA Polymeric Type with Ground disconnector	Set (3 Nos)	1736	90
<b>XXXIV</b>	<b>Transformer grounding</b>			
a)	GI Grounding pipe, B - Class, 42 mm dia, 2.5 Mtr long, 3.2 mm thick with bolts nuts, GI Strips and washers complete Minimum Weight of GI Pipe: 7.3 Kgs	Per Electrode	1733	725
b)	Rod Type	Set	2253	725
<b>XXXV</b>	<b>Concreting with Material &amp; Labour</b>			
<b>A</b>	<b>Base concreting CC 1:4:8</b>			
a)	For 11/9.5/9/8 Mtr Pole (500x650x150 mm)	Each	-	273
b)	For 9 Mtr Square Pole (650x650x150 mm)	Each	-	354
c)	For 11 Mtr Spun Pole (1000x1000x150 mm)	Each	-	840
<b>B</b>	<b>Pole concreting CC 1:2:4 (without coping)</b>			
a)	For 9.5 Mtr Pole (650x500x1850 mm)	Each	-	3436
b)	For 9 Mtr Pole (650x500x1700 mm)	Each	-	3158
c)	For 9 Mtr Square Pole (650x650x1700 mm)	Each	-	3956
d)	For 11 Mtr Spun Pole (1000x1000x2500 mm)	Each	-	14004
e)	For 11 Mtr PSCC Pole (650x500x2000 mm)	Each	-	3349
f)	For 7.5/8 Mtr Pole (400x400x1500 mm)	Each	-	1209
g)	Guy concreting with Boulders, Mud & Sand As per Drawing No. BESCO/M/GM/CP/7 Dt: 24.10.07	Each	-	200
<b>C</b>	<b>Providing Coping for Poles with CC 1:2:4 (As per actuals)</b>			
a)	150 mm around pole for an height of 300 mm for RCC/PSCC Pole	Each	-	542
b)	390 mm all around the pole for an height of 300 mm for Spun Pole	Each	-	2220
<b>D</b>	<b>Guy concreting in Marshy area:</b>			
a)	Providing cement concrete 1:2:4 for Anchor Rod in Marshy/Black Cotton Soil 600x600x450 mm	Each	-	881
<b>XXXVI</b>	<b>11 kV, 3 Core XLPE HT UG Cable (Round Armoured)</b>			
a)	95 Sqmm, (54 GI Wires - 2.5 mm Dia)	KM	1115615	45284
b)	120 Sqmm, (57 GI Wires - 2.5 mm Dia)	KM	1380252	45284
c)	150 Sqmm, (59 GI Wires - 2.5 mm Dia)	KM	1586343	45284
d)	185 Sqmm, (51 GI Wires - 3.15 mm Dia)	KM	1658484	47800
e)	240 Sqmm, (55 GI Wires - 3.15 mm Dia)	KM	2069302	47800
f)	300 Sqmm, (58 GI Wires - 3.15 mm Dia)	KM	2335065	50314
g)	400 Sqmm, (51 GI Wires - 4 mm Dia)	KM	3096132	50314
<b>XXXVII</b>	<b>Providing Electronic Trivector Meter with associated CT's Metering Box etc., on LT side of Distribution Transformer Center (including cost of Energy Meter)</b>			
a)	For 15/25 kVA DTC with CT Ratio 50/5 Amps	Set	9589	1448
b)	For 50/63 kVA DTC with CT Ratio 100/5 Amps	Set	8890	1448
c)	For 100 kVA DTC with CT Ratio 150/5 Amps	Set	8407	1448
d)	For 250 kVA DTC with CT Ratio 400/5 Amps	Set	8665	1448
e)	For 500 kVA DTC with CT Ratio 800/5 Amps	Set	8845	1448