

COST DATA SHEET - 1

Running Single Circuit 11 kV, 3 Phase Power Line On 9 Mtr Supports With An Average Span Of 40 Mtr Using RABBIT ACSR Conductor

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9 Mtr Long, 145 Kg WL	No	1	7153	7153	1341	1341
2	PSCC Pole - 9 Mtr Long, 200 Kg WL	No	23	4276	98348	1341	30843
3	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for RCC Pole - 9 Mtr Long, 145 Kg WL	Set	1	668	668	122	122
4	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL	Set	23	664	15272	122	2806
5	DP Structure with RCC Pole - 9 Mtr Long, 145 Kg WL	Set	1	21369	21369	4114	4114
6	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	Nos	72	221	15912	0	0
7	11 kV, 45 KN Polymeric Insulator	No	6	202	1212	0	0
8	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	6	1209	7254	448	2688
9	Rabbit ACSR Conductor	KM	3.045	61515	187313	3299	10045
10	PG Clamps for Rabbit Conductor	No	6	116	696	0	0
11	Spiral Earth Electrode	No	26	248	6448	70	1820
12	EG Stirrups with GI wire lacing	Set/2 Nos	24	287	6888	125	3000
13	Guy concreting with Boulders, Mud and Sand	No	6	0	0	200	1200
14	Caution/Danger Board	No	8	146	1168	61	488
15	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	26	93	2418	32	832
Total Cost				Material		Labour	
				372119		59299	
Total Cost/KM in Rs. (Material & Labour)		431419					

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 2

Running Single Circuit 11 kV, 3 Phase Power Line on 9 Mtr Supports with an Average Span of 50 Mtr Using RABBIT ACSR Conductor

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9 Mtr Long, 145 Kg WL	No	1	7153	7153	1341	1341
2	PSCC Pole - 9 Mtr Long, 200 Kg WL	No	18	4276	76968	1341	24138
3	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for RCC Pole - 9 Mtr Long, 145 Kg WL	Set	1	668	668	122	122
4	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL	Set	18	664	11952	122	2196
5	DP Structure with RCC Pole - 9 Mtr Long, 145 Kg WL	Set	1	21369	21369	4114	4114
6	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	57	221	12597	0	0
7	11 kV, 45 KN Polymeric Insulator	No	6	202	1212	0	0
8	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	6	1209	7254	448	2688
9	Rabbit ACSR Conductor	KM	3.045	61515	187313	3299	10045
10	PG Clamps for Rabbit conductor	No	6	116	696	0	0
11	Spiral Earth Electrode	No	21	248	5208	70	1470
12	EG Stirrups with GI wire lacing	Set/2 Nos	19	287	5453	125	2375
13	Guy concreting with Boulders, Mud and Sand	No	6	0	0	200	1200
14	Caution/Danger Board	No	6	146	876	61	366
15	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	21	93	1953	32	672
	Total Cost			Material		Labour	
				340672		50727	
	Total Cost/KM in Rs. (Material & Labour)	391400					

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 3

Running Single Circuit 11 kV, 3 Phase Power Line on 8 Mtr Supports with an Average Span of 50 Mtr Using RABBIT ACSR Conductor

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 8 Mtr Long, 115 Kg WL	No	1	5306	5306	1072	1072
2	PSCC Pole - 8 Mtr Long, 200 Kg WL	No	18	3578	64404	1072	19296
3	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for RCC Pole - 8 Mtr Long, 115 Kg WL	Set	1	668	668	122	122
4	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for PSCC Pole - 8 Mtr Long, 200 Kg WL	Set	18	664	11952	122	2196
5	DP Structure with RCC Pole - 8 Mtr Long, 115 Kg WL	Set	1	17675	17675	3926	3926
6	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	57	221	12597	0	0
7	11 kV, 45 KN Polymeric Insulator	No	6	202	1212	0	0
8	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	6	1209	7254	448	2688
9	Rabbit ACSR Conductor	KM	3.045	61515	187313	3299	10045
10	PG Clamps for Rabbit Conductor	No	6	116	696	0	0
11	Spiral Earth Electrode	No	21	248	5208	70	1470
12	EG Stirrups with GI wire lacing	Set/2 Nos	19	287	5453	125	2375
13	Guy concreting with Boulders, Mud and Sand	No	6	0	0	200	1200
14	Caution/Danger Board	No	6	146	876	61	366
15	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	21	93	1953	32	672
Total Cost				Material		Labour	
				322567		45428	
Total Cost/KM in Rs. (Material & Labour)		367996					

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 4

Running Single Circuit 11 kV, 3 Phase Power Line on 9 Mtr Supports with an Average Span of 40 Mtr Using COYOTE ACSR Conductor

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9 Mtr Long, 145 Kg WL	No	1	7153	7153	1341	1341
2	PSCC Pole - 9 Mtr Long, 200 Kg WL	No	22	4276	94072	1341	29502
3	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for RCC Pole - 9 Mtr Long, 145 Kg WL	Set	1	668	668	122	122
4	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL	Set	22	664	14608	122	2684
5	DP Structure with RCC Pole - 9 Mtr Long, 145 Kg WL	Set	2	21369	42738	4114	8228
6	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	69	221	15249	0	0
7	70/90 kN Disc Insulator	No	12	325	3900	0	0
8	Strain Clamp 3 bolt type for Disc Insulator	No	12	741	8892	0	0
9	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	6	1209	7254	448	2688
10	Coyote ACSR Conductor	KM	3.045	152940	465702	5763	17548
11	PG Clamps for Coyote Conductor	No	12	404	4848	0	0
12	Spiral Earth Electrode	No	27	248	6696	70	1890
13	EG Stirrups with GI wire lacing	Set/2 Nos	23	287	6601	125	2875
14	Guy concreting with Boulders, Mud and Sand	No	6	0	0	200	1200
15	Caution/Danger Board	No	10	146	1460	61	610
16	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	27	93	2511	32	864
	Total Cost			Material		Labour	
				682352		69552	
	Total Cost/KM in Rs. (Material & Labour)	751905					

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 5

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 Mtr using RABBIT Conductor for HT and WEASEL for LT Lines

Sl No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9 Mtr Long, 145 Kg WL	No	1	7153	7153	1341	1341
2	PSCC Pole - 9 Mtr Long, 200 Kg WL	No	18	4276	76968	1341	24138
3	11 kV, Horizontal Cross Arm with clamps, HTST Supports, bolts, nuts and washers for RCC Pole - 9 Mtr Long, 145 Kg WL	Set	1	668	668	122	122
4	11 kV, Horizontal Cross Arm with clamps, HTST Supports, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL	Set	18	664	11952	122	2196
5	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for RCC Pole - 9 Mtr Long, 145 Kg WL	Set	1	439	439	122	122
6	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL	Set	19	435	8265	122	2318
7	DP Structure with RCC Pole - 9 Mtr Long, 145 Kg WL	Set	1	21369	21369	4114	4114
8	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	57	221	12597	0	0
9	1.1 kV Pin Insulator with GI Pin	No	76	65	4940	0	0
10	11 kV, 45 KN Polymeric Insulator	No	6	202	1212	0	0
11	No. 8 Strain Insulator	No	8	25	200	0	0
12	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	8	1209	9672	448	3584
13	Rabbit ACSR for HT Line	KM	3.045	61515	187313	3299	10045
14	Weasel ACSR for LT line	KM	4.06	37018	150293	2420	9825
15	Spiral Earth Electrode	No	21	248	5208	70	1470
Guarding between HT & LT Line							
16	a) Guarding Material (Rs. 98/Mtr)	Span	20	4900	98000	1340	26800
17	b) 4 Pin Cross Arm with clamps, bolts, nuts and washers for guarding	Set	20	435	8700	122	2440
18	PG Clamps for Rabbit conductor	No	6	116	696	0	0
19	Guy concreting with Boulders, Mud and Sand	No	8	0	0	200	1600
20	Caution/Danger Board	No	6	146	876	61	366
21	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	21	93	1953	32	672
Total Cost				Material		Labour	
				608474		91154	
Total Cost/KM in Rs. (Material & Labour)				699628			

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 6

Running Single Circuit 11 kV, 3 Phase Power Line & 3 Phase 4 Wire Secondary Line on 9 Mtr Supports with an Average Span of 40 Mtr Using RABBIT ACSR Conductor for HT & LT Lines

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9 Mtr Long, 145 Kg WL	No	1	7153	7153	1341	1341
2	PSCC Pole - 9 Mtr Long, 200 Kg WL	No	23	4276	98348	1341	30843
3	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for RCC Pole - 9 Mtr Long, 145 Kg WL	Set	1	668	668	122	122
4	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL	Set	23	664	15272	122	2806
5	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for RCC Pole - 9 Mtr Long, 145 Kg WL	Set	1	439	439	122	122
6	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL	Set	24	435	10440	122	2928
7	DP Structure with RCC Pole - 9 Mtr Long, 145 Kg WL	Set	1	21369	21369	4114	4114
8	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	72	221	15912	0	0
9	1.1 kV Pin Insulator with GI Pin	No	96	65	6240	0	0
10	11 kV, 45 KN Polymeric Insulator	No	6	202	1212	0	0
11	No. 8 Strain Insulator	No	8	25	200	0	0
12	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	8	1209	9672	448	3584
13	Rabbit ACSR Conductor	KM	7.105	61515	437064	3299	23439
14	PG Clamps for Rabbit conductor	No	6	116	696	0	0
15	Spiral Earth Electrode	No	26	248	6448	70	1820
	Guarding between HT & LT Line				0		0
16	a) Guarding Material (Rs. 98/Mtr)	Span	25	3920	98000	762	19050
17	b) 4 Pin Cross Arm with clamps, bolts, nuts and washers.	Set	25	435	10875	0	0
18	Guy concreting with Boulders, Mud and Sand	No	8	0	0	200	1600
19	Caution/Danger Board	No	8	146	1168	61	488
20	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	26	93	2418	32	832
	Total Cost				Material		Labour
					743594		93089
	Total Cost/KM in Rs. (Material & Labour)				836683		

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 7

Running LT, 3 Phase 4 Wire Power Line on 8 Mtr Supports Using WEASEL ACSR Conductor with an Average Span of 60 Mtr (IP Installations)

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 8 Mtr Long, 115 Kg WL	No	1	5306	5306	1072	1072
2	PSCC Pole - 8 Mtr Long, 200 Kg WL	No	17	3578	60826	1072	18224
3	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for RCC Pole - 8 Mtr Long, 115 Kg WL	Set	1	439	439	122	122
4	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 8 Mtr Long, 200 Kg WL	Set	17	435	7395	122	2074
5	1.1 kV Pin Insulator with GI Pin	No	64	65	4160	0	0
6	No. 8 Strain Insulator	No	8	25	200	0	0
7	Guy Set Complete with No. 8 Strain Insulator & Concreting materials	Set	8	1179	9432	448	3584
8	Weasel ACSR Conductor	KM	4.06	37018	150293	2420	9825
9	Spiral Earth Electrode	No	18	248	4464	70	1260
10	Guy concreting with Boulders, Mud and Sand	No	8	0	0	200	1600
11	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	18	93	1674	32	576
	Total Cost				Material		Labour
					244189		38337
	Total Cost/KM in Rs. (Material & Labour)				282526		

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 8**Running LT, 3 Phase 4 Wire Power Line on 8 Mtr Supports Using RABBIT ACSR Conductor with an Average Span of 40 Mtr**

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 8 Mtr Long, 115 Kg WL	No	1	5306	5306	1072	1072
2	PSCC Pole - 8 Mtr Long, 200 Kg WL	No	24	3578	85872	1072	25728
3	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for RCC Pole - 8 Mtr Long, 115 Kg WL	Set	1	439	439	122	122
4	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 8 Mtr Long, 200 Kg WL	Set	24	435	10440	122	2928
5	1.1 kV Pin Insulator with GI Pin	No	96	65	6240	0	0
6	No. 8 Strain Insulator	No	8	25	200	0	0
7	Guy Set Complete with No. 8 Strain Insulator & Concreting materials	Set	8	1179	9432	448	3584
8	Rabbit ACSR Conductor	KM	4.06	61515	249750.9	3299	13394
9	Spiral Earth Electrode	No	25	248	6200	70	1750
10	Guy concreting with Boulders, Mud and Sand	No	8	0	0	200	1600
11	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	25	93	2325	32	800
Total Cost				Material		Labour	
				376205		50978	
Total Cost/KM in Rs. (Material & Labour)		427183					

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 9

Running LT, 3 Phase 4 Wire Power Line on 9 Mtr Supports Using RABBIT ACSR Conductor with an Average Span of 40 Mtr

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9 Mtr Long, 145 Kg WL	No	1	7153	7153	1341	1341
2	PSCC Pole - 9 Mtr Long, 200 Kg WL	No	24	4276	102624	1341	32184
3	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for RCC Pole - 9 Mtr Long, 145 Kg WL	Set	1	439	439	122	122
4	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL	Set	24	435	10440	122	2928
5	1.1 kV Pin Insulator with GI Pin	No	96	65	6240	0	0
6	No. 8 Strain Insulator	No	8	25	200	0	0
7	Guy Set Complete with No. 8 Strain Insulator & Concreting materials	Set	8	1179	9432	448	3584
8	Rabbit ACSR Conductor	KM	4.06	61515	249751	3299	13394
9	Spiral Earth Electrode	No	25	248	6200	70	1750
10	Guy concreting with Boulders, Mud and Sand	No	8	0	0	200	1600
11	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	25	93	2325	32	800
	Total Cost				Material		Labour
					394804		57703
	Total Cost/KM in Rs. (Material & Labour)				452507		

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 10

Running LT, 3 Phase 5 Wire for Power Line on 9 Mtr Supports Using RABBIT ACSR Conductor for Phase, Neutral and WEASEL Conductor for Street Light with an Average Span of 40 Mtr (For Cities, Towns and Residential Layouts)

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9 Mtr Long, 145 Kg WL (for Deadend, Anchor points)	No	6	7153	42918	1341	8046
2	PSCC Pole - 9 Mtr Long, 200 Kg WL (for Intermediate Pole)	No	19	4276	81244	1341	25479
3	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for RCC Pole - 9 Mtr Long, 145 Kg WL	Set	7	439	3073	122	854
4	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL	Set	22	435	9570	122	2684
5	LT 2 Pin Cross Arm with clamps, bolts, nuts for RCC Pole - 9 Mtr Long, 145 Kg WL	Set	7	274	1918	122	854
6	LT 2 Pin Cross Arm with clamps, bolts, nuts for PSCC Pole - 9 Mtr Long, 200 Kg WL	Set	18	270	4860	122	2196
7	1.1 kV Pin Insulator with GI Pin	No	95	65	6175	0	0
8	No. 8 Strain Insulator	No	50	25	1250	0	0
9	Guy Set Complete with No. 8 Strain Insulator & Concreting materials	Set	10	1179	11790	448	4480
10	Rabbit ACSR Conductor	KM	4.06	61515	249751	3299	13394
11	Weasel ACSR Conductor	KM	1.015	37018	37573	2420	2456
12	Spiral Earth Electrode	No	25	248	6200	70	1750
13	Guy concreting with Boulders, Mud and Sand	No	8	0	0	200	1600
14	Sheet Metal/Deep Drawn Street Lighting Metering Box with Automatic Control Swith, Contactors with Single Phase 5-30 Amps Meter & 50/5A CT including wiring	No	1	5954	5954	715	715
15	PVC Pipe 40 mm Dia	Mtr	6	113	678	0	0
16	PVC Insulated wire 25 Sqmm Single Core Multi stranded	Mtr	25	55.76	1394	0	0
17	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	25	93	2325	32	800
	Total Cost			Material		Labour	
				466673		65308	
	Total Cost/KM in Rs. (Material & Labour)			531981			

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 11

Running LT 3 Phase 5 Wire for Power Line on 8 Mtr Supports Using RABBIT ACSR Conductor for Phase, Neutral and WEASEL Conductor for Street Light with an Average Span of 50 Mtr

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 8 Mtr Long, 115 Kg WL (for Deadend, Anchor points.)	No	5	5306	26530	1341	6705
2	PSCC Pole - 8 Mtr Long, 200 Kg WL (for Intermediate Pole)	No	15	3578	53670	1341	20115
3	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for RCC Pole - 8 Mtr Long, 115 Kg WL	Set	5	439	2195	122	610
4	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 8 Mtr Long, 200 Kg WL	Set	20	435	8700	122	2440
5	LT 2 Pin Cross Arm with clamps, bolts, nuts for RCC Pole - 8 Mtr Long, 115 Kg WL	Set	5	274	1370	122	610
6	LT 2 Pin Cross Arm with clamps, bolts, nuts for PSCC Pole - 8 Mtr Long, 200 Kg WL	Set	20	270	5400	122	2440
7	1.1 kV Pin Insulator with GI Pin	No	95	65	6175	0	0
8	No. 8 Strain Insulator	No	50	25	1250	0	0
9	Guy Set Complete with No. 8 Strain Insulator & Concreting materials	Set	8	1179	9432	448	3584
10	Rabbit ACSR Conductor	KM	4.06	61515	249751	3299	13394
11	Weasel ACSR Conductor	KM	1.015	37018	37573	2420	2456
12	Spiral Earth Electrode	No	20	248	4960	70	1400
13	Guy concreting with Boulders, Mud and Sand	No	8	0	0	200	1600
14	Sheet Metal/Deep Drawn Street Lighting Metering Box with Automatic Control Swith, Contactors with Single Phase 5-30 Amps Meter & 50/5A CT including wiring	No	1	5954	5954	715	715
15	PVC Pipe 40 mm Dia	Mtr	6	113	678	0	0
16	PVC Insulated wire 25 Sqmm Single Core Multi Stranded	Mtr	20	55.76	1115	0	0
17	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	25	93	2325	32	800
	Total Cost				Material		Labour
					417078		56869
	Total Cost/KM in Rs. (Material & Labour)				473948		

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 12

**Running LT Single Phase 3 Wire Power Line on 8 Mtr Supports with an Average Span of 40 Mtr
Using WEASEL ACSR Conductor**

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 8 Mtr Long, 115 Kg WL (for Deadend, Anchor points)	No	5	5306	26530	1072	5360
2	PSCC Pole - 8 Mtr Long, 200 Kg WL (for Intermediate Pole)	No	20	3578	71560	1072	21440
3	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for RCC Pole - 8 Mtr Long, 115 Kg WL	Set	5	439	2195	122	610
4	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 8 Mtr Long, 200 Kg WL	Set	25	435	10875	122	3050
5	LT 2 Pin Cross Arm with clamps, bolts, nuts for RCC Pole - 8 Mtr Long, 115 Kg WL	Set	5	274	1370	122	610
6	LT 2 Pin Cross Arm with clamps, bolts, nuts for PSCC Pole - 8 Mtr Long, 200 Kg WL	Set	20	270	5400	122	2440
7	1.1 kV Pin Insulator with GI Pin	No	48	65	3120	0	0
8	No. 8 Strain Insulator	No	21	25	525	0	0
9	Guy Set Complete with No. 8 Strain Insulator & Concreting materials	Set	8	1179	9432	448	3584
10	Weasel ACSR Conductor	KM	3.045	37018	112720	2420	7369
11	Spiral Earth Electrode	No	25	248	6200	70	1750
12	Guy concreting with Boulders, Mud and Sand	No	8	0	0	200	1600
13	Sheet Metal/Deep Drawn Street Lighting Metering Box with Automatic Control Swith, Contactors with Single Phase 5-30 Amps Meter & 50/5A CT including wiring	No	1	5954	5954	715	715
14	PVC Pipe 40 mm Dia	Mtr	6	113	678	0	0
15	PVC Insulated wire 25 Sqmm Single Core Multi Stranded	Mtr	25	55.76	1394	0	0
16	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	25	93	2325	32	800
	Total Cost			Material		Labour	
				260278		49328	
	Total Cost/KM in Rs. (Material & Labour)	309606					

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 13

Running LT, 3 Phase 5 Wire Power Line with Continuous Earth Wire on 9 Mtr Supports Using RABBIT ACSR for Phase, Neutral and WEASEL Conductor for Street Light and 8 SWG GI Wire for Continuous Earth Wire with an Average Span of 40 Mtr in Vertical Configuration

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9 Mtr Long, 145 Kg WL (for Deadend, Anchor points)	No	6	7153	42918	1341	8046
2	PSCC Pole - 9 Mtr Long, 200 Kg WL (for Intermediate Pole)	No	19	4276	81244	1341	25479
3	Fabricated Vertical Cross Arm with clamps, bolts, nuts and washers	Set	30	968	29040	363	10890
4	1.1 kV Pin Insulator with GI Pin	No	100	65	6500	0	0
5	No. 8 Strain Insulator	No	50	25	1250	0	0
6	Guy Set Complete with No. 8 Strain Insulator & Concreting materials	Set	12	1179	14148	448	5376
7	Rabbit ACSR Conductor	KM	4.06	61515	249751	3299	13394
8	Weasel ACSR Conductor	KM	1.015	37018	37573	2420	2456
9	8 SWG GI wire for continuous earth wire	KM	1.015 (103 Kgs)	77.85 per Kg	8019	2420 per KM	2135
10	8 SWG GI wire for guard loops	Kg	26	77.85	2024	0	0
11	Spiral Earth Electrode	No	25	248	6200	70	1750
12	Guy concreting with Boulders, Mud and Sand	No	8	0	0	200	1600
13	Sheet Metal/Deep Drawn Street Lighting Metering Box with Automatic Control Swith, Contactors with Single Phase 5-30 Amps Meter & 50/5A CT including wiring	No	1	5954	5954	715	715
14	PVC Pipe 40 mm Dia	Mtr	6	113	678	0	0
15	PVC Insulated wire 25 Sqmm Single Core Multi Stranded	Mtr	25	55.76	1394	0	0
16	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	25	93	2325	32	800
	Total Cost				Material	Labour	
					489018	72641	
	Total Cost/KM in Rs. (Material & Labour)				561659		

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 14

**Running Single Circuit 11 kV, 3 Phase Power Line on 9 Mtr Supports Using RABBIT ACSR Conductor
With an Average Span of 40 Mtr in Vertical Configuration in Congested Areas**

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9 Mtr Long, 145 Kg WL (for Deadend, Anchor points)	No	1	7153	7153	1341	1341
2	PSCC Pole - 9 Mtr Long, 200 Kg WL (for Intermediate Pole)	No	23	4276	98348	1341	30843
3	DP Structure using RCC Pole - 9 Mtr Long, 145 Kg WL	Set	1	21369	21369	4114	4114
4	Special Cross Arm with Cross Arm for EG Stirrups, braces, clamps, bolts nuts and washers complete	Set	23	1503	34564.4	400	9204.6
5	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	69	221	15249	0	0
6	11 kV, 45 KN Polymeric Insulator	No	6	202	1212	0	0
7	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	9	1209	10881	448	4032
8	Rabbit ACSR Conductor	KM	3.045	61515	187313	3299	10045
9	Spiral Earth Electrode	No	26	248	6448	70	1820
10	EG Stirrups with GI wire lacing	Set/2 Nos	25	287	7175	125	3125
11	Spiral Earth Electrode	No	9	0	0	200	1800
12	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	26	93	2418	32	832
Total Cost				Material		Labour	
				392131		67157	
Total Cost/KM in Rs. (Material & Labour)		459288					

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

	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 - 1 No
	e) RCC Pole Clamps - 5 Nos
	f) Cross Arm for fixing EG Stirrup - 1 No

COST DATA SHEET - 15

Providing 2 Pole Structure at the Tapping Point Using RCC Pole

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	DP Structure using RCC Pole - 9 Mtr Long, 145 Kg WL (Including Cost of Poles)	Set	1	21369	21369	4114	4114
2	DP Structure using RCC Pole - 8 Mtr Long, 115 Kg WL (Including Cost of Poles)	Set	1	17675	17675	3926	3926
3	11 kV, 45 KN Polymeric Insulator	No	6	202	1212	0	0
4	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	2	1209	2418	448	896
5	Spiral Earth Electrode	No	2	248	496	70	140
6	Guy concreting with Boulders, Mud and Sand	No	2	0	0	200	400
7	Caution/Danger Board	No	1	146	146	61	61
8	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	2	93	186	32	64
9	11 kV, 400 Amps Double Break GOS	Set	1	20528	20528	894	894
10	H-Frame for mounting GOS	No	1	4134	4134	242	242
11	DOLO Cut Out	Set/3 Nos	1	5672	5672	178	178
	Total Cost				Material		Labour
	i) using 8 Mtr Pole				52467		6801
	ii) using 9 Mtr Pole				56161		6989
	Total Cost in Rs. (Material & Labour)						
	i) using 8 Mtr Pole				59268		
	ii) using 9 Mtr Pole				63150		

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET -16**Erection of 3 Pole Structure using RCC Pole - 9 Mtr Long, 145 Kg WL**

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	3 Pole Structure complete using RCC Pole - 9 Mtr Long, 145 Kg WL (Including Cost of Pole)	Set	1	36273	36273	7933	7933
2	Spiral Earth Electrode	No	3	248	744	70	210
3	Guy Set With No. 15 Strain Insulator Complete	Set	3	1209	3627	448	1344
4	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	3	221	663	0	0
5	11 kV, 45 KN Polymeric Insulator	No	6	202	1212	0	0
6	Guy concreting with Boulders, Mud and Sand	No	3	0	0	200	600
7	Caution/Danger Board	No	2	146	292	61	122
8	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	3	93	279	32	96
	Total Cost			Material		Labour	
				43090		10305	
	Total Cost in Rs. (Material & Labour)			53395			

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 17**Providing Metering to IP Set Installations Using SMC/MS Box**

SL. No	Particulars	Unit	Qty	Material cost	
				Rate (Rs)	Amt (Rs)
1	LT AC 3 Phase 4 Wire, 5-30 Amps DLMS Complaint Energy Meter, 1.0 Accuracy Class	No	1	2321	2321
2	LT Metering Box for housing the ETV Meter without CT's busbar wiring etc	No	1	3664	3664
3	16 Sqmm Aluminium Single Core/Multi Core of Grade 650/1100V (16 Mtr) (Rs. 40.95/Mtr)	Set	1	655	655.2
4	PVC Pipe of 2 mm Thick, 40 mm Dia	Mtr	4	113	452
5	3 Nos Porcelain Cutouts 60 Amps with Wooden Plank	Set	1	1116	1116
6	Misc materials such as water tight bends and aluminium pins/bullets	LS	LS	-	173
7	Labour Charges (Lump sum)	LS	LS	-	886
Total Cost in Rs. (Material & Labour)					9266

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 18

For laying of 1 KM Length of 11 kV, 3x95 Sqmm XLPE UG Cable Using Horizontal Drilling with 6" Bore Size Without HDPE Pipe

SL. No	Particulars	Unit	Qty	Material cost	
				Rate (Rs)	Amt (Rs)
1	11 kV, 3x95 Sqmm XLPE UG Cable	KM	1	1115615	1115615
2	Straight Through Jointing Kit HS Type suitable for 95 Sqmm Cable	No	3	7129	21387
3	Cable Termination Kit Outdoor HS Type suitable for 95 Sqmm Cable	Per Kit	2	3966	7932
4	Cable Termination Kit Indoor HS Type suitable for 95 Sqmm Cable	Per Kit	2	3651	7302
5	RCC Hume Pipe, 2000 mm Long, 150 mm Dia	No	3	300	900
6	Collars for RCC Hume Pipe	No	2	80	160
7	GI Pipe, 100 mm Dia for drain crossing, cable raising etc.,	Mtr	8	1528	12224
8	Route and Joint Indicating Stones	No	10	130	1300
	Total Material cost				1166820
9	Labour charges				
	a) Laying of cable in trench wherever necessary	Mtr	50	45.284	2264
	b) Labour chargers for horizontal drilling with 6" bore size Without HDPE Pipe	Rmtr	950	706	670700
	c) Making of straight through joint	No	3	2145	6435
	d) Making of cable termination	No	2	1965	3930
	e) Laying of RCC Hume pipe	No	60	51	3060
	f) Laying of GI Pipe	Mtr	8	58	464
	g) Laying of Route and Joint indicating stone	No	20	86	1720
	Total Labour cost				688573
	Total Cost/KM in Rs. (Material & Labour)				1855393
	Add Rates for Refurbication of Roads	As per prevailing rates prescribed by local bodies (Corporations/Municipalities/ VPS as applicable)			
Note:	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtr x 1 Mtr for 2 cables. b) 1 Mtr x 1 Mtr for 3 cables. c) 1.25 Mtr x 1 Mtr for 4 nos. of cables and so on (As per Ltr No. BESCO/BC-14/F-456/4600-18/3704 Dtd 03.07.2004)				
	Where cables are laid using trenchless technology, there may be a necessity to lay the cable in open trench excavation. Hence provision shall be made for both in the estimate and the bills shall be paid as per actual inventory taken.				
	Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.				

COST DATA SHEET - 19

For Laying of 1 KM Length of 11 kV, 3x95 Sqmm XLPE UG Cable Using Conventional Laying with Excavation of Soil

SL. No	Particulars	Unit	Qty	Material cost	
				Rate (Rs)	Amt (Rs)
1	11 kV, 3x95 Sqmm XLPE UG Cable	KM	1	1115615	1115615
2	Straight Through Jointing Kits HS Type suitable for 95 Sqmm Cable	No	3	7129	21387
3	Cable Termination Kit Outdoor HS Type Suitable for 95 Sqmm Cable	Per Kit	1	3966	3966
4	Cable Termination Kit Indoor HS Type Suitable for 95 Sqmm Cable	Per Kit	1	3651	3651
5	Cable covering tiles 250x125x40 mm or 125x125x40 mm	No	4000/ 8000	10/5	40000
6	Artificial/Manufacture Sand	Cmt	60	1488	89280
7	RCC Hume Pipe, 2000 mm Long, 150 mm Dia	No	30	300	9000
8	Collars for RCC Hume Pipe	No	30	80	2400
9	GI Pipe, 100 mm Dia for drain crossing, cable raising etc.,	Mtr	8	1528	12224
10	Route and Joint Indicating Stones	No	20	130	2600
	Total Material Cost				1300123
11	Labour charges				
	a) Cable trench excavation, 1000x0.6x1=600, Ordinary soil	Cmt	600	260	156000
	b) Laying of cable in trench	KM	1	45284	45284
	c) Refilling and consolidation	Cmt	550	58	31900
	d) Making of straight through joint	No	3	2145	6435
	e) Making of cable termination	No	2	1965	3930
	f) Covering the cable with tile	KM	1	3292	3292
	g) Spreading Sand and forming with Sand round the cable	KM	1	11570	11570
	h) Laying of RCC Hume pipe	Mtr	60	51	3060
	i) Laying of GI Pipe	Mtr	8	58	464
	j) Laying of Route and Joint indicating stone	No	20	86	1720
	Total Labour cost				263655
	Total Cost/KM in Rs. (Material & Labour)				1563778
	Add Rates for Refurbication of Roads	As per prevailing rates prescribed by local bodies (Corporations/Municipalities/ VPS as applicable)			
Note:	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtr x 1 Mtr for 2 cables. b) 1 Mtr x 1 Mtr for 3 cables. c) 1.25 Mtr x 1 Mtr for 4 nos. of cables and so on (As per Ltr No. BESCOM/BC-14/F-456/4600-18/3704 Dtd 03.07.2004)				
	Where cables are laid using trenchless technology, there may be a necessity to lay the cable in open trench excavation. Hence provision shall be made for both in the estimate and the bills shall be paid as per actual inventory taken.				
	Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.				

COST DATA SHEET - 20

For Laying of 1 KM Length of 11 kV, 3x240 Sqmm XLPE UG Cable Using Horizontal Drilling with 6" Bore Size Without HDPE Pipe

SL. No	Particulars	Unit	Qty	Material cost	
				Rate (Rs)	Amt (Rs)
1	11 kV, 3x240 Sqmm XLPE UG Cable	KM	1	2069302	2069302
2	Straight Through Jointing Kits HS Type suitable for 240 Sqmm Cable	No	3	8693	26079
3	Cable Termination Kit Outdoor HS Type Suitable for 240 Sqmm Cable	Per Kit	1	5187	5187
4	Cable Termination Kit Indoor HS Type Suitable for 240 Sqmm Cable	Per Kit	1	4575	4575
5	RCC Hume Pipe, 2000 mm Long, 150 mm Dia	No	3	300	900
6	Collars for RCC Hume pipe	No	2	80	160
7	GI Pipe, 100 mm Dia for drain crossing, cable raising etc.,	Mtr	8	1528	12224
8	Route and Joint Indicating Stones	No	10	130	1300
Total Material Cost					2119727
9	Labour charges				
	a) Laying of cable in trench wherever necessary	Mtr	50	47.8	2390
	b) Labour charges for horizontal drilling with 6" bore size Without HDPE Pipe	Rmtr	950	706	670700
	c) Making of straight through joint	No	3	2145	6435
	d) Making of cable termination	No	2	1965	3930
	e) Laying of RCC Hume pipe	No	60	51	3060
	f) Laying of GI Pipe	Mtr	8	58	464
	g) Laying of Route and Joint indicating stone	No	20	86	1720
Total Labour cost					688699
Total Cost/KM in Rs. (Material & Labour)			2808426		
Add Rates for Refurbication of Roads		As per prevailing rates prescribed by local bodies (Corporations/Municipalities/ VPS as applicable)			
Note:	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtr x 1 Mtr for 2 cables. b) 1 Mtr x 1 Mtr for 3 cables. c) 1.25 Mtr x 1 Mtr for 4 nos. of cables and so on (As per Ltr No. BESCO/BC-14/F-456/4600-18/3704 Dtd 03.07.2004)				
Where cables are laid using trenchless technology, there may be a necessity to lay the cable in open trench excavation. Hence provision shall be made for both in the estimate and the bills shall be paid as per actual inventory taken.					
Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.					

COST DATA SHEET - 21

For Laying of 1 KM Length of 11 kV, 3x240 Sqmm XLPE UG Cable Using Conventional Laying with Excavation in Soil

SL. No	Particulars	Unit	Qty	Material cost	
				Rate (Rs)	Amt (Rs)
1	11kV, 3x240 Sqmm XLPE UG Cable	KM	1	2069302	2069302
2	Straight Through Jointing Kits HS Type suitable for 3x240 Sqmm Cable	No	3	8693	26079
3	Cable termination kit Outdoor HS Type Suitable for 3x240 Sqmm Cable	Per Kit	1	5187	5187
4	Cable termination kit Indoor HS Type Suitable for 3x240 Sqmm Cable	Per Kit	1	4575	4575
5	Cable Covering Tiles 250x125x40 mm or 125x125x40 mm	No	4000/ 8000	10/5	40000
6	Artificial/Manufacture Sand	Cmt	60	1488	89280
7	RCC Hume pipe, 2000 mm Long, 150 mm Dia	No	30	300	9000
8	Collars for RCC Hume Pipe	No	30	80	2400
9	GI Pipe, 100 mm Dia for drain crossing, cable raising etc.,	Mtr	8	1528	12224
10	Route and Joint Indicating Stones	No	20	130	2600
	Total Material Cost				2260647
11	Labour charges				
	a) Cable trench excavation, 1000x0.6x1=600, Ordinary soil	Cmt	600	260	156000
	b) Laying of cable in trench	KM	1	47800	47800
	c) Refilling and consolidation	Cmt	550	58	31900
	d) Making of straight through joint	No	3	2145	6435
	e) Making of cable termination	No	2	1965	3930
	f) Covering the cable with tile	KM	1	3292	3292
	g) Spreading Sand and forming with Sand round the cable	KM	1	11570	11570
	h) Laying of RCC Hume pipe	Mtr	60	51	3060
	i) Laying of GI Pipe	Mtr	8	58	464
	j) Laying of Route and Joint indicating stone	No	20	86	1720
	Total Labour cost				266171
	Total Cost/KM in Rs. (Material & Labour)				2526818
	Add Rates for Refurbication of Roads	As per prevailing rates prescribed by local bodies (Corporations/Municipalities/VPS as applicable)			
Note:	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtr x 1 Mtr for 2 cables. b) 1 Mtr x 1 Mtr for 3 cables. c) 1.25 Mtr x 1 Mtr for 4 nos. of cables and so on (As per Ltr No. BESCOM/BC-14/F-456/4600-18/3704 Dtd 03.07.2004)				
	Where cables are laid using trenchless technology, there may be a necessity to lay the cable in open trench excavation. Hence provision shall be made for both in the estimate and the bills shall be paid as per actual inventory taken.				
	Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.				

COST DATA SHEET - 22

For Laying of 1 KM Length of 11 kV, 3x400 Sqmm XLPE UG Cable Using Horizontal Drilling with 6" Bore Size Without HDPE Pipe

SL. No	Particulars	Unit	Qty	Material cost	
				Rate (Rs)	Amt (Rs)
1	11 kV, 3x400 Sqmm XLPE UG Cable	KM	1	3096132	3096132
2	Straight Through Jointing Kits HS Type suitable for 400 Sqmm Cable	No	3	10382	31146
3	Cable Termination Kit Outdoor HS Type Suitable for 400 Sqmm Cable	Per Kit	1	5225	5225
4	Cable Termination Kit Indoor HS Type Suitable for 400 Sqmm Cable	Per Kit	1	4695	4695
5	RCC Hume Pipe, 2000 mm Long, 150 mm Dia	No	3	300	900
6	Collars for RCC Hume pipe	No	2	80	160
7	GI Pipe, 150 mm Dia for drain crossing, cable raising etc.,	Mtr	8	1529	12232
8	Route and Joint Indicating Stones	No	10	130	1300
Total Material Cost					3151790
9	Labour charges				
	a) Laying of cable in trench wherever necessary	Mtr	50	50.314	2516
	b) Labour chargers for horizontal drilling with 6" bore size Without HDPE Pipe	Rmtr	950	706	670700
	c) Making of straight through joint	No	3	2145	6435
	d) Making of cable termination	No	2	1965	3930
	e) Laying of RCC Hume pipe	No	60	51	3060
	f) Laying of GI Pipe	Mtr	8	58	464
	g) Laying of Route and Joint indicating stone	No	20	86	1720
Total Labour cost					688825
Total Cost/KM in Rs. (Material & Labour)					3840615
	Add Rates for Refurbication of Roads	As per prevailing rates prescribed by local bodies (Corporations/Municipalities/ VPS as applicable)			
Note:	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtr x 1 Mtr for 2 cables. b) 1 Mtr x 1 Mtr for 3 cables. c) 1.25 Mtr x 1 Mtr for 4 nos. of cables and so on (As per Ltr No. BESCO/BC-14/F-456/4600-18/3704 Dtd 03.07.2004)				
	Where cables are laid using trenchless technology, there may be a necessity to lay the cable in open trench excavation. Hence provision shall be made for both in the estimate and the bills shall be paid as per actual inventory taken.				
	Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.				

COST DATA SHEET - 23

For laying of 1 KM Length of 11 kV, 3x400 Sqmm XLPE UG Cable Using Conventional Laying with Excavation in Soil

SL. No	Particulars	Unit	Qty	Material cost	
				Rate (Rs)	Amt (Rs)
1	11 kV, 3x400 Sqmm XLPE UG Cable	KM	1	3096132	3096132
2	Straight Through Jointing Kits HS Type suitable for 3x400 Sqmm Cable	No	3	10382	31146
3	Cable Termination Kit Outdoor HS Type Suitable for 3x400 Sqmm Cable	Per Kit	1	5225	5225
4	Cable Termination Kit Indoor HS Type Suitable for 3x400 Sqmm Cable	Per Kit	1	4695	4695
5	Cable Covering Tiles 250x125x40 mm or 125x125x40 mm	No	4000/ 8000	10/5	40000
6	Artificial/Manufacture Sand	Cmt	60	1488	89280
7	RCC Hume Pipe, 2000mm Long, 150mm Dia	No	30	300	9000
8	Collars for RCC Hume Pipe	No	30	80	2400
9	GI Pipe, 150 mm Dia for drain crossing, cable raising etc.,	Mtr	8	1529	12232
10	Route and Joint indicating stones	No	20	130	2600
	Total Material Cost				3292710
11	Labour charges				
	a) Cable trench excavation, 1000x0.6x1=600, Ordinary soil	Cmt	600	260	156000
	b) Laying of cable in trench	KM	1	50314	50314
	c) Refilling and consolidation	Cmt	550	58	31900
	d) Making of straight through joint	No	3	2145	6435
	e) Making of cable termination	No	2	1965	3930
	f) Covering the cable with tile	KM	1	3292	3292
	g) Spreading Sand and forming with Sand round the cable	KM	1	11571	11571
	h) Laying of RCC Hume pipe	Mtr	60	51	3060
	i) Laying of GI Pipe	Mtr	8	58	464
	j) Laying of Route and Joint indicating stone	No	20	86	1720
	Total Labour cost				268686
	Total Cost/KM in Rs. (Material & Labour)			3561396	
	Add Rates for Refurbication of Roads	As per prevailing rates prescribed by local bodies (Corporations/Municipalities/VPS as applicable)			
Note:	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtr x 1 Mtr for 2 cables. b) 1 Mtr x 1 Mtr for 3 cables. c) 1.25 Mtr x 1 Mtr for 4 nos. of cables and so on (As per Ltr No. BESCO/BC-14/F-456/4600-18/3704 Dtd 03.07.2004)				
	Where cables are laid using trenchless technology, there may be a necessity to lay the cable in open trench excavation. Hence provision shall be made for both in the estimate and the bills shall be paid as per actual inventory taken.				
	Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.				

COST DATA SHEET - 24

**Erection of 3 Phase, 11kV/433V, 25 kVA BEE - 4/5 Star Rated Distribution Transformer Centre
Using 9 Mtr RCC Pole DPTC**

Sl No	Particulars	Unit	Qty	25 kVA			
				Material Cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	DP Transformer Structure using RCC Pole - 9 Mtr Long, 145 Kg WL	No	1	32553	32553	5205	5205
2	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	Set	3	221	663	0	0
3	11 kV, 45 KN Polymeric Insulator	Set	3	202	606	0	0
4	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	No	4	1209	4836	448	1792
5	11kV/433V, 25 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 4 Star Rated with Oil	No	1	87950	87950	863	863
6	11kV/433V, 25 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 5 Star Rated with Oil	No	1	102343	102343	863	863
7	Earthing materials pipe type for grounding (Single Electrode with accessories)	Set	3	1733	5199	735	2205
8	Caution/Danger Board	No	1	146	146	61	61
9	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	2	93	186	32	64
10	Guy concreting with Boulders, Mud and Sand	No	4	0	0	200	800
11	GI Wire 8 SWG	Kg	5	77.85	389	0	0
12	Guy wire 7/10 SWG	Kg	10	80.12	801	0	0
13	11 kV Lightning Arrester, Metal oxide, 9 kV, 5 kA Polymeric Type with ground disconnecter	Set/3 Nos	1	1736	1736	90	90
14	a) LT Protection Kit for 25 kVA	No	1	1915	1915	260	260
	b) LT Wiring (From DTC to LT Line Through Metering Box & LT Protection Kit) SINGLE CIRCUIT						
	i) Al Lead Wire - 50 Sqmm	Mtr	25	79.46	1987	719	
	ii) Heavy Duty Long Barrel Copper Lug - 50 Sqmm	No	4	60	240		
	iii) PG Clamp - Rabbit to 50 Sqmm	No	4	116	464		
	iv) Spacer for DTC Wiring	No	8	41	328		
	v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	2	229	458		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	1	6277	6277	650	650
d) LT Electronic Tri-Vector Meter 5 Amps, - 0.5/1.0 Accuracy Class	No	1	3312	3312	798	798	

15	11 kV, Solid Core Type HG Fuse Unit	Set/3 Nos	1	1032	1032	178	178
16	11 kV, 200 Amps, Single Break GOS	Set	1	9125	9125	805	805
	Total Cost						
	i) Using 4 Star Rated Transformer				160203		14490
	ii) Using 5 Star Rated Transformer				174596		14490
	Total Cost in Rs. (Material & Labour)						
	i) Using 4 Star Rated Transformer	174693					
	ii) Using 5 Star Rated Transformer	189086					
<p>Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.</p>							

COST DATA SHEET - 25

Erection of 3 Phase, 11kV/433V, 63 kVA BEE – 4/5 Star Rated Distribution Transformer Centre Using 9 Mtr RCC Pole DPTC							
Sl No	Particulars	Unit	Qty	63 kVA			
				Material Cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	DP Transformer Structure using RCC Pole - 9 Mtr Long, 145 Kg WL	No	1	32553	32553	5205	5205
2	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	Set	3	221	663	0	0
3	11 kV, 45 KN Polymeric Insulator	Set	3	202	606	0	0
4	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	No	4	1209	4836	448	1792
5	11kV/433V, 63 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 4 Star Rated with Oil	No	1	160000	160000	863	863
6	11kV/433V, 63 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 5 Star Rated with Oil	No	1	176257	176257	863	863
7	Earthing materials pipe type for grounding (Single Electrode with accessories)	Set	3	1733	5199	725	2175
8	Caution/Danger Board	No	1	146	146	61	61
9	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	2	93	186	32	64
10	Guy concreting with Boulders, Mud and Sand	No	4	0	0	200	800
11	GI Wire 8 SWG	Kg	5	77.85	389	0	0
12	Guy wire 7/10 SWG	Kg	10	80.12	801	0	0
13	11 kV Lightning Arrester, Metal Oxide 9 kV, 5 kA, Polymetic type with ground disconnecter	Set/3 Nos	1	1736	1736	90	90
14	a) LT Protection Kit for 63 kVA	No	2	1915	3830	260	520
	b) LT Wiring (From DTC to LT Line Through Metering Box & LT Protection Kit) SINGLE CIRCUIT	No					
	i) Al Lead Wire - 95 Sqmm	Mtr	40	140.8	5632	719	
	ii) Heavy Duty Long Barrel Copper Lug - 95 Sqmm	No	4	133	532		
	iii) PG Clamp - Rabbit to 95 Sqmm	No	4	159	636		
	iv) Spacer for DTC Wiring	No	8	41	328		
	v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	2	229	458		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	1	5578	5578	650	650
d) LT Electronic Tri-Vector Meter 5 Amps, -0.5/1.0 Accuracy Class	No	1	3312	3312	798	798	

15	11 kV, Solid Core Type HG Fuse Unit	Set/3 Nos	1	1032	1032	178	178
16	11 kV, 200 Amps, Single Break GOS	Set	1	9125	9125	805	805
	Total Cost				Material		Labour
	i) Using 4 Star Rated Transformer				237578		14720
	ii) Using 5 Star Rated Transformer				253835		14720
	Total Cost in Rs. (Material & Labour)						
	i) Using 4 Star Rated Transformer	252298					
	ii) Using 5 Star Rated Transformer	268555					
<p>Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.</p>							

COST DATA SHEET - 26

Erection of 3 Phase, 11kV/433 V, 100 kVA BEE – 4/5 Star Rated Distribution Transformer Centre Using 9 Mtr RCC Pole DPTC

Sl No	Particulars	Unit	Qty	100 kVA			
				Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	DP Transformer Structure using RCC Pole - 9 Mtr Long, 145 Kg WL	No	1	32553	32553	5205	5205
2	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	Set	3	221	663	0	0
3	11 kV, 45 KN Polymeric Insulator	Set	3	202	606	0	0
4	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	No	4	1209	4836	448	1792
5	11kV/433V, 100 kVA, 3 Phase 50 Cys Distribution Transformer BEE - 4 Star Rated with Oil	No	1	204320	204320	1151	1151
6	11kV/433V, 100 kVA, 3 Phase 50 Cys Distribution Transformer BEE - 5 Star Rated with Oil	No	1	214306	214306	1151	1151
7	Earthing materials pipe type for grounding (Single Electrode with accessories)	Set	3	1733	5199	725	2175
8	Caution/Danger Board	No	1	146	146	61	61
9	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	2	93	186	32	64
10	Guy concreting with Boulders, Mud and Sand	No	4	0	0	200	800
11	GI Wire 8 SWG	Kg	5	77.85	389	0	0
12	Guy wire 7/10 SWG	Kg	10	80.12	801	0	0
13	11 kV Lightning Arrester, Metal Oxide 9 kV, 5 kA Polymetic Type with ground disconnector	Set/3 Nos	1	1736	1736	90	90
14	a) LT Protection Kit for 100 kVA	No	2	1915	3830	260	520
	b) LT Distribution box for 100 kVA with MCB	No	1	22809	22809	576	576
	c) LT Wiring (From DTC to LT Line Through Merering Box & LT Protection Kit/LT Distribution Box) SINGLE CIRCUIT	No					
	i) Al Lead Wire - 120 Sqmm	Mtr	45	180.17	8108	719	
	ii) Heavy Duty Long Barrel Copper Lug - 120 Sqmm	No	12	145	1740		
	iii) PG Clamp - Rabbit to 120 Sqmm	No	4	309	1236		
	iv) Spacer for DTC Wiring	No	8	41	328		
	v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	2	229	458		
	d) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	1	5095	5095	650	650
e) LT Electronic Tri-Vector Meter 5 Amps, -0.5/1.0 Accuracy Class	No	1	3312	3312	798	798	

15	11 kV, Solid Core Type HG Fuse Unit	Set/3 Nos	1	1032	1032	178	178
16	11 kV, 200 Amps, Single Break GOS	Set	1	9125	9125	805	805
	Total Cost	With LT Protection kit				With Distribution Box	
		Material	Labour			Material	Labour
	i) Using 4 Star Rated Transformer	285699	15008			304678	15064
	ii) Using 5 Star Rated Transformer	295685	15008			314664	15064
	Total Cost in Rs. (Material & Labour)						
	i) Using 4 Star Rated Transformer	300707				319742	
	ii) Using 5 Star Rated Transformer	310693				329728	
Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.							

COST DATA SHEET - 27

Erection of 3 Phase, 11kV/433V, 250 kVA 4/5 Star Rated Distribution Transformer Centre Using 9 Mtr RCC Pole DPTC

Sl No	Particulars	Unit	Qty	250 KVA			
				Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	DP Transformer Structure using RCC Pole - 9 Mtr Long, 145 Kg WL	No	1	37594	37594	5361	5361
2	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	Set	3	221	663	0	0
3	11 kV, 45 KN Polymeric Insulator	Set	3	202	606	0	0
4	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	No	4	1209	4836	448	1792
5	11kV/433V, 250 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 4 Star Rated with oil	No	1	426500	426500	1727	1727
6	11kV/433V, 250 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 5 Star Rated with oil	No	1	520500	520500	1727	1727
7	Earthing materials pipe type for grounding (Single Electrode with accessories)	Set	3	1733	5199	725	2175
8	Caution/Danger Board	No	1	146	146	61	61
9	Anti Climbing Device (12 Mtr GI Barbed Wire)	Kg	2	93	186	32	64
10	Guy concreting with Boulders, Mud and Sand	No	4	0	0	200	800
11	GI Wire 8 SWG	Kg	5	77.85	389.25	0	0
12	Guy wire 7/10 SWG	Kg	10	80.12	801.2	0	0
13	11 kV Lightning Arrester, Metal Oxide 9 kV, 5 kA Polymeric type with ground disconnector	Set/3 Nos	1	1736	1736	90	90
14	a) LT Distribution box for 250 kVA with MCCB	No	1	22937	22937	576	576
	b) LT Wiring (From DTC to LT Line via Metering Box & LT Protection Kit) DOUBLE CIRCUIT	No					
	i) Al Lead Wire - 240 Sqmm	Mtr	45	334.64	15058.8	1842	
	ii) Heavy Duty Long Barrel Copper Lug - 240 Sqmm	No	12	368	4416		
	iii) PG Clamp - Rabbit to 240 Sqmm	No	4	465	1860		
	iv) Spacer for DTC Wiring	No	8	41	328		
	v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	2	229	458		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	1	5353	5353	650	650
d) LT Electronic Tri-Vector Meter 5 Amps, -0.5/1.0 Accuracy Class	No	1	3312	3312	798	798	

15	11 kV, Solid Core Type HG Fuse Unit	Set/3 Nos	1	1032	1032	178	178
16	11 kV, 200 Amps, Single Break GOS	Set	1	9125	9125	805	805
	Total Cost				Material		Labour
	i) Using 4 Star Rated Transformer				542536		16919
	ii) Using 5 Star Rated Transformer				636536		16919
	Total Cost in Rs. (Material & Labour)						
	i) Using 4 Star Rated Transformer	559455					
	ii) Using 5 Star Rated Transformer	653455					
<p>Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.</p>							

COST DATA SHEET - 28

Erection of 3 Phase, 11kV/433V, 25 kVA BEE 4/5 Star Rated Single Pole Mounted Transformer Centre on 9 Mtr RCC Pole (Square Section)

Sl. No	Materials	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	9 Mtr long, 150 Kg WL RCC pole (Square Section)	No	1	8226	8226	1741	1741
2	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	3	221	663	0	0
3	11 kV, 45 KN Polymeric Insulator	No	3	202	606	0	0
4	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	1	1209	1209	448	448
5	Single Pole Mounted Transformer (SPMT) Kit for erection of 25 kVA with H Frame	Set	1	12283	12283	1286	1286
6	11 kV/433V, 25 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 4 Star Rated with Oil	No	1	87950	87950	863	863
7	11 kV/433V, 25 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 5 Star Rated with Oil	No	1	102343	102343	863	863
8	Earthing materials pipe type for grounding (Single Electrode with accessories)	Set	3	1733	5199	725	2175
9	Concreting materials for 9 Mtr RCC Square Pole						
	a) Base concreting 1:4:8, 650x650x150 mm	Each	1	0	0	354	354
	b) Pole concreting 1:2:4, 650x650x1700	Each	1	0	0	3956	3956
	c) Coping 1:2:4 (as per actuals)	Each	1	0	0	542	542
10	Guy concreting with Boulders, Mud and Sand	No	1	0	0	200	200
11	GI Wire 8 SWG	Kg	5	77.85	389	0	0
12	Guy Wire 7/10 SWG	Kg	10	80.12	801	0	0
13	11 kV Lightning Arrester, Metal Oxide 9 kV, 5 kA Polymeric Type with ground disconnecter	Set/3 Nos	1	1736	1736	90	90
14	a) LT Protection Kit for 25 kVA	No	1	1915	1915	260	260
	b) LT Wiring (From DTC to LT Line Through Metering Box & LT Protection Kit) SINGLE CIRCUIT	No					
	i) Al Lead Wire - 50 Sqmm	Mtr	25	79.46	1986.5	719	
	ii) Heavy Duty Long Barrel Copper Lug - 50 Sqmm	No	4	60	240		
	iii) PG Clamp - Rabbit to 50 Sqmm	No	4	116	464		
	iv) Spacer for DTC Wiring	No	8	41	328		
	v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	2	229	458		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	1	6277	6277	650	650
d) LT Electronic Tri-Vector Meter 5 Amps, - 0.5/1.0 Accuracy Class	No	1	3312	3312	798	798	

15	11 kV, Solid Core Type HG Fuse Unit	Set/3 Nos	1	1032	1032	178	178
16	11 kV, 200 Amps, Single Break GOS	Set	1	9125	9125	805	805
17	Caution/Danger Board	No	1	146	146	61	61
18	Anti Climbing Device (12 Mtr GI Barbed Wire)	Kg	1	93	93	32	32
	Total Cost				Material		Labour
	i) Using 4 Star Rated Transformer				144439		15158
	ii) Using 5 Star Rated Transformer				158832		15158
	Total Cost in Rs. (Material & Labour)						
	i) Using 4 Star Rated Transformer	159597					
	ii) Using 5 Star Rated Transformer	173990					
<p>Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.</p>							

COST DATA SHEET - 29

Erection of 3 Phase, 11kV/433V, 63 kVA BEE 4/5 Star Rated Single Pole Mounted Transformer Centre on 9 Mtr RCC Pole (Square Section)

Sl. No	Materials	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	9 Mtr long RCC pole (Square Section)	No	1	CDS Will be prepared after approval of DEL			
2	11 KV, 5 KN Polymeric Pin Insulator (24mm Dia FRP Rod)	Nos	3				
3	11 kV, 45 KN Polymeric Insulator	Nos	3				
4	Guy Set Complete with No. 15 Strain Insulator Concreting materials	Set	1				
5	Single Pole TC set suitable for 63 kVA Transformer	Set	1				
6	11kV/433V, 63 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 4 Star Rated with Oil	No	1				
7	11kV/433V, 63 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 5 Star Rated with Oil	No	1				
8	Earthing materials pipe type for grounding (Single Electrode with accessories)	Set	3				
9	Concreting materials for 9 Mtr RCC Pole						
	a) Base concreting 1:4:8, 650x650x150 mm	Each	1				
	b) Pole concreting 1:2:4, 500x500x1650	Each	1				
	c) Coping 1:2:4 (as per actuals)	Each	1				
10	Concreting materials for Guy sets (without cement)	No	1				
11	GI Wire 8 SWG	Kgs	5				
12	Guy Wire 7/10 SWG	Kgs	10				
13	11 kV Lightning Arrester, Metal oxide, 9kV, 5kA Polymeric Type with ground disconnecter	Set/3 Nos	1				
13	a) LT Protection Kit for 63 kVA	Nos	2				
	b) LT Wiring (From DTC to LT Line Through Merering Box & LT Protection Kit) SINGLE CIRCUIT	No	1				
	i) Al Lead Wire - 95 Sqmm	Mtrs	40				
	ii) Heavy Duty Long Barrel Copper Lug - 95 Sqmm	Nos	4				
	iii) PG Clamp - Rabbit to 95 Sqmm	Nos	4				
	iv) Spacer for DTC Wiring	Nos	8				
	v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	Nos	2				
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	1				
d) LT Electronic Tri-Vector Meter 5 Amps, - 0.5/1.0 Accuracy Class	No	1					

14	11 kV, Solid Core Type HG Fuse Unit	Set/3 Nos	1				
15	11kV, 200 Amps, Single Break GOS	Set	1				
16	Caution/Danger Board	No	1				
17	Anti Climbing Device (12 Mtr GI Barbed Wire)	Kg	1				
	Total Cost				Material		Labour
	i) Using 4 Star Rated Transformer				0		0
	ii) Using 5 Star Rated Transformer				0		0
	Total Cost in Rs. (Material & Labour)						
	i) Using 4 Star Rated Transformer	0					
	ii) Using 5 Star Rated Transformer	0					
<p>Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.</p>							

COST DATA SHEET - 30

**Erection of 3 Phase, 11kV/433V, 100 kVA BEE 4/5 Star Rated Single Pole Mounted Transformer
Centre on 9 Mtr RCC Pole (Square Section)**

Sl. No	Materials	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	9 Mtr long RCC pole (Square Section)	No	1	CDS Will be prepared after approval of DEI			
2	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	3				
3	11 kV, 45 KN Polymeric Insulator	No	3				
4	Guy Set Complete with No. 15 strain insulator & Concreting materials	Set	1				
5	Single Pole TC set suitable for 100 kVA Transformer	Set	1				
6	11kV/433V, 100 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 4 Star Rated with Oil	No	1				
7	11kV/433V, 100 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 5 Star Rated with Oil	No	1				
8	Earthing materials pipe type for grounding (Single Electrode with accessories)	No	3				
9	Providing Concreting for 9 Mtr RCC Pole						
	a) Base concreting 1:4:8, 500x650x150 mm	Each	1				
	b) Pole concreting 1:2:4, 500x500x1700	Each	1				
	c) Coping 1:2:4 (as per actuals)	Each	1				
10	Concreting materials for Guy sets (without cement)	No	1				
11	GI Wire 8 SWG	Kg	5				
12	Guy Wire 7/10 SWG	Kg	10				
13	11 kV Lightning Arrester, Metal oxide, 9 kV, 5 kA Polymeric Type with ground disconnecter	Set/3 Nos	1				
14	a) LT Protection Kit	No	2				
	b) LT Distribution Box for 100 kVA with MCB	No	1				
	c) LT Wiring (From DTC to LT Line Through Merering Box & LT Protection Kit/LT Distribution Box) SINGLE CIRCUIT	No	1				
	i) Al Lead Wire - 120 Sqmm	Mtr	45				
	ii) Heavy Duty Long Barrel Copper Lug - 120 Sqmm	No	12				
	iii) PG Clamp - Rabbit to 120 Sqmm	No	4				
	iv) Spacer for DTC Wiring	No	8				
	v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	2				
	d) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	1				
d) LT Electronic Tri-Vector Meter 5 Amps, - 0.5/1.0 Accuracy Class	No	1					

15	11 kV, Solid Core Type HG Fuse Unit	Set/3 Nos	1				
16	11kV, 200 Amps, Single Break GOS	Set	1				
17	Caution/Danger Board	No	1				
18	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	1				
	Total Cost	With LT Protection kit				With Distribution Box	
		Material	Labour			Material	Labour
	i) Using 4 Star Rated Transformer	0	0			0	0
	ii) Using 5 Star Rated Transformer	0	0			0	0
	Total Cost in Rs. (Material & Labour)						
	i) Using 4 Star Rated Transformer	0				0	
	ii) Using 5 Star Rated Transformer	0				0	
Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.							

COST DATA SHEET - 31

Erection of 3 Phase, 11 kV/433V, 250 kVA Transformer mounting structure on 11 Mtr Spun Pole with 3 GOS System and Transformer mounted on Plinth (Cost of Separate Masonry Platform for mounting transformer shall be extra)

Sl No.	Materials	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	Spun pole 11 Mtr Long	No	1	18140	18140	3337	3337
2	Single Pole Transformer Structure Kit with Three H Frames without transformer seating and seating Angle support cross arm for 63/100/250/500 kVA (UG Cable) MS	Set	1	22098	22098	2571	2571
3	HT Single Top Support with bolts, nuts & washers	Set	9	143	1287	81	729
4	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	9	221	1989	0	0
5	Rabbit ACSR Conductor for jumps	Mtr	50	61.52	3076	0	0
6	Alkathene Tube 19 mm Dia and in coils of 30 Mtr	Coil	2	504	1008	0	0
7	Concreting materials for 11 Mtrs Spun Pole						
	a) Base concreting 1:4:8, 1000x1000x150 mm	Each	1	0	0	840	840
	b) Pole concreting 1:2:4, 1000x1000x2500 mm	Each	1	0	0	14004	14004
	c) Coping 1:2:4 (as per actuals)	Each	1	0	0	2220	2220
8	GI Wire 10 SWG	Kg	5	77.85	389	0	0
9	Guy Wire 7/10 SWG	Kg	10	80.12	801	0	0
10	GI Pipe 100 mm Dia	Mtr	10	1528	15280	0	0
11	PVC Pipe 150 mm Dia	Mtr	20	534	10680	0	0
12	PVC Bend 150 mm Dia	No	8	183	1464	0	0
13	PVC Pipe 25 mm Dia	Mtr	40	80	3200	0	0
14	11 kV/433V, 250 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 4 Star Rated with oil	No	1	426500	426500	1727	1727
15	11 kV/433V, 250 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 5 Star Rated with oil	No	1	520500	520500	1727	1727
16	11 kV, Solid Core Type HG Fuse Unit	Set/3 Nos	1	1032	1032	178	178
17	11 kV, 200 Amps, Single Break GOS	Set	3	9125	27375	805	2415
18	Earthing materials pipe type for grounding (Single Electrode with accessories)	Set	3	1733	5199	725	2175

	a) LT Distribution Box for 250 kVA with MCCB	No	1	22937	22937	501	501
	b) LT Wiring (From DTC to LT Line via Metering Box & LT Protection Kit) DOUBLE CIRCUIT						
19	i) Al Lead Wire - 240 Sqmm	Mtr	90	334.64	30118		1842
	ii) Heavy Duty Long Barrel Copper Lug - 240 Sqmm	No	24	368	8832		
	iii) PG Clamp - Rabbit to 240 Sqmm	No	8	465	3720		
	iv) Spacers for DTC Wiring	No	16	41	656		
	v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	4	229	916		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	1	5353	5353		
	d) LT Electronic Tri-Vector Meter 5 Amps, - 0.5/1.0 Accuracy Class	No	1	3312	3312	798	798
20	11 kV, Lightning Arrester, Metal oxide, 9 kV, 5 kA Polymeric Type with ground disconnecter	Set/ 3 Nos	1	1736	1736	90	90
21	PVC Insulation Tape in rolls of 10 Mtr	Roll	3	14	42	0	0
22	Horizontal Cross Arm	No	4	390	1560	0	0
23	MS Fish plate	No	9	81	729	0	0
24	Caution/Danger Board	No	1	146	146	61	61
25	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	2	93	186	32	64
	Total Cost				Material		Labour
	i) Using 4 Star Rated Transformer				619761		34202
	ii) Using 5 Star Rated Transformer				713761		34202
	Total Cost in Rs. (Material & Labour)						
	i) Using 4 Star Rated Transformer	653963					
	ii) Using 5 Star Rated Transformer	747963					
Note:	Cost of providing separate masonry/concrete platform for mounting the Distribution Transformer shall be added as per site requirements						
	Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.						

COST DATA SHEET - 32											
Providing Compact RMU 11 kV Class SF6/VCB Type (1 Incomer + 2 Breaker + 1 Outgoing)											
Sl. No	Materials	Unit	Rate (Rs)	At Common CSR Rate							
				Qty	Amt (Rs)	Qty	Amt (Rs)	Qty	Amt (Rs)	Qty	Amt (Rs)
1	RMU 4 Way, (2OD + 2VL), One Incomer + Two Breaker + One out going, 350 MVA, 630 Amps	Set	780000	1	780000	1	780000	1	780000	1	780000
2	Bed Concreting with CC 1:2:4 as per Labour Charges	CMT	6096	0.15	914	0.37	2256	0.53	3231	0.64	3901
3	Foundation with Reinforcement CC 1:2:4 as per Labour Charges	CMT	6096	0.65	3962	1.44	8778	0.56	3414	0	0
4	Providing Reinforcement as per Labour Charges	Quintal	6471	40	258840	14	90594	23	148833	0	0
5	Providing Plinth with CC 1:2:4 on the Stone Masonary	CMT	6096	0	0	0	0	0	0	0.08	488
6	Construction of Stone Masonary	CMT	4663	0	0	0	0	0	0	0.57	2658
7	Supplying of Frame of MS Channel 100x50 mm and MS angle 40x40x5 mm welding etc., complete.	Kg	70	50	3500	50	3500	50	3500	50	3500
8	Rod type earthing with 40 mm Dia, 3 Mtr long MS rod as per specification & drawing (enclosed)	No	2253	2	4506	2	4506	2	4506	2	4506
9	Lettering the RMU with enamel paint and also writing single line diagram of each panel, caution Board, Danger Board etc., including cost of Paint, Brush etc.,	No	754	1	754	1	754	1	754	1	754
Total cost of material					1052477		890388		944238		795807
Labour											
1	Earth Excavation for RMU Foundation depositing of earth on bank up to a lead of 50 Mtr and with a lift up to 1.5 Mtr	CMT	217	1.29	280	3.33	723	2.63	570.71	5.72	1241
2	Labour charges for Fixing foundation frame of MS channel 100x50 mm and MS angle 40x40x5 mm welding, fixing in concrete, aligning the RMU on foundation bed, assembly of units, connecting Bus Bars from panel to panel etc., complete.	No	3588	4	14352	4	14352	4	14352	4	14352
Total Labour Charges					14632		15075		14923		15593
Total Cost in Rs. (Material & Labour)					1067109		905462		959160		811400
Note:-	The measurements for Earth work and concreting works have been provision as per the dimensions of the equipments of makes which are in use at present in BESCOM. Detail for the measurement are furnished in the data sheet.										

COST DATA SHEET - 33

Providing Compact RMU 11 kV Class SF6/VCB Type (1 Incomer + 1 Breaker +1 Outgoing)

Sl. No	Materials	Unit	Rate (Rs)	Schenider Make		ABB Make		Siemens Make		MEI	
				Qty	Amt (Rs)	Qty	Amt (Rs)	Qty	Amt (Rs)	Qty	Amt (Rs)
	Material										
1	RMU 3 Way, (2OD + 1VL) One Incomer + One Breakers + One outgoing, 350 MVA, 630 Amps	Set	552500	1	552500	1	552500	1	552500	1	552500
2	Bed Conceting with CC 1:2:4 as per Labour Charges	CMT	6096	0.08	488	0.28	1707	0.43	2621	0.48	2926
3	Foundation with Reinforcement CC 1:2:4 as per Labour Charges	CMT	6096	0.36	2195	1.08	6584	0.42	2560	0	0
4	Providing Reinforcement as per Labour Charges	Quintal	6471	30	194130	10	64710	17	110007	0	0
5	Providing Plinth with CC 1:2:4 on the Stone Masonary	CMT	6096	0	0	0	0	0	0	0.06	366
6	Construction of Stone Masonary	CMT	4663	0	0	0	0	0	0	0.43	2005
7	Supplying of Frame of MS Channel 100x50 mm and MS angle 40x40x5 mm welding etc., complete.	Kg	70	40	2800	40	2800	40	2800	40	2800
8	Rod type earthing with 40 mm Dia, 3 Mtr long MS rod as per specification & drawing (enclosed)	No	2253	2	4506	2	4506	2	4506	2	4506
9	Lettering the RMU with enamel paint and also writing single line diagram of each panel, caution Board, Danger Board etc., including cost of Paint, Brush etc.,	No	754	1	754	1	754	1	754	1	754
	Total cost of material				757372		633561		675749		565857
	Labour										
1	Earth Excavation for RMU Foundation depositing of earth on bank up to a lead of 50 Mtr and with a lift up to 1.5 Mtr	CMT	217	0.72	156.24	2.5	542.5	2	434	4.35	944
2	Labour charges for Fixing foundation frame of MS channel 100x50 mm and MS angle 40x40x5 mm welding, fixing in concrete, aligning the RMU on foundation bed, assembly of units, connecting Bus Bars from panel to panel etc., complete.	No	3588	3	10764	3	10764	3	10764	3	10764
	Total Labour Charges				10920		11307		11198		11708
	Total Cost in Rs. (Material & Labour)				768292		644867		686947		577565
Note:-	The measurements for Earth work and concreting works have been provision as per the dimensions of the equipments of makes which are in use at present in BESCOC. Detail for the measurement are furnished in the data sheet.										

COST DATA SHEET - 34											
Providing Compact RMU 11 kV Class SF6/VCB Type (1 OD)											
Sl. No	Materials	Unit	Rate (Rs)	Schenider Make		ABB Make		Siemens Make		MEI Make	
				Qty	Amt (Rs)	Qty	Amt (Rs)	Qty	Amt (Rs)	Qty	Amt (Rs)
	Material										
1	RMU 1 OD, 350 MVA, 630 Amps	No	195000	1	195000	1	195000	1	195000	1	195000
2	Bed Concreting with CC 1:2:4 as per Labour Charges	CMT	6096	0.07	426.72	0.09	548.64	0.1	609.6	0.16	975.36
3	Foundation with Reinforcement CC 1:2:4 as per Labour Charges	CMT	6096	0.29	1767.84	0.36	2194.56	0.14	853.44	0	0
4	Providing Reinforcement as per Labour Charges	Quintal	6471	10	64710	3.5	22648.5	6	38826	0	0
5	Providing Plinth with CC 1:2:4 on the Stone Masonary	CMT	6096	0	0	0	0	0	0	0.02	121.92
6	Construction of Stone Masonary	CMT	4663	0	0	0	0	0	0	0.14	652.82
7	Supplying of Frame of MS Channel 100x50 mm and MS angle 40x40x5 mm welding etc., complete.	Kgs	70	12	840	12	840	12	840	12	840
8	Rod type earthing with 40 mm Dia, 3 Mtr long MS rod as per specification & drawing (enclosed)	No	2253	2	4506	2	4506	2	4506	2	4506
9	Lettering the RMU with enamel paint and also writing single line diagram of each panel, caution Board, Danger Board etc., including cost of Paint, Brush etc.,	No	754	1	754	1	754	1	754	1	754
	Total cost of material				268005		226492		241389		202850
	Labour										
1	Earth Excavation for RMU Foundation depositing of earth on bank up to a lead of 50 Mtr and with a lift up to 1.5 Mtr	CMT	217	0.57	124	0.83	180	0.63	137	1.37	297
2	Labour charges for Fixing foundation frame of MS channel 100x50 mm and MS angle 40x40x5 mm welding, fixing in concrete, aligning the RMU on foundation bed, assembly of units, connecting Bus Bars from panel to panel etc., complete.	No	3588	1	3588	1	3588	1	3588	1	3588
	Total Labour Charges				3712		3768		3725		3885
	Total Cost in Rs. (Material & Labour)				271716		230260		245114		206735
Note:-	The measurements for Earth work and concreting works have been provision as per the dimensions of the equipments of makes which are in use at present in BESCO. Detail for the measurement are furnished in the data sheet.										

COST DATA SHEET - 35

Providing Compact RMU 11 kV Class SF6/VCB Type (1 VL)

Sl. No	Materials	Unit	Rate (Rs)	Schenider Make		ABB Make		Siemens Make		MEI Make	
				Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
	Material										
1	RMU 1 VL, 350 MVA, 630 Amps	No	195000	1	195000	1	195000	1	195000	1	195000
2	Bed Concreting with CC 1:2:4 as per Labour Charges	CMT	6096	0.07	426.72	0.09	548.64	0.1	609.6	0.16	975.36
3	Foundation with Reinforcement CC 1:2:4 as per Labour Charges	CMT	6096	0.29	1767.84	0.36	2194.56	0.14	853.44	0	0
4	Providing Reinforcement as per Labour Charges	Kg	6471	10	64710	3.5	22648.5	6	38826	0	0
5	Providing Plinth with CC 1:2:4 on the Stone Masonary	CMT	6096	0	0	0	0	0	0	0.02	121.92
6	Construction of Stone Masonary	CMT	4663	0	0	0	0	0	0	0.14	652.82
7	Supplying of Frame of MS Channel 100x50mm and MS angle 40x40x5mm welding etc., complete.	Kg	70	12	840	12	840	12	840	12	840
8	Rod type earthing with 40 mm Dia, 3 Mtr long MS rod as per specification & drawing (enclosed)	No	2253	2	4506	2	4506	2	4506	2	4506
9	Lettering the RMU with enamel paint and also writing single line diagram of each panel, caution Board, Danger Board etc., including cost of Paint, Brush etc.,	No	754	1	754	1	754	1	754	1	754
	Total cost of material				268005		226492		241389		202850
	Labour										
1	Earth Excavation for RMU Foundation depositing of earth on bank up to a lead of 50 Mtr and with a lift up to 1.5 Mtr	CMT	217	0.57	123.69	0.83	180.11	0.63	136.71	1.37	297.29
2	Labour charges for Fixing foundation frame of MS channel 100x50 mm and MS angle 40x40x5 mm welding, fixing in concrete, aligning the RMU on foundation bed, assembly of units, connecting Bus Bars from panel to panel etc., complete.	No	3588	1	3588	1	3588	1	3588	1	3588
	Total Labour Charges				3712		3768		3725		3885
	Total Cost in Rs. (Material & Labour)				271716		230260		245114		206735
Note:-	The measurements for Earth work and concreting works have been provision as per the dimensions of the equipments of makes which are in use at present in BESCO. Detail for the measurement are furnished in the data sheet.										

COST DATA SHEET - 36 (AB CABLE)

**Running Single Circuit 11 kV, 3 Phase Power Line on 9 Mtr Supports with an Average Span of 30 Mtr
Using 3x95 Sqmm + 1x70 Sqmm Aerial Bunched Cables (ABC)**

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9 Mtr Long, 145 kg WL	No	10	7153	71530	1341	13410
2	PSCC Poles - 9 Mtr Long, 200 Kg WL	No	24	4276	102624	1341	32184
3	11 kV, 3 Phase Aerial Bunched Cable 3x95 + 70 Sqmm	KM	1.03	1070523	1102639	25839	26614.17
4	Cable Straight thru' joint kits suitable for 95 Sqmm	Set/3 Nos	6	7494	44964	1048	6288
5	11 kV AB Cable Termination Kits for 95 to 120 Sqmm	Set/3 Nos	6	2785	16710	886	5316
6	Suspension Clamp Assembly 16 to 70 mm (Excluding pole clamp & Eye Hook)	Set	30	216	6480	146	4380
7	Pole clamp for HT/LT AB cable	Set	30	113	3390	243	7290
8	Eye Hook (Flat type) for fixing Clamps	Set	30	99	2970	0	0
9	Dead End Clamp/Anchor Clamp Assembly 16 to 70 Sqmm (excluding pole clamps and Eye hook)	Set	12	227	2724	194	2328
10	End Caps	No	10	22	220	7	70
11	11 kV Lightning Arrester, Metal Oxide 9 kV, 5 kA Polymeric Type with ground disconnecter	Set/3 Nos	2	1736	3472	90	180
12	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	6	1209	7254	448	2688
13	Guy concreting with Boulders, Mud and Sand	Set	6	0	0	200	1200
14	Grounding connection for messenger wire	No	4	13	52	33	132
15	Spiral Earth Electrodes	No	34	248	8432	70	2380
	Total Cost				Material		Labour
					1373461		104460
	Total Cost/KM in Rs. (Material & Labour)				1477921		

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 37 (AB CABLE)

Running Single Circuit 1.1 kV, 3 Phase 5 Wire Power Line on 9 Mtr Supports with Average Span of 40 Mtr Using 3x95 + 1x16 + 1x70 Sqmm Aerial Bunched Cables (ABC)

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9 Mtr Long, 145 kg WL	No	10	7153	71530	1341	13410
2	PSCC Poles - 9 Mtr Long, 200 Kg WL	No	15	4276	64140	1341	20115
3	1.1 kV, 3 Phase Aerial Bunched Cable of size 3x95+1x16+1x70 Sqmm	KM	1.03	598403	616355	25839	26614
4	Three Phase Distribution box for 6 Connections	No	20	2341	46820	681	13620
5	Piercing connector suitable for 16 Sqmm - 95 Sqmm AB Cable - Service Connections	No	80	259	20720	98	7840
6	Piercing connector suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connections	No	50	182	9100	68	3400
7	Suspension Clamp Assembly 16 to 70 mm (Excluding pole clamp & Eye Hook)	Set	20	216	4320	146	2920
8	Pole clamp for HT/LT AB cable	Set	20	113	2260	243	4860
9	Eye Hook (Flat type) for fixing Clamps	Set	20	99	1980	0	0
10	Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sqmm (excluding pole clamps and Eye hook)	Set	16	149	2384	194	3104
11	Universal Hook, Bolts & nuts	No	16	345	5520	146	2336
12	T-connector KZ3 95	No	20	383	7660	164	3280
13	Cable Straight thru' joints suitable for 95 Sqmm LT ABC	No	5	410	2050	194	970
14	Pre-Insulated lugs - CPTAU for 95 Sqmm	No	8	383	3064	202	1616
15	End cap for 50/70 Sqmm	No	50	22	1100	7	350
16	Guy Set Complete with No. 8 Strain Insulator & Concreting materials	Set	8	1179	9432	448	3584
17	Guy concreting with Boulders, Mud and Sand	Set	8	0	0	200	1600
18	PVC Insulated wire 25 Sqmm	Mtr	400	55.76	22304	0	0
19	Spiral Earth Electrodes	No	25	248	6200	70	1750
	Total Cost			Material		Labour	
				98094		37610	
	Total Cost/KM in Rs. (Material & Labour)	135704					

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 38

Providing Compact Pre - Fabricated Packaged Sub - Station 11kV/433V

Sl No	Particulars	Unit	Total Cost
1	Compact Pre - Fabricated Packaged Sub - Station 11kv/433V consisting of 3 way SF6/VCB insulated compact RMU, oil cooled CRGO/Amoprhous Core Star - 2 Rated (5 - Star) Transformer and LT section with one MCCB/ACB as incoming and following ougoing MCCB feeders and with enclosure made of electronically Galvanized steel sheet (min 2 mm Thickness) with powder coated finish, Cu bus bar with LT Metering facility		
a	100 kVA Al. Wound Transformer, 250 Amps MCCB 50 kA 4 pole fixed type micro processor based for LT incomer and 2 Nos. 100 Amps MCCB 4 pole 36 kA TM Based for out going	Set	1680900
b	250 kVA Al. Wound Transformer, 400 Amps MCCB 50 kA 4 pole fixed type micro processor based for LT incomer and 3 Nos. 250 Amps MCCB 4 pole 36 kA TM Based for out going	Set	2151500
c	500 kVA Al. Wound Transformer, 800 Amps ACB 50 kA 4 pole fixed type micro processor based for LT incomer and 4 Nos. 250 Amps MCCB 4 pole 36 kA TM Based for out going	Set	2828800
d	800 kVA Copper Wound Transformer, 1250 Amps ACB 50 kA 4 pole fixed type micro processor based for LT incomer and 6 Nos. 250 Amps MCCB 4 pole 36 kA TM Based for LT out going	Set	3510000
e	1000 kVA Copper Wound Transformer, 1600 Amps ACB 50 kA 4 pole fixed type micro processor based for LT incomer and 2 Nos. 400 Amps MCCB + 4 No. 250 Amps MCCB 4 pole 36 kA TM Based for LT out going.	Set	4325100
2	Installing & fixing the compact pre-fabricated packaged sub-station with 100/250/500/800/1000 kVA transformer on the existing concrete plinth.(This does not include the cost of plinth, cable duct,laying & termination of cable etc. provision for the same shall be made	Labour	12104
Note:	Note: Labour charges and installing the CSS is not furnished as the platform size cable duct Laying & Termination varies from Make/Capacity and hence estimate has to be prepared as per actual field/site condition		

COST DATA SHEET - 39

Providing Electronic Trivector Meters with Associated CT's Metering Box etc., on LT Side of Distribution Transformer Center

Sl. No	Materials	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	LT CT's - 0.5 Accuracy Class Ring Type Ratio 50/5 for 15/25 kVA DTC	No	3	871	2613	79	237
2	LT CT's 0.5 Accuracy Class Ring Type Ratio 100/5 for 50/63 kVA DTC	No	3	638	1914	79	237
3	LT CT's 0.5 Accuracy Class Ring Type Ratio 150/5 for 100 kVA DTC	No	3	477	1431	79	237
4	LT CT's 0.5 Accuracy Class Ring Type Ratio 400/5 for 250 kVA DTC	No	3	563	1689	79	237
5	LT CT's 0.5 Accuracy Class Ring Type Ratio 800/5 for 500 kVA DTC	No	3	633	1899	79	237
6	Electronic Trivector Meter 3 Phase, 4 Wire, 0.5 Accuracy Class	No	1	3312	3312	798	798
7	Weather Proof, Verming Proof LT Metering Box with clamping arrangement for mounting on the Transformer structure with necessary terminal strip and CT mounting arrangement for housing the ETV Meters and connecting to the existing ground.	No	1	3664	3664	413	413
Total Cost in Rs.				With Meter		Without Meter	
	a) 15/25 kVA DTC			9589	1448	6277	650
	b) 63 kVA DTC			8890	1448	5578	650
	c) 100 kVA DTC			8407	1448	5095	650
	d) 250 kVA DTC			8665	1448	5353	650
	e) 500 kVA DTC			8875	1448	5563	650

COST DATA SHEET - 40

**Carrying Out 1 to 2 (ONE to TWO) Poles Works in respect of Ganga Kalyana and
Drinking Water Supply Works only
(not applicable for works awarded on tender/RC)
(Not applicable for any other type of work)**

SL. No	Paritculars	Unit	Qty	Consolidated Amount in Rs.
	PART-A (Materials)			
1	Material cost Estimate shall be prepared as per site requirement			
	PART-B (Labour)			
2	Consolidated labour charges involving 1 to 2 (ONE to TWO) pole works for Ganga Kalyana and Drinking Water supply works only.	LS	LS	11169

Note:-

1. The labour charges includes all works such as digging of pits, Erection of Poles, Fixing of Cross Arms, Stringing of conductor, fixing of Conductor accessories, insulators, Fixing guy sets, Anti climbing device, spiral earth electrode and danger board etc complete

2. No other labour charges or any other charges towards special locality allowance LC Charges, additional labour charges, transportation charges etc., are payable.

3. Estimate shall not split to bring them into this category

4. Certificate has to be furnished by the section officer who prepares the estimate that the estimates are not split to claim the above labour charges

5. The above rates are not applicable for works awarded on tender

COST DATA SHEET - 41

**Carrying Out 3 to 5 (THREE to FIVE) Poles Works in respect of
Ganga Kalyana and Drinking Water Supply Works only
(not applicable for works awarded on tender/RC)
(Not applicable for any other type of work)**

SL. No	Paritculars	Unit	Qty	Consolidated Amount in Rs.
	PART-A (Materials)			
1	Material cost Estimate shall be prepared as per site requirement			
	PART-B (Labour)			
2	Consolidated labour charges involving 3 to 5 (THREE to FIVE) pole works for Ganga Kalyana and Drinking Water supply works only.	LS	LS	17646

Note:-

1. The labour charges includes all works such as digging of pits, Erection of Poles, Fixing of Cross Arms, Strining of conductor, fixing of Conductore accessories, insulators, Fixing guy sets, Anti climbing device, spiral earth electrode and danger board etc complete

2. No other labour charges or any other charges towards special locality allowance LC Charges, additional labour charges, transportation charges etc., are payable.

3. Estimate shall not split to bring them into this category

4. Certificate has to be furnished by the section officer who prepares the estimate that the estimates are not split to claim the above labour charges

5. The above rates are not applicable for works awarded on tender

COST DATA SHEET - 42

Carrying out 1 to 4 (ONE to FOUR) poles works in respect of Service Main Connection and E&I Works only
(not applicable for works awarded on tender/RC)
(Not applicable for any other type of work)

SL. No	Particulars	Unit	No. of Pole Works Involved	Consolidated Amount in Rs.
	PART-A (Materials)			
1	Material cost Estimate shall be prepared as per site requirement			
	PART-B (Labour)			
2	Consolidated labour charges for works 1 to 4 (ONE to FOUR) poles including excavation of pit, pole erection, fixing of cross arms, stringing of conductor, fixing of conductor accessories, fixing guy sets, fixing of anti climbing device, spiral earth electrode, danger board etc if any (Applicable for both HT & LT Line)	Nos	1	5361
		Nos	2	7147
		Nos	3	8934
		Nos	4	10721
			5 & Above	as per Common SR 2021-22

Note:-

1. The labour charges includes all works such as digging of pits, Erection of Poles, Fixing of Cross Arms, Stringing of conductor, fixing of Conductore accessories, insulators, Fixing guy sets, Anti climbing device, spiral earth electrode and danger board etc complete

2. No other labour charges or any other charges towards special locality allowance LC Charges, additional labour charges, transportation charges etc., are payable.

3. Estimate shall not split to bring them into this category

4. Certificate has to be furnished by the section officer who prepares the estimate that the estimates are not split to claim the above labour charges

5. The above rates are not applicable for works awarded on tender

COST DATA SHEET - 43

Consolidated Labour charges for shifting of conductor terminations and all other fittings existing on the deteriorated pole while replacing termination (cut point) poles (Does not include labour chages for releasing and erection of pole) (not applicable for works awarded on tender/RC)

Sl. No.	Description of the work	Unit	Labour charges of the work
1	Consolidated Labour charges for shifting of the conductor terminations (existing cut points) in deteriorated existing poles to new poles erected. Work includes all works associated with shifting of the terminations, like shifting of aerial fuse boards, cut outs, service main (UG cable and over head) and any other existing fitting.	Per Pole	3795

NOTE: The above rates are not applicable for works awarded on tender/RC

COST DATA SHEET - 44

**Consolidated Labour charges for shifting of conductor and all other fittings existing on the deteriorated pole while replacing intermediate poles (Does not include labour chages for releasing and erection of pole)
(not applicable for works awarded on tender/RC)**

Sl. No.	Description of the work	Unit	Labour charges of the work
1	Consolidated Labour charges for shifting of the existing conductor, including all works associated with shifting of the conductor such as any fittings, aerial fuse boards, cut outs, service main (UG cable and over head) etc., on the existing deteriorated intermediate pole to new pole erected.	Per Pole	2783

NOTE: The above rates are not applicable for works awarded on tender/RC

COST DATA SHEET - 45**Standard Requirement of Materials for providing LT Wiring for Distribution Transformer Centers of various capacities****LT Wiring for - 250/500 kVA**

Sl No	Material	Unit	Rate/Unit (in Rs)
1	Al Lead Wire - 240 Sqmm	Mtr	334.64
2	Heavy Duty Long Barrel Copper Lug - 240 Sqmm	No	368
3	PG Clamps - Rabbit to 240 Sqmm	No	465
4	Spacers for DTC Wiring	No	41
5	Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	229

LT Wiring for - 100 kVA

Sl No	Material	Unit	Rate/Unit (in Rs)
1	Al Lead Wire - 120 Sqmm	Mtr	180.17
2	Heavy Duty Long Barrel Copper Lug - 120 Sqmm	No	145
3	PG Clamps - Rabbit to 120 Sqmm	No	309
4	Spacers for DTC Wiring	No	41
5	Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	229

LT Wiring for - 63 kVA

Sl No	Material	Unit	Rate/Unit (in Rs)
1	Al Lead Wire - 95 Sqmm	Mtr	140.8
2	Heavy Duty Long Barrel Copper Lug - 95 Sqmm	No	133
3	PG Clamps - Rabbit to 95 Sqmm	No	159
4	Spacers for DTC Wiring	No	41
5	Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	229

LT Wiring for - 25 KVA

Sl No	Material	Unit	Rate/Unit (in Rs)
1	Al Lead Wire - 50 Sqmm	Mtr	79.46
2	Heavy Duty Long Barrel Copper Lug - 50 Sqmm	No	60
3	PG Clamps - Rabbit to 50 Sqmm	No	116
4	Spacers for DTC Wiring	No	41
5	Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	229

NOTE:

1. The size of the lead wire provisioned are as per Standard requirement depending on the Ampere rating of the transformer.

2. The Size of the cable mabe modified to suite field requirement where ever necessary.

3. Estimate shall be prepared for actual quantity as per field requirements.

COST DATA SHEET - 46

Running Single Circuit 11 kV, 3 Phase Power Line On 9 Mtr Supports With An Average Span Of 40 Mtr Using Rabbit ACSR Conductor and PSCC Pole - 9 Mtr Long, 300 Kg WL for dead ends and DP structure

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtr Long, 300 Kg WL	No	1	5050	5050	1341	1341
2	PSCC Pole - 9 Mtr Long, 200 Kg WL	No	23	4276	98348	1341	30843
3	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 300 Kg WL	Set	1	671	671	122	122
4	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL	Set	23	664	15272	122	2806
5	DP Structure using PSCC Pole - 9 Mtr Long, 300 Kg WL	Set	1	17163	17163	4114	4114
6	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	72	221	15912	0	0
7	11 kV, 45 KN Polymeric Insulator	No	6	202	1212	0	0
8	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	6	1209	7254	440	2640
9	Rabbit ACSR Conductor	KM	3.045	61515	187313	3299	10045
10	PG Clamps for Rabbit Conductor	No	6	116	696	0	0
11	Spiral Earth Electrode	No	26	248	6448	70	1820
12	EG Stirrups with GI wire lacing	Set/2 Nos	24	287	6888	125	3000
13	Guy concreting with Boulders, Mud and Sand	No	6	0	0	200	1200
14	Caution/Danger Board	No	8	146	1168	61	488
15	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	26	93	2418	32	832
Total Cost				Material		Labour	
				365813		59251	
Total Cost/KM in Rs. (Material & Labour)		425065					

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 47

Running Single Circuit 11 kV, 3 Phase Power Line on 9 Mtr Supports with an Average Span of 50 Mtr Using Rabbit ACSR Conductor and PSCC Pole - 9 Mtr Long, 300 Kg WL for dead ends and DP structure

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtr Long, 300 Kg WL	No	1	5050	5050	1341	1341
2	PSCC Pole - 9 Mtr Long, 200 Kg WL	No	18	4276	76968	1341	24138
3	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 300 Kg WL	Set	1	671	671	122	122
4	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL	Set	18	664	11952	122	2196
5	DP Structure using PSCC Pole - 9 Mtr Long, 300 Kg WL	Set	1	17163	17163	4114	4114
6	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	57	221	12597	0	0
7	11 kV, 45 KN Polymeric Insulator	No	6	202	1212	0	0
8	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	6	1209	7254	440	2640
9	Rabbit ACSR Conductor	KM	3.045	61515	187313	3299	10045
10	PG Clamps for Rabbit conductor	No	6	116	696	0	0
11	Spiral Earth Electrode	No	21	248	5208	70	1470
12	EG Stirrups with GI wire lacing	Set/2 Nos	19	287	5453	125	2375
13	Guy concreting with Boulders, Mud and Sand	No	6	0	0	200	1200
14	Caution/Danger Board	No	6	146	876	61	366
15	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	21	93	1953	32	672
	Total Cost			Material		Labour	
				334366		50679	
	Total Cost/KM in Rs. (Material & Labour)			385046			

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 48

Running Single Circuit 11 kV, 3 Phase Power Line on 9 Mtr Supports with an Average Span of 40 Mtr Using COYOTE ACSR conductor and PSCC Pole - 9 Mtr Long, 300 Kg WL for dead ends and DP structure

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtr Long, 300 kg WL	No	1	5050	5050	1341	1341
2	PSCC Pole - 9 Mtr Long, 200 kg WL	No	22	4276	94072	1341	29502
3	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 300 kg WL	Set	1	671	671	122	122
4	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 kg WL	Set	22	664	14608	122	2684
5	DP Structure using PSCC Pole - 9 Mtr Long, 300 kg WL	Set	2	17163	34326	4114	8228
6	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	69	221	15249	0	0
7	70/90 kN Disc Insulator	No	12	325	3900	0	0
8	Strain Clamp 3 bolt type for Disc Insulator	No	12	741	8892	0	0
9	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	6	1209	7254	448	2688
10	Coyote ACSR Conductor	KM	3.045	152940	465702	5763	17548
11	PG Clamps for Coyote Conductor	No	12	404	4848	0	0
12	Spiral Earth Electrode	No	27	248	6696	70	1890
13	EG Stirrups with GI wire lacing	Set/2 Nos	23	287	6601	125	2875
14	Guy concreting with Boulders, Mud and Sand	No	6	0	0	200	1200
15	Caution/Danger Board	No	10	146	1460	61	610
16	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	27	93	2511	32	864
	Total Cost				Material		Labour
					671840		69552
	Total Cost/KM in Rs. (Material & Labour)				741393		

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 49

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 Mtr using RABBIT Conductor for HT and WEASEL for LT Lines and using PSCC Pole - 9 Mtr Long, 300 Kg WL for dead ends and DP structure

Sl No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtr Long, 300 Kg WL	No	1	5050	5050	1341	1341
2	PSCC Pole - 9 Mts Long, 200 Kg WL	No	18	4276	76968	1341	24138
3	11 kV, Horizontal Cross Arm with clamps, HTST Supports, bolts, nuts and washers for PSCC Pole - 9 Mts Long, 300 Kg WL	Set	1	671	671	122	122
4	11 kV, Horizontal Cross Arm with clamps, HTST Supports, bolts, nuts and washers for PSCC Pole - 9 Mts Long, 200 Kg WL	Set	18	664	11952	122	2196
5	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 300 Kg WL	Set	1	442	442	122	122
6	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 9 Mts Long, 200 Kg WL	Set	19	435	8265	122	2318
7	DP Structure using PSCC Pole - 9 Mts Long, 300 Kg WL	Set	1	17163	17163	4114	4114
8	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	57	221	12597	0	0
9	1.1 kV Pin Insulator with GI Pin	No	76	65	4940	0	0
10	11 kV, 45 KN Polymeric Insulator	No	6	202	1212	0	0
11	No. 8 Strain Insulator	No	8	25	200	0	0
12	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	8	1209	9672	448	3584
13	Rabbit ACSR for HT Line	KM	3.045	61515	187313	3299	10045
14	Weasel ACSR for LT line	KM	4.06	37018	150293	2420	9825
15	Spiral Earth Electrode	No	21	248	5208	70	1470
16	Guarding between HT & LT Line				0		0
	a) Guarding Material (Rs. 98/Mtr)	Span	20	4900	98000	1340	26800
	b) 4 Pin Cross Arm with clamps, bolts, nuts and washers for guarding	Set	20	435	8700	0	0
17	PG Clamps for Rabbit conductor	No	6	116	696	0	0
18	Guy concreting with Boulders, Mud and Sand	No	8	0	0	200	1600
19	Caution/Danger Board	No	6	146	876	61	366
20	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	21	93	1953	32	672
	Total Cost				Material		Labour
					602171		88714
	Total Cost/KM in Rs. (Material & Labour)				690885		

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 50

Running Single Circuit 11 kV, 3 Phase Power Line & 3 Phase 4 Wire Secondary Line on 9 Mtr Supports with an Average Span of 40 Mtr Using RABBIT ACSR conductor for HT & LT Lines and using PSCC Pole - 9 Mtr Long, 300 Kg WL for dead ends and DP structure

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtr Long, 300 Kg WL	No	1	5050	5050	1341	1341
2	PSCC Pole - 9 Mtr Long, 200 Kg WL	No	23	4276	98348	1341	30843
3	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 300 Kg WL	Set	1	671	671	122	122
4	11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL	Set	23	664	15272	122	2806
5	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 300 Kg WL	Set	1	442	442	122	122
6	LT 4 Pin cross arm with clamps, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL	Set	24	435	10440	122	2928
7	DP Structure using PSCC Pole - 9 Mtr Long, 300 Kg WL	Set	1	17163	17163	4114	4114
8	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	72	221	15912	0	0
9	1.1 kV Pin Insulator with GI Pin	No	96	65	6240	0	0
10	11 kV, 45 KN Polymeric Insulator	No	6	202	1212	0	0
11	No. 8 Strain Insulator	No	8	25	200	0	0
12	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	8	1209	9672	448	3584
13	Rabbit ACSR Conductor	KM	7.105	61515	437064	3299	23439
14	PG Clamps for Rabbit conductor	No	6	116	696	0	0
15	Spiral Earth Electrode	No	26	248	6448	70	1820
16	Guarding between HT & LT Lines				0		0
	a) Guarding Material (Rs. 98/Mtr)	Span	25	3920	98000	762	19050
	b) 4 Pin cross arm with clamps, bolts, nuts and washers.	Set	25	435	10875	0	0
17	Guy concreting with Boulders, Mud and Sand	No	8	0	0	200	1600
18	Caution/Danger Board	No	8	146	1168	61	488
19	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	26	93	2418	32	832
	Total Cost				Material		Labour
					737291		93089
	Total Cost/KM in Rs. (Material & Labour)				830380		

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 51

Running LT, 3 Phase 4 Wire Power Line on 9 Mtr Supports Using RABBIT ACSR Conductor with an Average Span of 40 Mtr and using PSCC Pole - 9 Mtr Long, 300 Kg WL for dead ends and DP structure

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtr Long, 300 Kg WL	No	1	5050	5050	1341	1341
2	PSCC Pole - 9 Mtr Long, 200 Kg WL	No	24	4276	102624	1341	32184
3	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 300 Kg WL	Set	1	442	442	122	122
4	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL	Set	24	435	10440	122	2928
5	1.1 kV Pin Insulator with GI Pin	No	96	65	6240	0	0
6	No. 8 Strain Insulator	No	8	25	200	0	0
7	Guy Set Complete with No. 8 Strain Insulator & Concreting materials	Set	8	1179	9432	448	3584
8	Rabbit ACSR Conductor	KM	4.06	61515	249751	3299	13393.94
9	Spiral Earth Electrode	No	25	248	6200	70	1750
10	Guy concreting with Boulders, Mud and Sand	No	8	0	0	200	1600
11	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	25	93	2325	32	800
	Total Cost				Material	Labour	
					392704	57703	
	Total Cost/KM in Rs. (Material & Labour)				450407		

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 52

Running LT, 3 Phase 4 Wire Power Line on 8 Mtr Supports Using RABBIT ACSR Conductor with an Average Span of 40 Mtr and Using PSCC Pole - 8 Mtr Long, 200 Kg WL for dead ends, anchor points and DP structure

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 8 Mtr Long, 200 Kg WL	No	25	3578	89450	1072	26800
2	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers	Set	25	435	10875	122	3050
3	1.1 kV Pin Insulator with GI Pin	No	96	65	6240	0	0
4	No. 8 Strain Insulator	No	8	25	200	0	0
5	Guy Set Complete with No. 8 Strain Insulator & Concreting materials	Set	8	1179	9432	448	3584
6	Rabbit ACSR Conductor	KM	4.06	61515	249751	3299	13394
7	Spiral Earth Electrode	No	25	248	6200	70	1750
8	Guy concreting with Boulders, Mud and Sand	No	8	0	0	200	1600
9	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	25	93	2325	32	800
	Total Cost			Material		Labour	
				374473		50978	
	Total Cost/KM in Rs. (Material & Labour)			425451			

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 53

Running LT, 3 Phase 5 Wire for Power Line on 9 Mtr Supports Using RABBIT ACSR Conductor for Phase, Neutral and WEASEL Conductor for Street Light with an Average Span of 40 Mtr and Using PSCC Pole - 9 Mtr Long, 300 Kg WL for dead ends and Anchor Points (For Cities, Towns and Residential Layouts)

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtr Long, 300 Kg WL (for Deadend, Anchor points)	No	6	5050	30300	1341	8046
2	PSCC Pole - 9 Mtr Long, 200 Kg WL (for Intermediate Pole)	No	19	4276	81244	1341	25479
3	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 300 Kg WL	Set	7	442	3094	122	854
4	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL	Set	22	435	9570	122	2684
5	LT 2 Pin Cross Arm with clamps, bolts, nuts for PSCC Pole - 9 Mtr Long, 300 Kg WL	Set	7	277	1939	122	854
6	LT 2 Pin Cross Arm with clamps, bolts, nuts for PSCC Pole - 9 Mtr Long, 200 Kg WL	Set	18	270	4860	122	2196
7	1.1 kV Pin Insulator with GI Pin	No	95	65	6175	0	0
8	No. 8 Strain Insulator	No	50	25	1250	0	0
9	Guy Set Complete with No. 8 Strain Insulator & Concreting materials	Set	10	1179	11790	448	4480
10	Rabbit ACSR Conductor	KM	4.06	61515	249751	3299	13394
11	Weasel ACSR Conductor	KM	1.015	37018	37573	2420	2456
12	Spiral Earth Electrode	No	25	248	6200	70	1750
13	Guy concreting with Boulders, Mud and Sand	No	8	0	0	200	1600
14	Sheet Metal/Deep Drawn Street Light Metering Box with Automatic Control Swith, Contactors with Single Phase 5-30 Amps meter & 50/5A CT including wiring	No	1	5954	5954	715	715
15	PVC Pipe 40 mm Dia	Mtr	6	113	678	0	0
16	PVC Insulated wire 25 Sqmm Single Core Multi stranded	Mtr	25	55.76	1394	0	0
17	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	25	93	2325	32	800
Total Cost				Material		Labour	
				454097		65308	
Total Cost/KM in Rs. (Material & Labour)		519405					

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 54

Running LT, 3 Phase 5 Wire for Power Line on 8 Mtr Supports Using RABBIT ACSR Conductor for Phase, Neutral and WEASEL Conductor for Street Light with an Average Span of 40 Mtr and using PSCC Pole - 8 Mtrs Long, 200 Kg WL for dead ends and Anchor Points (For Cities, Towns and Residential Layouts)

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 8 Mtr Long, 200 Kg WL	No	25	3578	89450	1072	26800
2	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers	Set	26	435	11310	122	3172
3	LT 2 Pin Cross Arm with clamps, bolts, nuts and washers	Set	25	270	6750	122	3050
4	1.1 kV Pin Insulator with GI Pin	No	95	65	6175	0	0
5	No. 8 Strain Insulator	No	50	25	1250	0	0
6	Guy Set Complete with No. 8 Strain Insulator & Concreting materials	Set	10	1179	11790	448	4480
7	Rabbit ACSR Conductor	KM	4.06	61515	249751	3299	13394
8	Weasel ACSR Conductor	KM	1.02	37018	37573	2420	2456
9	Spiral Earth Electrode	No	25	248	6200	70	1750
10	Guy concreting with Boulders, Mud and Sand	No	8	0	0	200	1600
11	Sheet Metal/Deep Drawn Street Light Metering Box with Automatic Control Swith, Contactors with Single Phase 5-30 Amps meter & 50/5A CT including wiring	No	1	5954	5954	715	715
12	PVC Pipe 40 mm Dia	Mtr	6	113	678	0	0
13	PVC Insulated wire 25 Sqmm Single Core Multi stranded	Mtr	25	55.76	1394	0	0
14	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	25	93	2325	32	800
	Total Cost				Material		Labour
					430600		58217
	Total Cost/KM in Rs. (Material & Labour)				488817		
Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.							

COST DATA SHEET - 55

Running LT, 3 Phase 5 Wire Power Line with Continuous Earth Wire on 9 Mtr Supports Using RABBIT ACSR for Phase, Neutral and WEASEL Conductor for Street Light and 8 SWG GI Wire for Continuous Earth Wire with an Average Span of 40 Mtr in Vertical Configuration and using PSCC Pole - 9 Mtr Long, 300 Kg WL for dead ends and Anchor Points

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtr Long, 300 Kg WL (for Deadend, Anchor points)	No	6	5050	30300	1341	8046
2	PSCC Pole -9 Mtr Long, 200 Kg WL (for Intermediate Pole)	No	19	4276	81244	1341	25479
3	Fabricated Vertical Cross Arms with clamps, bolts, nuts and washers	Set	30	968	29040	363	10890
4	1.1 kV Pin Insulator with GI Pin	No	100	65	6500	0	0
5	No. 8 Strain Insulator	No	50	25	1250	0	0
6	Guy Set Complete with No. 8 Strain Insulator & Concreting materials	Set	12	1179	14148	448	5376
7	Rabbit ACSR Conductor	KM	4.06	61515	249751	3299	13394
8	Weasel ACSR Conductor	KM	1.015	37018	37573	2420	2456
9	8 SWG GI wire for continuous earth wire	KM	1.015 (103 Kgs)	77.85 per Kg	8019	2420 per KM	2456
10	8 SWG GI wire for guard loops	Kgs	26	77.85	2024	0	0
11	Spiral Earth Electrode	Nos	25	248	6200	70	1750
12	Guy concreting with Boulders, Mud and Sand	Nos	8	0	0	200	1600
13	Sheet Metal/Deep Drawn Street Light Metering Box with Automatic Control Swith, Contactors with Single Phase 5-30 Amps meter & 50/5A CT including wiring	Nos	1	5954	5954	715	715
14	PVC Pipe 40 mm Dia	Mtrs	6	113	678	0	0
15	PVC Insulated wire 25 Sqmm Single Core Multi Stranded	Mtrs	25	55.76	1394	0	0
16	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	25	93	2325	32	800
	Total Cost			Material		Labour	
				364856		39437	
	Total Cost/KM in Rs. (Material & Labour)			404293			

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 56

Running Single Circuit 11 kV, 3 Phase Power Line on 9 Mtr Supports Using RABBIT ACSR Conductor and using PSCC Pole - 9 Mtr Long, 300 Kg WL for dead ends and Anchor Points, With an Average Span of 40 Mtr in Vertical Configuration in Congested Areas

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtr Long, 300 Kg WL (for Deadend, Anchor points)	No	1	5050	5050	1341	1341
2	PSCC Pole - 9 Mtr Long, 200 Kg WL (for Intermediate Pole)	No	23	4276	98348	1341	30843
3	DP Structure using PSCC Pole - 9 Mtr Long, 300 Kg WL	Set	1	17163	17163	4114	4114
4	Special cross arm with cross arm for EG Stirrups, braces, clamps, bolts nuts and washers complete	Set	23	1156	26588	348	8004
5	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	69	221	15249	0	0
6	11 kV, 45 KN Polymeric Insulator	No	6	202	1212	0	0
7	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	9	1209	10881	448	4032
8	Rabbit ACSR Conductor	KM	3.045	61515	187313	3299	10045
9	Spiral Earth Electrode	No	26	284	7384	70	1820
10	EG Stirrups with GI wire lacing	Set/2 Nos	25	287	7175	125	3125
11	Guy concreting with Boulders, Mud and Sand	No	9	0	0	200	1800
12	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	26	93	2418	32	832
	Total Cost			Material		Labour	
				378781		65956	
	Total Cost/KM in Rs. (Material & Labour)			444738			
Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.							
	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 - 1 No						
	e) RCC Pole Clamps - 5 Nos						
	f) Cross Arm for fixing EG Stirrup - 1 No						

COST DATA SHEET - 57

Providing 2 Pole Structures at the Tapping Point Using PSCC Pole - 9 Mtr Long, 300 Kg WL

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	DP Structure using PSCC Pole - 9 Mtr Long, 300 Kg WL (Including Cost of Poles)	Set	1	17163	17163	4114	4114
2	11 kV, 45 KN Polymeric Insulator	No	6	202	1212	0	0
3	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	2	1209	2418	448	896
4	Spiral Earth Electrode	No	2	248	496	70	140
5	Guy concreting with Boulders, Mud and Sand	No	2	0	0	200	400
6	Caution/Danger Board	No	1	146	146	61	61
7	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	2	93	186	32	64
8	11 kV, 400 Amps Double Break GOS	Set	1	20528	20528	894	894
9	H-Frame for mounting GOS	No	1	4134	4134	242	242
10	DOLO Cut Out	Set/3 Nos	1	5672	5672	178	178
Total Cost				Material		Labour	
				51955		6989	
Total Cost in Rs. (Material & Labour)		58944					

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 58

Providing 3 Pole Structure using PSCC Pole - 9 Mtr Long, 300 Kg WL

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	3 Pole Structure complete using PSCC Pole - 9 Mtr Long, 300 Kg WL (Including Cost of Poles)	Set	1	29964	29964	7933	7933
2	Spiral Earth Electrode	No	3	248	744	70	210
3	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	3	1209	3627	448	1344
4	11 kV, 45 kN Polymeric Insulator	No	6	202	1212	0	0
5	11 kV, 5 kN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	3	221	663	0	0
6	Guy concreting with Boulders, Mud and Sand	No	3	0	0	200	600
7	Caution/Danger Board	No	2	146	292	61	122
8	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	3	93	279	32	96
	Total Cost			Material		Labour	
				36781		10305	
	Total Cost in Rs. (Material & Labour)			47086			

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 59

Erection of 3 Phase, 11kV/433V, 25 kVA BEE – 4/5 Star Rated Distribution Transformer Centre Using DPTS Using PSCC Pole - 9 Mtr Long, 300 Kg WL

SI No	Particulars	Unit	Qty	25 KVA			
				Material Cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	DP Transformer Structure using PSCC Pole - 9 Mtr Long, 300 Kg WL (Including Cost of Poles)	No	1	28518	28518	5205	5205
2	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	Set	3	221	663	0	0
3	11 kV, 45 KN Polymeric Insulator	Set	3	202	606	0	0
4	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	No	4	1209	4836	448	1792
5	11 kV/433V, 25 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 4 Star Rated with Oil	No	1	87950	87950	863	863
6	11 kV/433V, 25 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 5 Star Rated with Oil	No	1	102343	102343	863	863
7	Earthing materials pipe type for grounding (Single Electrode with accessories)	Set	3	1733	5199	725	2175
8	Caution/Danger Board	No	1	146	146	61	61
9	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	2	93	186	32	64
10	Concreting for Guy sets without cement	No	4	0	0	200	800
11	GI Wire 8 SWG	Kg	5	77.85	389.25	0	0
12	Guy wire 7/10 SWG	Kg	10	80.12	801.2	0	0
13	11 kV Lightning Arrester, Metal oxide, 9 kV, 5 kA Polymeric Type with ground disconnecter	Set/3 Nos	1	1736	1736	90	90
14	a) LT Protection Kit for 25 kVA	No	1	1915	1915	260	260
	b) LT Wiring (From DTC to LT Line Through Metering Box & LT Protection Kit) SINGLE CIRCUIT	No	1				
	i) Al Lead Wire - 50 Sqmm	Mtr	25	79.46	1986.5		
	ii) Heavy Duty Long Barrel Copper Lug - 50 Sqmm	No	4	60	240		
	iii) PG Clamp - Rabbit to 50 Sqmm	No	4	116	464		719
	iv) Spacer for DTC Wiring	No	8	41	328		
	v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	2	229	458		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	1	6277	6277	650	650
d) LT Electronic Tri-Vector Meter 5 Amps, - 0.5/1.0 Accuracy Class	No	1	3312	3312	748	748	

15	11 kV, Solid Core Type HG Fuse Unit	Set/3 Nos	1	1032	1032	178	178
16	11 kV, 200 Amps, Single Break GOS	Set	1	9125	9125	805	805
	Total				Material		Labour
	i) Using 4 Star Rated Transformer				156168		14410
	ii) Using 5 Star Rated Transformer				170561		14410
	Total Cost in Rs. (Material & Labour)						
	i) Using 4 Star Rated Transformer	170578					
	ii) Using 5 Star Rated Transformer	184971					
Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.							

COST DATA SHEET - 60

Erection of 3 Phase, 11kV/433V, 63 kVA BEE – 4/5 Star Rated Distribution Transformer Centre Using DPTS Using PSCC Pole - 9 Mtr Long, 300 Kg WL

Sl No	Particulars	Unit	Qty	63 KVA			
				Material Cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	DP Transformer Structure using PSCC Pole - 9 Mtr Long, 300 Kg WL (Including Cost of Poles)	No	1	28518	28518	4527	4527
2	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	Set	3	221	663	0	0
3	11 kV, 45 KN Polymeric Insulator	Set	3	202	606	0	0
4	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	No	4	1209	4836	390	1560
5	11 kV/433V, 63 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 4 Star Rated with Oil	No	1	160000	160000	750	750
6	11 kV/433V, 63 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 5 Star Rated with Oil	No	1	176257	176257	750	750
7	Earthing materials pipe type for grounding (Single Electrode with accessories)	Set	3	1733	5199	631	1893
8	Caution/Danger Board	No	1	146	146	53	53
9	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	2	93	186	28	56
10	Guy concreting with Boulders, Mud and Sand	No	4	0	0	174	696
11	GI Wire 8 SWG	Kg	5	77.85	389.25	0	0
12	Guy wire 7/10 SWG	Kg	10	80.12	801.2	0	0
13	11 kV Lightning Arrester, Metal Oxide 9 kV, 5 kA, Polymeric type with ground disconnecter	Set/3 Nos	1	1736	1736	78	78
14	a) LT Protection Kit for 63 kVA	No	2	1915	3830	260	520
	b) LT Wiring (From DTC to LT Line Through Metering Box & LT Protection Kit) SINGLE CIRCUIT	No					
	i) Al Lead Wire - 95 Sqmm	Mtr	40	140.8	5632		
	ii) Heavy Duty Long Barrel Copper Lug - 95 Sqmm	No	4	133	532		
	iii) PG Clamp - Rabbit to 95 Sqmm	No	4	159	636		719
	iv) Spacer for DTC Wiring	No	8	41	328		
	v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	2	229	458		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	1	5578	5578	650	650
d) LT Electronic Tri-Vector Meter 5 Amps, - 0.5/1.0 Accuracy Class	No	1	3312	3312	798	798	

15	11 kV, Solid Core Type HG Fuse Unit	Set/3 Nos	1	1032	1032	178	178
16	11 kV, 200 Amps, Single Break GOS	Set	1	9125	9125	805	805
	Total Cost				Material		Labour
	i) Using 4 Star Rated Transformer				233543		13283
	ii) Using 5 Star Rated Transformer				249800		13283
	Total Cost = (Material & Labour)						
	i) Using 4 Star Rated Transformer	246826					
	ii) Using 5 Star Rated Transformer	263083					
Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.							

COST DATA SHEET - 61

Erection of 3 Phase, 11kV/433V, 100 kVA BEE – 4/5 Star Rated Distribution Transformer Centre Using DPTS Using PSCC Pole - 9 Mtr Long, 300 Kg WL

Sl No	Particulars	Unit	Qty	100 KVA			
				Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	DP Transformer Structure using PSCC Pole - 9 Mtr Long, 300 Kg WL (Including Cost of Poles)	No	1	28518	28518	5205	5205
2	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	Set	3	221	663	0	0
3	11 kV, 45 KN Polymeric Insulator	Set	3	202	606	0	0
4	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	No	4	1209	4836	1151	4604
5	11 kV/433V, 100 kVA, 3 Phase 50 Cys Distribution Transformer BEE - 4 Star Rated with Oil	No	1	204320	204320	1151	1151
6	11 kV/433V, 100 kVA, 3 Phase 50 Cys Distribution Transformer BEE - 5 Star Rated with Oil	No	1	214306	214306	1151	1151
7	Earthing materials pipe type for grounding (Single Electrode with accessories)	Set	3	1733	5199	725	2175
8	Caution/Danger Board	No	1	146	146	61	61
9	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	2	93	186	32	64
10	Guy concreting with Boulders, Mud and Sand	No	4	0	0	200	800
11	GI Wire 8 SWG	Kg	5	77.85	389	0	0
12	Guy wire 7/10 SWG	Kg	10	80.12	801	0	0
13	11 kV Lightning Arrester, Metal Oxide 9 kV, 5 kA Polymeric Type with ground disconnector	Set/3 Nos	1	1736	1736	90	90
14	a) LT Protection Kit for 100 kVA	No	2	1915	3830	260	520
	b) LT Distribution box for 100 kVA with MCB	No	1	22809	22809	576	576
	c) LT Wiring (From DTC to LT Line Through Merering Box & LT Protection Kit/LT Distribution Box) SINGLE CIRCUIT	No					
	i) Al Lead Wire - 120 Sqmm	Mtr	45	180.17	8107.65		
	ii) Heavy Duty Long Barrel Copper Lug - 120 Sqmm	No	12	145	1740		
	iii) PG Clamp - Rabbit to 120 Sqmm	No	4	309	1236		
	iv) Spacer for DTC Wiring	No	8	41	328		
	v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	2	229	458		
	d) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	1	5095	5095	650	650
e) LT Electronic Tri-Vector Meter 5 Amps, -0.5/1.0 Accuracy Class	No	1	3312	3312	798	798	

15	11 kV, Solid Core Type HG Fuse Unit	Set/3 Nos	1	1032	1032	178	178
16	11 kV, 200 Amps, Single Break GOS	Set	1	9125	9125	805	805
	Total Cost	With LT Protection kit				With Distribution Box	
		Material	Labour			Material	Labour
	i) Using 4 Star Rated Transformer	281664	17820			300643	17876
	ii) Using 5 Star Rated Transformer	291650	17820			310629	17876
	Total Cost in Rs = (Material + Labour)						
	i) Using 4 Star Rated Transformer	299484				318519	
	ii) Using 5 Star Rated Transformer	309470				328505	

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 62

Erection of 3 Phase, 11kV/433V, 250 kVA BEE – 4/5 Star Rated Distribution Transformer Centre Using DPTS Using PSCC Pole - 9 Mtr Long, 300 Kg WL

Sl No	Particulars	Unit	Qty	250 KVA			
				Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	DP Transformer Structure using PSCC Pole - 9 Mtr Long, 300 Kg WL (Including Cost of Poles)	No	1	33723	33723	5361	5361
2	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	Set	3	221	663	0	0
3	11 kV, 45 KN Polymeric Insulator	Set	3	202	606	0	0
4	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	No	4	1209	4836	448	1792
5	11 kV/433V, 250 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 4 Star Rated with oil	No	1	426500	426500	1727	1727
6	11 kV/433V, 250 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 5 Star Rated with oil	No	1	520500	520500	1727	1727
7	Earthing materials pipe type for grounding (Single Electrode with accessories)	Set	3	1733	5199	725	2175
8	Caution/Danger Board	No	1	146	146	61	61
9	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	2	93	186	32	64
10	Guy concreting with Boulders, Mud and Sand	No	4	0	0	200	800
11	GI Wire 8 SWG	Kg	5	77.85	389.25	0	0
12	Guy wire 7/10 SWG	Kg	10	80.12	801.2	0	0
13	11 kV Lightning Arrester, Metal Oxide 9 kV, 5 kA Polymeric type with ground disconnecter	Set/3 Nos	1	1736	1736	90	90
14	a) LT Distribution box for 250kVA with MCCB	No	1	22937	22937	576	576
	b) LT Wiring (From DTC to LT Line via Metering Box & LT Protection Kit) SINGLE CIRCUIT	No					
	i) Al Lead Wire - 240 Sqmm	Mtr	45	334.64	15058.8	719	
	ii) Heavy Duty Long Barrel Copper Lug - 240 Sqmm	No	12	368	4416		
	iii) PG Clamp - Rabbit to 240 Sqmm	No	4	465	1860		
	iv) Spacer for DTC Wiring	No	8	41	328		
	v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	2	229	458		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	1	5353	5353	650	650
d) LT Electronic Tri-Vector Meter 5 Amps, -0.5/1.0 Accuracy Class	No	1	3312	3312	798	798	

15	11 kV, Solid Core Type HG Fuse Unit	Set/3 Nos	1	1032	1032	178	178
16	11 kV, 200 Amps, Single Break GOS	Set	1	9125	9125	805	805
	Total Cost				Material		Labour
	i) Using 4 Star Rated Transformer				538665		15796
	ii) Using 5 Star Rated Transformer				632665		15796
	Total Cost in Rs. (Material & Labour)						
	i) Using 4 Star Rated Transformer	554461					
	ii) Using 5 Star Rated Transformer	648461					

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 63

**Erection of 3 Phase, 11kV/433V, 25 kVA BEE 4/5 Star Rated Single Pole Mounted Transformer Centre
Using PSCC Pole - 9 Mtr Long, 300 Kg WL**

Sl. No	Materials	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtr Long, 300 Kg WL	No	1	5050	5050	1341	1341
2	11 kV, 5 kN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	3	221	663	0	0
3	11 kV, 45 KN Polymeric Insulator	No	3	202	606	0	0
4	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	1	1209	1209	448	448
5	Single Pole TC set suitable for 25 kVA Transformer with H Frame	Set	1	12722	12722	1993	1993
6	11 kV/433V, 25 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 4 Star Rated with Oil	No	1	87950	87950	863	863
7	11 kV/433V, 25 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 5 Star Rated with Oil	No	1	102343	102343	863	863
8	Earthing materials pipe type for grounding (Single Electrode with accessories)	Set	3	1733	5199	725	2175
9	Concreting materials for 9 Mtr PSCC Pole						
	a) Base concreting 1:4:8, 500x650x150 mm	Each	1	0	0	273	273
	b) Pole concreting 1:2:4, 650x500x1700	Each	1	0	0	3158	3158
	c) Coping 1:2:4 (as per actuals)	Each	1	0	0	542	542
10	Guy concreting with Boulders, Mud and Sand	No	1	0	0	200	200
11	GI Wire 8 SWG	Kg	5	77.85	389	0	0
12	Guy Wire 7/10 SWG	Kg	10	80.12	801	0	0
13	11 kV Lightning Arrester, Metal Oxide 9 kV, 5 kA Polymeric Tpe with ground disconnector	Set/3 Nos	1	1736	1736	90	90
14	a) LT Protection Kit for 25 kVA	No	1	1915	1915	260	260
	b) LT Wiring (From DTC to LT Line Through Metering Box & LT Protection Kit) SINGLE CIRCUIT	No					
	i) Al Lead Wire - 50 Sqmm	Mtr	25	79.46	1987	719	
	ii) Heavy Duty Long Barrel Copper Lug - 50 Sqmm	No	4	60	240		
	iii) PG Clamp - Rabbit to 50 Sqmm	No	4	116	464		
	iv) Spacer for DTC Wiring	No	8	41	328		
	v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	2	229	458		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	1	6277	6277	650	650
d) LT Electronic Tri-Vector Meter 5 Amps, -0.5/1.0 Accuracy Class	No	1	3312	3312	798	798	

15	11 kV, Solid Core Type HG Fuse Unit	Set/3 Nos	1	1032	1032	178	178
16	11 kV, 200 Amps, Single Break GOS	Set	1	9125	9125	805	805
17	Caution/Danger Board	No	1	146	146	61	61
18	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	1	93	93	32	32
	Total Cost				Material		Labour
	i) Using 4 Star Rated Transformer				141701.95		14586
	ii) Using 5 Star Rated Transformer				156094.95		14586
	Total Cost in Rs. (Material & Labour)						
	i) Using 4 Star Rated Transformer	156288					
	ii) Using 5 Star Rated Transformer	170681					
<p>Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.</p>							

COST DATA SHEET - 64

Erection of 3 Phase, 11kV/433V, 63 kVA BEE 4/5 Star Rated Single Pole Mounted Transformer Centre Using PSCC Pole - 9 Mtr Long, 300 Kg WL

Sl. No	Materials	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtr Long, 300 Kg WL	No	1	CDS Will be prepared after approval of DEI			
2	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	3				
3	11 kV, 45 KN Polymeric Insulator	No	3				
4	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	1				
5	Single Pole TC set suitable for 63 kVA Transformer	Set	1				
6	11 kV/433V, 63 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 4 Star Rated with Oil	No	1				
7	11kV/433V, 63 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 5 Star Rated with Oil	No	1				
8	Earthing materials pipe type for grounding (Single Electrode with accessories)	Set	3				
9	Concreting materials for 9 Mtr PSCC Pole						
	a) Base concreting 1:4:8, 500x650x150 mm	Each	1				
	b) Pole concreting 1:2:4, 650x500x1700	Each	1				
	c) Coping 1:2:4 (as per actuals)	Each	1				
10	Concreting materials for Guy sets (without cement)	No	1				
11	GI Wire 8 SWG	Kg	5				
12	Guy Wire 7/10 SWG	Kg	10				
13	11 kV, Lightning Arrester, Metal oxide, 9 kV, 5 kA Polymeric Type with ground disconnecter	Set/3 Nos	1				
14	a) LT Protection Kit for 63 kVA	No	2				
	b) LT Wiring (From DTC to LT Line Through Merering Box & LT Protection Kit) SINGLE CIRCUIT	No	1				
	i) Al Lead Wire - 95 Sqmm	Mtr	40				
	ii) Heavy Duty Long Barrel Copper Lug - 95 Sqmm	No	4				
	iii) PG Clamp - Rabbit to 95 Sqmm	No	4				
	iv) Spacer for DTC Wiring	No	8				
	v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	2				
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	1				
d) LT Electronic Tri-Vector Meter 5 Amps, - 0.5/1.0 Accuracy Class	No	1					
15	11 kV, Solid Core Type HG Fuse Unit	Set/3 Nos	1				

16	11 kV, 200 Amps, Single Break GOS	Set	1				
17	Caution/Danger Board	No	1				
18	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	1				
	Total Cost				Material		Labour
	i) Using 4 Star Rated Transformer				0		0
	ii) Using 5 Star Rated Transformer				0		0
	Total Cost in Rs. (Material & Labour)						
	i) Using 4 Star Rated Transformer	0					
	ii) Using 5 Star Rated Transformer	0					
<p>Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.</p>							

COST DATA SHEET - 65

Erection of 3 Phase, 11kV/433V, 100 kVA BEE 4/5 Star Rated Single Pole Mounted Transformer Centre Using PSCC Pole - 9 Mtr Long, 300 Kg WL

Sl. No	Materials	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtr Long, 300 Kg WL	No	1	CDS Will be prepared after approval of DEI			
2	11 kV, 5 KN Polymeric Pin Insulator (24 mm Dia FRP Rod)	No	3				
3	11 kV, 45 KN Polymeric Insulator	No	3				
4	Guy Set Complete with No. 15 Strain Insulator & Concreting materials	Set	1				
5	Single Pole TC set suitable for 100 kVA Transformer	Set	1				
6	11 kV/433V, 100 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 4 Star Rated with Oil	No	1				
7	11kV/433V, 100 kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 5 Star Rated with Oil	No	1				
8	Earthing materials pipe type for grounding (Single Electrode with accessories)	Set	3				
9	Providing Concreting for 9 Mtr PSCC Pole						
	a) Base concreting 1:4:8, 500x650x150 mm	Each	1				
	b) Pole concreting 1:2:4, 650x500x1700	Each	1				
	c) Coping 1:2:4 (as per actuals)	Each	1				
10	Concreting materials for Guy Set (without cement)	No	1				
11	GI Wire 8 SWG	Kg	5				
12	Guy Wire 7/10 SWG	Kg	10				
13	11 kV, Lightning Arrester, Metal oxide, 9 kV, 5 kA Polymeric Type with ground disconnecter	Set/3 Nos	1				
14	a) LT Protection Kit	No	2				
	b) LT Distribution Box for 100kVA with MCB	No	1				
	c) LT Wiring (From DTC to LT Line Through Merering Box & LT Protection Kit/LT Distribution Box) SINGLE CIRCUIT	No	1				
	i) Al Lead Wire - 120 Sqmm	Mtr	45				
	ii) Heavy Duty Long Barrel Copper Lug - 120 Sqmm	No	12				
	iii) PG Clamp - Rabbit to 120 Sqmm	No	4				
	iv) Spacer for DTC Wiring	No	8				
	v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	2				
	d) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 42)	No	1				
e) LT Electronic Tri-Vector Meter 5 Amps, - 0.5/1.0 Accuracy Class	No	1					

15	11 kV, Solid Core Type HG Fuse Unit	Set/3 Nos	1				
16	11 kV, 200 Amps, Single Break GOS	Set	1				
17	Caution/Danger Board	No	1				
18	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	1				
	Total Cost	With LT Protection kit				With Distribution Box	
		Material	Labour			Material	Labour
	i) Using 4 Star Rated Transformer	0	0			0	0
	ii) Using 5 Star Rated Transformer	0	0			0	0
	Total Cost in Rs. (Material & Labour)						
	i) Using 4 Star Rated Transformer	0				0	
	ii) Using 5 Star Rated Transformer	0				0	
<p>Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.</p>							

COST DATA SHEET - 66

Running Single Circuit 11 kV, 3 Phase Power Line on 9 Mtr Supports with an Average Span of 30 Mtrs Using 3x95 Sqmm + 1x70 Sqmm Aerial Bunched Cables (ABC) using PSCC Pole - 9 Mtr Long, 300 Kg WL for Dead Ends and Anchor Points

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtr Long, 300 Kg WL	No	10	5050	50500	1341	13410
2	PSCC Pole - 9 Mtr Long, 200 Kg WL	No	24	4276	102624	1341	32184
3	11 kV, 3 Phase Aerial Bunched Cable 3x95 + 1x70 Sqmm	KM	1.03	1070523	1102638.69	25839	26614.17
4	Cable Straight thru' joint kits suitable for 95 Sqmm	Set/3 Nos	6	7494	44964	1048	6288
5	11 kV AB Cable Termination Kits fo 95 to 120 Sqmm	Set/3 Nos	6	2785	16710	886	5316
6	Suspension Clamp Assembly 16 to 70 mm (Excluding pole clamp & Eye Hook)	Set	30	216	6480	146	4380
7	Pole clamp for HT/LT AB cable	Set	30	113	3390	243	7290
8	Eye Hook (Flat type) for fixing Clamps	Set	30	99	2970	0	0
9	Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sq mm (excluding pole clamps and Eye hook)	Set	12	227	2724	194	2328
10	End Caps	No	10	22	220	7	70
11	11 kV Lightning Arrester, Metal Oxide 9 kV, 5 kA Polymeric Type with ground disconnecter	Set/3 Nos	2	1736	3472	90	180
12	Guy Set Complete with No. 8 Strain Insulator & Concreting materials	Set	6	1179	7074	448	2688
13	Guy concreting with Boulders, Mud and Sand	Set	6	0	0	200	1200
14	Grounding connection for messenger wire	No	4	13	52	33	132
15	Spiral Earth Electrodes	No	34	248	8432	70	2380
	Total Cost				Material		Labour
					1352251		104460
	Total Cost/KM in Rs. (Material & Labour)				1456711		

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 67

Running Single Circuit 1.1 kV, 3 Phase 5 Wire Power Line on 9 Mtr Supports with Average Span of 40 Mtr Using 3x95 + 1x16 + 1x70 Sqmm Aerial Bunched Cables (ABC) using PSCC Pole - 9 Mtr Long, 300 Kg WL for Dead Ends and Anchor Points

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 9 Mtr Long, 300 Kg WL	No	10	5050	50500	1341	13410
2	PSCC Pole - 9 Mtr Long, 200 Kg WL	No	15	4276	64140	1341	20115
3	1.1 kV, 3 Phase Aerial Bunched Cable of size 3x95+1x16+1x70 Sqmm	KM	1.03	598403	616355	25839	26614
4	Three Phase Distribution box for 6 Connections	No	20	2341	46820	681	13620
5	Piercing connector suitable for 16 Sqmm - 95 Sqmm AB Cable - Service Connections	No	80	259	20720	98	7840
6	Piercing connector suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connections	No	50	182	9100	68	3400
7	Suspension Clamp Assembly 16 to 70 mm (Excluding pole clamp & Eye Hook)	Set	20	216	4320	146	2920
8	Pole clamp for HT/LT AB cable	Set	20	113	2260	243	4860
9	Eye Hook (Flat type) for fixing Clamps	Set	20	99	1980	0	0
10	Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sq mm (excluding pole clamps and Eye hook)	Set	16	149	2384	194	3104
11	Universal Hook, Bolts & nuts	No	16	345	5520	146	2336
12	T-connector KZ3 95	No	20	383	7660	164	3280
13	Cable Straight thru' joints suitable for 95 Sqmm LT ABC	Set	5	410	2050	194	970
14	Pre-Insulated lug - CPTAU for 95 Sqmm	No	8	383	3064	202	1616
15	End cap for 50/70 Sqmm	No	50	22	1100	7	350
16	Guy Set Complete with No. 8 Strain Insulator & Concreting materials	Set	8	1179	9432	448	3584
17	Guy concreting with Boulders, Mud and Sand	Set	8	0	0	200	1600
18	PVC Insulated wire 25 Sqmm	Mtr	400	55.76	22304	0	0
19	Spiral Earth Electrode	No	25	248	6200	70	1750
	Total Cost				Material		Labour
					875909		111369
	Total Cost/KM in Rs. (Material & Labour)	987278					

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 68

Running LT, 3 Phase 4 Wire Power Line on 8 Mtr Supports Using WEASEL ACSR Conductor with an Average Span of 60 Mtr using 8 Mtr PSCC Pole of 200 Kg WL for dead ends, anchor points and DP structure (IP Installations)

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 8 Mtrs Long, 200 Kg WL	No	18	3578	64404	1072	19296
2	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers	Set	18	435	7830	122	2196
3	1.1 kV Pin Insulator with GI Pin	No	64	65	4160	0	0
4	No. 8 Strain Insulator	No	8	25	200	0	0
5	Guy Set Complete with No. 8 Strain Insulator & Concreting materials	Set	8	1179	9432	448	3584
6	Weasel ACSR Conductor	KM	4.06	37018	150293	2420	9825
7	Spiral Earth Electrode	No	18	248	4464	70	1260
8	Guy concreting with Boulders, Mud and Sand	No	8	0	0	200	1600
9	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	18	93	1674	32	576
	Total Cost				Material		Labour
					242457		38337
	Total Cost/KM in Rs. (Material & Labour)				280794		

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 69

Running LT, Single Phase 3 Wire Power Line on 8 Mtr Supports with an Average Span of 40 Mtr Using WEASEL ACSR Conductor and 8 Mtr PSCC Pole 200 Kg WL for dead ends, anchor points and DP structure

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Pole - 8 Mtr Long, 200 Kg WL	No	25	3578	89450	1072	26800
2	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers	Set	30	435	13050	122	3660
3	LT 2 Pin Cross Arm with clamps, bolts, nuts	Set	25	270	6750	122	3050
4	1.1 kV Pin Insulator with GI Pin	No	48	65	3120	0	0
5	No. 8 Strain Insulator	No	21	25	525	0	0
6	Guy Set Complete with No. 8 Strain Insulator & Concreting materials	Set	8	1179	9432	448	3584
7	Weasel ACSR Conductor	KM	3.045	37018	112720	2420	7369
8	Spiral Earth Electrode	No	25	248	6200	70	1750
9	Guy concreting with Boulders, Mud and Sand	No	8	0	0	200	1600
10	Sheet Metal/Deep Drawn Street Light Meter Box with Automatic Control Swith, Contactors with Single Phase 5-30 Amps meter & 50/5A CT including wiring	No	1	5954	5954	715	715
11	PVC Pipe 40 mm Dia	Mtr	6	113	678	0	0
12	PVC Insulated wire 25 Sqmm Single Core Multi Stranded	Mtr	25	55.76	1394	0	0
13	Anti Climbing Device (12 Mtr GI Barbed Wire)	Each	25	93	2325	32	800
Total Cost				Material		Labour	
				139228		15818	
Total Cost/KM in Rs. (Material & Labour)		155046					

Note: Provision for actual quantity of materials addition/deletion whenever required may be made in the estimate as per field requirement.