

COST DATA SHEET - 49

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	Mtrs	200
2	Copper lugs - 240 Sqmm	Nos	184
3	PG Clamps - Rabbit to 240 Sqmm	Nos	307
4	Spacers for DTC Wiring	Nos	38
5	4 Pin Cross Arm with necessary Clamps,bolts & nuts etc complete (Galvanised)	Nos	352
6	Fish Plate with necessary Clamps,bolts & nuts etc complete (Galvanised)	Nos	155

LT Wiring for - 100 KVA			
Sl No	Material	Unit	Rate/Unit (in Rs)
1	Al Lead Wire - 120 Sqmm	Mtrs	108
2	Copper lugs - 120 Sqmm	Nos	77
3	PG Clamps - Rabbit to 120 Sqmm	Nos	204
4	Spacers for DTC Wiring	Nos	38
5	4 Pin Cross Arm with necessary Clamps,bolts & nuts etc complete (Galvanised)	Nos	352
6	Fish Plate with necessary Clamps,bolts & nuts etc complete (Galvanised)	Nos	155

LT Wiring for - 63 KVA			
Sl No	Material	Unit	Rate/Unit (in Rs)
1	Al Lead Wire - 95 Sqmm	Mtrs	82
2	Copper lugs - 95 Sqmm	Nos	71
3	PG Clamps - Rabbit to 95 Sqmm	Nos	105
4	Spacers for DTC Wiring	Nos	38
5	4 Pin Cross Arm with necessary Clamps,bolts & nuts etc complete (Galvanised)	Nos	352
	Fish Plate with necessary Clamps,bolts & nuts etc complete (Galvanised)	Nos	155

LT Wiring for - 25 KVA			
Sl No	Material	Unit	Rate/Unit (in Rs)
1	Al Lead Wire - 50 Sqmm	Mtrs	45
2	Copper lugs - 50 Sqmm	Nos	30
3	PG Clamps - Rabbit to 50 Sqmm	Nos	66
4	Spacers for DTC Wiring	Nos	38
5	4 Pin Cross Arm with necessary Clamps,bolts & nuts etc complete (Galvanised)	Nos	352
6	Fish Plate with necessary Clamps,bolts & nuts etc complete (Galvanised)	Nos	155

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

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

COST DATA SHEET - 48

Consolidated Labour charges for shifting of conductor and all other fittings existing on the deteriorated pole while replacing intermediate poles(Does not include labour charges for releasing and erection of pole)

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	Rs.2200/-

COST DATA SHEET - 47

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 charges for releasing and erection of pole)

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	Rs.3000/-

COST DATA SHEET - 46

Estimate for carrying out 1 to 4 (ONE to FOUR) poles works in respect of Service Main Connection and E&I Works only

(Not applicable for any other type of work)

SL. No	Paritculars	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	4238
		Nos	2	5650
		Nos	3	7063
		Nos	4	8475
			5 & Above	as per Common SR 2016-17

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 - 45

Estimate for Carrying Out 3 to 5 (THREE to FIVE) Poles Works in respect of Ganga Kalyana and Drinking Water Supply Works only

(Not applicaple 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.	Nos	1	13949	

Note:-

- 1 **The labour charges includes all works such as digging of pits, Errection of Poles, Fixing of Cross Arms, insulators, Stringing of wire, providing guy sets.**
- 2 **No other labour charges or any other charges towards special locality allowance LC Charges, additional labour charges, transportation charges etc., are payable.**
- 3 **Estimates coverig more than 3 pole works shall not split to bring them into this catageory.**
- 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 - 44

Estimate for Carrying Out 1 to 2 (One to Two) Poles Works in respect of Ganga Kalyana and Drinking Water Supply Works only

(Not applicaple 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.	Nos	1	8829

Note:-

- 1 **The labour charges includes all works such as digging of pits, Erection of Poles, Fixing of Cross Arms, insulators, Stringing of wire, providing guy sets.**
- 2 **No other labour charges or any other charges towards special locality allowance LC Charges, additional labour charges, transportation charges etc., are payable.**
- 3 **Estimates coverig more than 2 pole works shall not split to bring them into this catageory.**
- 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

For providing LT Capacitor to the Distribution Transformer

Sl. No	Materials	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	Fixing 3 kVAR, 3 Phase, LT Capacitor housed in a enclosure with necessary Fuses, wiring, mounting arrangement for 15/25kVA DTC (including connection to transformer, grounding etc., complete)	Set	1	525	525	382	382
2	Fixing 9 kVAR, 3 Phase, LT Capacitor housed in a enclosure with necessary Fuses, wiring, mounting arrangement for 63kVA DTC (including connection to transformer, grounding etc., complete)	Set	1	931	931	382	382
3	Fixing 18 kVAR, 3 Phase, LT Capacitor housed in a enclosure with necessary Fuses, wiring, mounting arrangement for 100kVA DTC (including connection to transformer, grounding etc., complete)	Set	1	1733	1733	450	450
4	Fixing 27 kVAR, 3 Phase, LT Capacitor housed in a enclosure with necessary Fuses, wiring, mounting arrangement for 250kVA DTC (including connection to transformer, grounding etc., complete)	Set	1	2758	2758	525	525
5	Fixing 54 kVAR, 3 Phase, LT Capacitor housed in a enclosure with necessary Fuses, wiring, mounting arrangement for 300/500 kVA DTC (including connection to transformer, grounding etc., complete)	Set	1	4883	4883	549	549
6	Wiring Materials for connecting the Capacitors to the Transformer (16 Sqmm Single Core PVC insulated sheathed aluminium wire, aluminium lugs, 2mm thick 40mm dia PVC pipe with Bend) and connecting the capacitor box to existing grounding	Set	1	200	200	0	0
	Total					Material + Labour	Material Labour
	a) For 25KVA Transformer					1107	725 382
	b) For 63KVA Transformer					1513	1131 382
	c) For 100KVA Transformer					2383	1933 450
	d) For 250KVA Transformer					3483	2958 525
	e) For 300/500 KVA Transformer					5632	5083 549
1	While preparing estimates for turnkey / total turnkey projects please refer to Sl. No. To general guidelines vide a to page No. To						

COST DATA SHEET - 42

For 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		Labour Cost	
				Rate	Amt	Rate	Amt
1	LT CT's Class - 1 Accuracy Ring Type Ratio 50/5 for 15/25kVA DTC	Nos	3	554	1662	63	189
2	LT CT's Class - 0.5 Accuracy Ring Type Ratio 100/5 for 50/63kVA DTC	Nos	3	408	1224	63	189
3	LT CT's Class - 0.5 Accuracy Ring Type Ratio 150/5 for 100kVA DTC	Nos	3	306	918	63	189
4	LT CT's Class - 0.5 Accuracy Ring Type Ratio 400/5 for 250kVA DTC	Nos	3	360	1080	63	189
5	LT CT's Class - 0.5 Accuracy Ring Type Ratio 800/5 for 500 kVA DTC	Nos	3	405	1215	63	189
6	Electronic Trivector Meter 3 Phase, 4 Wire, Accuracy 0.5 CI	No	1	2250	2250	631	631
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	4000	4000	325	325
Total Cost in Rs.				With Meter		Without Meter	
	a) 15/25kVA DTC			7912	1145	5662	514
	b) 63kVA DTC			7474	1145	5224	514
	c) 100kVA DTC			7168	1145	4918	514
	d) 250kVA DTC			7330	1145	5080	514
	e) 500kVA DTC			7465	1145	5215	514
1	While preparing estimates for turnkey/total turnkey projects please refer to Sl. No. To general guidelines vide a to page No. To						

COST DATA SHEET - 41

Providing Compact Pre-fabricated Packaged Sub-station 11kV/433V

Sl No	Particulars	Unit	Total Cost
1	Packaged Sub-station 11kV/433V consisting of 3 Way SF6/VCB insulated Compact RMU, Oil cooled type Copper Wound Transformer and LT section with one ACB as incoming and 7		
	(i) With 100kVA oil cooled Transformer	Set	Will be Furnished after the report of the committee
	(ii) With 250kVA oil cooled Transformer	Set	
	(iii) With 500kVA oil cooled Transformer	Set	
	(iv) With 750kVA oil cooled Transformer	Set	
	(v) With 990kVA oil cooled Transformer	Set	
	(vi) With 100kVA Dry Type Transformer	Set	
	(vii) With 250kVA Dry Type Transformer	Set	
	(viii) With 500kVA Dry Type Transformer	Set	
	(ix) With 750kVA Dry Type Transformer	Set	
	(x) With 990kVA Dry Type Transformer	Set	
2	Installing & fixing the compact pre-fabricated packaged sub-station 100/250/500/750/990 kVA transformer on the existing concrete plinth.(This does not include the cost of		
	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	Revised Cost Data Sheet will be furnished after the rates for CSS, RMU etc. are finalised by the committee.		

COST DATA SHEET - 40

Installing RLMU for the Existing 100kVA Distribution Transformer Center

Sl No	Particulars	Unit	Qty	Material cost	
				Rate	Amt
1	Metallic Enclosure with Busbars	No	1	10752	10752
2	Programmable Logic Controllers with communication ports	No	1	19339	19339
3	GSM Modem	No	1	7642	7642
4	MCCB - 150 Amps for 100 kVA DTC	No	1	1700	1700
5	MCB 6 amps	No	1	210	210
6	Contactors - 160 Amps for 100 kVA DTC	No	2	5775	11550
7	Current Transformers 150/5 amps for 100 kVA DTC	No	3	306	918
8	Electronic Trivector Meter 3 Phase, 4 Wire, Accuracy 0.5 Cl	No	1	2250	2250
9	Transformer wiring kit to Connect RLM Unit box to the transformer using PVC sheathed aluminium lead wire, Lugs etc.,	Kit	1	7322	7322
10	Miscellaneous materials	LS	LS	62	62
	Total Cost (Material)				61745
11	Labour Charges				
	a) Casual				3483
	b) Regular				697
12	Total Cost			65925	
1)	While preparing estimates for turnkey / total tunkey projects please refer to Sl. No. of General Guidelines vide a to in Page No.				

COST DATA SHEET - 39

Installing RLMU for the Existing 63 kVA Distribution Transformer Center

Sl No	Particulars	Unit	Qty	Material cost	
				Rate	Amt
1	Metallic Enclosure with Busbars	No	1	10752	10752
2	Programmable Logic Controllers with communication ports	No	1	19339	19339
3	GSM Modem	No	1	7642	7642
4	MCCB - 100 Amps for 63 kVA DTC	No	1	1500	1500
5	MCB 6 amps	No	1	210	210
6	Contactors - 100 Amps for 63 kVA DTC	No	2	3280	6560
7	Current Transformers 100/5 amps for 63 kVA DTC	No	3	408	1224
8	Electronic Trivector Meter 3 Phase, 4 Wire, Accuracy 0.5 Cl	No	1	2250	2250
9	Transformer wiring kit to Connect RLM Unit box to the transformer using PVC sheathed aluminium lead wire, Lugs etc.,	Kit	1	4612	4612
10	Miscellaneous materials	LS	LS	23	23
	Total Cost (Material)				54112
11	Labour Charges				
	a) Casual				3483
	b) Regular				697
	Total Cost				58292
1)	While preparing estimates for turnkey/total tunkey projects please refer to Sl. No. of General Guidelines vide a to in Page No.				

COST DATA SHEET - 38

Installing RLMU for the Existing 15/25kVA Distribution Transformer Center

Sl No	Particulars	Unit	Qty	Material cost	
				Rate	Amt
1	Metallic Enclosure with Busbars	No	1	10752	10752
2	Programmable Logic Controllers with communication ports	No	1	19339	19339
3	GSM Modem	No	1	7642	7642
4	MCCB - 40 Amps for 15/25 kVA DTC	No	1	1485	1485
5	MCB 6 amps	No	1	210	210
6	Contactors - 40 Amps for 15/25 kVA DTC	No	2	2010	4020
7	Current Transformers 50/5 amps for 15/25 kVA DTC	No	3	554	1662
8	Electronic Trivector Meter 3 Phase, 4 Wire, Accuracy 0.5 Cl	No	1	2250	2250
9	Transformer wiring kit to Connect RLM Unit box to the transformer using PVC sheathed aluminium lead wire, Lugs etc.,	Kit	1	2060	2060
10	Miscellaneous materials	LS	LS	147	147
	Total Cost of Material				49567
11	Labour Charges				
	a) Casual				3483
	b) Regular				697
	Total Cost				53747
Note:	(1) For 15 /25 kVA Transformer feeding to individual IP sets, use only one contactor & without MCCB .				
1)	While preparing estimates for turnkey / total tunkey projects please refer to Sl. No. of General Guidelines vide a to in Page No.				

COST DATA SHEET - 37

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)

SL. No	Particulars	Unit	Qty	Material cost		Labour Cost		
				Rate	Amt	Rate	Amt	
1	RCC Poles 9 Mtr long with 145 Kg WL	Nos	10	5941	59410	1060	10600	
2	PSC Poles 9 Mtr long with 200 Kg WL	Nos	15	3401	51015	1060	15900	
Note:	RCC Poles shall be used for dead ends, DP structure and PSC poles for intermediate supports and hence the quantity of RCC and PSC poles may be revised as per field condition.							
3	1.1kV Class 3 Phase Aerial Bunched Cable of size 3x95+1x16+1x70 Sqmm	kms	1.015	410000	416150	20426	20732	
4	Three Phase Distribution box for 6 Connections	Nos	20	2065	41300	538	10760	
5	Piercing connector suitable for 16 Sqmm - 95 Sqmm AB Cable - Service Connections	Nos	60	228	13680	77	4620	
6	Piercing connector suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connections	Nos	25	160	4000	54	1350	
7	Suspension Clamp Assembly 16 to 70 mm (Excluding pole clamp & Eye Hook)	Sets	20	190	3800	115	2300	
8	Pole clamp for HT/LT AB cable	Sets	20	100	2000	192	3840	
	Eye Hook (Flat type) for fixing Clamps	Sets	20	90	1800	0	0	
8	Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sq mm (excluding pole clamps and Eye hook)	Sets	16	200	3200	115	1840	
9	Universal Hook, Bolts & nuts	Nos	16	305	4880	115	1840	
10	T-connector KZ3 95	Nos	8	338	2704	130	1040	
11	Cable Straight thru' joint kits suitable for 95 Sqmm	Sets	5	310	1550	192	960	
12	Pre-Insulated lugs-CPTAU for 95 Sqmm	Nos	8	338	2704	160	1280	
13	End cap for 50/70 Sqmm	Nos	50	19	950	5	250	
14	Guy Set Complete	Sets	8	723	5784	354	2832	
15	Concreting for Guy sets (without cement)	Sets	8	158	1264	0	0	
16	PVC Insulated wire 16/25 Sqmm	Mtrs	400	23.52	9408	0	0	
17	Spiral Earth Electrodes	Nos	25	207	5175	55	1375	
	Total Cost of Materials				630774			
18	Labour Charges							
	a) Casual						81519	
	b) Regular						16304	
	Total Cost/Km in Rs.					728597		
1	While preparing estimates for turnkey / total turnkey projects please refer to Sl. No. To general guidelines vide a to page No. To							

COST DATA SHEET - 36

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)

SL. No	Particulars	Unit	Qty	Material cost		Labour Cost		
				Rate	Amt	Rate	Amt	
1	RCC Poles 9 Mtr long with 145 Kg WL	Nos	10	5941	59410	1060	10600	
2	PSC Poles 9 Mtr long with 200 Kg WL	Nos	24	3401	81624	1060	25440	
Note:	RCC Poles shall be used for dead ends, DP structure and PSC poles for intermediate supports and hence the quantity of RCC and PSC poles may be revised as per field condition.							
3	11kV Class 3 phase Aerial Bunched Cable 3x95 + 70 Sqmm	Kms	1.015	631000	640465	20426	20732	
4	Cable Straight thru' joint kits suitable for 95 Sqmm	Nos	6	5650	33900	828	4968	
6	11 KV AB Cable Termination Kits fo 95 to 120 Sqmm	Nos	6	2100	12600	700	4200	
7	Suspension Clamp Assembly 16 to 70 mm (Excluding pole clamp & Eye Hook)	Sets	30	190	5700	115	3450	
	Pole clamp for HT/LT AB cable	Sets	30	100	3000	192	5760	
8	Eye Hook (Flat type) for fixing Clamps	Sets	30	90	2700	0	0	
	Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sq mm (excluding pole clamps and Eye hook)	Sets	12	200	2400	115	1380	
9	End Caps	Nos	10	19	190	5	50	
10	11kV Lightning Arrester, Metal Oxide 9kV, 5kA	Set (3Nos)	2	2409	4818	107	214	
11	Guy Set Complete	Sets	6	742	4452	354	2124	
12	Concreting for Guy sets (without cement)	Sets	6	158	948	0	0	
13	Grounding connection for messenger wire	Nos	4	122	488	26	104	
15	Spiral Earth Electrodes	Nos	34	207	7038	55	1870	
	Total Cost of Material				859733			
16	Labour Charges							
	a) Casual						80892.4	
	b) Regular						16178.5	
17	Total Cost/Km in Rs.					956803.9		

While preparing estimates for turnkey / total turnkey projects please refer to Sl. No. To general guidelines vide a to page No. To

COST DATA SHEET-35

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

Sl. No	Materials	Unit	Rate	Schenider Make		ABB Make		Siemens Make		MEI	
				Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1	RMU 1 VL, 350 MVA, 630Amps	No	Will be intimated	1	Will be intimated	1	Will be intimated	1	Will be intimated	1	Will be intimated
2	Bed Conceting with CC 1:2:4 as per Labour Charges	Cmt	5084	0.07	355.88	0.09	457.56	0.1	508.4	0.16	813.44
3	Foundation with Reinforcement CC 1:2:4 as per Labour Charges	Cmt	5084	0.29	1474.36	0.36	1830.24	0.14	711.76	0	0
4	Providing Reinforcement as per Labour Charges Item No. 28.1	Kgs	60.1	10	600.8	3.5	210.28	6	360.48	0	0
5	Providing Plinth with CC 1:2:4 on the Stone Masonary	Cmt	5084	0	0	0	0	0	0	0.02	101.68
6	Construction of Stone Masonary	Cmt	3829	0	0	0	0	0	0	0.14	536.06
7	Supplying of Frame of MS Channel 100x50mm and MS angle 40x40x5mm welding etc., complete.	Kgs	50	12	600	12	600	12	600	12	600
8	Rod type earthing with 40 mm Dia, 3 Mtrs long MS rod as per specification & drawing (enclosed)	No	2000	2	4000	2	4000	2	4000	2	4000
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	596	1	596	1	596	1	596	1	596
	Total cost of material.(Excluding Item No.1)				7627.04		7694.08		6776.64		6647.18
	Labour Charges										
1	Earth Excavation for R.M.U. Foundation depositing of earth on bank up to a lead of 50 mtrs and with a lift up to 1.5 mtrs	cmt	178	0.57	101.46	0.83	147.74	0.63	112.14	1.37	243.86
2	Labour charges for Fixing foundation frame of MS channel 100X50mm and MS angle 40X40X5mm welding, fixing in concrete, aligning the RMU on foundation bed, assembly of units, connecting Bus Bars from panel to panel etc., complete.	No.	2836	1	2836	1	2836	1	2836	1	2836
	Labour Charges				2937.46		2983.74		2948.14		3079.86
	a) Casual				2937		2984		2948		3080
	b) Regular				587		597		590		616
	Total cost of material.(Excluding RMU)				11152		11275		10314		10343
	Note:-										
1	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 furnished in Page No.										
2	While preparing estimates for turnkey / total turnkey projects please refere to Sl. No. To general guidelines vide a to page No. To										
3	Revised Cost Data Sheet will be furnished after the rates for CSS, RMU etc. are finalised by the committee.										

COST DATA SHEET-34

Providing Compact RMU 11kV Class SF6/VCB Type (10D)

Sl. No	Materials	Unit	Rate	Schenider Make		ABB Make		Siemens Make		MEI	
				Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1	RMU 1 OD , 350 MVA, 630Amps	No	Will be intimate d	1	Will be intimat ed	1	Will be intimate d	1	Will be intimate d	1	Will be intimate d
2	Bed Conceting with CC 1:2:4 as per Labour Charges	Cmt	5084	0.07	355.88	0.09	457.56	0.1	508.4	0.16	813.44
3	Foundation with Reinforcement CC 1:2:4 as per Labour Charges	Cmt	5084	0.29	1474.36	0.36	1830.24	0.14	711.76	0	0
4	Providing Reinforcement as per Labour Charges Item No. 28.1	Kgs	60.1	10	600.8	3.5	210.28	6	360.48	0	0
5	Providing Plinth with CC 1:2:4 on the Stone Masonary	Cmt	5084	0	0	0	0	0	0	0.02	101.68
6	Construction of Stone Masonary	Cmt	3829	0	0	0	0	0	0	0.14	536.06
7	Supplying of Frame of MS Channel 100x50mm and MS angle 40x40x5mm welding etc., complete.	Kgs	50	12	600	12	600	12	600	12	600
8	Rod type earthing with 40 mm Dia, 3 Mtrs long MS rod as per specification & drawing (enclosed)	No	2000	2	4000	2	4000	2	4000	2	4000
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	596	1	596	1	596	1	596	1	596
	Total cost of material.(Excluding Item No.1)				7627		7694.08		6776.64		6647.18
	Labour Charges										
1	Earth Excavation for R.M.U. Foundation depositing of earth on bank up to a lead of 50 mtrs and with a lift up to 1.5 mtrs	cmt	178	0.57	101.46	0.83	147.74	0.63	112.14	1.37	243.86
2	Labour charges for fixing foundation frame of MS channel 100X50mm and MS angle 40X40X5mm welding, fixing in concrete, aligning the RMU on foundation bed, assembly of units, connecting Bus	No.	2836	1	2836	1	2836	1	2836	1	2836
	Labour Charges				2937.5		2983.74		2948.14		3079.86
	a) Casual				2937		2984		2948		3080
	b) Regular				587		597		590		616
	Total cost of material.(Excluding RMU)				11152		11275		10314		10343
	Note:-										
1	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 furnished in Page No.										
2	While preparing estimates for turnkey / total turnkey projects please refer to Sl. No. To general guidelines vide a to page No. To										
3	Revised Cost Data Sheet will be furnished after the rates for CSS, RMU etc. are finalised by the committee.										

COST DATA SHEET-32

Providing Compact RMU 11kV Class SF6/VCB Type (1 Incomer + 2 Breaker + 1 Outgoing)

Sl. No	Materials	Unit	Rate	Schenider Make		ABB Make		Siemens Make		MEI	
				Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1	RMU (3 Way), One Incomer + Two Breakers + One out going (2OD + 2VL), 350 MVA, 630Amps	No	Will be intimated	1	Will be intimated	1	Will be intimated	1	Will be intimated	1	Will be intimated
2	Bed Conceting with CC 1:2:4 as per Labour Charges	Cmt	5084	0.15	762.6	0.37	1881.08	0.53	2694.52	0.64	3253.76
3	Foundation with Reinforcement CC 1:2:4 as per Labour Charges	Cmt	5084	0.65	3304.6	1.44	7320.96	0.56	2847.04	0	0
4	Providing Reinforcement as per Labour Charges Item No. 28.1	Kgs	60.1	40	2403.2	14	841.12	23	1381.84	0	0
5	Providing Plinth with CC 1:2:4 on the Stone Masonary	Cmt	5084	0	0	0	0	0	0	0.08	406.72
6	Construction of Stone Masonary	Cmt	3829	0	0	0	0	0	0	0.57	2182.53
7	Supplying of Frame of MS Channel 100x50mm and MS angle 40x40x5mm welding etc., complete.	Kgs	50	50	2500	50	2500	50	2500	50	2500
8	Rod type earthing with 40 mm Dia, 3 Mtrs long MS rod as per specification & drawing (enclosed)	No	2000	2	4000	2	4000	2	4000	2	4000
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,	No	596	1	596	1	596	1	596	1	596
	Total cost of material.(Excluding Item No.1)				13566.4		17139		14019.4		12939.01
	Labour Charges										
1	Earth Excavation for R.M.U. Foundation depositing of earth on bank up to a lead of 50 mtrs and with a lift up to 1.5 mtrs	cmt	178	1.29	229.62	3.33	592.74	2.63	468.14	5.72	1018.16
2	Labour charges for Fixing foundation frame of MS channel 100X50mm and MS angle 40X40X5mm welding, fixing in concrete, aligning the RMU on foundation bed, assembly of units, connecting	No.	2836	4	11344	4	11344	4	11344	4	11344
	Labour Charges				11574		11937		11812		12362
	a) Casual				11574		11937		11812		12362
	b) Regular				2315		2387		2362		2472
	Total cost of material.(Excluding RMU)				27455		31463		28194		27774
	Note:-										
1	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 furnished in Page No.										
2	While preparing estimates for turnkey / total turnkey projects please refer to Sl. No. To general guidelines vide a to page No. To										
3	Revised Cost Data Sheet will be furnished after the rates for CSS, RMU etc. are finalised by the committee.										

COST DATA SHEET-31

Erection of 3 Phase, 11kV/433V, 250 kVA Single Pole Mounted Distribution Transformer on 11.0 Mtr Spun Pole With 3 GOS System

Sl No	Materials	Unit	Qty	Material cost		Labour Cost		
				Rate	Amt	Rate	Amt	
1	Spun pole 11.0 Mtr Long	No	1	15800	15800	2353	2353	
2	Single Pole Transformer Structure Kit for 250kVA	Set	1	23035	23035	2033	2033	
3	HT Single Top Support with bolts, nuts & washers	Sets	9	89	801	64	576	
4	11kV Pin Insulator with pins	Nos	9	94	846	0	0	
5	Rabbit ACSR Conductor for jumps	Mtrs	50	33.68	1684	0	0	
6	Alkathene Tube 19mm Dia and in coils of 30 Mtrs	Coils	2	500	1000	0	0	
7	Concreting materials for 11 Mtrs Spun Pole							
	a) Base concreting 1:4:8, 1000x1000x150mm	Each	1	704	704	0	0	
	b) Pole concreting 1:2:4, 1000x1000x2500 mm	Each	1	11378	11378	0	0	
	c) Coping 1:2:4 (as per actuals)	Each	1	1050	1050	0	0	
8	GI Wire 10 SWG	Kgs	5	57.7	288	0	0	
9	Guy Wire 7/10 SWG	Kgs	10	56.267	563	0	0	
10	GI Pipe 100 mm Dia	Mtrs	10	1143	11430	0	0	
11	PVC Pipe 150 mm Dia	Mtrs	20	291	5820	0	0	
12	PVC Bend 150 mm Dia	Nos	8	200	1600	0	0	
13	PVC Pipe 25mm Dia	Mtrs	40	27	1080	0	0	
14	11kV/433V, 250kVA, 3 Phase, 50 Cys Distribution Transformer with oil	No	1	228340	228340	1365	1365	
15	11kV Solid Core Type HG Fuse Unit	Set/3 Nos	1	827	827	423	423	
16	11kV, 200Amps, Single Break GOS	Nos	3	6951	20853	636	1908	
17	Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/15 & 34/Dt: 24.10.07.	Single Electrode with accessories	3	1277	3831	573	1719	
18	a) LT Distribution Box for 250kVA with MCCB	No	1	16705	16705	455	455	
	b) LT Wiring (From DTC to LT Line via Metering Box & LT Protection Kit) SINGLE CIRCUIT	No	1					
	i. Al Lead Wire - 240 Sqmm	Mtrs	45	199	8955	728	728	
	ii. Copper lugs - 240 Sqmm	Nos	12	184	2208			
	iii. PG Clamps - Rabbit to 240 Sqmm	Nos	4	307	1228			
	iv. Spacers for DTC Wiring	Nos	8	38	304			
	v. Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	Nos	2	155	310			
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS-42)	No	1	5080	5080	514	514	
d) LT Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	No	1	2250	2250	631	631		
19	11kV Lightning Arrester, Metal Oxide, 9kV, 5kA	Set/3 Nos	1	2070	2070	71	71	
20	PVC Insulation Tape in rolls of 10 mtrs	Roll	3	10	30	0	0	
21	Horizontal Cross Arms	nos	4	316	1264	81	324	
22	MS Fish plate	Nos	9	51	459	20	180	
23	Caution/Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07	No	1	120	120	48	48	
24	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kg	2	64	128	25	50	
	Total cost of Material				372041			
25	Labour Charges							
	a) Casual							
	b) Regular							
	Total Cost in Rs				388095			

COST DATA SHEET - 30

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

Sl. No	Materials	Unit	Qty	Material cost		Labour Cost		
				Rate	Amt	Rate	Amt	
1	9 Mtr long RCC pole (Square Section)	No	1	7210	7210	1060	1060	
2	11kV Pin Insulators with pins	Nos	3	94	282	0	0	
3	45kN Disc Insulator	Nos	3	290	870	0	0	
4	Guy Set Complete	Set	1	742	742	354	354	
5	Single pole TC set suitable for 100 kVA Transformer	Set	1	6129	6129	1016	1016	
6	11kV/433V, 100kVA, 3 Phase, 50 Cys Distribution Transformer BEE-3 Star Rated with Oil	No	1	121422	121422	910	910	
7	Earthing materials pipe type for grounding as per Drawing No. BESCO/GM/CP/15 & 34/Dt: 24.10.07.	Nos	3	1277	3831	573	1719	
8	Providing Concreting for 9 mtr RCC Pole				0			
	a) Base concreting 1:4:8, 500x650x150 mm	Each	1	298	298	0	0	
	b) Pole concreting 1:2:4, 500x500x1700	Each	1	3214	3214	0	0	
	c) Coping 1:2:4 (as per actuals)	Each	1	444	444	0	0	
9	Concreting materials for Guy sets (without cement)	No	1	158	158	0	0	
10	GI Wire 8 SWG	Kgs	5	54.67	273.35	0	0	
11	Guy Wire 7/10 SWG	Kgs	10	57.7	577	0	0	
12	11kV Lightning Arester, Metal Oxide 9kV, 5kA	Set/3 Nos	1	2070	2070	71	71	
13	a) LT Protection Kit	No	2	1602	3204	205	410	
	b) LT Distribution Box for 100kVA with MCB	No	1	16705	16705	455	455	
	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	108	4860	568	568	
	ii. Copper lugs - 120 Sqmm	Nos	12	77	924			
	iii. PG Clamps - Rabbit to 120 Sqmm	Nos	4	204	816			
	iv. Spacers for DTC Wiring	Nos	8	38	304			
	v. Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	Nos	2	155	310			
d) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS-42)	No	1	4918	4918	514	514		
e) LT Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	No	1	2250	2250	631	631		
14	11kV Solid Core Type HG Fuse Unit	Set/3 Nos	1	827	827	423	423	
15	11kV, 200Amps, Single Break GOS	Nos	1	6951	6951	636	636	
16	Caution/Danger Board as per Drawing No. BESCO/GM/CP/40/ Dt: 24.10.07	No	1	120	120	48	48	
17	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kg	1	64	64	25	25	
18	Total Material Cost							
	a) With LT Distribution Box				186569			
	b) With LT Protection Kit				173068			
19	Labour Charges							
				for LT Distribution Box		for LT Protection Kit		
	a) Casual			8430		8385		
	b) Regular			1686		1677		
	Total							
	Total Cost for Erection of a Single Pole Mounted 100kVA Transformer with LT Distribution Box in Rs					196685		
	Total Cost for Erection of a Single Pole Mounted 100kVA Transformer with LT Protection KIT in Rs					183130		

COST DATA SHEET - 29

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

Sl. No	Materials	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	9 Mtr long RCC pole (Square Section)	No	1	7210	7210	1060	1060
2	11kV Pin Insulators with pins	Nos	3	94	282	0	0
3	45kN Disc Insulator	Nos	3	290	870	0	0
4	Guy Set Complete	Set	1	742	742	354	354
5	Single pole TC set suitable for 63 kVA Transformer	Set	1	4088	4088	1016	1016
6	11kV/433V, 63kVA, 3 Phase, 50 Cys Distribution Transformer BEE-3 Star Rated with Oil	No	1	93726	93726	682	682
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	1277	3831	573	1719
8	Concreting materials for 9 mtr RCC Pole						
	a) Base concreting 1:4:8, 650x650x150 mm	Each	1	298	298	0	0
	b) Pole concreting 1:2:4, 500x500x1650	Each	1	3214	3214	0	0
	c) Coping 1:2:4 (as per actuals)	Each	1	444	444	0	0
9	Concreting materials for Guy sets (without cement)	No	1	158	158	0	0
10	GI Wire 8 SWG	Kgs	5	54.67	273.35	0	0
11	Guy Wire 7/10 SWG	Kgs	10	57.7	577	0	0
12	11kV Lightning Arester, Metal Oxide 9kV, 5kA	Set/3 Nos	1	2070	2070	71	71
13	a) LT Protection Kit for 63 kVA	Nos	2	1602	3204	205	410
	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	82	3280	568	568
	ii. Copper lugs - 95 Sqmm	Nos	4	71	284		
	iii. PG Clamps - Rabbit to 95 Sqmm	Nos	4	105	420		
	iv. Spacers for DTC Wiring	Nos	8	38	304		
	v. Fish Plate with necessary Clamps,bolts & nuts etc complete (Galvanised)	Nos	2	155	310		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS-42)	No	1	5224	5224	514	514
d) LT Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	No	1	2250	2250	631	631	
14	11kV Solid Core Type HG Fuse Unit	Set/3 Nos	1	827	827	423	423
15	11kV, 200Amps, Single Break GOS	Nos	1	6951	6951	636	636
16	Caution/Danger Board as per Drawing No. BESCOM/GM/CP/40/ Dt: 24.10.07	No	1	120	120	48	48
17	Anti Climbing Device (12mtrs/ 1Kg GI Barbed Wire) Lumpsum	Kg	1	64	64	25	25
18	Total material cost				141021		
19	Labour Charges						
	a) Casual						8157
	b) Regular						1631
Total cost for Erection of a Single Pole Mounted 63kVA Transformer in Rs					150810		

COST DATA SHEET - 28

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

Sl. No	Materials	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	9 Mtr long RCC pole (Square Section)	No	1	7210	7210	1060	1060
2	11kV Pin Insulators with pins	Nos	3	94	282	0	0
3	45kN Disc Insulator	Nos	3	290	870	0	0
4	Guy Set Complete	Set	1	742	742	354	354
5	Single pole TC set suitable for 25 kVA Transformer	Set	1	4088	4088	1016	1016
5	11kV/433V, 25kVA, 3 Phase, 50 Cys Distribution Transformer BEE-3 Star Rated with Oil	No	1	51560	51560	682	682
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	1277	3831	573	1719
8	Concreting materials for 9 mtr RCC Pole						
	a) Base concreting 1:4:8, 650x650x150 mm	Each	1	298	298	0	0
	b) Pole concreting 1:2:4, 500x500x1650	Each	1	3214	3214	0	0
	c) Coping 1:2:4 (as per actuals)	Each	1	444	444	0	0
9	Concreting materials for Guy sets (without cement)	No	1	158	158	0	0
10	GI Wire 8 SWG	Kgs	5	54.67	273.35	0	0
11	Guy Wire 7/10 SWG	Kgs	10	57.7	577	0	0
12	11kV Lightning Arrester, Metal Oxide 9kV, 5kA	Set/3 Nos	1	2070	2070	71	71
13	a) LT Protection Kit for 25 kVA	No	1	1602	1602	205	205
	b) LT Wiring (From DTC to LT Line Through Metering Box & LT Protection Kit) SINGLE CIRCUIT	No	1				
	i. Al Lead Wire - 50 Sqmm	Mtrs	25	45	1125	568	568
	ii. Copper lugs - 50 Sqmm	Nos	4	30	120		
	iii. PG Clamps - Rabbit to 50 Sqmm	Nos	4	66	264		
	iv. Spacers for DTC Wiring	Nos	8	38	304		
	v. Fish Plate with necessary Clamps,bolts & nuts etc complete (Galvanised)	Nos	2	155	310		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS-42)	No	1	5662	5662	514	514
d) LT Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	No	1	2250	2250	631	631	
14	11kV Solid Core Type HG Fuse Unit	Set/3 Nos	1	827	827	423	423
15	11kV, 200Amps, Single Break GOS	Nos	1	6951	6951	636	636
16	Caution/Danger Board as per Drawing No. BESCOM/GM/CP/40/ Dt: 24.10.07	No	1	120	120	48	48
17	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kg	1	64	64	25	25
18	Total Material Cost				95216.2		
	Labour Charges						
	a) Casual						7952
	b) Regular						1590
	Total cost for erection of a single pole mounted 25kVA Transformer in Rs				104759		

COST DATA SHEET - 27

Erection of 3 Phase, 11kV/433V, 250kVA 3 Star rated Distribution Transformer Centre Using DPTS

Sl.No	Particulars	Unit	Qty	250 KVA			
				Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	Part-A: TRANSFORMER						
	a) 9 Mtr RCC DP Transformer Structure (Using 9 Mtr RCC Poles)	No	1	24575	24575	4238	2999
	b) 8 Mtr RCC DP Transformer Structure (Using 8 Mtr RCC Poles)	No	1	21395	21395	3816	2703
2	11kV Pin Insulators	Sets	3	94	282	0	0
3	45kN Disc Insulators	Sets	3	290	870	0	0
4	Guy Set Complete	Nos	4	742	2968	354	1416
5	11kV/433V, 250kVA, 3 Phase, 50 Cys Distribution Transformer with oil	No	1	277240	277240	1365	1365
6	Earthing materials pipe type for grounding as per Drawing No. BESCO/GM/CP/15 & 34/ Dt: 24.10.07	Single Electrode with accessories	3	1277	3831	573	1719
7	Caution/Danger Board as per Drawing No. BESCO/GM/CP/40/ Dt: 24.10.07	No	1	120	120	48	48
8	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kgs	2	64	128	25	50
9	Concreting for Guy sets without cement	Nos	4	158	632	0	0
10	GI Wire 8 SWG	Kgs	5	54.67	273	0	0
11	Guy wire 7/10 SWG	Kgs	10	56.26	563	0	0
	Total using 9 mtr Poles				311482		7597
	Total using 8 mtr Poles				308302		7301
12	Labour Charges						
	i) using 9 mtr Poles						
	a) Casual						7597
	b) Regular						1519
	ii) using 8 mtr poles						
	a) Casual						7301
	b) Regular						1460
13	Total for Part-A						
	I) Using 9 mtr Poles				320598		
	ii) using 8 mtr poles				317063		

	Part-B:						
14	11kV Lightning Arester, Metal Oxide 9kV, 5kA	Set of 3 Nos	1	2070	2070	71	71
15	Labour Charges						
	a) Casual						71
	b) Regular						14
16	Total for Part-B				2155		
	Part-C: SWITCH GEAR						
17	a) LT Distribution box for 250kVA with MCCB	No	1	16705	16705	455	455
	b) LT Wiring (From DTC to LT Line via Metering Box & LT Protection Kit) SINGLE CIRCUIT	No	1				
	i. Al Lead Wire - 240 Sqmm	Mtrs	45	199	8955	644	644
	ii. Copper lugs - 240 Sqmm	Nos	12	184	2208		
	iii. PG Clamps - Rabbit to 240 Sqmm	Nos	4	307	1228		
	iv. Spacers for DTC Wiring	Nos	8	38	304		
	v. Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	Nos	2	155	310		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS-42)	No	1	5080	5080	514	514
d) LT Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	Nos.	1	2250	2250	631	631	
18	11kV Solid Core Type HG Fuse Unit	Set/ 3 nos	1	827	827	423	423
19	11kV, 200Amps, Single Break GOS	No	1	6951	6951	636	636
	Total Cost (Material)				44818		
20	Labour Charges						
	a) Casual						3303
	b) Regular						661
21	Total for Part-C				48782		
22	Total (A+B+C)						
	1) Using 9 mtr Poles				371535		
	Labour Charges:						
	a) Casual						10971
	b) Regular						2194
	2) Using 8 mtr Poles				368000		
	Labour Charges:						
	a) Casual						10675
	b) Regular						2135

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 separately for

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

COST DATA SHEET -26

Erection of 3 Phase, 11kV/433 V, 100kVA BEE – 3 Star Rated Distribution Transformer Centre Using DPTS

Sl No	Particulars	Unit	Qty	100 KVA			
				Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	Part-A: TRANSFORMER						
	a) 9 Mtr RCC DP Transformer Structure (Using 9 Mtr RCC Poles)	No	1	24575	24575	4238	4238
	b) 8 Mtr RCC DP Transformer Structure (Using 8 Mtr RCC Poles)	No	1	21395	21395	3816	3816
2	11kV Pin Insulators	Sets	3	94	282	0	0
3	45kN Disc Insulators	Sets	3	290	870	0	0
4	Guy Set Complete	Nos	4	742	2968	354	1416
5	11kV/433V, 100kVA, 3 Phase 50 Cys Distribution Transformer BEE - 3 Star Rated with Oil	No	1	121422	121422	910	910
6	Earthing materials pipe type for grounding as per Drawing No. BESCO/CP/15 & 34/ Dt: 24.10.07	Single Electrode with accessories	3	1277	3831	573	1719
7	Caution/Danger Board as per Drawing No. BESCO/CP/40/ Dt: 24.10.07	No	1	120	120	48	48
8	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kgs	2	64	128	25	50
9	Concreting for Guy sets without cement	Nos	4	158	632	0	0
10	GI Wire 8 SWG	Kgs	5	54.67	273	0	0
11	Guy wire 7/10 SWG	Kgs	10	56.26	563	0	0
	Total using 9 mtr Poles				155664		8381
	Total using 8 mtr Poles				152484		7959
12	Labour Charges						
	I) using 9 mtr Poles						
	a) Casual						8381
	b) Regular						1676
	ii) using 8 mtr poles						
	a) Casual						7959
	b) Regular						1592
13	Total for Part-A						
	I) Using 9 mtr Poles				165721		
	ii) using 8 mtr poles				162035		
	Part-B:						
14	11kV Lightning Arester, Metal Oxide 9kV, 5kA	Set of 3 Nos	1	2070	2070	71	71
15	Labour Charges						
	a) Casual						71

	b) Regular						14
16	Total for Part-B				2155		
	Part-C: SWITCH GEAR						
17	a) LT Protection Kit	Nos	2	1602	3204	205	410
	b) LT Distribution box for 100 kVA with MCB	No	1	16705	16705	455	455
	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	108	4860	568	568
	ii. Copper lugs - 120 Sqmm	Nos	12	77	924		
	iii. PG Clamps - Rabbit to 120 Sqmm	Nos	4	204	816		
	iv. Spacers for DTC Wiring	Nos	8	38	304		
	v. Fish Plate with necessary Clamps,bolts & nuts etc complete (Galvanised)	Nos	2	155	310		
	d) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS-42)	No	1	4918	4918	514	514
e) LT Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	Nos	1	2250	2250	631	631	
18	11kV Solid Core Type HG Fuse Unit	Set/3 Nos	1	827	827	423	423
19	11kV, 200Amps, Single Break GOS	No	1	6951	6951	636	636
			With LT Protection kit		With Distribution Box		
	Total Cost (Material)		25364		38865		
20	Labour Charges						
	a) Casual		3182		3227		
	b) Regular		636		645		
21	Total for Part-C		29182		42737		
22	Total (A+B+C)						
	1) Using 9 mtr Poles		197059		210614		
	Labour Charges:						
	a) Casual		11634		11679		
	b) Regular		2327		2336		
	2) Using 8 mtr Poles		193372		206927		
	Labour Charges:						
	a) Casual		11212		11257		
	b) Regular		2242		2251		
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							

COST DATA SHEET -25

Erection of 3 Phase, 11kV/433V, 63kVA BEE – 3 Star Rated Distribution Transformer Centre Using DPTS

Sl No	Particulars	Unit	Qty	63 KVA			
				Material Cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	Part-A: TRANSFORMER						
	a) 9 Mtr RCC DP Transformer Structure (Using 9 Mtr RCC Poles)	No	1	22532	22532	4115	4115
	b) 8 Mtr RCC DP Transformer Structure (Using 8 Mtr RCC Poles)	No	1	19352	19352	3560	3560
2	11kV Pin Insulators	Sets	3	94	282	0	0
3	45kN Disc Insulators	Sets	3	290	870	0	0
4	Guy Set Complete	Nos	4	742	2968	354	1416
5	11kV/433V, 63kVA, 3 Phase, 50 Cys Distribution Transformer BEE - 3 Star Rated with Oil	No	1	93726	93726	682	682
6	Earthing materials pipe type for grounding as per Drawing No. BESCO/GM/CP/15 & 34/ Dt: 24.10.07	Single Electrode with accessories	3	1277	3831	573	1719
7	Caution/Danger Board as per Drawing No. BESCO/GM/CP/40/ Dt: 24.10.07	No	1	120	120	48	48
8	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kgs	2	64	128	25	50
9	Concreting for Guy sets without cement	Nos	4	158	632	0	0
10	GI Wire 8 SWG	Kgs	5	54.67	273	0	0
11	Guy wire 7/10 SWG	Kgs	10	56.26	563	0	0
	Total using 9 mtr Poles				125925		8030
	Total using 8 mtr Poles				122745		7475
12	Labour Charges						
	i) using 9 mtr Poles						
	a) Casual						8030
	b) Regular						1606
	ii) using 8 mtr Poles						
	a) Casual						7475
	b) Regular						1495
13	Total for Part-A						
	i) Using 9 mtr Poles				135561		
	ii) using 8 mtr Poles				131715		
	Part-B:						

14	11kV Lightning Arester, Metal Oxide 9kV, 5kA	Set of 3 Nos	1	2070	2070	71	71
15	Labour Charges						
	a) Casual						71
	b) Regular						14
16	Total for Part-B				2155		
	Part-C: SWITCH GEAR						
17	a) LT Protection Kit for 63 kVA	Nos	2	1602	3204	205	410
	b) LT Wiring (From DTC to LT Line Through Metering Box & LT Protection Kit) SINGLE CIRCUIT	No	1				
	i. Al Lead Wire - 95 Sqmm	Mtrs	40	82	3280	568	568
	ii. Copper Lugs - 95 Sqmm	Nos	4	71	284		
	iii. PG Clamps - Rabbit to 95 Sqmm	Nos	4	105	420		
	iv. Spacers for DTC Wiring	Nos	8	38	304		
	v. Fish Plate with necessary Clamps,bolts & nuts etc complete (Galvanised)	Nos	2	155	310		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS-42)	No	1	5224	5224	514	514
d) LT Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	No	1	2250	2250	631	631	
18	11kV Solid Core Type HG Fuse Unit	Set/ 3 nos	1	827	827	423	423
19	11kV, 200Amps, Single Break GOS	No	1	6951	6951	636	636
	Total Cost (Material) for Part-C				23054		
20	Labour Charges						
	a) Casual						3182
	b) Regular						636
21	Total for Part-C				26872		
22	Total (A+B+C)						
	1) Using 9 mtr Poles				164589		
	Labour Charges:						
	a) Casual						11283
	b) Regular						2257
	2) Using 8 mtr Poles				160743		
	Labour Charges:						
	a) Casual						10728
	b) Regular						2146

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

COST DATA SHEET - 24

**Erection of 3 Phase, 11kV/433V, 25kVA BEE – 3 Star Rated Distribution Transformer Centre
Using DPTS**

SI No	Particulars	Unit	Qty	25 KVA			
				Material Cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	Part-A: TRANSFORMER						
	a) 9 Mtr RCC DP Transformer Structure (Using 9 Mtr RCC Poles)	No	1	22532	22532	4115	4115
	b) 8 Mtr RCC DP Transformer Structure (Using 8 Mtr RCC Poles)	No	1	19352	19352	3560	3560
2	11kV Pin Insulators	Sets	3	94	282	0	0
3	45kN Disc Insulators	Sets	3	290	870	0	0
4	Guy Set Complete	Nos	4	742	2968	354	1416
5	11kV/433V, 25KVA, 3 Phase, 50 Cys Distribution Transformer BEE-3 Star Rated with Oil	No	1	51560	51560	682	682
6	Earthing materials pipe type for grounding as per Drawing No. BESCO/GM/CP/15 & 34/ Dt: 24.10.07	Single Electrode with accessories	3	1277	3831	573	1719
7	Caution/Danger Board as per Drawing No. BESCO/GM/CP/40/ Dt: 24.10.07	No	1	120	120	48	48
8	Anti Climbing Device (12mtrs/1Kg GI Barbed Wire) Lumpsum	Kgs	2	64	128	25	50
9	Concreting for Guy sets without cement	Nos	4	158	632	0	0
10	GI Wire 8 SWG	Kgs	5	54.67	273.35	0	0
11	Guy wire 7/10 SWG	Kgs	10	56.26	563	0	0
	Total using 9 mtr Poles				83759		8030
	Total using 8 mtr Poles				80579		7475
12	Labour Charges						
	i) using 9 mtr Poles						
	a) Casual						8030
	b) Regular						1606
	ii) using 8 mtr Poles						
	a) Casual						7475
	b) Regular						1495
13	Total for Part-A						
	I) Using 9 mtr Poles				93395		
	ii) using 8 mtr Poles				89549		
	Part-B:						

14	11kV Lightning Arrester, Metal oxide, 9kV, 5kA	Set of 3 Nos	1	2070	2070	71	71
15	Labour Charges						
	a) Casual						71
	b) Regular						14
16	Total for Part-B				2155		
	Part-C: SWITCH GEAR						
17	a) LT Protection Kit for 25 kVA	No	1	1602	1602	205	205
	b) LT Wiring (From DTC to LT Line Through Metering Box & LT Protection Kit) SINGLE CIRCUIT	No	1				
	i. Al Lead Wire - 50 Sqmm	Mtrs	25	45	1125	568	568
	ii. Copper Lugs - 50 Sqmm	Nos	4	30	120		
	iii. PG Clamps - Rabbit to 50 Sqmm	Nos	4	66	264		
	iv. Spacers for DTC Wiring	Nos	8	38	304		
	v. Fish Plate with necessary Clamps,bolts & nuts etc complete (Galvanised)	Nos	2	155	310		
	c) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS-42)	No	1	5662	5662	514	514
d) LT Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	No	1	2250	2250	631	631	
18	11kV Solid Core Type HG Fuse Unit	Set/3 Nos	1	827	827	423	423
19	11kV, 200Amps, Single Break GOS	No	1	6951	6951	636	636
	Total Cost (Material) for Part-C				19415		
20	Labour Charges						
	a) Casual						2977
	b) Regular						595
21	Total for Part-C				22987		
22	Total (A+B+C)						
	1) Using 9 mtr Poles				118538		
	Labour Charges:						
	a) Casual						11078
	b) Regular						2216
	2) Using 8 mtr Poles				114692		
	Labour Charges:						
	a) Casual						10523
	b) Regular						2105

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