



Ref: TPCODL/P&S/1000000345/2022-23 /Corrigendum/004

Dated: 02nd Mar 2023

CORRIGENDUM-4

Open tender number TPCODL/P&S/1000000345/2022-23 for RC for DT repair.

With reference to above, the bidders are intimated to note the followings:

- I. **Modification in the existing BOQ (Schedule of Items - Annexure-1, 2 & 3) of the mentioned Tender**
Bidders are requested to refer Annexure-1, 2 & 3 of this Corrigendum for revised BoQ and the bidders are expected to quote as per the revised BOQ.
- II. **Extension of due date and time of bid submission**

Tender No.	Existing Entry	Modified as
TPCODL/P&S/ 1000000345/2022-23	Due date and time of bid submission/Date & Time of opening technical bids. 27.02.2023 15:00 Hours	Due date and time of bid submission/Date & Time of opening technical bids. 06.03.2023 15:00 Hours

Note:

- I. Bidder are requested to quote as per revised BoQ, failing to do so will lead to bid rejection
- II. All other terms and conditions of the above tender will remain same

By Order
Chief-Procurement & Store, TPCODL

Annexure-1
**Schedule of Items for DTR Repairing
FY 23-24(11KV)**

SL No	Schedules of Item Description	Quantity	Uo M	All Inclusive Total Unit 'Net Repair Cost' including GST (i.e A+B-C)*	All Inclusive Total Price including GST	C_Unit rate including GST	C_All inclusive total price	A+B_Unit rate including GST	A+B_All Inclusive total price(D)	Services(a ll inclusive Unit rate)	Services_A ll Inclusive total price€
1	10 KVA , 11 / 0.230 kV 1 Ph Al wound	4	EA	0	0	0	0	0	0	0	0
2	10 KVA , 11 / 0.230 kV 1 Ph Cu wound	1	EA	0	0	0	0	0	0	0	0
3	16 KVA , 11 / 0.230 kV 1 Ph Al wound	450	EA	0	0	0	0	0	0	0	0
4	16 KVA , 11 / 0.230 kV 1 Ph Cu wound	5	EA	0	0	0	0	0	0	0	0
7	16 KVA , 11/.4 Kv 3PH , AL Wound	30	EA	0	0	0	0	0	0	0	0
8	16 KVA , 11/.4 kv 3PH , CU Wound	2	EA	0	0	0	0	0	0	0	0
5	25 KVA , 11 / 0.230 kV 1 Ph Al wound	33	EA	0	0	0	0	0	0	0	0
6	25 KVA , 11 / 0.230 kV 1 Ph Cu wound	5	EA	0	0	0	0	0	0	0	0



9	25 KVA, 11/0.4 kv 3PH,Al wound	600	EA	0	0	0	0	0	0	0	0
10	25 KVA, 11/0.4 3PH,CU wound	5	EA	0	0	0	0	0	0	0	0
11	63 KVA, 11/0.4 3PH,Al wound	460	EA	0	0	0	0	0	0	0	0
12	63 KVA, 11/0.4 3PH,CU wound	6	EA	0	0	0	0	0	0	0	0
13	100 KVA, 11/0.4 3PH,Al wound	570	EA	0	0	0	0	0	0	0	0
14	100 KVA, 11/0.4 3PH,CU wound	1	EA	0	0	0	0	0	0	0	0
15	200 KVA, 11/0.4 3PH,AL wound	20	EA	0	0	0	0	0	0	0	0
16	200 KVA, 11/0.4 3PH,CU wound	5	EA	0	0	0	0	0	0	0	0
17	250 KVA, 11/0.4 3PH,Al wound	90	EA	0	0	0	0	0	0	0	0
18	250 KVA, 11/0.4 3PH,CU wound	10	EA	0	0	0	0	0	0	0	0
19	500 KVA, 11/0.4 3PH,CU wound	30	EA	0	0	0	0	0	0	0	0
21	1000 KVA , 11/.0.4 3PH, CU Wound	3	EA	0	0	0	0	0	0	0	0
Total		2330		0	0	0	0	0	0	0	0
22	Unit price for material(Total all incl)(F)									0	
	Total price(D+E+F)									0	

Annexure-1A 10 KVA to 16 KVA 1PH														
S.No.	Item Description	UOM	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose											
			10 KVA , 11 / 0.230 kV			10 KVA , 11 / 0.230 kV			16 KVA , 11 / 0.230 kV			16 KVA , 11 / 0.230 kV		
			1 Ph Al wound			1 Ph Cu wound			1 Ph Al wound			1 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			X	Y	X*Y	X	Y	X*Y	X	Y	X*Y	X	Y	X*Y
A	New Materials													
1	HV Coil Total													
1A	New Paper Insulated winding	Kg	8		0	10		0	20		0	22		0
1B	New Super Enameled Winding	Kg	0		0	0		0	0		0	0		0
2	LV Coil Total													
2A	New LV coil with paper insulation	Kg	7		0	10		0	10		0	14		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	0		0	0		0	0		0	0		0
4	HV Bushing insulator	EA	2		0	2		0	2		0	2		0
5	LV Bushing Insulator	EA	2		0	2		0	2		0	2		0
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	2		0	2		0	2		0	2		0

7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	2	0	2	0	2	0	2	0	2	0
8	Set of gaskets	Set	1	0	1	0	1	0	1	0	1	0
9	Silica gel breather	EA	0	0	0	0	0	0	0	0	0	0
10	Prismatic Oil level gauge	EA	1	0	1	0	1	0	1	0	1	0
11	Tapping switch with handle	EA	0	0	0	0	0	0	0	0	0	0
12	Oil drain/Filter valve	EA	1	0	1	0	1	0	1	0	1	0
13	Pair of Arching Horns	EA	2	0	2	0	2	0	2	0	2	0
14	Fresh Transformer oil as per latest IS 335	Litre	50	0	50	0	60	0	60	0	60	0
15	Sundry items	Set	1	0	1	0	1	0	1	0	1	0
16	Dial type Thermometer of min.10mm with max. temp. Ind.	EA	0	0	0	0	0	0	0	0	0	0
17	New Radiator	Kg	0	0	0	0	0	0	0	0	0	0
18	Conservator tank,EVP,tank top cover etc	Kg	0	0	0	0	0	0	0	0	0	0
TOTAL of New material (A)				0		0		0		0		0
B	Transportation & labor											
19	Labour charges for repair/reconditioning of transformers	EA	1	0	1	0	1	0	1	0	1	0
20	Painting charges (external & internal)	EA	1	0	1	0	1	0	1	0	1	0



21	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	EA	1	0	1	0	1	0	1	0	1	0
22	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	EA	1	0	1	0	1	0	1	0	1	0
TOTAL of Transportation & labor (B)				0		0		0		0		0
C	Scrap Materials											
23	HV & LV leg coil complete with paper insulation only.	Kg	15	0	20	0	30	0	36	0		0
24	HV & LV leg coil complete with super enameled only.	Kg	15	0	20	0	30	0	36	0		0
25	Metal parts for HV & LV Bushing(Rod,nut,bolts etc) connectors etc	Kg	0	0	0	0	0	0	0	0		0
26	LV Internal termination Parts	Kg	2	0	2	0	2	0	2	0		0
27	Silica gel breather	EA	0	0	0	0	0	0	0	0		0
28	Radiator	Kg	0	0	0	0	0	0	0	0		0
29	Conservator tank,EVP,tank top cover and other iron parts	Kg	0	0	0	0	0	0	0	0		0
30	Transformer oil	Ltr	35	0	35	0	42	0	42	0		0
31	Tapping switch with handle	EA	0	0	0	0	0	0	0	0		0
32	Dial type thermometer	EA	0	0	0	0	0	0	0	0		0



TOTAL of Scrap Materials (C)		0		0		0		0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)		0		0		0		0
Quantity	4		1		450		5	
Total All Inclusive Value (Unit Price * Quantity)	0		0		0		0	
Total All Inclusive Value for complete BOQ	0							

Annexure-1B 16 KVA 3PH								
S.No.	Item Description	UOM	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose					
			16 KVA , 11 / 0.415 kV			16 KVA , 11 / 0.415 kV		
			3 Ph Al wound			3 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y
A	New Materials							
1	HV Coil Total							
1A	New Paper Insulated winding	Kg	28		0	34		0
1B	New Super Enameled Winding	Kg	0		0	0		0
2	LV Coil Total							
2A	New LV coil with paper insulation	Kg	13		0	16		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	0		0	0		0
4	HV Bushing insulator	EA	3		0	3		0

5	LV Bushing Insulator	EA	4		0	4		0
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	3		0	3		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	4		0	4		0
8	Set of gaskets	Set	1		0	1		0
9	Silica gel breather	EA	1		0	1		0
10	Prismatic Oil level gauge	EA	1		0	1		0
11	Tapping switch with handle	EA	0		0	0		0
12	Oil drain/Filter valve	EA	2		0	2		0
13	Pair of Arching Horns	EA	3		0	3		0
14	Fresh Transformer oil as per latest latest IS 335	Litre	80		0	80		0
15	Sundry items	Set	1		0	1		0
16	Dial type Thermometer of min.10mm with max. temp. Ind.	EA	0		0	0		0
17	New Radiator	Kg	10		0	10		0
18	Conservator tank,EVP,tank top cover etc	Kg	5		0	5		0
TOTAL of New material (A)					0			0
B	Transportation & labor							
19	Labour charges for repair/reconditioning of transformers	EA	1		0	1		0



20	Painting charges (external & internal)	EA	1		0	1		0
21	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	EA	1		0	1		0
22	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	EA	1		0	1		0
TOTAL of Transportation & labor (B)					0			0
C	Scrap Materials							
23	HV & LV leg coil complete with paper insulation only.	Kg	41		0	50		0
24	HV & LV leg coil complete with super enameled only.	Kg	41		0	50		0
25	Metal parts for HV & LV Bushing(Rod,nut,bolts etc) connectors etc	Kg	0		0	0		0
26	LV Internal termination Parts	Kg	4.6		0	4.6		0
27	Silica gel breather	EA	1		0	1		0
28	Radiator	Kg	10		0	10		0

29	Conservator tank,EVP,tank top cover and other iron parts	Kg	5		0	5		0
30	Transformer oil	Ltr	63		0	63		0
31	Tapping switch with handle	EA	0		0	0		0
32	Dial type thermometer	EA	0		0	0		0
TOTAL of Scrap Materials (C)					0			0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)					0			0
Quantity			30			2		
Total All Inclusive Value (Unit Price * Quantity)			0			0		
Total All Inclusive Value for complete BOQ			0					

Annexure-1C 25 KVA 1PH to 25 KVA 3PH														
S.No.	Item Description	UOM	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose											
			25 KVA , 11 / 0.230 kV			25 KVA , 11 / 0.230 kV			25 KVA , 11 / 0.415 kV			25 KVA , 11 / 0.415 kV		
			(2) 1 Ph Al wound			(2) 1 Ph Cu wound			3 Ph Al wound			3 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
A	New Materials													
1	HV Coil Total													
1A	New Paper Insulated winding	Kg	23		0	24		0	30		0	36		0
1C	New Super Enameled Winding	Kg	0		0	0		0	0		0	0		0
2	LV Coil Total													
2A	New LV coil with paper insulation	Kg	10		0	14		0	15		0	18		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	0		0	0		0	0		0	0		0

4	HV Bushing insulator	EA	2		0	2		0	3		0	3		0
5	LV Bushing Insulator	EA	2		0	2		0	4		0	4		0
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	2		0	2		0	3		0	3		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	2		0	2		0	4		0	4		0
8	Set of gaskets	Set	1		0	1		0	1		0	1		0
9	Silica gel breather	EA	0		0	0		0	1		0	1		0
10	Prismatic Oil level gauge	EA	1		0	1		0	1		0	1		0
11	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
12	Oil drain/Filter valve	EA	1		0	1		0	2		0	2		0
13	Pair of Arching Horns	EA	2		0	2		0	3		0	3		0
14	Fresh Transformer oil as per latest latest IS 335	Litre	65		0	65		0	90		0	90		0
15	Sundry items	Set	1		0	1		0	1		0	1		0

16	Dial type Thermometer of min.10mm with max. temp. Ind.	EA	0	0	0	0	0	0	0	0	0	0
17	New Radiator	Kg	0	0	0	0	10	0	10	0	0	0
18	Conservator tank,EVP,tank top cover etc	Kg	0	0	0	0	5	0	5	0	0	0
TOTAL of New material (A)				0			0		0			0
B	Transportation & labor											
19	Labour charges for repair/reconditioning of transformers	EA	1	0	1	0	1	0	1	0	1	0
20	Painting charges (external & internal)	EA	1	0	1	0	1	0	1	0	1	0
21	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	EA	1	0	1	0	1	0	1	0	1	0
22	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	EA	1	0	1	0	1	0	1	0	1	0
TOTAL of Transportation & labor (B)				0			0		0			0
C	Scrap Materials											
23	HV & LV leg coil complete with paper insulation only.	Kg	33	0	38	0	45	0	54	0	54	0
24	HV & LV leg coil complete with super enameled only.	Kg	33	0	38	0	45	0	54	0	54	0

25	Metal parts for HV & LV Bushing(Rod,nut,bolts etc) connectors etc	Kg	0		0	0		0	0		0	0		0
26	LV Internal termination Parts	Kg	2		0	2		0	4.6		0	4.6		0
27	Silica gel breather	EA	0		0	0		0	1		0	1		0
28	Radiator	Kg	0		0	0		0	10		0	10		0
29	Conservator tank,EVP,tank top cover and other iron parts	Kg	0		0	0		0	5		0	5		0
30	Transformer oil	Ltr	45.5		0	45.5		0	63		0	63		0
31	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
32	Dial type thermometer	EA	0		0	0		0	0		0	0		0
TOTAL of Scrap Materials (C)					0			0			0			0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)					0			0			0			0
Quantity			33			5			600			5		
Total All Inclusive Value (Unit Price * Quantity)			0			0			0			0		
Total All Inclusive Value for complete BOQ			0											

Annexure-1D 63 KVA & 100 KVA

S.No.	Item Description	UOM	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose											
			63 KVA , 11 / 0.415 kV			63 KVA , 11 / 0.415 kV			100 KVA , 11 / 0.415 kV			100 KVA , 11 / 0.415 kV		
			3 Ph Al wound			3 Ph CU wound			3 Ph Al wound			3 Ph CU wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
A	New Materials													
1	HV Coil Total													
1A	New Paper Insulated winding	Kg	31		0	40		0	50		0	54		0
1C	New Super Enameled Winding	Kg	0		0	0		0	0		0	0		0
2	LV Coil Total													
2A	New LV coil with paper insulation	Kg	20		0	28		0	30		0	40		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	0		0	0		0	0		0	0		0

4	HV Bushing insulator	EA	3		0	3		0	3		0	3		0
5	LV Bushing Insulator	EA	4		0	4		0	4		0	4		0
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	3		0	3		0	3		0	3		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	4		0	4		0	4		0	4		0
8	Set of gaskets	Set	1		0	1		0	1		0	1		0
9	Silica gel breather	EA	1		0	1		0	1		0	1		0
10	Prismatic Oil level gauge	EA	1		0	1		0	1		0	1		0
11	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
12	Oil drain/Filter valve	EA	2		0	2		0	2		0	2		0
13	Pair of Arching Horns	EA	3		0	3		0	3		0	3		0
14	Fresh Transformer oil as per latest latest IS 335	Litre	120		0	120		0	210		0	210		0
15	Sundry items	Set	1		0	1		0	1		0	1		0
16	Dial type Thermometer of min.10mm with max. temp. Ind.	EA	0		0	0		0	0		0	0		0
17	New Radiator	Kg	10		0	10		0	10		0	10		0
18	Conservator tank,EVP,tank top cover etc	Kg	5		0	5		0	5		0	5		0



(A) TOTAL of New material					0			0			0			0
B	Transportation & labor													
19	Labour charges for repair/reconditioning of transformers	EA	1		0	1		0	1		0	1		0
20	Painting charges (external & internal)	EA	1		0	1		0	1		0	1		0
21	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	EA	1		0	1		0	1		0	1		0
22	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	EA	1		0	1		0	1		0	1		0
TOTAL of Transportation & labor (B)					0			0			0			0
C	Scrap Materials													
23	HV & LV leg coil complete with paper insulation only.	Kg	50		0	80		0	80		0	80		0
24	HV & LV leg coil complete with super enameled only.	Kg	50		0	80		0	80		0	80		0
25	Metal parts for HV & LV Bushing(Rod,nut,bolts etc) connectors etc	Kg	0		0	0		0	0		0	0		0
26	LV Internal termination Parts	Kg	4.6		0	4.6		0	4.6		0	4.6		0
27	Silica gel breather	EA	1		0	1		0	1		0	1		0

28	Radiator	Kg	10		0	10		0	10		0	10		0
29	Conservator tank,EVP,tank top cover and other iron parts	Kg	5		0	5		0	5		0	5		0
30	Transformer oil	Ltr	84		0	147		0	147		0	147		0
31	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
32	Dial type thermometer	EA	0		0	0		0	0		0	0		0
TOTAL of Scrap Materials (C)					0			0			0			0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)					0			0			0			0
Quantity			460			6			570			1		
Total All Inclusive Value (Unit Price * Quantity)			0			0			0			0		
Total All Inclusive Value for complete BOQ			0											

Annexure-1E 200 to 1000 KVA																					
S. No	Item Description	UOM	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose																		
			200 KVA , 11 / 0.415 kV			200 KVA , 11 / 0.415 kV			250 KVA , 11 / 0.415 kV			250 KVA , 11 / 0.415 kV			500 KVA , 11 / 0.415 kV			1000 KVA , 11 / 0.415 kV			
			3 Ph Al wound			3 Ph Cu wound			3 Ph Al wound			3 Ph CU wound			3 Ph CU wound			3 Ph Cu wound			
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material
	x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
A	New Materials																				
1	HV Coil Total																				
1A	New Paper Insulated winding	Kg	90		0	100		0	100		0	130		0	200		0	320		0	
1B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0	0		0	0		0	
1C	New Super Enameled Winding	Kg	0		0	0		0	0		0	0		0	0		0	0		0	

2	LV Coil Total																			
2A	New Conductor with New DPC	Kg	60		0	75		0	50		0	80		0	140		0	210		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	3		0	3		0	4		0	4		0	5		0	7		0
4	HV Bushing insulator	E A	3		0	3		0	3		0	3		0	3		0	3		0
5	LV Bushing Insulator	E A	4		0	4		0	4		0	4		0	4		0	4		0
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	E A	3		0	3		0	3		0	3		0	3		0	3		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	E A	4		0	4		0	4		0	4		0	4		0	4		0
8	Set of gaskets	Se t	1		0	1		0	1		0	1		0	1		0	1		0

9	Silica gel breather	E A	1		0	1		0	1		0	1		0	1		0	1		0
10	Prismatic Oil level gauge	E A	1		0	1		0	1		0	1		0	1		0	1		0
11	Tapping switch with handle	E A	0		0	0		0	1		0	1		0	1		0	1		0
12	Oil drain/Filter valve	E A	2		0	2		0	2		0	2		0	2		0	2		0
13	Pair of Arching Horns	E A	3		0	3		0	3		0	3		0	3		0	3		0
14	Fresh Transformer oil as per latest latest IS 335	Lit re	360		0	360		0	430		0	430		0	560		0	900		0
15	Sundry items	Se t	1		0	1		0	1		0	1		0	1		0	1		0
16	Dial type Thermometer of min.10mm with max. temp. Ind.	E A	0		0	0		0	0		0	0		0	1		0	1		0
17	New Radiator	Kg	15		0	15		0	15		0	15		0	50		0	50		0

18	Conservator tank,EVP,tank top cover etc	Kg	7		0	7		0	7		0	7		0	10		0	10		0
TOTAL of New material (A)					0			0			0			0			0			0
B	Transportation & labor																			
19	Labour charges for repair/reconditioning of transformers	E A	1		0	1		0	1		0	1		0	1		0	1		0
20	Painting charges (external & internal)	E A	1		0	1		0	1		0	1		0	1		0	1		0
21	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	E A	1		0	1		0	1		0	1		0	1		0	1		0

22	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	E A	1	0	1	0	1	0	1	0	1	0	1	0	1	0
TOTAL of Transportation & labor (B)				0		0		0		0		0		0		0
C	Scrap Materials															
23	HV & LV leg coil complete with paper insulation only.	Kg	150	0	240	0	160	0	230	0	390	0	638	0		0
24	HV & LV leg coil complete with super enameled only.	Kg	150	0	240	0	160	0	230	0	390	0	638	0		0
25	Metal parts for HV & LV Bushing(Rod,nut,bolts etc) connectors etc	Kg	3	0	3	0	4	0	4	0	5	0	7	0		0

26	LV Internal termination Parts	Kg	4.6	0	4.6	0	5.15	0	5.15	0	5	0	11	0
27	Silica gel breather	E A	1	0	1	0	1	0	1	0	1	0	1	0
28	Radiator	Kg	15	0	15	0	15	0	15	0	50	0	50	0
29	Conservator tank,EVP,tank top cover and other iron parts	Kg	7	0	7	0	7	0	7	0	10	0	10	0
30	Transformer oil	Ltr	252	0	252	0	301	0	301	0	392	0	630	0
31	Tapping switch with handle	E A	0	0	0	0	1	0	1	0	1	0	1	0
32	Dial type thermometer	E A	0	0	0	0	0	0	0	0	1	0	1	0
TOTAL of Scrap Materials (C)				0		0		0		0		0		0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)				0		0		0		0		0		0
Quantity			20		5		90		10		30		3	



Total All Inclusive Value (Unit Price * Quantity)	0	0	0	0	0	0
Total All Inclusive Value for complete BOQ	0					



New Materials	Same material same rate	Transformer Qty	ALL INCLUSIVE Unit Price (including GST)		Total all incl value (including GST)	
			AL	CU	AL	CU
For 2023-24(11KV)						
HV leg coil complete with paper insulation only	Same for All Trf (AL, Cu)	25			0	0
LV leg coil complete with paper insulation only		25			0	0
HV leg coil complete with super enamel		25			0	0
LV leg coil complete with super enamel		25			0	0
HV leg coil complete with Old Conductor with New DPC insulation		25			0	0
LV leg coil complete with Old Conductor with New DPC insulation		25			0	0
						0
			All inclusive Total price		0	



Services unit rate 16KVA 1ph

S.No.	Item Description	UOM	Unit price for Bill of Material		
			16 KVA , 11 / 0.230 kV		
			1 Ph Al wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR
			X	Y	X*Y
	Services				
1	Labour Charges for Conservator Tank Repair	EA	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0
TOTAL of Services					0
Quantity			450		
Total All Inclusive Value (Unit Price * Quantity)			0		
Total All Inclusive Value for complete BOQ			0		



Services unit rate 16KVA 3ph

S.No.	Item Description	UOM	Unit price for Bill of Material		
			16 KVA , 11 / 0.415 kV		
			3 Ph Al wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y
	Services				
1	Labour Charges for Conservator Tank Repair	EA	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0
TOTAL of Services					0
Quantity			30		
Total All Inclusive Value (Unit Price * Quantity)			0		
Total All Inclusive Value for complete BOQ			0		



Services unit rate 25KVA 1& 3ph

S.No.	Item Description	UOM	Unit price for Bill of Material					
			25 KVA , 11 / 0.230 kV			25 KVA , 11 / 0.415 kV		
			(2) 1 Ph AI wound			3 Ph AI wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y
	Services							
1	Labour Charges for Conservator Tank Repair	EA	1		0	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0	1		0
TOTAL of Services					0			0
Quantity			33			600		
Total All Inclusive Value (Unit Price * Quantity)			0			0		
Total All Inclusive Value for complete BOQ			0					

Services unit rate 63KVA & 100 3ph

S.No.	Item Description	UOM	Unit price for Bill of Material					
			63 KVA , 11 / 0.415 kV			100 KVA , 11 / 0.415 kV		
			3 Ph AI wound			3 Ph AI wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y
	Services							
1	Labour Charges for Conservator Tank Repair	EA	1		0	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0	1		0
TOTAL of Services					0			0
Quantity			460			570		
Total All Inclusive Value (Unit Price * Quantity)			0			0		
Total All Inclusive Value for complete BOQ			0					

S.No	Item Description	UOM	200-1000,3ph											
			200 KVA , 11 / 0.415 kV			250 KVA , 11 / 0.415 kV			500 KVA , 11 / 0.415 kV			1000 KVA , 11 / 0.415 kV		
			3 Ph Al wound			3 Ph Al wound			3 Ph CU wound			3 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
	Services													
1	Labour Charges for Conservator Tank Repair	EA	1		0	1		0	1		0	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0	1		0	1		0	1		0
TOTAL of Services					0			0			0			0
Quantity			20			90			30			3		

TPCODL

Total All Inclusive Value (Unit Price * Quantity)	0	0	0	0
Total All Inclusive Value for complete BOQ	0			

Annexure-2

Schedule of Items for DTR Repairing FY 24-25(11KV)

SL No	Schedules of Item Description	Quantity	Uo M	All Inclusive Total Unit 'Net Repair Cost' including GST (i.e A+B-C)*	All Inclusive Total Price including GST	C_Unit rate including GST	C_All inclusive total price	A+B_Unit rate including GST	A+B_All Inclusive total price(D)	Services(a ll inclusive Unit rate)	Services_A ll Inclusive total price€
1	10 KVA , 11 / 0.230 kV 1 Ph Al wound	4	EA	0	0	0	0	0	0	0	0
2	10 KVA , 11 / 0.230 kV 1 Ph Cu wound	1	EA	0	0	0	0	0	0	0	0
3	16 KVA , 11 / 0.230 kV 1 Ph Al wound	400	EA	0	0	0	0	0	0	0	0
4	16 KVA , 11 / 0.230 kV 1 Ph Cu wound	9	EA	0	0	0	0	0	0	0	0
7	16 KVA , 11/.4 Kv 3PH , AL Wound	15	EA	0	0	0	0	0	0	0	0
8	16 KVA , 11/.4 kV 3PH , CU Wound	5	EA	0	0	0	0	0	0	0	0
5	25 KVA , 11 / 0.230 kV 1 Ph Al wound	33	EA	0	0	0	0	0	0	0	0

6	25 KVA , 11 / 0.230 kV 1 Ph Cu wound	3	EA	0	0	0	0	0	0	0	0
9	25 KVA, 11/0.4 kV 3PH,Al wound	525	EA	0	0	0	0	0	0	0	0
10	25 KVA, 11/0.4 3PH,CU wound	5	EA	0	0	0	0	0	0	0	0
11	63 KVA, 11/0.4 3PH,Al wound	405	EA	0	0	0	0	0	0	0	0
12	63 KVA, 11/0.4 3PH,CU wound	5	EA	0	0	0	0	0	0	0	0
13	100 KVA, 11/0.4 3PH,Al wound	481	EA	0	0	0	0	0	0	0	0
14	100 KVA, 11/0.4 3PH,CU wound	5	EA	0	0	0	0	0	0	0	0
15	200 KVA, 11/0.4 3PH,AL wound	20	EA	0	0	0	0	0	0	0	0
16	200 KVA, 11/0.4 3PH,CU wound	1	EA	0	0	0	0	0	0	0	0
17	250 KVA, 11/0.4 3PH,Al wound	75	EA	0	0	0	0	0	0	0	0
18	250 KVA, 11/0.4 3PH,CU wound	10	EA	0	0	0	0	0	0	0	0
19	500 KVA, 11/0.4 3PH,CU wound	26	EA	0	0	0	0	0	0	0	0
21	1000 KVA , 11/.0.4 3PH, CU Wound	3	EA	0	0	0	0	0	0	0	0
Total		2031		0	0	0	0	0	0	0	0
22	Unit price for material(Total all incl)(F)								0		
	Total price(D+E+F)									0	

Annexure-2A 10 KVA to 16 KVA 1PH														
S.No.	Item Description	UOM	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose											
			10 KVA , 11 / 0.230 kV			10 KVA , 11 / 0.230 kV			16 KVA , 11 / 0.230 kV			16 KVA , 11 / 0.230 kV		
			1 Ph Al wound			1 Ph Cu wound			1 Ph Al wound			1 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			X	Y	X*Y	X	Y	X*Y	X	Y	X*Y	X	Y	X*Y
A	New Materials													
1	HV Coil Total													
1A	New Paper Insulated winding	Kg	8		0	10		0	20		0	22		0
1B	New Super Enameled Winding	Kg	0		0	0		0	0		0	0		0
2	LV Coil Total													
2A	New LV coil with paper insulation	Kg	7		0	10		0	10		0	14		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	0		0	0		0	0		0	0		0
4	HV Bushing insulator	EA	2		0	2		0	2		0	2		0
5	LV Bushing Insulator	EA	2		0	2		0	2		0	2		0

6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	2		0	2		0	2		0	2		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	2		0	2		0	2		0	2		0
8	Set of gaskets	Set	1		0	1		0	1		0	1		0
9	Silica gel breather	EA	0		0	0		0	0		0	0		0
10	Prismatic Oil level gauge	EA	1		0	1		0	1		0	1		0
11	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
12	Oil drain/Filter valve	EA	1		0	1		0	1		0	1		0
13	Pair of Arching Horns	EA	2		0	2		0	2		0	2		0
14	Fresh Transformer oil as per latest IS 335	Litre	50		0	50		0	60		0	60		0
15	Sundry items	Set	1		0	1		0	1		0	1		0
16	Dial type Thermometer of min.10mm with max. temp. Ind.	EA	0		0	0		0	0		0	0		0
17	New Radiator	Kg	0		0	0		0	0		0	0		0
18	Conservator tank,EVP,tank top cover etc	Kg	0		0	0		0	0		0	0		0
TOTAL of New material (A)					0			0			0			0
B	Transportation & labor													
19	Labour charges for repair/reconditioning of transformers	EA	1		0	1		0	1		0	1		0

20	Painting charges (external & internal)	EA	1		0	1		0	1		0	1		0
21	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	EA	1		0	1		0	1		0	1		0
22	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	EA	1		0	1		0	1		0	1		0
TOTAL of Transportation & labor (B)					0			0			0			0
C	Scrap Materials													
23	HV & LV leg coil complete with paper insulation only.	Kg	15		0	20		0	30		0	36		0
24	HV & LV leg coil complete with super enameled only.	Kg	15		0	20		0	30		0	36		0
25	Metal parts for HV & LV Bushing(Rod,nut,bolts etc) connectors etc	Kg	0		0	0		0	0		0	0		0
26	LV Internal termination Parts	Kg	2		0	2		0	2		0	2		0
27	Silica gel breather	EA	0		0	0		0	0		0	0		0
28	Radiator	Kg	0		0	0		0	0		0	0		0
29	Conservator tank,EVP,tank top cover and other iron parts	Kg	0		0	0		0	0		0	0		0
30	Transformer oil	Ltr	35		0	35		0	42		0	42		0



31	Tapping switch with handle	EA	0	0	0	0	0	0	0	0	0	0	0
32	Dial type thermometer	EA	0	0	0	0	0	0	0	0	0	0	0
TOTAL of Scrap Materials (C)				0		0		0		0		0	
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)				0		0		0		0		0	
Quantity			4		1		400			9			
Total All Inclusive Value (Unit Price * Quantity)			0		0		0			0			
Total All Inclusive Value for complete BOQ			0										

Annexure-2B 16 KVA 3PH								
S.No.	Item Description	UOM	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose					
			16 KVA , 11 / 0.415 kV			16 KVA , 11 / 0.415 kV		
			3 Ph Al wound			3 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y
A	New Materials							
1	HV Coil Total							
1A	New Paper Insulated winding	Kg	28		0	34		0
1B	New Super Enameled Winding	Kg	0		0	0		0
2	LV Coil Total							
2A	New LV coil with paper insulation	Kg	13		0	16		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	0		0	0		0
4	HV Bushing insulator	EA	3		0	3		0

5	LV Bushing Insulator	EA	4		0	4		0
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	3		0	3		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	4		0	4		0
8	Set of gaskets	Set	1		0	1		0
9	Silica gel breather	EA	1		0	1		0
10	Prismatic Oil level gauge	EA	1		0	1		0
11	Tapping switch with handle	EA	0		0	0		0
12	Oil drain/Filter valve	EA	2		0	2		0
13	Pair of Arching Horns	EA	3		0	3		0
14	Fresh Transformer oil as per latest latest IS 335	Litre	80		0	80		0
15	Sundry items	Set	1		0	1		0
16	Dial type Thermometer of min.10mm with max. temp. Ind.	EA	0		0	0		0
17	New Radiator	Kg	10		0	10		0
18	Conservator tank,EVP,tank top cover etc	Kg	5		0	5		0
TOTAL of New material (A)					0			0
B	Transportation & labor							
19	Labour charges for repair/reconditioning of transformers	EA	1		0	1		0



20	Painting charges (external & internal)	EA	1		0	1		0
21	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	EA	1		0	1		0
22	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	EA	1		0	1		0
TOTAL of Transportation & labor (B)					0			0
C	Scrap Materials							
23	HV & LV leg coil complete with paper insulation only.	Kg	41		0	50		0
24	HV & LV leg coil complete with super enameled only.	Kg	41		0	50		0
25	Metal parts for HV & LV Bushing(Rod,nut,bolts etc) connectors etc	Kg	0		0	0		0
26	LV Internal termination Parts	Kg	4.6		0	4.6		0
27	Silica gel breather	EA	1		0	1		0
28	Radiator	Kg	10		0	10		0

29	Conservator tank,EVP,tank top cover and other iron parts	Kg	5		0	5		0
30	Transformer oil	Ltr	63		0	63		0
31	Tapping switch with handle	EA	0		0	0		0
32	Dial type thermometer	EA	0		0	0		0
TOTAL of Scrap Materials (C)					0			0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)					0			0
Quantity			15			5		
Total All Inclusive Value (Unit Price * Quantity)			0			0		
Total All Inclusive Value for complete BOQ			0					

Annexure-2C 25 KVA 1PH to 25 KVA 3PH

S.No.	Item Description	UOM	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose											
			25 KVA , 11 / 0.230 kV			25 KVA , 11 / 0.230 kV			25 KVA , 11 / 0.415 kV			25 KVA , 11 / 0.415 kV		
			(2) 1 Ph Al wound			(2) 1 Ph Cu wound			3 Ph Al wound			3 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
A	New Materials													
1	HV Coil Total													
1A	New Paper Insulated winding	Kg	23		0	24		0	30		0	36		0
1C	New Super Enameled Winding	Kg	0		0	0		0	0		0	0		0
2	LV Coil Total													
2A	New LV coil with paper insulation	Kg	10		0	14		0	15		0	18		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	0		0	0		0	0		0	0		0
4	HV Bushing insulator	EA	2		0	2		0	3		0	3		0

5	LV Bushing Insulator	EA	2		0	2		0	4		0	4		0
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	2		0	2		0	3		0	3		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	2		0	2		0	4		0	4		0
8	Set of gaskets	Set	1		0	1		0	1		0	1		0
9	Silica gel breather	EA	0		0	0		0	1		0	1		0
10	Prismatic Oil level gauge	EA	1		0	1		0	1		0	1		0
11	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
12	Oil drain/Filter valve	EA	1		0	1		0	2		0	2		0
13	Pair of Arching Horns	EA	2		0	2		0	3		0	3		0
14	Fresh Transformer oil as per latest latest IS 335	Litre	65		0	65		0	90		0	90		0
15	Sundry items	Set	1		0	1		0	1		0	1		0
16	Dial type Thermometer of min.10mm with max. temp. Ind.	EA	0		0	0		0	0		0	0		0

17	New Radiator	Kg	0		0	0		0	10		0	10		0
18	Conservator tank,EVP,tank top cover etc	Kg	0		0	0		0	5		0	5		0
TOTAL of New material (A)					0			0			0			0
B	Transportation & labor													
19	Labour charges for repair/reconditioning of transformers	EA	1		0	1		0	1		0	1		0
20	Painting charges (external & internal)	EA	1		0	1		0	1		0	1		0
21	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	EA	1		0	1		0	1		0	1		0
22	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	EA	1		0	1		0	1		0	1		0
TOTAL of Transportation & labor (B)					0			0			0			0
C	Scrap Materials													
23	HV & LV leg coil complete with paper insulation only.	Kg	33		0	38		0	45		0	54		0
24	HV & LV leg coil complete with super enameled only.	Kg	33		0	38		0	45		0	54		0
25	Metal parts for HV & LV Bushing(Rod,nut,bolts etc) connectors etc	Kg	0		0	0		0	0		0	0		0

26	LV Internal termination Parts	Kg	2		0	2		0	4.6		0	4.6		0
27	Silica gel breather	EA	0		0	0		0	1		0	1		0
28	Radiator	Kg	0		0	0		0	10		0	10		0
29	Conservator tank,EVP,tank top cover and other iron parts	Kg	0		0	0		0	5		0	5		0
30	Transformer oil	Ltr	45.5		0	45.5		0	63		0	63		0
31	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
32	Dial type thermometer	EA	0		0	0		0	0		0	0		0
TOTAL of Scrap Materials (C)					0			0			0			0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)					0			0			0			0
Quantity			33			3			525			5		
Total All Inclusive Value (Unit Price * Quantity)			0			0			0			0		
Total All Inclusive Value for complete BOQ			0											

Annexure-2D 63 KVA & 100 KVA

S.No.	Item Description	UOM	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose											
			63 KVA , 11 / 0.415 kV			63 KVA , 11 / 0.415 kV			100 KVA , 11 / 0.415 kV			100 KVA , 11 / 0.415 kV		
			3 Ph Al wound			3 Ph CU wound			3 Ph Al wound			3 Ph CU wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
A	New Materials													
1	HV Coil Total													
1A	New Paper Insulated winding	Kg	31		0	40		0	50		0	54		0
1C	New Super Enameled Winding	Kg	0		0	0		0	0		0	0		0
2	LV Coil Total													
2A	New LV coil with paper insulation	Kg	20		0	28		0	30		0	40		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	0		0	0		0	0		0	0		0

4	HV Bushing insulator	EA	3		0	3		0	3		0	3		0
5	LV Bushing Insulator	EA	4		0	4		0	4		0	4		0
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	3		0	3		0	3		0	3		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	4		0	4		0	4		0	4		0
8	Set of gaskets	Set	1		0	1		0	1		0	1		0
9	Silica gel breather	EA	1		0	1		0	1		0	1		0
10	Prismatic Oil level gauge	EA	1		0	1		0	1		0	1		0
11	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
12	Oil drain/Filter valve	EA	2		0	2		0	2		0	2		0
13	Pair of Arching Horns	EA	3		0	3		0	3		0	3		0
14	Fresh Transformer oil as per latest latest IS 335	Litre	120		0	120		0	210		0	210		0
15	Sundry items	Set	1		0	1		0	1		0	1		0
16	Dial type Thermometer of min.10mm with max. temp. Ind.	EA	0		0	0		0	0		0	0		0
17	New Radiator	Kg	10		0	10		0	10		0	10		0
18	Conservator tank,EVP,tank top cover etc	Kg	5		0	5		0	5		0	5		0

(A) TOTAL of New material					0			0			0			0
B	Transportation & labor													
19	Labour charges for repair/reconditioning of transformers	EA	1		0	1		0	1		0	1		0
20	Painting charges (external & internal)	EA	1		0	1		0	1		0	1		0
21	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	EA	1		0	1		0	1		0	1		0
22	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	EA	1		0	1		0	1		0	1		0
TOTAL of Transportation & labor (B)					0			0			0			0
C	Scrap Materials													
23	HV & LV leg coil complete with paper insulation only.	Kg	50		0	80		0	80		0	80		0
24	HV & LV leg coil complete with super enameled only.	Kg	50		0	80		0	80		0	80		0
25	Metal parts for HV & LV Bushing(Rod,nut,bolts etc) connectors etc	Kg	0		0	0		0	0		0	0		0
26	LV Internal termination Parts	Kg	4.6		0	4.6		0	4.6		0	4.6		0
27	Silica gel breather	EA	1		0	1		0	1		0	1		0

28	Radiator	Kg	10		0	10		0	10		0	10		0
29	Conservator tank,EVP,tank top cover and other iron parts	Kg	5		0	5		0	5		0	5		0
30	Transformer oil	Ltr	84		0	147		0	147		0	147		0
31	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
32	Dial type thermometer	EA	0		0	0		0	0		0	0		0
TOTAL of Scrap Materials (C)					0			0			0			0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)					0			0			0			0
Quantity			405			5			481			5		
Total All Inclusive Value (Unit Price * Quantity)			0			0			0			0		
Total All Inclusive Value for complete BOQ			0											

Annexure-2E 200 to 1000 KVA

Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose																				
S. No.	Item Description	UOM	200 KVA , 11 / 0.415 kV			200 KVA , 11 / 0.415 kV			250 KVA , 11 / 0.415 kV			250 KVA , 11 / 0.415 kV			500 KVA , 11 / 0.415 kV			1000 KVA , 11 / 0.415 kV		
			3 Ph Al wound			3 Ph Cu wound			3 Ph Al wound			3 Ph CU wound			3 Ph CU wound			3 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
A	New Materials																			
1	HV Coil Total																			
1A	New Paper Insulated winding	Kg	90		0	100		0	100		0	130		0	200		0	320		0
1B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0	0		0	0		0
1C	New Super Enameled Winding	Kg	0		0	0		0	0		0	0		0	0		0	0		0

2	LV Coil Total																			
2A	New Conductor with New DPC	Kg	60		0	75		0	50		0	80		0	140		0	210		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	3		0	3		0	4		0	4		0	5		0	7		0
4	HV Bushing insulator	E A	3		0	3		0	3		0	3		0	3		0	3		0
5	LV Bushing Insulator	E A	4		0	4		0	4		0	4		0	4		0	4		0
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	E A	3		0	3		0	3		0	3		0	3		0	3		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	E A	4		0	4		0	4		0	4		0	4		0	4		0
8	Set of gaskets	Set	1		0	1		0	1		0	1		0	1		0	1		0

9	Silica gel breather	E A	1		0	1		0	1		0	1		0	1		0	1		0
10	Prismatic Oil level gauge	E A	1		0	1		0	1		0	1		0	1		0	1		0
11	Tapping switch with handle	E A	0		0	0		0	1		0	1		0	1		0	1		0
12	Oil drain/Filter valve	E A	2		0	2		0	2		0	2		0	2		0	2		0
13	Pair of Arching Horns	E A	3		0	3		0	3		0	3		0	3		0	3		0
14	Fresh Transformer oil as per latest latest IS 335	Lit re	360		0	360		0	430		0	430		0	560		0	900		0
15	Sundry items	Se t	1		0	1		0	1		0	1		0	1		0	1		0
16	Dial type Thermometer of min.10mm with max. temp. Ind.	E A	0		0	0		0	0		0	0		0	1		0	1		0
17	New Radiator	Kg	15		0	15		0	15		0	15		0	50		0	50		0

18	Conservator tank,EVP,tank top cover etc	Kg	7		0	7		0	7		0	7		0	10		0	10		0
TOTAL of New material (A)					0			0			0			0			0			0
B	Transportation & labor																			
19	Labour charges for repair/reconditioning of transformers	E A	1		0	1		0	1		0	1		0	1		0	1		0
20	Painting charges (external & internal)	E A	1		0	1		0	1		0	1		0	1		0	1		0
21	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	E A	1		0	1		0	1		0	1		0	1		0	1		0

22	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	E A	1	0	1	0	1	0	1	0	1	0	1	0	1	0
TOTAL of Transportation & labor (B)				0		0		0		0		0		0		0
C	Scrap Materials															
23	HV & LV leg coil complete with paper insulation only.	Kg	150	0	240	0	160	0	230	0	390	0	638	0		0
24	HV & LV leg coil complete with super enameled only.	Kg	150	0	240	0	160	0	230	0	390	0	638	0		0
25	Metal parts for HV & LV Bushing(Rod,nut,bolts etc) connectors etc	Kg	3	0	3	0	4	0	4	0	5	0	7	0		0

26	LV Internal termination Parts	Kg	4.6	0	4.6	0	5.15	0	5.15	0	5	0	11	0
27	Silica gel breather	E A	1	0	1	0	1	0	1	0	1	0	1	0
28	Radiator	Kg	15	0	15	0	15	0	15	0	50	0	50	0
29	Conservator tank,EVP,tank top cover and other iron parts	Kg	7	0	7	0	7	0	7	0	10	0	10	0
30	Transformer oil	Ltr	252	0	252	0	301	0	301	0	392	0	630	0
31	Tapping switch with handle	E A	0	0	0	0	1	0	1	0	1	0	1	0
32	Dial type thermometer	E A	0	0	0	0	0	0	0	0	1	0	1	0
TOTAL of Scrap Materials (C)				0		0		0		0		0		0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)				0		0		0		0		0		0
Quantity			20		1		75		10		26		3	



Total All Inclusive Value (Unit Price * Quantity)	0	0			0	0	0	0
Total All Inclusive Value for complete BOQ	0							

For 2024-25(11KV)

New Materials	Same material same rate	Transformer Qty	ALL INCLUSIVE Unit Price (including GST)		Total all incl value (including GST)	
			AL	CU	AL	CU
HV leg coil complete with paper insulation only	Same for All Trf (AL, Cu)	20			0	0
LV leg coil complete with paper insulation only		20			0	0
HV leg coil complete with super enamell		20			0	0
LV leg coil complete with super enamell		20			0	0
HV leg coil complete with Old Conductor with New DPC insulation		20			0	0
LV leg coil complete with Old Conductor with New DPC insulation		20			0	0
						0
			All inclusive Total price		0	

Services unit rate 16KVA 1ph

S.No.	Item Description	UOM	Unit price for Bill of Material		
			16 KVA , 11 / 0.230 kV		
			1 Ph Al wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR
			X	Y	X*Y
	Services				
1	Labour Charges for Conservator Tank Repair	EA	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0
TOTAL of Services					0
Quantity			400		
Total All Inclusive Value (Unit Price * Quantity)			0		
Total All Inclusive Value for complete BOQ			0		

Services unit rate 16KVA 3ph

S.No.	Item Description	UOM	Unit price for Bill of Material		
			16 KVA , 11 / 0.415 kV		
			3 Ph AI wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y
	Services				
1	Labour Charges for Conservator Tank Repair	EA	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0
TOTAL of Services					0
Quantity			15		
Total All Inclusive Value (Unit Price * Quantity)			0		
Total All Inclusive Value for complete BOQ			0		

Services unit rate 25KVA 1& 3ph

S.No.	Item Description	UOM	Unit price for Bill of Material					
			25 KVA , 11 / 0.230 kV			25 KVA , 11 / 0.415 kV		
			(2) 1 Ph AI wound			3 Ph AI wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y
	Services							
1	Labour Charges for Conservator Tank Repair	EA	1		0	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0	1		0
TOTAL of Services					0			0
Quantity			33			525		
Total All Inclusive Value (Unit Price * Quantity)			0			0		
Total All Inclusive Value for complete BOQ			0					

Services unit rate 63KVA & 100 3ph

S.No.	Item Description	UOM	Unit price for Bill of Material					
			63 KVA , 11 / 0.415 kV			100 KVA , 11 / 0.415 kV		
			3 Ph AI wound			3 Ph AI wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y
	Services							
1	Labour Charges for Conservator Tank Repair	EA	1		0	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0	1		0
TOTAL of Services					0			0
Quantity			405			481		
Total All Inclusive Value (Unit Price * Quantity)			0			0		
Total All Inclusive Value for complete BOQ			0					

Services-200-1000,3ph

S.No	Item Description	UOM	Unit price for Bill of Material											
			200 KVA , 11 / 0.415 kV			250 KVA , 11 / 0.415 kV			500 KVA , 11 / 0.415 kV			1000 KVA , 11 / 0.415 kV		
			3 Ph Al wound			3 Ph Al wound			3 Ph CU wound			3 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
	Services													
1	Labour Charges for Conservator Tank Repair	EA	1		0	1		0	1		0	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0	1		0	1		0	1		0
TOTAL of Services					0			0			0			0
Quantity			20			75			26			3		
Total All Inclusive Value (Unit Price * Quantity)			0			0			0			0		

TPC⚡ODL

Total All Inclusive Value for complete BOQ	0			
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Annexure-3 33KV

Schedule of Items for DTR Repairing 33KV(FY 23-24)											
SL No	Schedules of Item Description	Quantity	Uo M	All Inclusive Total Unit 'Net Repair Cost' including GST (i.e A+B-C)*	All Inclusive Total Price including GST	C_Unit rate including GST	C_All inclusive total price	A+B_Unit rate including GST	A+B_all inclusive total price(D)	Services(a ll inclusive Unit rate)	Services_A ll Inclusive total price
1	100 KVA , 33/0.415 kV,3 Ph CU wound	20	EA	0	0	0	0	0	0	0	0
2	250 KVA , 33/0.415 kV,3 Ph CU wound	3	EA	0	0	0	0	0	0	0	0
3	500 KVA , 33 / 0.415 kV,3 Ph CU wound	3	EA	0	0	0	0	0	0	0	0
4	750 KVA , 33 / 0.415 kV,3 Ph CU wound	2	EA	0	0	0	0	0	0	0	0
5	1000 KVA , 33 / 0.415 kV,3 Ph CU wound	2	EA	0	0	0	0	0	0	0	0
Total		30		0	0	0	0	0	0	0	0
6	Unit price for material(Total all incl)(F)									0	
	Total price(D+E+F)									0	

S.No.	Item Description	UOM	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose														
			100 KVA , 33 / 0.415 kV			250 KVA , 33 / 0.415 kV			500 KVA , 33 / 0.415 kV			750 KVA , 33 / 0.415 kV			1000 KVA , 33 / 0.415 kV		
			3 Ph CU wound			3 Ph CU wound			3 Ph CU wound			3 Ph Cu wound			3 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
A	New Materials																
1	HV Coil Total																
1A	New Conductor with New DPC Insulation	Kg	72		0	140.4		0	242		0	300		0	390		0
1B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0	0		0
1C	New Super Enameled Winding	Kg	0		0	0		0	0		0	0		0	0		0
2	LV Coil Total																
2A	New Conductor with New DPC	Kg	50		0	108		0	150		0	200		0	250		0

2B	Old Conductor with New DPC insulation	Kg	0	0	0	0	0	0	0	0	0	0	0	0
3	LV internal termination (Phase & Neutral)	Kg	0	0	4	0	5	0	6	0	7	0	0	
4	HV Bushing insulator	EA	3	0	3	0	3	0	3	0	3	0	0	
5	LV Bushing Insulator	EA	4	0	4	0	4	0	4	0	4	0	0	
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	3	0	3	0	3	0	3	0	3	0	0	
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	4	0	4	0	4	0	4	0	4	0	0	
8	Set of gaskets	Set	1	0	1	0	1	0	1	0	1	0	0	
9	Silica gel breather	EA	1	0	1	0	1	0	1	0	1	0	0	
10	Prismatic Oil level gauge	EA	1	0	1	0	1	0	1	0	1	0	0	
11	Tapping switch with handle	EA	0	0	1	0	1	0	1	0	1	0	0	
12	Oil drain/Filter valve	EA	2	0	2	0	2	0	2	0	2	0	0	
13	Pair of Arching Horns	EA	3	0	3	0	3	0	3	0	3	0	0	
14	Fresh Transformer oil as per latest IS 335	Litre	226.8	0	464.4	0	604.8	0	756	0	972	0	0	
15	Sundry items	Set	1	0	1	0	1	0	1	0	1	0	0	

16	Dial type Thermometer of min.10mm with max. temp. Ind.	EA	1	0	1	0	1	0	1	0	1	0	1	0
20	New Radiator	Kg	10	0	20	0	30	0	40	0	50	0	50	0
21	Conservator tank,EVP,tank top cover etc	Kg	5	0	10	0	10	0	15	0	15	0	15	0
TOTAL of New material (A)				0		0		0		0		0		0
B	Transportation & labor													
23	Labour charges for repair/reconditioning of transformers	EA	1	0	1	0	1	0	1	0	1	0	1	0
24	Painting charges (external & internal)	EA	1	0	1	0	1	0	1	0	1	0	1	0
25	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	EA	1	0	1	0	1	0	1	0	1	0	1	0
26	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	EA	1	0	1	0	1	0	1	0	1	0	1	0
TOTAL of Transportation & labor (B)				0		0		0		0		0		0
C	Scrap Materials													

27	HV & LV leg coil complete with paper insulation only.	Kg	86.4		0	248.4		0	504		0	580		0	689		0
28	HV & LV leg coil complete with Super enamel only.	Kg	86.4		0	248.4		0	504		0	580		0	689		0
29	Metal parts for HV & LV Bushing(Rod,nut, bolts etc) connectors etc	Kg	0		0	4		0	5		0	6		0	7		0
30	LV Internal termination Parts	Kg	4.6		0	5.15		0	5		0	11		0	11		0
31	Silica gel breather	EA	1		0	1		0	1		0	1		0	1		0
32	Core laminations	Kg	0		0	0		0	10		0	10		0	10		0
33	Radiator	Kg	10		0	20		0	30		0	40		0	50		0
34	Conservator tank,EVP,tank top cover and other iron parts	Kg	5		0	10		0	10		0	15		0	15		0
35	Transformer oil	Ltr	158.7		0	325		0	423.3		0	529.2		0	680.4		0
36	Tapping switch with handle	EA	0		0	1		0	1		0	1		0	1		0
37	Dial type thermometer	EA	0		0	0		0	1		0	1		0	1		0
TOTAL of Scrap Materials (C)					0			0			0			0			0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)					0			0			0			0			0



Quantity	20	3	3	2	2
Total All Inclusive Value (Unit Price * Quantity)	0	0	0	0	0
Total All Inclusive Value for complete BOQ of Annex 1A(a)	0				



Unit rates for 33KV 2023-24

New Materials	Same material same rate	Transformer Qty	ALL INCLUSIVE Unit Price (including GST)		Total all incl value (including GST)	
			AL	CU	AL	CU
HV leg coil complete with paper insulation only	Same for All Trf (AL, Cu)	1			0	0
LV leg coil complete with paper insulation only		1			0	0
HV leg coil complete with super enamell		1			0	0
LV leg coil complete with super enamell		1			0	0
HV leg coil complete with Old Conductor with New DPC insulation		1			0	0
LV leg coil complete with Old Conductor with New DPC insulation		1			0	0
					0	0
			All inclusive Total price		0	



Service rate for 33KV 2023-24

S.No.	Item Description	UOM	Unit price for Bill of Material														
			100 KVA , 33 / 0.415 kV			250 KVA , 33 / 0.415 kV			500 KVA , 33 / 0.415 kV			750 KVA , 33 / 0.415 kV			1000 KVA , 33 / 0.415 kV		
			3 Ph CU wound			3 Ph CU wound			3 Ph CU wound			3 Ph Cu wound			3 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
	Services																
1	Labour Charges for Conservator Tank Repair	EA	1		0	1		0	1		0	1		0	1		0
2	Labour Charges for Amorphous/s hell Type Transformer Repairing	EA	1		0	1		0	1		0	1		0	1		0
TOTAL of Transportation & labor					0			0			0			0			0
Quantity			20			3			3			2			2		
Total All Inclusive Value (Unit Price * Quantity)			0			0			0			0			0		
Total All Inclusive Value for complete BOQ			0														

TPC**ODL**