

Rates of various Line materials and Labour charges used in cost sheets for general works

SL.NO	Particulars	Unit	Materials rate in Rs.	Labour charges (Casual) in Rs
1	2	3	4	5
I	RCC Poles			
	a) 9.5 M 350kg WL	Nos.	7675	1373
	b) 9M 145kg WL	Nos.	5941	1060
	c) 9M 150kg WL Square section	Nos.	7210	1060
	d) 8M 115kg WL	Nos.	4351	848
II	PCC Poles			
	8M PCC Poles 140kg WL	Nos.	2495	848
III	PSC Poles			
	a) 11M 365kg WL	Nos.	7924	1552
	b) 9M 200kg WL	Nos.	3401	1060
	d) 8M 200kg WL	Nos.	2942	848
IV	Pre-Stressed Tubular Spun Pole			
	11M Long	Nos.	15800	2353
	PSCC Poles			
	9M PSCC pole WL 300Kg	Nos.	4578	1060
	9M PSCC pole 160Kg WL in Transverse direction and 136Kg WL in Longitudinal directional	Nos.	3558	1060
	Guy Less Pole	Nos.	New Item	
V	Double Pole Structure complete including 5 KG , 8SWG G.I. Wire for Structure Grounding			
	a) 9M RCC Poles	Set	15910	3252
	b) 8M RCC Poles	Set	12730	3104
	c) 9M PSCC Poles with 300Kg WL	Set	13184	3252
VII	Three Pole structure complete including 5 KG , 8SWG G.I. Wire for Structure Grounding			
	a) 9M RCC Poles	Set	27446	6271
	b) 8M RCC Poles	Set	22676	6049
	c) 9M PSCC Poles with 300Kg WL	Set	23357	6271
VII	Transformer Structure complete with cross arms braces, clamps, bolt&nuts and washers,			
1)	For 25/63 kVA			
	a) Using 2nos 9M RCC Poles	Set	19271	4115
	b) Using 2 nos 8M RCC Poles	Set	16091	3560
	c) 9M PSCC Poles with 300Kg WL	Set	16545	4115
	For 25/63 kVA- Star Rated Transformers			

1)	a) Using 2nos 9M RCC Poles	Set	22532	4115
	b) Using 2 nos 8M RCC Poles	Set	19352	3560
	c) 9M PSCC Poles with 300Kg WL	Set	19806	4115
2)	For 100 / 250 kVA			
	a) Using 2nos 9M RCC Poles	Set	24575	4238
	b) Using 2 nos 8M RCC Poles	Set	21395	3816
	c) 9M PSCC Poles with 300Kg WL	Set	21849	4238
	Note: The items V, VI, includes the cost of poles, structure materials & 5 kgs of G.I wire required for earthing of structure materials.			
3)	Fixing Single pole mounted transformer kit on 9 mtr RCC pole (square sec) / 9 Mtr PSCC pole 300KG WL (Excluding Errection of pole)			
	for 25/63kVA Transformer	Set	4088	1016
	for 100kVA Transformer	Set	6129	1016
4)	For Single pole mounted transformer kit for 100/250kVA on 11 mtr spun pole (Excluding Errection of pole)	Set	23035	2033
VIII	11 kV Horizontal cross arm with H.T.Single top support, clamp,bolts, nuts and washers MS			
	a) For RCC Poles	Set	382	99
	b) For PSC Poles	Set	377	99
	b) For PCC Poles	Set	374	99
	11 kV Horizontal cross arm with H.T.Single top support, clamp,bolts, nuts and washers GI			
	a) For RCC Poles	Set	505	99
	b) For PSC Poles	Set	498	99
	b) For PCC Poles	Set	493	99
IX	11 kV Horizontal cross arm, clamp,bolts, nuts and washers for DC Lines MS			
	a) For RCC Poles	each	316	81
	b) For PSC Poles	each	311	81
	b) For PCC Poles	each	308	81
	11 kV Horizontal cross arm, clamp,bolts, nuts and washers for DC Lines GI			
	a) For RCC Poles	each	422	81
	b) For PSC Poles	each	415	81
	b) For PCC Poles	each	411	81

X	4-Pin cross arm with pole clamp , bolts, nuts and washers with braces MS			
	a) RCC Poles	Set	263	96
	b) For PSC Poles	Set	258	96
	b) PCC Poles	Set	255	96
	4-Pin cross arm with pole clamp , bolts, nuts and washers with braces GI			
	a) RCC Poles	Set	352	96
	b) For PSC Poles	Set	345	96
	b) PCC Poles	Set	340	96
XI	2-Pin cross arm with pole clamp , bolts, nuts and washers with braces MS			
	a) RCC Poles	Set	162	96
	b) For PSC Poles	Set	157	96
	b) PCC Poles	Set	154	96
	2-Pin cross arm with pole clamp , bolts, nuts and washers with braces GI			
	a) RCC Poles	Set	219	96
	b) For PSC Poles	Set	212	96
	b) PCC Poles	Set	207	96
XII	LT Cross arm for vertical configuration with clamps,bolts,nuts and washers	Set	626	287
XIII	HT Single Top support with bolt,nuts and washers	Set	89	64
XIV	LT Single Top support with bolt,nuts and washers	Set	69	64
	Insulators			
	a) 11kV Ceramic Pin insulator with GI pin	No	94	Included in stringing
	b) No.15 Strain Insulator	No	33	
	c) No.8 Strain Insulator	No	14	
	d) 1.1 KV Ceramic Pin Insulator With GI pin	No	38	
	11 KV, 5KN composite / polymeric Pin Insulator (20mm dia FP rod)	No	165	
	11 KV, 5KN composite / polymeric Pin Insulator (24mm dia FP rod)	No	195	
	e) 45 kN Disc Insulator	No	290	
	f) 70 kN Disc Insulator(Ball&Socket type)	No	490	
	g) 90 kN Disc Insulator(Ball&Socket type)	No	490	
	h) 11 kV Solid core Insulator	No	152	

	i) Silcon rubber composite insulator / 11KV 45 KN Polymeric Insulator.	No	170	
	j)11KV 70 KN Polymeric insulator.	No	287	
	G I Wires & Guy Wires			
	7/10 SWG Guy Wire	MT	56267	
	8 SWG GI Wire	MT	54674	
	10 SWG GI Wire	MT	57683	
	GI Barbed Wire 12 SWG	MT	67882	
	Conductor			
XVI	a) Weasel ACSR	km	20100	1913
	b) Rabbit ACSR	km	33676	2608
	c) Coyote ACSR	km	92708	4555
XVII	Providing guarding at Road Crossings, Telephone Line Crossings . (Including labour for fixing of necessary cross arms)	mtr	68	603 (each upto a span of 60 mtrs)
	Providing guarding between HT & LT line. (Including labour fixing of necessary cross arms)	mtr	68	603 (each upto a span of 40 mtrs)
	Providing guarding between HT & LT line. (Including labour fixing of necessary cross arms)	mtr	68	1059 (span of above 40 mtrs)
XVIII	a) Guy set with No.15 strain insulator & Concreting materials as per Drwg No. BESCO/GM/CP/7/Dt; 24.10.07	Set	742	354
	b) Guy set with 2Nos. 15 strain insulator & Concreting materials as per Drwg No. BESCO/GM/CP/7/Dt; 24.10.07	Set	775	374
	b) Guy set with No. 8 strain insulator & Concreting materials as per Drwg No. BESCO/GM/CP/7/Dt; 24.10.07	Set	723	354
XX	EG Stirrup With GI Lacing	Set/2Nos.	370	99
XXI	Spiral Earth Electrode	Set	207	55
	Anti climbing device (12 Mtrs GI Barbed wire)	Nos.	64	25
XXII	Caution / Danger Board	Nos.	120	49
	Distribution Transformer, 3-Phase, 11kV/433 V with oil			
XXII	a) 15 kVA (Copper wound)	Nos.	49980	682
	b) 25 kVA (Aluminium wound)	Nos.	56480	682
	c) 25kVA BEE - 3 Star rated (Aluminium wound)	Nos.	51560	682
	c) 25kVA BEE - 4 Star rated (Aluminium wound)	Nos.	54969	682
	d) 63 kVA (Aluminium wound)	Nos.	81440	682
	e) 63kVA BEE - 3 Star rated (Aluminium wound)	Nos.	93726	682
	e) 63kVA BEE - 4 Star rated (Aluminium wound)	Nos.	94757	682
	f) 100 kVA (Aluminium wound)	Nos.	101570	910

	f) 100 kVA (Aluminium wound) BEE 3-Star rated	Nos.	121422	910
	f) 100 kVA (Aluminium wound) BEE 3-Star rated	Nos.	125856	910
	g) 250 kVA (Aluminium wound)	Nos.	228340	1365
	h) 250KVA BEE 3 star rated/Energy Efficient	Nos.	292467	1365
	h) 500 kVA (Aluminium wound)	Nos.	361707	1819
XXIV	11 kV G O S			
	a) 200 A Single break	Set	6951	636
	b) 400 A Double break	Set	15637	706
	c) 200 A Single break vertical operation	Set	10096	636
XXV	11 kV Solid Core HG Fuse Unit	Set (3 Nos)	827	423
XXVI	11kV Class DOLO Cutouts	Set (3 Nos)	4288	423
XXVI	11kV Class DOLO Cutouts(REC design)	Set (3 Nos)	3396	423
XXVII	Lightning Arresters			
i)	9 kV , 5kA Metal oxide Type	3 Nos	2070	71
ii)	9 kV , 5kA Polymeric Type	3 Nos	3441	71
XXVIII	Transformer grounding			
	a) Pipe Type (G.I. Pipe B -class with Strips bolt nuts and washers,salt, charcoal etc.,)	Per Electrode	1277	573
	b) Rod Type	Set	2000	Included in Material cost
XXIX	Concreting with Material & Labour			
	Base concreting CC 1:4:8			
	a) Pole base 11/9.5/9/8 mtrs Pole supports	500x650x150 mm	229	-
	b) Pole base 9 mtrs square pole	650x650x150 mm	298	-
	c) Pole base 11 mtrs spun pole	1000x1000x150 mm	704	-
	Pole concreting CC 1:2:4 (without coping)			-
	a) 9.5 Supports(pole concreting)	650x500x1850 mm	2792	
	a) 9M Supports(pole concreting)	650x500x1700 mm	2566	-
	a) 9M Square Supports(pole concreting)	650x650x1700 mm	3214	
	b) 11M Tubular Supports(pole concreting)	1000x1000x2500	11378	
	c) 11 mtr PSC	650x500x2000 mm	2721	
	c) 7.5 / 8 M Supports	400x400x1500 mm	982	-
	a) Guy concreting with Boulders, Mud & Sand	As per Drawing No. BESCO/GM/CP/7 /dt: 24.10.07	158	
	Providing Coping for Poles with CC 1:2:4 (As per actuals)			
	a) 150mm around poles for a height of 300mm for RCC, PSC, PCC Poles/ I-Beam/Rail steel sections.	each	444	
b) 390mm all around the pole for an height of 300mm for Spun Poles	each	1050		
XXIX	Guy concreting in Marshy area:			

	a) Providing cement concrete 1:2:4 for Anchor Rod in Marshy/Black Cotton Soil 600x600x450mm	each	824	
XXX	11 kV , 3 Core XLPE UG Cable (Flat armoured)			
	a) 3X95 Sq mm	km	548860	35797
	b) 3X240 Sq.mm	km	1038890	37786
	c)3X 400 Sq.mm	km	1565000	39774
XXXI	Fixing 3-phase LT Capacitor housed in a enclosure with necessary Fuses, wiring, mounting arrangement for			
1	15/25 kVA DTC, 3 kVAr	No.	725	382
2	63 kVA DTC, 9 kVAr	No.	1131	382
3	100 kVA DTC, 18 kVAr	No.	1933	450
4	250 kVA DTC, 27 kVAr	No.	2958	525
5	500 kVA DTC, 54 kVAr	No.	5083	549
XXXII	Providing Electronic Trivector Meters with associated CT's Metering Box etc., on LT side of Distribution Transformer Center (including cost of energy meter)			
1	for 15/25 kVA DTC with CT ratio 50/5A	Set	7912	1145
2	for 50/63 kVA DTC with CT ratio 100/5A	Set	7474	1145
3	for 100 kVA DTC with CT ratio 150/5A	Set	7168	1145
4	for 250 kVA DTC with CT ratio 400/5 A	Set	7330	1145
5	for 500 kVA DTC with CT ratio 800/5A	Set	7465	1145