

COST DATA SHEET - 1

Running Single Circuit 11kV, 3 Phase Power Line On 9.0 Mtr Supports With An Average Span Of 40 Mtrs Using RABBIT ACSR Conductor							
SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9 Mtrs Long, 145 kg WL	Nos	1	6258	6258	1166	1166
2	PSCC Pole - 9 Mtrs Long, 200 kg WL	Nos	23	3689	84847	1166	26818
3	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers for RCC poles	Set	1	444	444	106	106
4	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers for PSCC poles	Set	23	438	10074	106	2438
5	DP Structure with 9 Mtrs RCC Poles	Set	1	17450	17450	3578	3578
6	11 KV, 5KN Polymeric Pin Insulator (24mm Dia FRP Rod)	Nos	72	180	12960	0	0
7	11KV 45 KN Polymeric Insulator	Nos	6	164	984	0	0
8	Guy Set Complete with No.15 strain insulator & Concreting materials	Sets	6	830	4980	390	2340
9	Rabbit ACSR Conductor	Kms	3.045	36497	111133	2869	8736
10	PG Clamps for Rabbit Conductor	Nos	6	79	474	0	0
11	Spiral Earth Electrode	Nos	26	165	4290	61	1586
12	EG Stirrups with GI wire lacing	Set of 2 Nos	24	191	4584	109	2616
13	Guy concreting with Boulders, Mud and Sand	Nos	6	0	0	174	1044
14	Caution/Danger Board	Nos	8	146	1168	53	424
15	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Nos	26	76	1976	28	728
Total					261622		51580
Total Cost/KM in Rs.				313202			
Note:	Other charges such as GST, service tax, ESI, PF and other applicable charges shall be loaded as per Abstract of Estimate cost data sheet						

COST DATA SHEET - 2

**Running Single Circuit 11 kV, 3-Phase Power Line on 9.0 Mtr Supports with an Average Span of 50 Mtrs
Using RABBIT ACSR Conductor**

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9 Mtrs Long, 145 kg WL	Nos	1	6258	6258	1166	1166
2	PSCC Pole - 9 Mtrs Long, 200 kg WL	Nos	18	3689	66402	1166	20988
3	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers (for RCC poles)	Set	1	444	444	106	106
4	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers (for PSCC poles)	Set	18	438	7884	106	1908
5	DP Structure with 9 Mtrs RCC Poles	Set	1	17450	17450	3578	3578
6	11 KV, 5KN Polymeric Pin Insulator (24mm Dia FRP Rod)	Nos	57	180	10260	0	0
7	11KV 45 KN Polymeric Insulator	Nos	6	164	984	0	0
8	Guy Set Complete with No.15 strain insulator & Concreting materials	Sets	6	830	4980	390	2340
9	Rabbit ACSR Conductor	Kms	3.045	36497	111133	2869	8736
10	PG Clamps for Rabbit conductor	Nos	6	79	474	0	0
11	Spiral Earth Electrode	Nos	21	165	3465	61	1281
12	EG Stirrups with GI wire lacing	Set of 2 Nos	19	191	3629	109	2071
13	Guy concreting with Boulders, Mud and Sand	Nos	6	0	0	174	1044
14	Caution/Danger Board	Nos	6	146	876	53	318
15	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kg	21	76	1596	28	588
	Total				235835		44124
	Total Cost/Km in Rs.					279959	
Note:	Other charges such as GST, service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 3**Running Single Circuit 11 kV , 3-Phase Power Line on 8.0 Mtr Supports with an Average Span of 50 Mtrs
Using RABBIT ACSR Conductor**

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 8.0M Long, 145 kg WL	Nos	1	4706	4706	932	932
2	PSCC Pole - 8.0M Long, 200 kg WL	Nos	18	3054	54972	932	16776
3	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers (for RCC poles)	Set	1	444	444	106	106
4	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers (for PSCC poles)	Sets	18	438	7884	106	1908
5	DP Structure with 8 Mtrs RCC Poles	Set	1	14346	14346	3418	3418
6	11 KV, 5KN Polymeric Pin Insulator (24mm Dia FRP Rod)	Nos	57	180	10260	0	0
7	11KV 45 KN Polymeric Insulator	Nos	6	164	984	0	0
8	Guy Set Complete with No.15 strain insulator & Concreting materials	Sets	6	830	4980	390	2340
9	Rabbit ACSR Conductor	Kms	3.045	36497	111133	2869	8736
10	PG Clamps for Rabbit Conductor	Nos	6	79	474	0	0
11	Spiral Earth Electrode	Nos	21	165	3465	61	1281
12	EG Stirrups with GI wire lacing	Set of 2 Nos	19	191	3629	109	2071
13	Guy concreting with Boulders, Mud and Sand	Nos	6	0	0	174	1044
14	Caution/Danger Board	Nos	6	146	876	53	318
15	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	21	76	1596	28	588
	Total				219749		39518
	Total Cost/Km in Rs.				259267		
Note:	Other charges such as GST, service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 4

Running Single Circuit 11 kV, 3-Phase Power Line on 9.0 Mtr Supports with an Average Span of 40 Mtrs Using COYOTE ACSR conductor

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9 Mtrs Long, 145 kg WL	Nos	1	6258	6258	1166	1166
2	PSCC Pole - 9 Mtrs Long, 200 kg WL	Nos	22	3689	81158	1166	25652
3	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers (for RCC poles)	Set	1	444	444	106	106
4	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers (for PSSC poles)	Sets	22	438	9636	106	2332
5	DP Structure with 9 Mtrs RCC Poles	Sets	2	17450	34900	3578	7156
6	11 KV, 5KN Polymeric Pin Insulator (24mm Dia FRP Rod)	Nos	69	180	12420	0	0
7	70/90 kN Disc Insulators	Nos	12	431	5172	0	0
8	Strain Clamp 3 bolt type for Disc Insulator	Nos	12	494	5928	0	0
9	Guy Set Complete with No.15 strain insulator & Concreting materials	Sets	6	830	4980	390	2340
10	Coyote ACSR Conductor	Kms	3.045	100111	304838	5011	15258
11	PG Clamps for Coyote Conductor	Nos	12	275	3300	0	0
12	Spiral Earth Electrode	Nos	27	165	4455	61	1647
13	EG Stirrups with GI wire lacing	Set of 2 Nos	23	191	4393	109	2507
14	Guy concreting with Boulders, Mud and Sand	Nos	6	0	0	174	1044
15	Caution/Danger Board	Nos	10	146	1460	53	530
16	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	27	76	2052	28	756
	Total				481394		60494
	Total Cost/Km in Rs.					541888	
Note:	Other charges such as GST, service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

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 Mtrs 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 Mtrs Long, 145 kg WL	Nos	1	6258	6258	1166	1166
2	PSCC Pole - 9 Mtrs Long, 200 kg WL	Nos	18	3689	66402	1166	20988
3	11kV Horizontal cross arms with clamps, HTST Supports, bolts, nuts and washers (for RCC poles)	Set	1	444	444	106	106
4	11kV Horizontal cross arms with clamps, HTST Supports, bolts, nuts and washers (for PSCC poles)	Sets	18	438	7884	106	1908
5	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for RCC poles)	Set	1	272	272	106	106
6	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSCC poles)	Sets	19	266	5054	106	2014
7	DP Structure with 9 mtr RCC Poles	Set	1	17450	17450	3578	3578
8	11 KV, 5KN Polymeric Pin Insulator (24mm Dia FRP Rod)	Nos	57	180	10260	0	0
9	1.1kV Pin Insulators with GI Pins	Nos	76	48	3648	0	0
10	11KV 45 KN Polymeric Insulator	Nos	6	164	984	0	0
11	No.8 Strain Insulators	Nos	8	16	128	0	0
12	Guy Set Complete with No.15 strain insulator & Concreting materials	Sets	8	830	6640	390	3120
13	Rabbit ACSR for HT Lines	Kms	3.045	36497	111133	2869	8736
14	Weasel ACSR for LT lines	Kms	4.06	21552	87501	2104	8542
15	Spiral Earth Electrode	Nos	21	165	3465	61	1281
16	Guarding between HT & LT Lines						
17	a) Guarding Materials	Span	20	4000	80000	1165	23300
18	b) 4 Pin cross arms with clamps,bolts, nuts and washers for guarding	Sets	20	266	5320	0	0
19	PG Clamps for Rabbit conductor	Nos	6	79	474	0	0
20	Guy concreting with Boulders, Mud and Sand	Nos	8	0	0	174	1392
21	Caution/Danger Board	Nos	6	146	876	53	318
22	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	21	76	1596	28	588
	Total				415789		77143
	Total Cost/Km in Rs.				492933		
Note:	Other charges such as GST, Service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 6

Running Single Circuit 11 kV, 3-Phase Power Line & 3 Phase 4 Wire Secondary Line on 9.0 Mtr Supports with an Average Span of 40 Mtrs Using RABBIT ACSR conductor for HT & LT Lines

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9 Mtrs Long, 145 kg WL	Nos	1	6258	6258	1166	1166
2	PSCC Pole - 9 Mtrs Long, 200 kg WL	No's	23	3689	84847	1166	26818
3	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers (for RCC poles)	Set	1	444	444	106	106
4	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers (for PSCC poles)	Sets	23	438	10074	106	2438
5	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for RCC poles)	Set	1	272	272	106	106
6	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSCC poles)	Sets	24	266	6384	106	2544
7	DP Structure with 9 mtr RCC Poles	Set	1	17450	17450	3576	3576
8	11 KV, 5KN Polymeric Pin Insulator (24mm Dia FRP Rod)	Nos	72	180	12960	0	0
9	1.1kV Pin Insulators with GI Pins	Nos	96	48	4608	0	0
10	11KV 45 KN Polymeric Insulator	Nos	6	164	984	0	0
11	No.8 Strain Insulators	Nos	8	16	128	0	0
12	Guy Set Complete with No.15 strain insulator & Concreting materials	Sets	8	830	6640	390	3120
13	Rabbit ACSR Conductor	Kms	7.105	36497	259311	2869	20384.2
14	PG Clamps for Rabbit conductor	Nos	6	79	474	0	0
15	Spiral Earth Electrode	Nos	26	165	4290	61	1586
16	Guarding between HT & LT Lines				0		0
	a) Guarding Materials	Span	25	3200	80000	663	16575
	b) 4 Pin cross arms with clamps, bolts, nuts and washers.	Sets	25	266	6650	0	0
17	Guy concreting with Boulders, Mud and Sand	Nos	8	0	0	174	1392
18	Caution/Danger Board	Nos	8	146	1168	53	424
19	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	26	76	1976	28	728
	Total				504918		80963
	Total Cost/Km in Rs.					585881	
Note:	Other charges such as GST, Service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 7**Running LT, 3-Phase 4 Wire Power Line on 8.0 Mtr Supports Using WEASEL ACSR Conductor with an Average Span of 60 Mtrs (IP Installations)**

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 8 Mtrs Long, 145 kg WL	Nos	1	4706	4706	932	932
2	PSCC Pole - 8 Mtrs Long, 200 kg WL	Nos	17	3054	51918	932	15844
3	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for RCC poles)	Set	1	272	272	106	106
4	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSCC poles)	Sets	17	266	4522	106	1802
5	1.1 kV Pin Insulators with GI Pins	Nos	64	48	3072	0	0
6	No.8 Strain Insulators	Nos	8	16	128	0	0
7	Guy Set Complete with No. 8 strain insulator & Concreting materials	Sets	8	830	6640	390	3120
8	Weasel ACSR Conductor	Kms	4.06	21552	87501	2104	8542
9	Spiral Earth Electrode	Nos	18	165	2970	61	1098
10	Guy concreting with Boulders, Mud and Sand	Nos	8	0	0	174	1392
11	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	18	76	1368	28	504
	Total				163097		33340
	Total Cost/Km in Rs.				196437		
Note:	Other charges such as GST, Service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 8

Running LT , 3-Phase 4 Wire Power Line on 8.0 Mtr Supports Using RABBIT ACSR Conductor with an Average Span of 40 Mtrs

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 8 Mtrs Long, 145 kg WL	Nos	1	4706	4706	932	932
2	PSCC Pole - 8 Mtrs Long, 200 kg WL	Nos	24	3054	73296	932	22368
3	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for RCC poles)	Set	1	272	272	106	106
4	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSCC poles)	Sets	24	266	6384	106	2544
5	1.1kV Pin Insulators with GI Pins	Nos	96	48	4608	0	0
6	No.8 Strain Insulators	Nos	8	16	128	0	0
7	Guy Set Complete with No. 8 strain insulator & Concreting materials	Sets	8	811	6488	390	3120
8	Rabbit ACSR Conductor	Kms	4.06	36497	148177.82	2869	11648.14
9	Spiral Earth Electrode	Nos	25	165	4125	61	1525
10	Guy concreting with Boulders, Mud and Sand	Nos	8	0	0	174	1392
11	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	25	76	1900	28	700
	Total				250085		44335
	Total Cost/Km in Rs.					294420	
Note:	Other charges such as GST, Service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 9**Running LT, 3-Phase 4 Wire Power Line on 9.0 Mtr Supports Using RABBIT ACSR Conductor with an Average Span of 40 Mtrs**

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9 Mtrs Long, 145 kg WL	Nos	1	6258	6258	1166	1166
2	PSCC Pole - 9 Mtrs Long, 200 kg WL	Nos	24	3689	88536	1166	27984
3	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for RCC poles)	Set	1	272	272	106	106
4	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSCC poles)	Sets	24	266	6384	106	2544
5	1.1kV Pin Insulators with GI Pins	Nos	96	48	4608	0	0
6	No.8 Strain Insulators	Nos	8	16	128	0	0
7	Guy Set Complete with No. 8 strain insulator & Concreting materials	Sets	8	811	6488	390	3120
8	Rabbit ACSR Conductor	Kms	4.06	36497	148178	2869	11648.14
9	Spiral Earth Electrode	Nos	25	165	4125	61	1525
10	Guy concreting with Boulders, Mud and Sand	Nos	8	0	0	174	1392
11	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	25	76	1900	28	700
	Total				266877		50185
	Total Cost/Km in Rs.				317062		
Note:	Other charges such as GST, Service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 10

Running LT, 3-Phase 5 Wire for Power Line on 9.0 Mtr Supports Using RABBIT ACSR Conductor for Phase and Neutral, and WEASEL Conductor or Street Light with an Average Span of 40 Mtrs (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 Mtrs Long, 145 kg WL (for Deadend, Anchor points)	Nos	6	6258	37548	1166	6996
2	PSCC Pole - 9 Mtrs Long, 200 kg WL (for Intermediate Poles)	Nos	19	3689	70091	1166	22154
3	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for RCC poles)	Sets	7	272	1904	106	742
4	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSCC poles)	Sets	22	266	5852	106	2332
5	LT 2 Pin cross arms, with pole clamps, bolts, nuts (for RCC poles)	Sets	7	168	1176	106	742
6	LT 2 Pin cross arms, with pole clamps, bolts, nuts (for PSCC poles)	Sets	18	162	2916	106	1908
7	1.1kV Pin Insulators with GI Pins	Nos	95	48	4560	0	0
8	No.8 Strain Insulators	Nos	50	16	800	0	0
9	Guy Set Complete with No. 8 strain insulator & Concreting materials	Sets	10	811	8110	390	3900
10	Rabbit ACSR Conductor	Kms	4.06	36497	148178	2869	11648
11	Weasel ACSR Conductor	Kms	1.015	21552	21875	2104	2136
12	Spiral Earth Electrode	Nos	25	165	4125	61	1525
13	Guy concreting with Boulders, Mud and Sand	No's	8	0	0	174	1392
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's	1	5954	5954	622	622
15	PVC Pipe 40 mm Dia	Mtrs	6	46	276	0	0
16	PVC Insulated wire 25 Sqmm Single Core Multi stranded	Mtrs	25	32.31	807.75	0	0
17	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	25	76	1900	28	700
	Total				316073		56797
	Total Cost/Km in Rs.					372870	
Note:	Other charges such as GST, service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 11

Running LT, 3 Phase 5 Wire for Power Line on 8.0 Mtr Supports Using RABBIT ACSR Conductor for Phase and Neutral, and WEASEL Conductor for Street Light with an Average Span of 50 mtrs

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 8 Mtrs Long, 115 kg WL (for Deadend, Anchor points.)	Nos	5	4706	23530	932	4660
2	PSCC Pole - 8 Mtrs Long, 200 kg WL (for Intermediate Poles)	Nos	15	3054	45810	932	13980
3	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for RCC poles)	Set	5	272	1360	106	530
4	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSCC poles)	Sets	20	266	5320	106	2120
5	LT 2 Pin cross arms, with pole clamps, bolts, nuts (for RCC poles)	Set	5	168	840	106	530
6	LT 2 Pin cross arms, with pole clamps, bolts, nuts (for PSCC poles)	Sets	20	162	3240	106	2120
7	1.1kV Pin Insulators with GI Pins	Nos	95	48	4560	0	0
8	No.8 Strain Insulators	Nos	50	16	800	0	0
9	Guy Set Complete with No. 8 strain insulator & Concreting materials	Sets	8	811	6488	390	3120
10	Rabbit ACSR Conductor	Kms	4.06	36497	148178	2869	11648
11	Weasel ACSR Conductor	Kms	1.015	21552	21875	2104	2136
12	Spiral Earth Electrode	Nos	20	165	3300	61	1220
13	Guy concreting with Boulders, Mud and Sand as per drawing No: BESCO/GM/C.P/7 dtd:24.10.2007 (without cement)	Nos	8	0	0	174	1392
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	Nos	1	5954	5954	622	622
15	PVC Pipe 40 mm Dia	Mtrs	6	46	276	0	0
16	PVC Insulated wire 25 Sqmm Single Core Multi Stranded	Mtrs	20	32.31	646.2	0	0
17	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	25	76	1900	28	700
	Total				274077		44778
	Total Cost/Km in Rs.					318855	
Note:	Other charges such as GST, Service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 12

**Running LT, Single Phase 3 Wire Power Line on 8.0 Mtr Supports with an Average Span of 40 Mtrs
Using WEASEL ACSR Conductor**

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 8 Mtrs Long, 115 kg WL (for Deadend, Anchor points)	Nos	5	4706	23530	932	4660
2	PSCC Pole - 8 Mtrs Long, 200 kg WL (for Intermediate Poles)	Nos	20	3054	61080	932	18640
3	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for RCC poles)	Set	5	272	1360	106	530
4	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSCC poles)	Sets	25	266	6650	106	2650
5	LT 2 Pin cross arms, with pole clamps, bolts, nuts (for RCC poles)	Set	5	168	840	106	530
6	LT 2 Pin cross arms, with pole clamps, bolts, nuts (for PSCC poles)	Sets	20	162	3240	106	2120
7	1.1kV Pin Insulators with GI Pins	Nos	48	48	2304	0	0
8	No.8 Strain Insulators	Nos	21	16	336	0	0
9	Guy Set Complete with No. 8 strain insulator & Concreting materials	Sets	8	811	6488	390	3120
10	Weasel ACSR Conductor	Kms	3.045	21552	65625.84	2104	6406.68
11	Spiral Earth Electrode	Nos	25	165	4125	61	1525
12	Guy concreting with Boulders, Mud and Sand	Nos	8	0	0	174	1392
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	Nos	1	5954	5954	622	622
14	PVC Pipe 40 mm Dia	Mtrs	6	46	276	0	0
15	PVC Insulated wire 25 Sqmm Single Core Multi Stranded	Mtrs	25	32.31	807.75	0	0
16	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	25	76	1900	28	700
	Total				184517		42896
	Total Cost/Km in Rs.				227412		
Note:	Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 13

Running LT, 3-Phase 5 Wire Power Line with Continuous Earth Wire on 9.0 Mtr Supports Using RABBIT ACSR for Phase and Neutral, and WEASEL Conductor for Street Light and 8 SWG GI Wire for Continuous Earth Wire with an Average Span of 40 Mtrs in Vertical Configuration

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9 Mtrs Long, 145 kg WL (for Deadend, Anchor points)	Nos	6	6258	37548	1166	6996
2	PSCC Pole -9 Mtrs Long, 200 kg WL (for Intermediate Poles)	Nos	19	3689	70091	1166	22154
3	Fabricated Vertical Cross Arms with pole, clamps, bolts, nuts and washers	Sets	30	645	19350	316	9480
4	1.1kV Pin Insulators with GI Pins	Nos	100	48	4800	0	0
5	No.8 Strain Insulators	Nos	50	16	800	0	0
6	Guy Set Complete with No. 8 strain insulator & Concreting materials	Sets	12	811	9732	390	4680
7	Rabbit ACSR Conductor	Kms	4.06	36497	148178	2869	11648
8	Weasel ACSR Conductor	Kms	1.015	21552	21875	2104	2136
9	No.8 SWG GI wire for continuous earth wire	Kms	1.015 (103 kgs)	63.293 per kg	6520	2104 per KM	2135
10	8 SWG GI wire for guard loops	Kgs	26	63.293	1646	0	0
11	Spiral Earth Electrode	Nos	25	165	4125	61	1525
12	Guy concreting with Boulders, Mud and Sand	Nos	8	0	0	174	1392
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	Nos	1	5954	5954	622	622
14	PVC Pipe 40 mm Dia	Mtrs	6	46	276	0	0
15	PVC Insulated wire 25 Sqmm Single Core Multi Stranded	Mtrs	25	32.31	808	0	0
16	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	25	76	1900	28	700
	Total				333602		63468
	Total Estimate Cost/Km in Rs.					397070	
Note:	Other charges such as GST, Service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 14

Running Single Circuit 11 kV, 3-phase Power Line on 9.0 Mtr Supports Using RABBIT ACSR Conductor With an Average Span of 40 Mtrs 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 Mtrs Long, 145 kg WL (for Deadend, Anchor points)	Nos	1	6258	6258	1166	1166
2	PSCC Pole -9 Mtrs Long, 200 kg WL (for Intermediate Poles)	Nos	23	3689	84847	1166	26818
3	DP Structure using 9 Mtrs RCC poles	Set	1	17450	17450	3578	3578
4	Special cross arm with cross arm for EG Stirrups, braces, clamps, bolts nuts and washers complete	Sets	23	1156	26588	348	8004
5	11 KV, 5KN Polymeric Pin Insulator (24mm Dia FRP Rod)	Nos	69	180	12420	0	0
6	11KV 45 KN Polymeric Insulator	Nos	6	164	984	0	0
7	Guy Set Complete with No. 15 strain insulator & Concreting materials	Sets	9	830	7470	390	3510
8	Rabbit ACSR Conductor	Kms	3.045	36497	111133.365	2869	8736.105
9	Spiral Earth Electrode	Nos	26	165	4290	61	1586
10	EG Stirrups with GI wire lacing	Set of 2 No's	25	191	4775	109	2725
11	Guy concreting with Boulders, Mud and Sand	Nos	9	0	0	174	1566
12	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	26	76	1976	28	728
Total cost of Material & Labour					278191		58417
Total Estimate Cost/Km in Rs.					336608		
Note:	Item 4 includes, the following						
	a) Special cross arms 50x50x6 mm MS 0.715 mtr long 3-Nos						
	b) Support piece for fixing EG stirrup 50x50x6 mm MS Angle 0.865 mtr long - 1 No						
	c) Brace 50x50x6 mm MS Angle 0.850 mtr long - 1 No						
	d) 50x6 mm Flat 1.8 mtr, long - 1No						
	e) RCC Pole Clamps - 5 Nos						
	f) Cross Arm for fixing EG Stirrup - 1 No						
Note:	Other charges such as GST, service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET -15

Providing 2 Pole Structure at the Tapping Point Using RCC Poles

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
	Part-A: LINES						
1	RCC DP Structure using 9 Mtrs RCC Pole with WL 145 kg	Set	1	17450	17450	3578	3578
2	RCC DP Structure using 8 Mtrs RCC Pole with WL 115 kg	Set	1	14346	14346	3414	3414
3	11KV 45 KN Polymeric Insulator	Nos	6	164	984	0	0
4	Guy Set Complete with No.15 strain insulator & Concreting materials	Sets	2	830	1660	390	780
5	Spiral Earth Electrode	Nos	2	165	330	61	122
6	Guy concreting with Boulders, Mud and Sand	Nos	2	0	0	174	348
7	Caution/Danger Board	No	1	146	146	53	53
8	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	2	76	152	28	56
9	Total Part A						
10	Using 8 Mtrs RCC Pole				17618		4773
11	Using 9 Mtrs RCC Pole				20722		4937
	Part-B: SWITCH GEAR						
12	11kV 400A D/B GOS	Set	1	17545	17545	777	777
13	H-Frame for mounting GOS	No	1	3724	3724	210	210
14	DOLO Cut Out	Set/3 Nos	1	4848	4848	155	155
	Total Part B				26117		1142
15	Total cost (A+B) using 8 mtr pole				43735		5915
16	Total cost (A+B) using 9 mtr pole				46839		6079
17	Total Cost of Estimate using 8 Mtrs RCC Pole					49650	
18	Total Cost of Estimate using 9 Mtrs RCC Pole					52918	
Note:	Other charges such as GST, Service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET -16**Erection of 3 Pole Structure With 9 Mtr RCC Pole**

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	3 Pole Structure complete using 9 Mtrs RCC Poles (Including Cost of Poles)	Set	1	28726	28726	6899	6899
2	Spiral Earth Electrode	Nos	3	165	495	61	183
3	Guy Set With No.15 Strain Insulator Complete	Sets	3	830	2490	390	1170
4	11KV 45 KN Polymeric Insulator	Nos	6	164	984	0	0
5	11 KV, 5KN Polymeric Pin Insulator (24mm Dia FRP Rod)	Nos	3	180	540	0	0
6	Guy concreting with Boulders, Mud and Sand	Nos	3	0	0	174	522
7	Caution/Danger Board	Nos	2	146	292	53	106
8	Anti Climbing Device (12mtrs Kg GI Barbed Wire) Lumpsum	Kgs	3	76	228	28	84
9	Total cost of Material and Labour				33755		8964
Total Estimate Cost						42719	
Note:	Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

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

SL. No	Particulars	Unit	Qty	Material cost	
				Rate (Rs)	Amt (Rs)
1	Whole Current Meter 10-60A 3 Phase (Static Meter) Class-1 Accuracy	Nos	1	3000	3000
2	SMC/MS Meter Housing box with 6 mm hylam sheet	Nos	1	2100	2100
3	16 Sqmm Aluminium Single Core/Multi Core of Grade 650/1100V (16 Mts) (Rs. 23.41/mtr)	Set	1	375	375
4	PVC Pipe of 2 mm Thick 40mm Dia	Mtrs	4	46	184
5	3 Nos Porcelain Cutouts 60A with Wooden Plank	Set	1	432	432
6	Misc materials such as water tight bends and aluminium pins/bullets	LS	LS		150
7	Labour Charges (Lump sum)	LS	LS		770
	Total				7011

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

COST DATA SHEET - 18

**For laying of 1 Km Length of 11kV, 3 Core 95 Sqmm XLPE UG Cable
Using Horizontal Drilling**

SL. No	Particulars	Unit	Qty	Material cost	
				Rate (Rs)	Amt (Rs)
1	11kV Class 3x95 Sqmm XLPE UG Cable (Round Armoured)	Km	1	782621	782621
2	Straight Through Jointing Kits HS Type suitable for 95 Sqmm Cable	Nos	3	6481	19443
3	Cable Termination Kit Outdoor HS Type suitable for 95 Sqmm Cable	Per Kit	2	3605	7210
4	Cable Termination Kit Indoor HS Type suitable for 95 Sqmm Cable	Per Kit	2	3319	6638
5	RCC Hume Pipe, 2000 mm Long, 150 mm Dia	Nos	3	300	900
6	Collars for RCC Hume Pipe	Nos	2	80	160
7	GI Pipe, 100 mm Dia for drain crossing, cable raising etc.,	Mtrs	8	1242	9936
8	Route and Joint Indicating Stones	Nos	10	130	1300
	Total Material cost				828208
9	Labour charges				
	a) Laying of cable in trench in wherever necessary	Mtrs	50	39.377	1969
	b) Labour chargers for horizontal drilling with 6 inches bore size				
	i) Without HDPE Pipe	Rmtr	50	706	35300
	ii) With HDPE pipe	Rmtr	900	848	763200
	c) Making of straight through joints	Nos	3	1865	5595
	d) Making of cable terminations	Nos	2	1709	3418
	e) Laying of RCC Hume pipes	Nos	60	44	2640
	f) Laying of GI Pipe	Mtrs	8	50	400
	g) Laying of Route and Joint indicating stones	Nos	20	75	1500
	Total Labour cost				814022
	Total Estimate cost per KM in Rs			1642230	
10	Add Rates for Refurbication of Roads			As per prevailing rates prescribed by local bodies (Corporations/Municipalities/ VPS as applicable)	
Note:					
1)	While preparing estimates for turnkey/total tunkey projects please refer to Sl. No. of General Guidelines vide a toh in Page No.				
2)	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtrs x 1 Mtrs 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-45				
3)	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.				

COST DATA SHEET - 19

**For Laying of 1 Km Length of 11kV, 3 Core, 95 Sqmm XLPE UG Cable
Using Conventional Laying with Excavation of Soil**

SL. No	Particulars	Unit	Qty	Material cost	
				Rate (Rs)	Amt (Rs)
1	11kV Class 3x95 Sqmm XLPE UG Cable (Round Armoured)	Km	1	782621	782621
2	Straight Through Jointing Kits HS Type suitable for 95 Sqmm Cable	Nos	3	6481	19443
3	Cable Termination Kit Outdoor HS Type Suitable for 95 Sqmm Cable	Per Kit	1	3605	3605
4	Cable Termination Kit Indoor HS Type Suitable for 95 Sqmm Cable	Per Kit	1	3319	3319
5	Cable covering tiles 250x125x40 mm or 125x125x40 mm	Nos	4000/ 8000	10/5	40000
6	Sand	Cmt	60	1700	102000
7	RCC Hume Pipe, 2000 mm Long, 150 mm Dia	Nos	30	300	9000
8	Collars for RCC Hume Pipe	Nos	30	80	2400
9	GI Pipe, 100 mm Dia for drain crossing, cable raising etc.,	Mtrs	8	1242	9936
10	Route and Joint Indicating Stones	Nos	20	130	2600
	Total Material cost				974924
11	Labour charges				
	a) Cable trench excavation, 1000x0.6x1=600, Ordinary soil	Cmt	600	226	135600
	b) Laying of cable in trench	km	1	39377	39377
	c) Refilling and consolidation	Cmt	550	50	27500
	d) Making of straight through joints	No	3	1865	5595
	e) Making of cable terminations	No	2	1709	3418
	f) Covering the cable with tiles	km	1	2863	2863
	g) Spreading Sand and forming with Sand round the cable	km	1	10061	10061
	h) Laying of RCC Hume pipes	mtr	60	44	2640
	i) Laying of GI Pipe	mtr	8	50	400
	j) Laying of Route and Joint indicating stones	No	20	75	1500
12	Total Labour cost				228954
	Total Estimate cost per KM			1203878	
12	Add Rates for Reinstatements of Roads	As per prevailing rates prescribed by local bodies (Corporations/Municipalities/ VPS as applicable)			
	NOTE				
1)	While preparing estimates for turnkey / total tunkey projects please refer to Sl. No. of General Guidelines vide a to in Page No.				
2)	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtrs x 1 Mtrs 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-45				
3)	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.				

COST DATA SHEET - 20					
For Laying of 1 Km Length of 11kV, 3 Core, 240 Sqmm XLPE UG Cable Using Horizontal Drilling					
SL. No	Particulars	Unit	Qty	Material cost	
				Rate (Rs)	Amt (Rs)
1	11kV Class 3x240 Sqmm XLPE UG Cable (Round Armoured)	Km	1	1471370	1471370
2	Straight Through Jointing Kits HS Type suitable for 240 Sqmm Cable	Nos	3	7903	23709
3	Cable Termination Kit Outdoor HS Type Suitable for 240 Sqmm Cable	Per Kit	1	4715	4715
4	Cable Termination Kit Indoor HS Type Suitable for 240 Sqmm Cable	Per Kit	1	4159	4159
5	RCC Hume Pipe, 2000 mm Long, 150 mm Dia	Nos	3	300	900
6	Collars for RCC Hume pipe	Nos	2	80	160
7	GI Pipe, 100 mm Dia for drain crossing, cable raising etc.,	Mtrs	8	1242	9936
8	Route and Joint Indicating Stones	Nos	10	130	1300
	Total Material Cost				1516249
9	Labour charges				
	a) Laying of cable in trench in wherever necessary	Mtrs	50	41.565	2078
	b) Labour chargers for horizontal drilling with 6 inches bore size				0
	i) Without HDPE Pipe	Rmtr	50	706	35300
	ii) With HDPE pipe	Rmtr	900	848	763200
	c) Making of straight through joints	Nos	3	1865	5595
	d) Making of cable terminations	Nos	2	1709	3418
	e) Laying of RCC Hume pipes	Nos	60	44	2640
	f) Laying of GI Pipe	Mtrs	8	50	400
	g) Laying of Route and Joint indicating stones	Nos	20	75	1500
	Total Labour cost				814131
	Total Estimate cost per KM				2330380
10	Add Rates for Reinstatements of Roads	As per prevailing rates prescribed by local bodies (Corporations/Municipalities/ VPS as applicable)			
	NOTE				
1)	While preparing estimates for turnkey / total tunkey projects please refer to Sl. No. of General Guidelines vide a to in Page No.				
2)	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtrs x 1 Mtrs 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-45				
3)	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.				

COST DATA SHEET - 21

**For Laying of 1 Km Length of 11kV, 3 Core, 240 Sqmm XLPE UG Cable
Using Conventional Laying with Excavation in Soil**

SL. No	Particulars	Unit	Qty	Material cost	
				Rate (Rs)	Amt (Rs)
1	11kV Class 3x240 Sqmm XLPE UG Cable (Round Armoured)	Km	1	1471370	1471370
2	Straight Through Jointing Kits HS Type suitable for 3x240 Sqmm Cable	Nos	3	7903	23709
3	Cable termination kit Outdoor HS Type Suitable for 3x240 Sqmm Cable	Per Kit	1	4715	4715
4	Cable termination kit Indoor HS Type Suitable for 3x240 Sqmm Cable	Per Kit	1	4159	4159
5	Cable Covering Tiles 250x125x40 mm or 125x125x40 mm	Nos	4000 / 8000	10/5	40000
6	Sand	Cmt	60	1700	102000
7	RCC Hume pipe, 2000 mm Long, 150 mm Dia	Nos	30	300	9000
8	Collars for RCC Hume Pipe	Nos	30	80	2400
9	GI Pipe, 100 mm Dia for drain crossing, cable raising etc.,	Mtrs	8	1242	9936
10	Route and Joint Indicating Stones	Nos	20	130	2600
	Total Material Cost				1669889
10	Labour charges				
	a) Cable trench excavation, 1000x0.6x1=600, Ordinary soil	Cmt	600	226	135600
	b) Laying of cable in trench	Km	1	41565	41565
	c) Refilling and consolidation	Cmt	550	50	27500
	d) Making of straight through joints	Nos	3	1865	5595
	e) Making of cable terminations	Nos	2	1709	3418
	f) Covering the cable with tiles	Km	1	2863	2863
	g) Spreading Sand and forming with Sand round the cable	Km	1	10061	10061
	h) Laying of RCC Hume pipes	Mtr	60	44	2640
	i) Laying of GI Pipe	Mtr	8	50	400
	j) Laying of Route and Joint indicating stones	Nos	20	75	1500
	Total Labour cost				231142
	Total Estimate cost per KM				1901031
11	Add Rates for Reinstatements of Roads	As per prevailing rates prescribed by local bodies (Corporations/Municipalities/VPS as applicable)			
	NOTE				
1)	While preparing estimates for turnkey / total tunkey projects please refer to Sl. No. of General Guidelines vide a to in Page No.				
2)	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtrs x 1 Mtrs 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-45				
3)	Where cables are laid using trenchless technology, there may be a necessity to lay the cable in open trench excavation. Hence provisions shall be made for both in the estimate and the bills shall be paid as per actual inventory taken.				

COST DATA SHEET - 22

**For laying of 1 Km Length of 11kV, 3 Core, 400 Sqmm XLPE UG Cable
Using Horizontal Drilling**

SL. No	Particulars	Unit	Qty	Material cost	
				Rate (Rs)	Amt (Rs)
1	11kV Class 3x400 Sqmm XLPE UG Cable (Round Armoured)	Km	1	2245566	2245566
2	Straight Through Jointing Kits HS Type suitable for 400 Sqmm Cable	Nos	3	9706	29118
3	Cable Termination Kit Outdoor HS Type Suitable for 400 Sqmm Cable	Per Kit	1	4750	4750
4	Cable Termination Kit Indoor HS Type Suitable for 400 Sqmm Cable	Per Kit	1	4268	4268
5	RCC Hume Pipe, 2000 mm Long, 150 mm Dia	Nos	3	300	900
6	Collars for RCC Hume pipe	Nos	2	80	160
7	GI Pipe, 150 mm Dia for drain crossing, cable raising etc.,	Mtrs	8	1242	9936
8	Route and Joint Indicating Stones	Nos	10	130	1300
	Total Material Cost				2295998
9	Labour charges				
	a) Laying of cable in trench in wherever necessary	Mtrs	50	43.751	2188
	b) Labour chargers for horizontal drilling with 6 inches bore size				0
	i) Without HDPE Pipe	Rmtr	50	706	35300
	ii) With HDPE pipe	Rmtr	900	848	763200
	c) Making of straight through joints	Nos	3	1865	5595
	d) Making of cable terminations	Nos	2	1709	3418
	e) Laying of RCC Hume pipes	Nos	60	44	2640
	f) Laying of GI Pipe	Mtr	8	50	400
	g) Laying of Route and Joint indicating stones	Nos	20	75	1500
	Total Labour cost				814241
	Total Estimate cost per KM				3110239
11	Add rates for Reinstatements of Roads	As per prevailing rates prescribed by local bodies (Corporations/ Municipalities/VPs)			
	NOTE				
1)	While preparing estimates for turnkey / total tunkey projects please refer to Sl. No. of General Guidelines vide a to in Page No.				
2)	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtrs x 1 Mtrs 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-45				
3)	Where cables are laid using trenchless technology, there may be a necessity to lay the cable in open trench excavation. Hence provisions shall be made for both in the estimate and the bills shall be paid as per actual inventory taken.				

COST DATA SHEET - 23

**For laying of 1 Km Length of 11kV, 3 Core, 400 Sqmm XLPE UG Cable
Using Conventional Laying with Excavation in Soil**

SL. No	Particulars	Unit	Qty	Material cost	
				Rate (Rs)	Amt (Rs)
1	11kV Class 3x400 Sqmm XLPE UG Cable (Round Armoured)	Km	1	2245566	2245566
2	Straight Through Jointing Kits HS Type suitable for 3x400 Sqmm Cable	Nos	3	9706	29118
3	Cable Termination Kit Outdoor HS Type Suitable for 3x400 Sqmm Cable	Per Kit	1	4750	4750
4	Cable Termination Kit Indoor HS Type Suitable for 3x400 Sqmm Cable	Per Kit	1	4268	4268
5	Cable Covering Tiles 250x125x40 mm or 125x125x40 mm	Nos	4000/8000	10/5	40000
6	Sand	Cmt	60	1700	102000
7	RCC Hume Pipe, 2000mm Long, 150mm Dia	Nos	30	300	9000
8	Collars for RCC Hume Pipe	Nos	30	80	2400
9	GI Pipe, 150 mm Dia for drain crossing, cable raising etc.,	Mtrs	8	1242	9936
10	Route and Joint indicating stones	Nos	20	130	2600
Total Material Cost					2449638
11	Labour charges				
	a) Cable trench excavation, 1000x0.6x1=600, Ordinary soil	Cmt	600	226	135600
	b) Laying of cable in trench	Km	1	43751	43751
	c) Refilling and consolidation	Cmt	550	50	27500
	d) Making of straight through joints	Nos	3	1865	5595
	e) Making of cable terminations	Nos	2	1709	3418
	f) Covering the cable with tiles	Km	1	2863	2863
	g) Spreading Sand and forming with Sand round the cable	Km	1	10061	10061
	h) Laying of RCC Hume pipes	Mtrs	60	44	2640
	i) Laying of GI Pipe	Mtrs	8	50	400
	j) Laying of Route and Joint indicating stones	Nos	20	75	1500
Total Labour cost					233328
Total Estimate cost per KM(Round Armoured)			2682966		
11	Add rates for Reinstatements of Roads	As per prevailing rates prescribed by local bodies (Corporations/ Municipalities/VPs)			
NOTE					
1)	While preparing estimates for turnkey / total tunkey projects please refer to Sl. No. of General Guidelines vide a to in Page No.				
2)	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtrs x 1 Mtrs 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-45				
3)	Where cables are laid using trenchless technology, there may be a necessity to lay the cable in open trench excavation. Hence provisions shall be made for both in the estimate and the bills shall be paid as per actual inventory taken.				