

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

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Name & address of the Bidder

Cost Data sheet for repairs of ONE EACH OF Faulty Star Rated Distribution Transformers 15/16, 25,63 & 100KVA Capacities

Annexure-A2

Sl. No.	Description	Unit	For 15/16 kVA Transformer			For 25 kVA Transformer			For 63 kVA Transformer			For 100 kVA Transformer		
			Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount
I Materials														
1	HV winding (Aluminium)	Kg	34	209	7106	34	209	7106	75	209	15675	84.6	209	17681.4
2	LV Winding (Aluminium)	Kg	15.3	196	2998.8	15.3	196	2998.8	32.7	196	6409.2	55	196	10780
3	HV Porcelain bushings	Nos	3	125	375	3	125	375	3	125	375	3	125	375
4	HV terminal Bolt with nuts & washer	Nos	3	175	525	3	175	525	3	175	525	3	175	525
5	LV Bushing	Nos	4	20	80	4	35	140	4	35	140	4	50	200
6	LV terminal Bolt with nuts & washer	Nos	4	200	800	4	200	800	4	200	800	4	200	800
7	Top cover gasket and gaskets of oil gauge, breather cap, oil cap etc...	Nos	1	46	46	1	46	46	1	46	46	1	46	46
8	HV/LV rod gaskets eg: flat gasket, D bush, cone bush	Nos	1	34	34	1	34	34	1	34	34	1	34	34
9	Insulation materials of LV winding by using existing aluminium conductor ,	Kg	15.3	70	1071	15.3	70	1071	32.7	70	2289	55	70	3850
10	Breather with Silica Gel,	Nos	1	135	135	1	135	135	1	135	135	1	135	135
11	Tap changer with accessories Drain Valve with Filter Valve with Plug	Nos	0	0	0	0	0	0	0	0	0	0	0	0
12	1/4 "	Nos	1	86	86	1	86	86	1	86	86	1	86	86
	3/4 "	Nos	1	120	120	1	120	120	1	120	120	1	120	120
	1 "	Nos	1	198	198	1	198	198	1	198	198	1	198	198
	1 1/4 "	Nos	1	245	245	1	245	245	1	245	245	1	245	245
	1 1/2 "	Nos	1	297	297	1	297	297	1	297	297	1	297	297
	2 "	Nos	1	460	460	1	460	460	1	460	460	1	460	460
13	CRGO Lamination of grade M4 or M3	Kg	1	350	350	1	350	350	1	350	350	1	350	350
14	Oil level indicator with Glass	Nos	1	24	24	1	24	24	1	24	24	1	24	24
15	Providing Explosion vent	Nos	1	104	104	1	104	104	1	104	104	1	104	104
16	Explosion vent Diaphragm	Nos	1	33	33	1	33	33	1	33	33	1	33	33
17	Replacement of radiator	Nos	1	1052	1052	1	1052	1052	1	1248	1248	1	1446	1446
18	Core Bolt with insulation Gun metal valves ,	Nos	3	10	30	3	10	30	3	10	30	3	10	30
19	Size 3/4"	Nos	1	137	137	1	137	137	1	137	137	1	137	137
	Size 1 1/4"	Nos	1	203	203	1	203	203	1	203	203	1	203	203
20	Insulating materials such as Press Board, Cotton Tape, Kraft Paper	Kg	2	260	520	2	260	520	2.5	260	650	3	260	780
21	Outside Painting of Tank	Ls	1	220	220	1	220	220	1	255	255	1	255	255
22	Conservator tank	Kg	1	45	45	1	45	45	1	45	45	1	45	45
23	MS bolts and Nuts, washers, spring washers of different size	Kg	2	70	140	2	70	140	2	70	140	2	70	140
24	Connection Wire (copper)	Kg	0.25	650	162.5	0.25	650	162.5	0.25	650	162.5	0.25	650	162.5
25	Soldering Lead + Flux + Brazing Rod	L/S	0.3	750	225	0.3	750	225	0.3	750	225	0.3	750	225
26	SRBP Tube	Mt	3	30	90	3	30	90	3	30	90	3	30	90
27	Lid bolts	Kg	1	85	85	1	85	85	1	85	85	1	85	85
28	Unique ID Plate along with Unique ID Code of DTRs make (SS Plate with 5**2**1 MM	Nos	1	70	70	1	70	70	1	70	70	1	70	70
29	Name plate details of Transformer to be punched and revited with the following Technical details for NNP TRs.	Nos												
a	Make/Sl No.													
b	Voltage ratio		1	40	40	1	40	40	1	40	40	1	40	40
c	KVA rating													
d	% Impedence at 75 degree centegrade													
Total Material cost					17024.3			17084.3			30642.7			38968.9
II Labour Charges														
1	Transportation of failed transformers from Divisional stores /Sub Divisional Transformer banks to the repair centre, Loading of failed transformers at divisional stores/sub-divisional transformer bank and unloading of failed Distribution transformers(DTR) at repair center, arranging for Inspections, opening bolt-nuts of top cover,Opening of the top plate of failed DTR, assesment of repairs, un tanking of active part, disconnecting of leads/connections, cleaning all healthy parts, removal of core yoke and windings, and reassembly of the dismantled materials & metal parts and positioning the core back after repairs, winding and complete electrical connections ,filtration & top up/filling up of transformer oil and bolting up top cover, other fittings on cover or tank, conducting tests as per bid documents, Loading of repaired good transformers at repair centres and unloading of repaired good DTR's at divisional stores/sub-divisional transformer bank & transportation of repaired good transformers from repair centre to divisional stores/sub-divisional transformer bank.	Per DTr	1	1603	1603	1	2061	2061	1	2061	2061	1	2061	2061
2	HV winding (Aluminium)	Kg	34	34	1156	34	34	1156	75	34	2550	84.6	34	2876.4
3	LV Winding (Aluminium)	Kg	15.3	52	795.6	15.3	52	795.6	32.7	52	1700.4	55	52	2860
4	Re-insulation of LV winding by using existing aluminium conductor	Kg	15.3	45	688.5	15.3	45	688.5	16.5	45	742.5	55	45	2475
5	Welding of tank and other parts at the point of leakages & welding of Unique ID Plate	Per Cm of Welding	1	3	3	1	3	3	1	3	3	1	3	3
6	Charges for Outside Painting of Tank	Ls	1	30	30	1	30	30	1	30	30	1	30	30
7	Drying of active parts by ovening for 48 to 72 hours at 90 to 100 C temprature for removal of moisture of the repaired Transformer	LS	1	183	183	1	229	229	1	229	229	1	229	229
8	Oil filtering charges	Ltrs	1	2	2	1	2	2	1	2	2	1	2	2
Total Labour cost					4461.1			4965.1			7317.9			10536.4
III Credit damaged parts retained by repairer														
1	Cost of scrap aluminium windings	kg	49.3	105	5176.5	49.3	105	5176.5	107.7	105	11308.5	139.6	105	14658
2	Damaged brass parts	kg	2	175	350	2	175	350	2	175	350	2	175	350
3	Released scrap Iron /MS	Kg	2	20	40	2	20	40	2	20	40	2	20	40
4	Damaged lamination	Kg	1	30	30	1	30	30	1	30	30	1	30	30
Total Salvage cost					5596.5			5596.5			11728.5			15078
Total Cost (I+II-III)					15889			16453			26232			34427

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Annexure-A3

Break Up for LEFT OUT ITEMS for repairs of ONE EACH OF Faulty Convention Type Distribution Transformers 15/16, 25, 63, 100, 200, 250, 300,500KVA,750 &990/1000KVA Capacities

Sl. No	Description	Unit	For 15/16 kVA Transformer			For 15/16 kVA Transformer			25 kVA Transformer			63 kVA Transformer			100 kVA Transformer			200 kVA Transformer			250 kVA Transformer			300 kVA Transformer			500 kVA Transformer			For 500 kVA Transformer			For 750 kVA Transformer			For 990/1000 kVA Transformer		
			(Copper Wound)			(Aluminium Wound)			(Aluminium Wound)			(Aluminium Wound)			(Aluminium Wound)			(Aluminium Wound)			(Aluminium Wound)			(Aluminium Wound)			(Aluminium Wound)			(Copper Wound)			(Copper Wound)			(Copper Wound)		
			Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount			
I	Materials																																					
1																																						
2																																						
3																																						
4																																						
5																																						
6																																						
	Total Material cost																																					
	Total Cost																																				0	
II	Job involving only Labour Charges																																					
1																																						
2																																						
3																																						
4																																						
	Total Labour cost																																					
	Total cost																																				0	
III	Credit damaged parts retained by repairer																																					
1																																						
2																																						
3																																						
4																																						
	Total Salvage cost																																					
	Total cost																																				0	
	Total Cost																																					
	Total cost																																				0	

Date:
Place:

Signature of the bidder with seal

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Cost Data sheet for repair of ONE EACH OF Faulty Star Rated Distribution Transformers 15/16, 25,63 & 100KVA Capacities

Annexure -A4

Sl. No.	Description	Unit	15/16 kVA Transformer			25 kVA Transformer			63 kVA Transformer			100 kVA Transformer		
			Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount
I	Materials													
1														
2														
3														
4														
5														
	Total Material cost													
Total Cost								0						
II	Job involving only Labour Charges													
1														
2														
3														
4														
	Total Labour cost													
Total Cost								0						
III	Credit damaged parts retained by repairer													
1														
2														
3														
4														
	Total Salvage cost													
Total Cost								0						
	Total Cost													
Total Cost								0						

Date:
Place:

Signature of the bidder with seal