

**Rates of various Line Materials and Labour Charges used in cost sheets for General Works**

<b>SL No</b>	<b>Particulars</b>	<b>Unit</b>	<b>Materials rate in Rs.</b>	<b>Materials rate in Rs. With GST</b>	<b>Labour charges (Casual) in Rs</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>I</b>	<b>RCC Poles</b>				
	a) 9.5 M 350kg WL	Nos	7,675.00	7,627.00	1,373.00
	b) 9M 145kg WL	Nos	5,941.00	5,904.00	1,060.00
	c) 9M 150kg WL Square section	Nos	7,210.00	7,165.00	1,060.00
	d) 8M 115kg WL	Nos	4,351.00	4,324.00	848.00
<b>II</b>	<b>PCC Poles</b>				
	8M PCC Poles 140kg WL	Nos	2,495.00	2,479.00	848.00
<b>III</b>	<b>PSC Poles</b>				
	a) 11M 365kg WL	Nos	7,924.00	7,874.00	1,552.00
	b) 9M 200kg WL	Nos	3,401.00	3,380.00	1,060.00
	d) 8M 200kg WL	Nos	2,942.00	2,923.00	848.00
<b>IV</b>	<b>Pre-Stressed Tubular Spun Pole</b>				
	11M Long	Nos	15,800.00	15,700.00	2,353.00
<b>V</b>	<b>PSCC Poles</b>				
	a) 9M PSCC pole WL 300Kg	Nos	4,578.00	4,549.00	1,060.00
	b) 9M PSCC pole 160Kg WL in Transverse direction and 136Kg WL in Longitudinal directional	Nos	3,558.00	3,535.00	1,060.00
<b>VI</b>	<b>Double Pole Structure complete including 5 KG, 8 SWG GI Wire for Structure Grounding</b>				
	a) 9M RCC Poles	Set	15,910.00	15,951.40	3,252.00
	b) 8M RCC Poles	Set	12,730.00	12,791.40	3,104.00
	c) 9M PSCC Poles with 300Kg WL	Set	13,184.00	13,241.40	3,252.00
<b>VII</b>	<b>Three Pole structure complete including 5 KG, 8 SWG GI Wire for Structure Grounding</b>				
	a) 9M RCC Poles	Set	27,446.00	21,717.40	6,271.00
	b) 8M RCC Poles	Set	22,676.00	18,557.40	6,049.00
	c) 9M PSCC Poles with 300Kg WL	Set	23,357.00	19,007.40	6,271.00
<b>VIII</b>	<b>Transformer Structure complete with cross arms braces, clamps, bolt and washers</b>				
<b>1)</b>	<b>For 25/63 kVA</b>				
	a) Using 2nos 9M RCC Poles	Set	19,271.00	19,423.00	4,115.00
	b) Using 2 nos 8M RCC Poles	Set	16,091.00	16,263.00	3,560.00
<b>2)</b>	<b>For 25/63 kVA - Star Rated Transformers</b>				
	a) Using 2nos 9M RCC Poles	Set	22,532.00	22,784.00	4,115.00
	b) Using 2 nos 8M RCC Poles	Set	19,352.00	19,624.00	3,560.00
<b>3)</b>	<b>For 100/250 kVA</b>				
	c) 9M PSCC Poles with 300Kg WL	Set	19,806.00	20,074.00	4,115.00

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	a) Using 2 nos 9M RCC Poles	Set	24,575.00	24,889.00	4,238.00
	b) Using 2 nos 8M RCC Poles	Set	21,395.00	21,729.00	3,816.00
	c) 9M PSCC Poles with 300Kg WL	Set	21,849.00	22,179.00	4,238.00
	Note: The items V, VI, includes the cost of poles, structure materials & 5 kgs of G.I wire required for earthing of structure materials.				
<b>IX</b>	<b>Fixing Single pole mounted transformer kit on 9 mtr RCC pole (Square Sec)/9 Mtr PSCC pole 300KG WL (Excluding Errection of pole)</b>				
	for 25/63kVA Transformer	Set	4,088.00	4,213.00	1,016.00
	for 100kVA Transformer	Set	6,129.00	6,316.00	1,016.00
<b>X</b>	<b>For Single pole mounted transformer kit for 100/250kVA on 11 mtr spun pole (Excluding Errection of pole)</b>	Set	23,035.00	23,739.00	2,033.00
<b>XI</b>	<b>11 kV Horizontal cross arm with HT Single Top support, clamp, bolts &amp; nuts and washers - MS</b>				
	a) For RCC Poles	Set	382.00	394.00	99.00
	b) For PSC Poles	Set	377.00	389.00	99.00
	b) For PCC Poles	Set	374.00	385.00	99.00
<b>XII</b>	<b>11 kV Horizontal cross arm with HT Single Top support, clamp, bolts &amp; nuts and washers - GI</b>				
	a) For RCC Poles	Set	505.00	520.00	99.00
	b) For PSC Poles	Set	498.00	513.00	99.00
	b) For PCC Poles	Set	493.00	508.00	99.00
<b>XIII</b>	<b>11 kV Horizontal cross arm, clamp, bolts, nuts and washers for DC Lines - MS</b>				
	a) For RCC Poles	Each	316.00	327.00	81.00
	b) For PSC Poles	Each	311.00	321.00	81.00
	b) For PCC Poles	Each	308.00	318.00	81.00
<b>XIV</b>	<b>11 kV Horizontal cross arm, clamp, bolts &amp; nuts and washers for DC Lines - GI</b>				
	a) For RCC Poles	Each	422.00	428.00	81.00
	b) For PSC Poles	Each	415.00	421.00	81.00
	b) For PCC Poles	Each	411.00	416.00	81.00
<b>XV</b>	<b>4 Pin cross arm with pole clamp, bolts &amp; nuts and washers with braces - MS</b>				
	a) RCC Poles	Set	263.00	273.00	96.00
	b) For PSC Poles	Set	258.00	267.00	96.00
	b) PCC Poles	Set	255.00	264.00	96.00
<b>XVI</b>	<b>4-Pin cross arm with pole clamp, bolts &amp; nuts and washers with braces - GI</b>				
	a) RCC Poles	Set	352.00	365.00	96.00
	b) For PSC Poles	Set	345.00	358.00	96.00
	b) PCC Poles	Set	340.00	353.00	96.00

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<b>XVII</b>	<b>2-Pin cross arm with pole clamp, bolts &amp; nuts and washers with braces - MS</b>				
	a) RCC Poles	Set	162.00	169.00	96.00
	b) For PSC Poles	Set	157.00	163.00	96.00
	b) PCC Poles	Set	154.00	160.00	96.00
<b>XVIII</b>	<b>2-Pin cross arm with pole clamp, bolts &amp; nuts and washers with braces - GI</b>				
	a) RCC Poles	Set	219.00	228.00	96.00
	b) For PSC Poles	Set	212.00	221.00	96.00
	b) PCC Poles	Set	207.00	216.00	96.00
<b>XIX</b>	<b>LT Cross arm for vertical configuration with clamps, bolts &amp; nuts and washers</b>	Set	626.00	645.00	287.00
<b>XX</b>	<b>HT Single Top support with bolt &amp; nuts and washers</b>	Set	89.00	94.00	64.00
<b>XXI</b>	<b>LT Single Top support with bolt &amp; nuts and washers</b>	Set	69.00	73.00	64.00
<b>XXII</b>	<b>Insulators</b>				
	a) 11kV Ceramic Pin insulator with GI pin	No	94.00	94.00	Included in stringing
	b) No.15 Strain Insulator	No	33.00	33.00	
	c) No.8 Strain Insulator	No	14.00	14.00	
	d) 1.1 KV Ceramic Pin Insulator With GI pin	No	38.00	38.00	
	11 KV, 5KN Composite/Polymeric Pin Insulator (20mm dia FRP Rod)	No	165.00	164.00	
	11 KV, 5KN Composite/Polymeric Pin Insulator (24mm dia FP Rod)	No	195.00	194.00	
	e) 45 kN Disc Insulator	No	290.00	288.00	
	f) 70 kN Disc Insulator (Ball & Socket type)	No	490.00	487.00	
	g) 90 kN Disc Insulator (Ball & Socket type)	No	490.00	487.00	
	h) 11 kV Solid core Insulator	No	152.00	151.00	
	i) Silcon rubber composite insulator/11KV 45 KN Polymeric Insulator	No	170.00	169.00	
j)11KV 70 KN Polymeric insulator	No	287.00	285.00		
<b>XXIII</b>	<b>G I Wires &amp; Guy Wires</b>				
	a) 7/10 SWG Guy Wire	MT	56,267.00	56,277.00	
	b) 8 SWG GI Wire	MT	54,674.00	54,684.00	
	c) 10 SWG GI Wire	MT	57,683.00	57,694.00	
	d) GI Barbed Wire 12 SWG	MT	67,882.00	67,895.00	

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<b>XXIV</b>	<b>Conductor</b>				
	a) Weasel ACSR	km	20,100.00	19,387.00	1,913.00
	b) Rabbit ACSR	km	33,675.83	32,884.00	2,608.00
	c) Coyote ACSR	km	92,708.00	91,177.00	4,555.00
<b>XXV</b>	<b>Guarding</b>				
	a) Providing guarding at Road Crossings, Telephone Line Crossings. (Including labour for fixing of necessary cross arms)	Mtr	68.00	68.00	603.00 (each upto a span of 60 mtrs)
	b) Providing guarding between HT & LT line. (Including labour fixing of necessary cross arms)	Mtr	68.00	68.00	603.00 (each upto a span of 40 mtrs)
	c) Providing guarding between HT & LT line. (Including labour fixing of necessary cross arms)	Mtr	68.00	68.00	1059.00 (span of above 40 mtrs)
<b>XXVI</b>	<b>Guy Set</b>				
	a) Guy set with No.15 strain insulator & Concreting materials as per Drwg No. BESCO/GM/CP/7/Dt; 24.10.07	Set	742.00	754.00	354.00
	b) Guy set with 2 Nos. 15 strain insulator & Concreting materials as per Drwg No. BESCO/GM/CP/7/Dt; 24.10.07	Set	775.00	782.00	374.00
	b) Guy set with No. 8 strain insulator & Concreting materials as per Drwg No. BESCO/GM/CP/7/Dt; 24.10.07	Set	723.00	730.00	354.00
<b>XXVII</b>	<b>EG Stirrup With GI Lacing</b>	Set/ 2 Nos	370.00	382.00	99.00
<b>XXVIII</b>	<b>Spiral Earth Electrode</b>	Set	207.00	213.00	55.00
<b>XXIX</b>	<b>Anti climbing device (12 Mtrs GI Barbed wire)</b>	Nos	64.00	64.00	25.00
<b>XXX</b>	<b>Caution/Danger Board</b>	Nos	120.00	146.00	49.00
<b>XXXI</b>	<b>Distribution Transformer, 3-Phase, 11kV/433 V with oil</b>				
	a) 15 kVA (Copper wound)	Nos	49,980.00	45,842.00	682.00
	b) 25 kVA (Aluminium wound)	Nos	56,480.00	51,804.00	682.00
	c) 25kVA BEE - 3 Star rated (Aluminium wound)	Nos	51,560.00	51,684.00	682.00
	c) 25kVA BEE - 4 Star rated (Aluminium wound)	Nos	54,969.00	53,956.00	682.00

SL No	Particulars	Unit	Materials rate in Rs.	Materials rate in Rs. With GST	Labour charges (Casual) in Rs
	d) 63 kVA (Aluminium wound)	Nos	81,440.00	74,697.00	682.00
	e) 63kVA BEE - 3 Star rated (Aluminium wound)	Nos	93,726.00	93,810.00	682.00
	e) 63kVA BEE - 4 Star rated (Aluminium wound)	Nos	94,757.00	94,871.00	682.00
	f) 100 kVA (Aluminium wound)	Nos	101,570.00	93,160.00	910.00
	f) 100 kVA (Aluminium wound) BEE 3-Star rated	Nos	121,422.00	121,776.00	910.00
	f) 100 kVA (Aluminium wound) BEE 4-Star rated	Nos	125,856.00	126,850.00	910.00
	g) 250 kVA (Aluminium wound)	Nos	228,340.00	209,434.00	1,365.00
	h) 250KVA BEE 3 star rated/Energy Efficient	Nos	277,240.00	254,285.00	1,365.00
	h) 500 kVA (Aluminium wound)	Nos	361,707.00	331,758.00	1,819.00
<b>XXXII</b>	<b>11 kV G O S</b>				
	a) 200 A Single break	Set	6,951.00	7,163.00	636.00
	b) 400 A Double break	Set	15,637.00	16,115.00	706.00
	c) 200 A Single break vertical operation	Set	10,096.00	10,405.00	636.00
<b>XXXIII</b>	<b>11kV Solid Core HG Fuse Unit</b>	Set (3 Nos)	827.00	852.00	423.00
<b>XXXIV</b>	<b>DOLO Cutout</b>				
	11kV Class DOLO Cutouts	Set (3 Nos)	4,494.00	4,631.00	423.00
	11kV Class DOLO Cutouts (REC design)	Set (3 Nos)	3,396.00	3,500.00	423.00
<b>XXXV</b>	<b>Lightning Arresters</b>				
	a) 9 kV, 5kA Metal Oxide Type	3 Nos	2,070.00	2,058.00	71.00
	b) 9 kV, 5kA Polymeric Type	3 Nos	3,441.00	3,420.00	71.00
<b>XXXVI</b>	<b>Transformer Grounding</b>				
	a) Pipe Type (GI Pipe B - class with Strips bolt nuts and washers, salt, charcoal etc.)	Per Electrode	1,277.00	1,279.00	573.00
	b) Rod Type	Set	2,000.00	1,832.00	Included in Material cost
<b>XXXVII</b>	<b>Concreting with Material &amp; Labour</b>				
	<b>Base concreting CC 1:4:8</b>				
	a) Pole base 11/9.5/9/8 mtrs Pole supports	500x650x150mm	229.00	229.00	-
	b) Pole base 9 mtrs square pole	650x650x150mm	298.00	298.00	-
	c) Pole base 11 mtrs spun pole	1000x1000x150mm	704.00	704.00	-
	<b>Pole concreting CC 1:2:4 (without coping)</b>				

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	a) 9.5 Supports(pole concreting)	650x500x1850mm	2,792.00	2,792.00	
	a) 9M Supports(pole concreting)	650x500x1700mm	2,566.00	2,566.00	-
	a) 9M Square Supports(pole concreting)	650X650x1700mm	3,214.00	3,214.00	
	b) 11M Tubular Supports(pole concreting)	1000x1000x2500	11,378.00	11,378.00	
	c) 11 mtr PSC	650x500x2000mm	2,721.00	2,721.00	
	c) 7.5 / 8 M Supports	400x400x1500mm	982.00	982.00	-
	a) Guy concreting with Boulders, Mud & Sand	As per Drawing No. BESCO/M/CP/7/dt 24.10.07	158.00	158.00	
<b>Providing Coping for Poles with CC 1:2:4 (As per actuals)</b>					
	a) 150mm around poles for a height of 300mm for RCC, PSC, PCC Poles/ I-Beam/ Rail steel sections.	Each	444.00	444.00	
	b) 390mm all around the pole for an height of 300mm for Spun Poles	Each	1,050.00	1,050.00	
<b>Guy concreting in Marshy area:</b>					
	a) Providing cement concrete 1:2:4 for Anchor Rod in Marshy/Black Cotton Soil 600x600x450mm	Each	824.00	824.00	
<b>XXXVIII</b>	<b>11 kV, 3 Core XLPE UG Cable</b>				
	<b>Flat Armoured</b>				
	a) 3x95 Sqmm	km	548,860.00	591,925.00	35,797.00
	b) 3x240 Sqmm	km	1,038,890.00	1,120,404.00	37,786.00
	c) 3x400 Sqmm	km	1,565,000.00	1,687,794.00	39,774.00
	<b>Round Armoured</b>				
	a) 3x95 Sqmm	km	675,110.00	728,081.00	35,797.00
	b) 3x240 Sqmm	km	1,279,950.00	1,380,378.00	37,786.00
	c) 3x400 Sqmm	km	1,956,000.00	2,109,472.00	39,774.00
<b>XXXIX</b>	<b>Fixing 3-phase LT Capacitor housed in a enclosure with necessary Fuses, wiring, mounting arrangement for</b>				
	15/25 kVA DTC, 3 kVAr	No	725.00	811.00	382.00
	63 kVA DTC, 9 kVAr	No	1,131.00	1,265.00	382.00
	100 kVA DTC, 18 kVAr	No	1,933.00	2,162.00	450.00
	250 kVA DTC, 27 kVAr	No	2,958.00	3,308.00	525.00
	500 kVA DTC, 54 kVAr	No	5,083.00	5,685.00	549.00

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<b>XXXX</b>	<b>Providing Electronic Trivector Meters with associated CT's Metering Box etc., on LT side of Distribution Transformer Center (including cost of energy meter)</b>				
	for 15/25 kVA DTC with CT ratio 50/5A	Set	7,912.00	7,248.00	1,145.00
	for 50/63 kVA DTC with CT ratio 100/5A	Set	7,474.00	6,846.00	1,145.00
	for 100 kVA DTC with CT ratio 150/5A	Set	7,168.00	6,566.00	1,145.00
	for 250 kVA DTC with CT ratio 400/5 A	Set	7,330.00	6,715.00	1,145.00
	for 500 kVA DTC with CT ratio 800/5A	Set	7,465.00	6,838.00	1,145.00