

COST DATA SHEET -60

Erection of 3 Pole Structure With 9 Mtr PSCC Poles of 300Kg WL

SL. No	Particulars	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
	Part-A: LINES						
1	3 Pole Structure complete using 9 Mtrs PSCC Poles of 300kg WL (Including Cost of Poles)	Set	1	23357	23357	6271	6271
2	Spiral Earth Electrode	Nos	3	207	621	55	165
3	Guy Set With No.15 Strain Insulator Complete	Sets	3	742	2226	354	1062
4	45kN Disc Insulators	Nos	6	290	1740	0	0
5	11kV Pin Insulators with GI Pins	Nos	3	94	282	0	0
6	Concrete for Guy set (without cement)	Nos	3	158	474	0	0
7	Caution/Danger Board as per Drawing No. BESCO/GM/CP/40/Dt: 24.10.07	Nos	2	120	240	49	98
8	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kgs	3	64	192	25	75
9	Total Material cost				29132		
10	Labour Charges						
	a) Casual						7671
	b) Regular						1534
	Total Cost/Unit in Rs.				38337		
Note:	1) Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET -59

Providing 2 Pole Structures at the Tapping Point Using 9Mtrs PSCC Poles of 300.Kg WL

SL. No	Particulars	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
	Part-A: LINES						
1	DP Structure using 9 Mtrs PSCC Poles of 300Kg WL	Set	1	13184	13184	3252	3252
2	45kN Disc Insulators	Nos	6	290	1740	0	0
3	Guy Set Complete	Sets	2	742	1484	354	708
4	Spiral Earth Electrode	Nos	2	207	414	55	110
5	Concrete for Guy Set (without Cement)	Nos	2	158	316	0	0
6	Caution/Danger Board as per Drawing No. BESCO/GM/CP/40/Dt: 24.10.07	No	1	120	120	49	48
7	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kgs	2	64	128	25	50
	Total Part A				17386		4168
	Part-B: SWITCH GEAR						
9	11kV 400A D/B GOS	Set	1	15637	15637	706	706
10	H-Frame for mounting GOS	No	1	2895	2895	191	191
11	DOLO Cut Out	Set/3 Nos	1	4494	4494	423	423
	Total Part B				23026		1320
	Total Material cost (A+B)				40412		
	Labour Charges						
	a) Casual						5488
	b) Regular						1098
	Total Cost of Estimate using 9 Mtrs PSCC Pole of 300Kg WL				46998		
Note:	1) Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 58

Running Single Circuit 11 kV, 3-phase Power Line on 9.0 Mtr Supports Using RABBIT ACSR Conductor and using PSCC poles of 300 Kg WL for dead ends and Anchor Points, With an Average Span of 40 Mtrs in Vertical Configuration in Congested Areas

SL. No	Particulars	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtrs Long, 300 kg WL (for Deadend, Anchor points)	Nos	1	4578	4578	1060	1060
2	PSC Pole -9 Mtrs Long, 200 kg WL (for Intermediate Poles)	Nos	23	3401	78223	1060	24380
3	DP Structure using 9 Mtrs RCC poles	Set	1	13184	13184	3252	3252
4	Special cross arm with cross arm for EG Stirrups, braces, clamps, bolts nuts and washers complete	Sets	23	1122	25806	316	7268
5	11kV ceramic Pin Insulators with GI Pins	Nos	69	94	6486	0	0
6	45kN Disc Insulators	Nos	6	290	1740	0	0
7	Guy Set Complete	Sets	9	742	6678	354	3186
8	Rabbit ACSR Conductor	Kms	3.045	33676	102543	2608	7941
9	Spiral Earth Electrode	Nos	26	207	5382	55	1430
10	EG Stirrups with GI wire lacing	Set of 2 No's	370	424	156880	99	36630
11	Concreting Materials for guy sets (Without Cement)	Nos	9	158	1422	0	0
12	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kgs	26	64	1664	25	650
	Total				404586		85797
13	Labour charges						
	a) Casual				85797		
	b) Regular				17159		
	Total Cost/Km in Rs.					507543	
Note:	Item 4 includes, the following						
	a) Special cross arms 50x50x6 mm MS 0.715 mtr long 3-Nos						
	b) Support piece for fixing EG stirrup 50x50x6 mm MS Angle 0.865 mtr long - 1 No						
	c) Brace 50x50x6 mm MS Angle 0.850 mtr long - 1 No						
	d) 50x6 mm Flat 1.8 mtr, long - 1No						
	e) RCC Pole Clamps - 5 Nos						
	f) Cross Arm for fixing EG Stirrup - 1 No						
	1) Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 57

Running LT, 3-Phase 5 Wire Power Line with Continuous Earth Wire on 9.0 Mtr Supports Using RABBIT ACSR for Phase and Neutral, and WEASEL Conductor for Street Light and 8 SWG GI Wire for Continuous Earth Wire with an Average Span of 40 Mtrs in Vertical Configuration and using PSCC poles of 300 Kg WL for dead ends and Anchor Points

SL. No	Particulars	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtrs Long, 300 kg WL (for Deadend, Anchor points)	Nos	6	4578	27468	1060	6360
2	PSC Pole -9 Mtrs Long, 200 kg WL (for Intermediate Poles)	Nos	19	3401	64619	1060	20140
3	Fabricated Vertical Cross Arms with pole, clamps, bolts, nuts and washers	Sets	30	626	18780	287	8610
4	1.1kV Pin Insulators with GI Pins	Nos	100	38	3800	0	0
5	No.8 Strain Insulators	Nos	50	14	700	0	0
6	Guy Set Complete	Sets	12	723	8676	354	4248
7	Rabbit ACSR Conductor	Kms	4.06	33676	136725	2608	10588
8	Weasel ACSR Conductor	Kms	1.015	20100	20402	1913	1942
9	No.8 SWG GI wire for continuous earth wire	Kms	1.015 (103 kgs)	54.674	5631	1913	1942
10	8 SWG GI wire for guard loops	Kgs	26	54.674	1422	0	0
11	Spiral Earth Electrode	Nos	25	207	5175	55	1375
12	Concreting Materials for guy sets (Without Cement)	Nos	8	140	1120	0	0
13	SMC Street Lighting Metering Box with Automatic Control Swith, Contactors with Single Phase 5-30 Amps meter & 50/5A CT including wiring	Nos	1	6500	6500	565	565
14	PVC Pipe 40 mm Dia	Mtrs	6	50	300	0	0
15	PVC Insulated wire 25 Sqmm Single Core Multi Stranded	Mtrs	25	32	800	0	0
16	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kgs	25	64	1600	25	625
	Total				303717		56395
17	Labour charges						
	a) Casual				56395		
	b) Regular				11279		
	Total Cost/Km in Rs.					371390	
Note:	1) Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 56

Running LT, 3-Phase 5 Wire for Power Line on 9.0 Mtr Supports Using RABBIT ACSR Conductor for Phase and Neutral, and WEASEL Conductor or Street Light with an Average Span of 40 Mtrs and using PSCC poles of 300 Kg WL for dead ends and Anchor Points (For Cities, Towns and Residential Layouts)

SL. No	Particulars	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtrs Long, 300 kg WL (for Deadend, Anchor points)	Nos	6	4578	27468	1060	6360
2	PSC Pole - 9 Mtrs Long, 200 kg WL (for Intermediate Poles)	Nos	19	3401	64619	1060	20140
3	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSCC poles)	Sets	7	258	1806	96	672
4	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSC poles)	Sets	22	258	5676	96	2112
5	LT 2 Pin cross arms, with pole clamps, bolts, nuts (for PSCC poles)	Sets	7	157	1099	96	672
6	LT 2 Pin cross arms, with pole clamps, bolts, nuts (for PSC poles)	Sets	18	157	2826	96	1728
7	1.1kV Pin Insulators with GI Pins	Nos	95	38	3610	0	0
8	No.8 Strain Insulators	Nos	50	14	700	0	0
9	Guy Set Complete	Sets	10	723	7230	354	3540
10	Rabbit ACSR Conductor	Kms	4.06	33636	136562	2608	10588
11	Weasel ACSR Conductor	Kms	1.015	20100	20402	1913	1942
12	Spiral Earth Electrode	Nos	25	207	5175	55	1375
13	Concreting Materials for guy sets (without Cement)	No's	8	158	1264	0	0
14	SMC Street Lighting Metering Box with Automatic Control Swith, Contactors with Single Phase 5-30 Amps meter & 50/5A CT including wiring	No's	1	6500	6500	565	565
15	PVC Pipe 40 mm Dia	Mtrs	6	50	300	0	0
16	PVC Insulated wire 25 Sqmm Single Core Multi stranded	Mtrs	25	32	800	0	0
17	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kgs	25	64	1600	25	625
	Total				287637		50319
18	Labour charges						
	a) Casual				50319		
	b) Regular				10064		
	Total Cost/Km in Rs.					348020	

Note: 1) Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet

COST DATA SHEET - 55

Running LT, 3-Phase 4 Wire Power Line on 9.0 Mtr Supports Using RABBIT ACSR Conductor with an Average Span of 40 Mtrs and using PSCC poles of 300 Kg WL for dead ends and DP structure

SL. No	Particulars	Unit	Qty	Material cost		Labour Cost		
				Rate	Amt	Rate	Amt	
1	PSCC Pole - 9 Mtrs Long, 300 kg WL	Nos	1	4578	4578	1060	1060	
2	PSC Pole - 9 Mtrs Long, 200 kg WL	Nos	24	3401	81624	1060	25440	
3	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSCC poles)	Set	1	258	258	96	96	
4	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSC poles)	Sets	24	258	6192	96	2304	
5	1.1kV Pin Insulators with GI Pins	Nos	96	38	3648	0	0	
6	No.8 Strain Insulators	Nos	8	14	112	0	0	
7	Guy Set Complete	Sets	8	723	5784	354	2832	
8	Rabbit ACSR Conductor	Kms	4.06	33636	136562	2608	10588	
9	Spiral Earth Electrode	Nos	25	207	5175	55	1375	
10	Concreting materials for guy sets without cement	Nos	8	158	1264	0	0	
11	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kgs	25	64	1600	25	625	
	Total				246797		44320	
12	Labour charges							
	a) Casual				44320			
	b) Regular				8864			
	Total Cost/Km in Rs.					299982		
Note:	1) Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet							

COST DATA SHEET - 54

Running Single Circuit 11 kV, 3-Phase Power Line & 3 Phase 4 Wire Secondary Line on 9.0 Mtr Supports with an Average Span of 40 Mtrs Using RABBIT ACSR conductor for HT & LT Lines and using PSCC poles of 300 Kg WL for dead ends and DP structure

SL. No	Particulars	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtrs Long, 300 kg WL	Nos	1	4578	4578	1060	1060
2	PSC Pole - 9 Mtrs Long, 200 kg WL	No's	23	3401	78223	1060	24380
3	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers (for PSCC poles)	Set	1	377	377	99	99
4	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers (for PSC poles)	Sets	23	377	8671	99	2277
5	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSCC poles)	Set	1	258	258	96	96
6	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers(for PSC poles)	Sets	24	258	6192	96	2304
7	DP Structure with 9 Mtrs PSCC Poles of 300Kg WL	Set	1	13184	13184	3252	3252
8	11kV Pin Insulators with GI pins	Nos	72	94	6768	0	0
9	1.1kV Pin Insulators with GI Pins	Nos	96	38	3648	0	0
10	45kN Disc Insulators	Nos	6	290	1740	0	0
11	No.8 Strain Insulators	Nos	8	14	112	0	0
12	Guy Set Complete	Sets	8	742	5936	354	2832
13	Rabbit ACSR Conductor	Kms	7.105	33676	239268	2608	18530
14	PG Clamps for Rabbit conductor	Nos	6	76	456	0	0
15	Spiral Earth Electrode	Nos	26	207	5382	55	1430
16	Guarding between HT & LT Lines						
	a) Guarding Materials	Span	25	2720	68000	603	15075
	b) 4 Pin cross arms with clamps,bolts, nuts and washers.	Sets	25	263	6575	0	0
17	Concreting materials for guy sets without cement	Nos	8	158	1264	0	0
18	Caution/Danger Board as per Drawing No. BESCO/GM/CP/40/Dt: 24.10.07	Nos	8	120	960	48	384
19	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kgs	26	64	1664	25	650
	Total				453256		72369
20	Labour charges						
	a) Casual				72369		
	b) Regular				14474		
	Total Cost/Km in Rs.				540099		
Note:	1) Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 53

Running Single Circuit 11 kV 3 Phase Power Line and 3 Phase - 4 Wire Secondary Line on 9 Mtr Supports with an Average Span of 50 Mtrs using RABBIT Conductor for HT and WEASEL for LT Lines and using PSCC poles of 300 Kg WL for dead ends and DP structure

Sl No	Particulars	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtrs Long, 300 kg WL	Nos	1	4578	4578	1060	1060
2	PSC Pole - 9 Mtrs Long, 200 kg WL	Nos	18	3401	61218	1060	19080
3	11kV Horizontal cross arms with clamps, HTST Supports, bolts, nuts and washers (for PSCC poles)	Set	1	377	377	99	99
4	11kV Horizontal cross arms with clamps, HTST Supports, bolts, nuts and washers (for PSC poles)	Sets	18	377	6786	99	1782
5	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSCC poles)	Set	1	258	258	96	96
6	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSC poles)	Sets	19	258	4902	96	1824
7	DP Structure with 9 Mtrs PSCC Poles of 300Kg WL	Set	1	13184	13184	3252	3252
8	11kV Pin Insulators with GI pins	Nos	57	94	5358	0	0
9	1.1kV Pin Insulators with GI Pins	Nos	76	38	2888	0	0
10	45kN Disc Insulators	Nos	6	290	1740	0	0
11	No.8 Strain Insulators	Nos	8	14	112	0	0
12	Guy Set Complete	Sets	8	742	5936	354	2832
13	Rabbit ACSR for HT Lines	Kms	3.045	33676	102543	2608	7941
14	Weasel ACSR for LT lines	Kms	4.06	20100	81606	1913	7767
15	Spiral Earth Electrode	Nos	21	207	4347	55	1155
16	Guarding between HT & LT Lines						
	a) Guarding Materials	Span	20	2720	54400	603	12060
	b) 4 Pin cross arms with clamps,bolts, nuts and washers.	Sets	20	263	5260	0	0
17	PG Clamps for Rabbit conductor	Nos	6	158	948	0	0
18	Concreting Materials for guy sets	Nos	8	120	960	0	0
19	Caution/Danger Board as per Drawing No. BESCO/GM/CP/40/Dt: 24.10.07	Nos	7	120	840	48	336
20	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kgs	21	64	1344	25	525
	Total				359585		59809
21	Labour charges						
	a) casual				59809		
	b) Regular *				11962		
	Total Cost/Km in Rs				431356		

Note: 1) Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet

COST DATA SHEET - 52

Running Single Circuit 11 kV, 3-Phase Power Line on 9.0 Mtr Supports with an Average Span of 40 Mtrs Using COYOTE ACSR conductor and PSCC poles of 300 Kg WL for dead ends and DP structure

SL. No	Particulars	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtrs Long, 300 kg WL	Nos	1	4578	4578	1060	1060
2	PSC Pole - 9 Mtrs Long, 200 kg WL	Nos	22	3401	74822	1060	23320
3	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers (for PSCC poles)	Set	1	377	377	99	99
4	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers (for PSC poles)	Sets	22	377	8294	99	2178
5	DP Structure with 9 Mtrs PSCC Poles of 300Kg WL	Sets	2	13184	26368	3252	6504
6	11kV Pin Insulators with GI pins	Nos	69	94	6486	0	0
7	70/90 kN Disc Insulators	Nos	12	490	5880	0	0
8	Strain Clamp 3 bolt type for Disc Insulator	Nos	12	468	5616	0	0
9	Guy Set Complete	Sets	6	742	4452	354	2124
10	Coyote ACSR Conductor	Kms	3.045	92708	282296	4555	13870
11	PG Clamps for Coyote Conductor	Nos	12	267	3204	0	0
12	Spiral Earth Electrode	Nos	27	207	5589	55	1485
13	EG Stirrups with GI wire lacing	Set of 2 Nos	23	370	8510	99	2277
14	Concreting materials for guy sets without cement	Nos	6	158	948	0	0
15	Caution/Danger Board as per Drawing No. BESCO/GM/CP/40/Dt: 24.10.07	Nos	10	120	1200	48	480
16	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kgs	27	64	1728	25	675
	Total				440348		54072
17	Labour charges						
	a) Casual				54072		
	b) Regular				10814		
	Total Cost/Km in Rs.					505234	
Note:	1) Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 51

Running Single Circuit 11 kV, 3-Phase Power Line on 9.0 Mtr Supports with an Average Span of 50 Mtrs Using Rabbit ACSR Conductor and PSCC poles of 300 Kg WL for dead ends and DP structure

SL. No	Particulars	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtrs Long, 300 kg WL	Nos	1	4578	4578	1060	1060
2	PSC Pole - 9 Mtrs Long, 200 kg WL	Nos	18	3401	61218	1060	19080
3	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers (for PSCC poles)	Set	1	377	377	99	99
4	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers (for PSC poles)	Set	18	377	6786	99	1782
5	DP Structure with 9 Mtrs PSCC Poles of 300Kg WL	Set	1	13184	13184	3252	3252
6	11kV Pin Insulators with GI pins	Nos	57	94	5358	0	0
7	45kN Disc Insulators	Nos	6	290	1740	0	0
8	Guy Set Complete	Sets	6	742	4452	354	2124
9	Rabbit ACSR Conductor	Kms	3.045	33676	102543	2608	7941
10	PG Clamps for Rabbit conductor	Nos	6	76	456	0	0
11	Spiral Earth Electrode	Nos	21	207	4347	55	1155
12	EG Stirrups with GI wire lacing	Set of 2 Nos	19	370	7030	99	1881
13	Concreting materials for guy sets without cement	Nos	6	158	948	0	0
14	Caution/Danger Board as per Drawing No. BESCO/GM/CP/40/Dt: 24.10.07	Nos	8	120	960	48	384
15	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kg	21	64	1344	25	525
	Total				215321		39283
16	Labour charges						
	a) Casual				39283		
	b) Regular				7857		
	Total Cost/Km in Rs.				262461		
Note	1) Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET -50

Running Single Circuit 11kV, 3 Phase Power Line On 9.0 Mtr Supports With An Average Span Of 40 Mtrs Using Rabbit ACSR Conductor and PSCC poles of 300 Kg WL for dead ends and DP structure

SL. No	Particulars	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtrs Long, 300 kg WL	Nos	1	4578	4578	1060	1060
2	PSC Pole - 9 Mtrs Long, 200 kg WL	Nos	23	3401	78223	1060	24380
3	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers for PSCC poles	Set	1	377	377	99	99
4	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers for PSC poles	Set	23	377	8671	99	2277
5	DP Structure with 9 Mtrs PSCC Poles of 300Kg WL	Set	1	13184	13184	3252	3252
6	11 kV Pin Insulators with GI pins	Nos	72	94	6768	0	0
7	45 kN Disc Insulators	Nos	6	290	1740	0	0
8	Guy Set Complete	Sets	6	742	4452	354	2124
9	Rabbit ACSR Conductor	Kms	3.045	33676	102543	2608	7941
10	PG Clamps for Rabbit Conductor	Nos	6	76	456	0	0
11	Spiral Earth Electrode	Nos	26	207	5382	55	1430
12	EG Stirrups with GI wire lacing	Set of 2 Nos	24	370	8880	99	2376
13	Concreting materials for guy sets without cement	Nos	6	158	948	0	0
14	Caution/Danger Board as per Drawing No. BESCO/GM/CP/40/Dt: 24.10.07	Nos	8	120	960	48	384
15	Anti Climbing Device (10mtrs/1 Kg GI Barbed Wire) Lumpsum	Nos	26	64	1664	25	650
	Total				238826		45973
16	Labour charges						
	a) Casual				45973		
	b) Regular				9195		
	Total Cost/Km in Rs.					293994	
Note:	1) Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						