

COST DATA SHEET - 61

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

Sl No	Particulars	Unit	Qty	25 KVA			
				Material Cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	Part-A: TRANSFORMER						
	a) 9 Mtr PSCC DP Transformer Structure (Using 9 Mtr PSCC Poles of 300Kg WL)	No	1	23420	23420	4527	4527
2	11 KV, 5KN Polymeric Pin Insulator (24mm Dia FRP Rod)	Sets	3	180	540	0	0
3	11KV 45 KN Polymeric Insulator	Sets	3	164	492	0	0
4	Guy Set Complete with No.15 strain insulator & Concreting materials	Nos	4	830	3320	390	1560
5	11kV/433V, 25KVA, 3 Phase, 50 Cys Distribution Transformer Star-1 (Previous 4 star) Rated with Oil (For Rural area)	No	1	64900	64900	750	750
6	11kV/433V, 25KVA, 3 Phase, 50 Cys Distribution Transformer Star-2(Previous 5 star) Rated with Oil (For Urban city and self execution works)	No	1	74365	74365	750	750
7	Earthing materials pipe type for grounding as per Drawing No. BESCO/CP/15 & 34/ Dt: 24.10.07	Single Electrode with accessories	3	1501	4503	631	1893
8	Caution/Danger Board	No	1	146	146	53	53
9	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	2	76	152	28	56
10	Concreting for Guy sets without cement	Nos	4	0	0	174	696
11	GI Wire 8 SWG	Kgs	5	63.293	316.465	0	0
12	Guy wire 7/10 SWG	Kgs	10	65.137	651.37	0	0
	Total using 9 mtr PSCC Poles of 300Kg WL 4 star rated				98441		9535
	Total using 9 mtr PSCC Poles of 300Kg WL 5 star rated				107906		9535
13	Total for Part-A (Material + Labour)						
	Total using 9 mtr PSCC Poles of 300Kg WL 4 star rated					107976	
	Total using 9 mtr PSCC Poles of 300Kg WL 5 star rated					117441	
	Part-B:						
14	11kV Lightning Arester, Metal oxide, 9kV, 5kA Polymeric Type with ground disconnector	Set of 3 Nos	1	1335	1335	78	78
	Total for Part-B				1335		78
15	Total of Part B (Material+Labour)					1413	

Part-C: SWITCH GEAR							
	a) LT Protection Kit for 25 kVA	No	1	1651	1651	226	226
	b) LT Wiring (From DTC to LT Line Through Metering Box & LT Protection Kit) SINGLE CIRCUIT	No	1				
16	i. Al Lead Wire - 50 Sqmm	Mtrs	25	44.31	1107.75		625
	ii. Heavy Duty Long Barrel Copper Lugs - 50 Sqmm	Nos	4	40	160		
	iii. PG Clamps - Rabbit to 50 Sqmm	Nos	4	79	316		
	iv. Spacers for DTC Wiring	Nos	8	41	328		
	v. Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	Nos	2	150	300		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS-42)	No	1	5287	5287	566	566
	d) LT Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	No	1	2525	2525	694	694
17	11kV Solid Core Type HG Fuse Unit	Set/3 Nos	1	882	882	155	155
18	11kV, 200Amps, Single Break GOS	No	1	7799	7799	700	700
	Total Cost (Material) for Part-C				20356		2966
19	Total for Part-C					23322	
20	Total (A+B+C)						
	Total using 9 mtr PSCC Poles of 300Kg WL 4 star rated				120132		12579
	Total using 9 mtr PSCC Poles of 300Kg WL 5 star rated				129597		12579
21	Total (A+B+C)= (Material & Labour)						
	Total using 9 mtr PSCC Poles of 300Kg WL 4 star rated					132711	
	Total using 9 mtr PSCC Poles of 300Kg WL 5 star rated					142176	
							28435
Note: Provision for actual quantity of additional materials viz 45kN Disc Insulator, 11kV Pin Insulators ACSR/AAA Conductor, Transparent Alkathine Tube, PG Clamps and Terminal Connectors etc. Whenever required may be made in the estimate separately for							

Part-C: SWITCH GEAR							
	a) LT Protection Kit for 63 kVA	Nos	2	1651	3302	226	452
	b) LT Wiring (From DTC to LT Line Through Metering Box & LT Protection Kit) SINGLE CIRCUIT	No					
16	i. Al Lead Wire - 95 Sqmm	Mtrs	40	81.63	3265.2		1001
	ii. Heavy Duty Long Barrel Copper Lugs - 95 Sqmm	Nos	4	88	352		
	iii. PG Clamps - Rabbit to 95 Sqmm	Nos	4	108	432		
	iv. Spacers for DTC Wiring	Nos	8	41	328		
	v. Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	Nos	2	150	300		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS-42)	No	1	4867	4867	566	566
	d) LT Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	No	1	2525	2525	694	694
17	11kV Solid Core Type HG Fuse Unit	Set/ 3 nos	1	882	882	155	155
18	11kV, 200Amps, Single Break GOS	No	1	7799	7799	700	700
	Total Cost (Material) for Part-C				24052		3568
19	Total for Part-C (Material+Labour)					27620.2	
20	Total (A+B+C)						
	1.using 9 mtr PSCC Poles 300 kg WLwith 4 star rated transformer				179288		13181
	1.using 9 mtr PSCC Poles 300 kg WLwith 5 star rated transformer				187232		13181
21	Total (A+B+C) (Material + Labour)						
	1.using 9 mtr PSCC Poles 300 kg WLwith 4 star rated transformer					192469	
	2. using 9 mtr PSCC Poles 300kg WLwith 5 star rated transformer					200413	
Note: Provision for actual quantity of additional materials viz 45kN Disc Insulator, 11kV Pin Insulators ACSR/AAA Conductor, Transparent Alkathine Tube, PG Clamps and Terminal Connectors etc. Whenever required may be made in the estimate as per field requirement.							

COST DATA SHEET - 63

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

SI No	Particulars	Unit	Qty	100 KVA			
				Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	Part-A: TRANSFORMER						
	a) 9 Mtr PSCC DP Transformer Structure (Using 9 Mtr PSCC Poles of 300Kg WL)	No	1	23420	23420	4527	4527
2	11 KV, 5KN Polymeric Pin Insulator (24mm Dia FRP Rod)	Sets	3	180	540	0	0
3	11KV 45 KN Polymeric Insulator	Sets	3	164	492	0	0
4	Guy Set Complete with No.15 strain insulator & Concreting materials	Nos	4	830	3320	390	1560
5	11kV/433V, 100kVA, 3 Phase 50 Cys Distribution Transformer Star-1 (Previous 4 star) Rated with Oil (For Rural area)	No	1	148680	148680	1001	1001
6	11kV/433V, 100kVA, 3 Phase 50 Cys Distribution Transformer Star-2(Previous 5 star) Rated with Oil (For Urban city and self execution works)	No	1	155931	155931	1001	1001
7	Earthing materials pipe type for grounding as per Drawing No. BESCO/M/GM/CP/15 & 34/ Dt: 24.10.07	Single Electrode with accessories	3	1501	4503	631	1893
8	Caution/Danger Board	No	1	146	146	53	53
9	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	2	76	152	28	56
10	Guy concreting with Boulders, Mud and Sand	Nos	4	0	0	174	696
11	GI Wire 8 SWG	Kgs	5	63.293	316.465	0	0
12	Guy wire 7/10 SWG	Kgs	10	65.137	651.37	0	0
	Total using 9 mtr Poles with 4 star rated transformer				182221		9786
	Total using 9 mtr Poles with 5 star rated transformer				189472		9786
13	Total for Part-A (Material+Labour)						
	I) Using 9 mtr Poles with 4 star rated transformer					192007	
	I) Using 9 mtr Poles with 5 star rated transformer					199258	
	Part-B:						
14	11kV Lightning Arester, Metal Oxide 9kV, 5kA Polymeric Type with ground disconnector	Set of 3 Nos	1	1335	1335	78	78
	Total for Part-B				1335		78
15	Total for Part-B (Material+Labour)					1413	
	Part-C: SWITCH GEAR						
	a) LT Protection Kit for 100 kVA	Nos	2	1651	3302	226	452
	b) LT Distribution box for 100 kVA with MCB	No	1	17545	17545	501	501

	c) LT Wiring (From DTC to LT Line Through Merering Box & LT Protection Kit/LT Distribution Box) SINGLE CIRCUIT	No					
16	i. Al Lead Wire - 120 Sqmm	Mtrs	45	107.04	4816.8		1001
	ii. Heavy Duty Long Barrel Copper lugs - 120 Sqmm	Nos	12	96	1152		
	iii. PG Clamps - Rabbit to 120 Sqmm	Nos	4	210	840		
	iv. Spacers for DTC Wiring	Nos	8	41	328		
	v. Fish Plate with necessary Clamps,bolts & nuts etc complete (Galvanised)	Nos	2	150	300		
	d) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS-42)	No	1	4564	4564	566	566
	e) LT Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	Nos	1	2525	2525	694	694
17	11kV Solid Core Type HG Fuse Unit	Set/3 Nos	1	882	882	155	155
18	11kV, 200Amps, Single Break GOS	No	1	7799	7799	700	700
			With LT Protection kit		With Distribution Box		
19	Total Cost Part -C(Material)		26508.8		40751.8		
20	Total for Part-C (Labour)		3568		3617		
		material	labour	material	labour		
	Total (A+B+C)						
21	I) Using 9 mtr PSCC Poles 300kg WL with 4 star rated transformer	210065	13432	222973	13481		
22	I) Using 9 mtr PSCC Poles 300kg WL with 5 star rated transformer	216059	13432	230302	13481		
23	Total (A+B+C) (Material+Labour)						
	I) Using 9 mtr PSCC Poles 300kg WL with 4 star rated transformer		223497		236454		
	I) Using 9 mtr PSCC Poles 300kg with 5 star rated transformer		229491		243783		
Note: Provision for actual quantity of additional materials viz 45kN Disc Insulator, 11kV Pin Insulators ACSR/AAA Conductor, Transparent Alkathine Tube, PG Clamps and Terminal Connectors etc. Whenever required may be made in the estimate as per field requirement.							

COST DATA SHEET - 64

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

Sl No	Particulars	Unit	Qty	250 KVA			
				Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	Part-A: TRANSFORMER						
	a) 9 Mtr PSCC DP Transformer Structure (Using 9 Mtr PSCC Poles of 300Kg WL)	No	1	27314	27314	4662	4662
2	11 KV, 5KN Polymeric Pin Insulator (24mm Dia FRP Rod)	Sets	3	180	540	0	0
3	11KV 45 KN Polymeric Insulator	Sets	3	164	492	0	0
4	Guy Set Complete with No.15 strain insulator & Concreting materials	Nos	4	830	3320	390	1560
5	11kV/433V, 250kVA, 3 Phase, 50 Cys Distribution Transformer with oil Star-1 (Previous 4 star) Rated (For Rural area)	No	1	336300	336300	1502	1502
6	11kV/433V, 250kVA, 3 Phase, 50 Cys Distribution Transformer with oil Star-2 (Previous 5 star) Rated (For Urban city and self execution works)	No	1	386745	386745	1502	1502
7	Earthing materials pipe type for grounding as per Drawing No. BESCO/GM/CP/15 & 34/ Dt: 24.10.07	Single Electrode with accessories	3	1501	4503	631	1893
8	Caution/Danger Board	No	1	146	146	53	53
9	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	2	76	152	28	56
10	Guy concreting with Boulders, Mud and Sand	Nos	4	0	0	174	696
11	GI Wire 8 SWG	Kgs	5	63.293	316.465	0	0
12	Guy wire 7/10 SWG	Kgs	10	65.137	651.37	0	0
	Total using 9 mtr Poles with 4 star rated transformer				373735		10422
	Total using 9 mtr Poles with 5 star rated transformer				424180		10422
13	Total for Part-A (Material+Labour)						
	Total using 9 mtr Poles with 4 star rated transformer					384157	
	Total using 9 mtr Poles with 5 star rated transformer					434602	
	Part-B:						
14	11kV Lightning Arester, Metal Oxide 9kV, 5kA Polymeric Tpe with ground disconnector	Set of 3 Nos	1	1335	1335	78	78
	Total for Part-B				1335		78
15	Total of Part B (Material+Labour)					1413	

Part-C: SWITCH GEAR							
	a) LT Distribution box for 250kVA with MCCB	No	1	17644	17644	500	500
	b) LT Wiring (From DTC to LT Line via Metering Box & LT Protection Kit) SINGLE CIRCUIT	No					
16	i. Al Lead Wire - 240 Sqmm	Mtrs	45	198.54	8934.3		1602
	ii. Heavy Duty Long Barrel Copper lugs - 240 Sqmm	Nos	12	244	2928		
	iii. PG Clamps - Rabbit to 240 Sqmm	Nos	4	316	1264		
	iv. Spacers for DTC Wiring	Nos	8	41	328		
	v. Fish Plate with necessary Clamps,bolts & nuts etc complete (Galvanised)	Nos	2	150	300		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS-42)	No	1	4726	4726	566	566
	d) LT Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	Nos.	1	2525	2525	694	694
17	11kV Solid Core Type HG Fuse Unit	Set/ 3 nos	1	882	882	155	155
18	11kV, 200Amps, Single Break GOS	No	1	7799	7799	700	700
	Total Cost for Part-C				47330.3		4217
19	Total for Part-C (Material+Labour)					51547	
20	Total (A+B+C)						
	using 9 mtr PSCC Poles 250kg WL with 4 star rated transformer				422400		14717
	using 9 mtr PSCC Poles 250kg WL with 5 star rated transformer				472845		14717
21	Total (A+B+C)= (Material+Labour)						
	using 9 mtr PSCC Poles 250kg WL with 4 star rated transformer					437117	
	using 9 mtr PSCC Poles 250kg WL with 5 star rated transformer					487562	

Note: Provision for actual quantity of additional materials viz 45kN Disc Insulator, 11 kV Pin Insulators ACSR/AAA Conductor, Transparent Alkathine Tube, PG Clamps and Terminal Connectors etc. Whenever required may be made in the estimate as per field requirement.

- 1 While preparing estimates for turnkey / total turnkey projects please refer to Sl. No. of General Guidelines vide a to in Page No.

COST DATA SHEET - 65

Erection of 3 Phase, 11kV/433V, 25kVA BEE 4/5 Star Rated Single Pole Mounted Transformer Centre on 9 Mtrs PSCC Pole 300kg WL

Sl. No	Materials	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	9 Mtr long PSCC pole of 300kg WL	No	1	4686	4686	1166	1166
2	11 KV, 5KN Polymeric Pin Insulator (24mm Dia FRP Rod)	Nos	3	180	540	0	0
3	11KV 45 KN Polymeric Insulator	Nos	3	164	492	0	0
4	Guy Set Complete with No.15 strain insulator & Concreting materials	Set	1	830	830	390	390
5	Single pole TC set suitable for 25 kVA Transformer	Set	1	9576	9576	1733	1733
6	11kV/433V, 25kVA, 3 Phase, 50 Cys Distribution Transformer BEE-4 Star Rated with Oil	No	1	64900	64900	750	750
7	11kV/433V, 25kVA, 3 Phase, 50 Cys Distribution Transformer BEE-5 Star Rated with Oil	No	1	74365	74365	750	750
8	Earthing materials pipe type for grounding as per Drawing No. BESCO/GM/CP/15 & 34/ Dt: 24.10.07	Single Electrode with accessories	3	1501	4503	631	1893
9	Concreting materials for 9 mtr PSCC Pole						
	a) Base concreting 1:4:8, 500x650x150 mm	Each	1	0	0	237	237
	b) Pole concreting 1:2:4, 650x500x1700	Each	1	0	0	2746	2746
	c) Coping 1:2:4 (as per actuals)	Each	1	0	0	471	471
10	Guy concreting with Boulders, Mud and Sand	No	1	0	0	174	174
11	GI Wire 8 SWG	Kgs	5	63.293	316.465	0	0
12	Guy Wire 7/10 SWG	Kgs	10	65.137	651.37	0	0
13	11kV Lightning Arrester, Metal Oxide 9kV, 5kA Polymeric Tpe with ground disconnecter	Set/3 Nos	1	1335	1335	78	78
14	a) LT Protection Kit for 25 kVA	No	1	1651	1651	226	226
	b) LT Wiring (From DTC to LT Line Through Metering Box & LT Protection Kit) SINGLE CIRCUIT	No					
	i. Al Lead Wire - 50 Sqmm	Mtrs	25	44.31	1107.75	625	
	ii. Heavy Duty Long Barrel Copper lugs - 50 Sqmm	Nos	4	40	160		
	iii. PG Clamps - Rabbit to 50 Sqmm	Nos	4	79	316		
	iv. Spacers for DTC Wiring	Nos	8	41	328		
	v. Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	Nos	2	150	300		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS-42)	No	1	5287	5287	566	566
d) LT Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	No	1	2525	2525	694	694	

15	11kV Solid Core Type HG Fuse Unit	Set/3 Nos	1	882	882	155	155
16	11kV, 200Amps, Single Break GOS	Nos	1	7799	7799	700	700
17	Caution/Danger Board	No	1	146	146	53	53
18	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kg	1	76	76	28	28
19	Total Cost						
	For 25kVA 4 star rated transformer on single pole structure				108408		12685
	For 25kVA 5 star rated transformer on single pole structure				117873		12685
20	Total Cost (Material+Labour)						
	For 25kVA 4 star rated transformer on single pole structure				121092.585		
	For 25kVA 5 star rated transformer on single pole structure				130557.585		

Note: Provision for actual quantity of additional materials viz 45kN Disc Insulator, 11 kV Pin Insulators ACSR/AAA Conductor, Transparent Alkathine Tube, PG Clamps and Terminal Connectors etc. Whenever required may be made in the estimate as per field requirement.

COST DATA SHEET - 66

Erection of 3 Phase, 11kV/433V, 63kVA BEE 3 Star Rated Single Pole Mounted Transformer Centre on 9 Mtrs PSCC Pole 300kg WL

Sl. No	Materials	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	9 Mtr long PSCC pole of 300kg WL	No	1	CDS Will be prepared after approval of DEI			
2	11 KV, 5KN Polymeric Pin Insulator (24mm Dia FRP Rod)	Nos	3				
3	11KV 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, 63kVA, 3 Phase, 50 Cys Distribution Transformer BEE-3 Star Rated with Oil	No	1				
7	Earthing materials pipe type for grounding as per Drawing No. BESCO/GM/CP/15 & 34/ Dt: 24.10.07	Single Electrode with accessories	3				
8	Concreting materials for 9 mtr RCC 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				
9	Concreting materials for Guy sets (without cement)	No	1				
10	GI Wire 8 SWG	Kgs	5				
11	Guy Wire 7/10 SWG	Kgs	10				
12	11kV Lightning Arester, Metal Oxide 9kV, 5kA	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. Copper lugs - 95 Sqmm	Nos	4				
	iii. PG Clamps - Rabbit to 95 Sqmm	Nos	4				
	iv. Spacers 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-42)	No	1				
d) LT Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	No	1					
14	11kV Solid Core Type HG Fuse Unit	Set/3 Nos	1				
15	11kV, 200Amps, Single Break GOS	Nos	1				
16	Caution/Danger Board	No	1				
17	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kg	1				
18	Total material cost				0		
Total cost for Erection of a Single Pole Mounted 63kVA Transformer in Rs						#REF!	

COST DATA SHEET - 67

Erection of 3 Phase, 11kV/433V, 100kVA BEE 3 Star Rated Single Pole Mounted Transformer Centre on 9 Mtrs PSCC Pole 300kg WL

Sl. No	Materials	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	9 Mtr long PSCC pole of 300kg WL	No	1	CDS Will be prepared after approval of DEI			
2	11 KV, 5KN Polymeric Pin Insulator (24mm Dia FRP Rod)	Nos	3				
3	11KV 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 100 kVA Transformer	Set	1				
6	11kV/433V, 100kVA, 3 Phase, 50 Cys Distribution Transformer BEE-3 Star Rated with Oil	No	1				
7	Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/15 & 34/Dt: 24.10.07.	Single Electrode with accessories	3				
8	Providing Concreting for 9 mtr RCC Pole						
	a) Base concreting 1:4:8, 500x650x150 mm	Each	1				0
	b) Pole concreting 1:2:4, 650x500x1700	Each	1				0
	c) Coping 1:2:4 (as per actuals)	Each	1				0
9	Concreting materials for Guy sets (without cement)	No	1				0
10	GI Wire 8 SWG	Kgs	5				
11	Guy Wire 7/10 SWG	Kgs	10				
12	11kV Lightning Arester, Metal Oxide 9kV, 5kA	Set/3 Nos	1				
13	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	Mtrs	45				
	ii. Copper lugs - 120 Sqmm	Nos	12				
	iii. PG Clamps - Rabbit to 120 Sqmm	Nos	4				
	iv. Spacers for DTC Wiring	Nos	8				
	v. Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	Nos	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 5A, Class-0.5/1.0 accuracy	No	1					
14	11kV Solid Core Type HG Fuse Unit	Set/3 Nos	1				
15	11kV, 200Amps, Single Break GOS	Nos	1				
16	Caution/Danger Board as per Drawing No. BESCOM/GM/CP/40/ Dt: 24.10.07	No	1				
17	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kg	1				
18	Total Material Cost						
	a) With LT Distribution Box						
	b) With LT Protection Kit						
19	Labour Charges	for LT Distribution Box		for LT Protection Kit			
	a) Casual		0			0	
	b) Regular		0			0	
	Total						
Total Cost for Erection of a Single Pole Mounted 100kVA Transformer with LT Distribution Box in Rs					0		
Total Cost for Erection of a Single Pole Mounted 100kVA Transformer with LT Protection KIT in Rs					0		

COST DATA SHEET - 68

Running Single Circuit 11kV, 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 9mtr PSCC pole of 300kg WL for Dead Ends and Anchor Points

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Poles 9 Mtr long with 300 Kg WL	Nos	10	4686	46860	1166	11660
2	PSCC Poles 9 Mtr long with 200 Kg WL	Nos	24	3689	88536	1166	27984
3	11kV Class 3 phase Aerial Bunched Cable 3x95 + 70 Sqmm	Kms	1.03	680510	700925.3	22469	23143.1
4	Cable Straight thru' joint kits suitable for 95 Sqmm	Set/3 Nos	6	6813	40878	911	5466
5	11 KV AB Cable Termination Kits fo 95 to 120 Sqmm	Set/3 Nos	6	2532	15192	770	4620
6	Suspension Clamp Assembly 16 to 70 mm (Excluding pole clamp & Eye Hook)	Sets	30	196	5880	127	3810
7	Pole clamp for HT/LT AB cable	Sets	30	103	3090	211	6330
8	Eye Hook (Flat type) for fixing Clamps	Sets	30	90	2700	0	0
9	Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sq mm (excluding pole clamps and Eye hook)	Sets	12	206	2472	169	2028
10	End Caps	Nos	10	20	200	6	60
11	11kV Lightning Arrester, Metal Oxide 9kV, 5kA Polymeric Type with ground disconnecter	Set (3Nos)	2	1335	2670	78	156
12	Guy Set Complete with No. 8 strain insulator & Concreting materials	Sets	6	830	4980	390	2340
13	Guy concreting with Boulders, Mud and Sand	Sets	6	0	0	174	1044
14	Grounding connection for messenger wire	Nos	4	12	48	29	116
15	Spiral Earth Electrodes	Nos	34	165	5610	61	2074
	Total Cost of Material & Labour				920041		90831
16	Total Cost of the Estimate					1010872	

Note

1. While preparing estimates for turnkey / total turnkey projects please refer to Sl. No. To general guidelines vide a to page No. To
2. Any other item required as per filed requirement may be included/deleted.

COST DATA SHEET - 69

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

SL. No	Particulars	Unit	Qty	Material cost (Rs)		Labour Cost (Rs)	
				Rate	Amt	Rate	Amt
1	PSCC Poles 9 Mtr long with 300 Kg WL	Nos	10	4686	46860	1166	11660
2	PSC Poles 9 Mtr long with 200 Kg WL	Nos	15	3689	55335	1166	17490
3	1.1kV Class 3 Phase Aerial Bunched Cable of size 3x95+1x16+1x70 Sqmm	kms	1.03	435622	448691	22469	23143
4	Three Phase Distribution box for 6 Connections	Nos	20	2128	42560	592	11840
5	Piercing connector suitable for 16 Sqmm - 95 Sqmm AB Cable - Service Connections	Nos	80	235	18800	85	6800
6	Piercing connector suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connections	Nos	50	165	8250	59	2950
7	Suspension Clamp Assembly 16 to 70 mm (Excluding pole clamp & Eye Hook)	Sets	20	196	3920	127	2540
8	Pole clamp for HT/LT AB cable	Sets	20	103	2060	211	4220
9	Eye Hook (Flat type) for fixing Clamps	Sets	20	90	1800	0	0
10	Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sq mm (excluding pole clamps and Eye hook)	Sets	16	135	2160	169	2704
11	Universal Hook, Bolts & nuts	Nos	16	314	5024	127	2032
12	T-connector KZ3 95	Nos	20	348	6960	143	2860
13	Cable Straight thru' joints suitable for 95 Sqmm LT ABC	Sets	5	373	1865	169	845
14	Pre-Insulated lugs-CPTAU for 95 Sqmm	Nos	8	348	2784	176	1408
15	End cap for 50/70 Sqmm	Nos	50	20	1000	6	300
16	Guy Set Complete with No. 8 strain insulator & Concreting materials	Sets	8	830	6640	390	3120
17	Guy concreting with Boulders, Mud and Sand	Sets	8	0	0	174	1392
18	PVC Insulated wire 25 Sqmm	Mtrs	400	32.31	12924	0	0
19	Spiral Earth Electrodes	Nos	25	165	4125	61	1525
	Total Cost of Material & Labour				671758		96829
	Total Cost of the Estimate					768587	

Note

1. While preparing estimates for turnkey / total turnkey projects please refer to Sl. No. To general guidelines vide a to page No. To
2. Any other item required as per filed requirement may be included/deleted.

COST DATA SHEET - 70

Running LT, 3-Phase 4 Wire Power Line on 8.0 Mtr Supports Using WEASEL ACSR Conductor with an Average Span of 60 Mtrs using 8 mtr PSCC Poles of 200kg 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	Nos	18	3054	54972	932	16776
2	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSCC poles)	Sets	18	266	4788	106	1908
3	1.1 kV Pin Insulators with GI Pins	Nos	64	48	3072	0	0
4	No.8 Strain Insulators	Nos	8	16	128	0	0
5	Guy Set Complete with No. 8 strain insulator & Concreting materials	Sets	8	811	6488	390	3120
6	Weasel ACSR Conductor	Kms	4.06	21552	87501	2104	8542
7	Spiral Earth Electrode	Nos	18	165	2970	61	1098
8	Guy concreting with Boulders, Mud and Sand	Nos	8	0	0	174	1392
9	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	18	76	1368	28	504
	Total				161287		33340
	Total Cost/Km in Rs.				194627		
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 - 71

Running LT, Single Phase 3 Wire Power Line on 8.0 Mtr Supports with an Average Span of 40 Mtrs Using WEASEL ACSR Conductor and 8mtrs PSCC poles 200kg 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 Mtrs Long, 200 kg WL (for Intermediate Poles)	Nos	25	3054	76350	932	23300
2	LT 4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSCC poles)	Sets	30	266	7980	106	3180
3	LT 2 Pin cross arms, with pole clamps, bolts, nuts (for PSCC poles)	Sets	25	162	4050	106	2650
4	1.1kV Pin Insulators with GI Pins	Nos	48	48	2304	0	0
5	No.8 Strain Insulators	Nos	21	16	336	0	0
6	Guy Set Complete with No. 8 strain insulator & Concreting materials	Sets	8	882	7056	390	3120
7	Weasel ACSR Conductor	Kms	3.045	21552	65625.84	2104	6406.68
8	Spiral Earth Electrode	Nos	25	165	4125	61	1525
9	Guy concreting with Boulders, Mud and Sand	Nos	8	0	0	174	1392
10	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
11	PVC Pipe 40 mm Dia	Mtrs	6	46	276	0	0
12	PVC Insulated wire 25 Sqmm Single Core Multi Stranded	Mtrs	25	32.31	807.75	0	0
13	Anti Climbing Device (12mtrs GI Barbed Wire) Lumpsum	Kgs	25	76	1900	28	700
	Total				176765		42896
	Total Cost/Km in Rs.				219660		
Note:	Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						