



Corrigendum- II

NIT No. : TPNODL / OT / 2021-22 / 089 Dtd.28.10.2021

Rate Contract for Repairing of Various Capacity of 33/11kV Power Transformer

Dated 22nd November 2021

Following changes in Calendar of Events in page no. 6 of tender document is made;

• **1.3 Revised Calendar of Events:**

(a)	Last Date of receipt of Tender Fee	22.11.2021 ; 15:00 Hrs
(b)	Date & Time of Pre-Bid Meeting (If any)	Not Applicable due to COVID-19, Queries to be answered through e-mail / TPNODL Tender website.
(c)	Last Date of receipt of pre-bid queries, if any- in MS – Excel format through e-mail, (if any) after which no queries will be entertained	22.11.2021 up to 18:00 Hrs
(d)	Last Date of Posting Consolidated replies to all the pre-bid queries as received	23.11.2021 up to 18:00 Hrs
(e)	Last date and time of receipt of Bids	26.11.2021 up to 15:00 Hrs
(f)	Date & Time of opening technical bids & EMD	26.11.2021 up to 15:30 Hrs
(g)	Date & Time of opening of Price of qualified bids	Will be notified to the successful bidders through our website / e-mail.

Annexure-1 (PRICE BID)

Schedule for Items

For 3.15 MVA Power Transformer (Qty: 10 Nos.)

Sl No.	Description of Work	Unit	Tentative Quantity	Unit Rate (in Rs.)	GST (in Rs.)	Unit Amount (all inclusive) (in Rs.)	Total Amount (all inclusive) (in Rs.)
1	Re insulation of HV Copper Conductor with existing Conductor	Kg.	9000				
2	Re insulation of LV Copper Conductor with existing Conductor	Kg.	6000				
3	Replacement of HV damaged copper wire with new copper wire deducting salvage	Kg.	9000				
4	Replacement of LV damaged copper wire with new copper wire deducting salvage	Kg.	6000				
5	Replacement of damaged Core with new deducting salvage	Kg.	1000				
6	Cleaning, Treatment & Re-assembly of Core	LS	10				
7	Replacement of new insulating press board	LS	10				
8	Replacement of new EHV Grade transformer Oil	Ltr.	25300				
9	Replacement of New gaskets RC 70 grade (Top cover, Conservator, Bushing, Bucholtz, Radiator and flange Joints)	LS	10				
10	Cleaning & Spray painting of tank, radiators, conservator, tap changer, marshaling box etc. with one coat of primer & two coats of approved paint and inside the tank with epoxy paint	LS	10				
11	New Off load Tap Changer (6-Position)	No.	5				
12	Repair of Off load Tap Switch	No.	11				
13	New On load Tap Changer	No.	2				
14	Repair of On load Tap Changer	No.	6				
15	36kV 250Amp HV Bushing	No.	30				
16	12kV 250Amp LV Bushing	No.	40				
17	36kV 250Amp HV Brass Stud with Nuts	No.	30				
18	12kV 250Amp LV Brass Stud with Nuts	No.	40				
19	C.I clamp for 33kV Bushing	No.	30				
20	C.I clamp for 11kV Bushing	No.	40				
21	Arcing Horn assembly for 33kV bushing	No.	30				
22	Arcing Horn assembly for 11kV bushing	No.	40				
23	Phase separator with insulation between coils	Set	10				
24	Replacement of Galvanized H.W items	Kg.	300				
25	New transparent type Silicagel breather	No.	10				
26	Buchholtz relay (with alarm & trip contact)	No.	20				
27	Wheel Valve (Flange Type) 50mm	No.	50				
28	BSP Gun metal valve with cap (1.5"/2.0")	No.	20				
29	Radiator Shut off valve	No.	160				
30	Oil level gauge in conservator	No.	6				
31	Oil Temperature Indicator (with alarm & trip contact)	No.	10				

TP NORTHERN ODISHA DISTRIBUTION LIMITED

(A Tata Power & Odisha Government Joint Venture)

Registered & Corporate Office: Januganj, Remuna Golei, Balasore – 756 019, Odisha, India

Phone: +91 6782 244865, Email: contactus@tpnodl.com, Website: www.tpnodl.com

CIN: U40106OR2021SGC035951

32	Winding Temperature Indicator (with alarm & trip contact)	No.	10				
33	Oil level indicator	No.	10				
34	Miscellaneous items like insulating paper, cotton Tap, Weaving Taps, SRBP Tube, Sleeving etc	LS	10				
35	Removal & blocking of OLTC permanently	No.	2				
36	Replacement of PRV (Pressure Release Valve)	No.	7				
37	Healthiness checking and repair of Winding CT	LS	10				
38	Replacement of defective Neutral CT by new	No.	10				
39	Re-connection of control cables at Marshaling Box to protective equipment's and checking of it's healthiness for complete transformer auxiliary protection	LS	10				
40	Repairing						
	(i) Tank	No.	2				
	(ii) Radiator	Bank	15				
	(iii) Conservator	No.	2				
	(iv) Marshaling Box	No.	10				
41	Wooden coil clamping pressure plate of Appropriate size with (New)	No.	5				
42	Thickly Re insulation of MS Coil clamping pressure plate	Set	10				
	Total Material Cost (in Rs.) (A)						
(B)	Labour & Filtration						
1	Filtration charges for new EHV grade Transformer Oil	Ltr.	25300				
2	Labour charges for repairing of the transformer.	LS	10				
3	Electricity Charges (Oven Charges)	LS	10				
4	Transportation Charges TO & FRO (lifting of Burnt Transformer & Delivery of Repaired Transformer)	Per Km	4000				
	Total Service Charges (in Rs.) (B)						
(C)	Scrap Materials						
1	HV & LV coil complete with paper insulation only.	Kg	15000				
2	Metal parts for HV & LV Bushing (Rod, nut, bolts etc) connectors etc	Kg	300				
3	Silica gel breather	EA	10				
4	Core laminations	Kg	1000				
5	Radiator	Bank	15				
6	Conservator tank, EVP, tank top cover and other iron parts	Kg	300				
7	Transformer oil	Ltr	25300				
8	Tapping switch with handle	EA	10				
	Total of Scrap Materials (in Rs.) (C)						
	Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)						

For 5.00 MVA Power Transformer: (Qty: 20 Nos.)

Sl No.	Description of Work	Unit	Tentative Quantity	Unit Rate (in Rs.)	GST (in Rs.)	Unit Amount (all inclusive) (in Rs.)	Total Amount (all inclusive) (in Rs.)
1	Re insulation of HV Copper Conductor with existing Conductor	Kg.	30000				
2	Re insulation of LV Copper Conductor with existing Conductor	Kg.	18000				
3	Replacement of HV damaged copper wire with new copper wire deducting salvage	Kg.	30000				
4	Replacement of LV damaged copper wire with new copper wire deducting salvage	Kg.	18000				
5	Replacement of damaged Core with new deducting salvage	Kg.	2400				
6	Cleaning, Treatment & Re-assembly of Core	LS	20				
7	Replacement of new insulating press board	LS	20				
8	Replacement of new EHV Grade transformer Oil	Ltr.	66000				
9	Replacement of New gaskets RC 70 grade (Top cover, Conservator, Bushing, Bucholtz, Radiator and flange Joints)	LS	20				
10	Cleaning & Spray painting of tank, radiators, conservator, tap changer, marshaling box etc. with one coat of primer & two coats of approved paint and inside the tank with epoxy paint	LS	20				
11	New Off load Tap Changer (6-Position)	No.	5				
12	Repair of Off load Tap Switch	No.	10				
13	New On load Tap Changer	No.	4				
14	Repair of On load Tap Changer	No.	14				
15	36kV 250Amp HV Bushing	No.	60				
16	12kV 250Amp LV Bushing	No.	80				
17	36kV 250Amp HV Brass Stud with Nuts	No.	60				
18	12kV 250Amp LV Brass Stud with Nuts	No.	80				
19	C.I clamp for 33kV Bushing	No.	60				
20	C.I clamp for 11kV Bushing	No.	80				
21	Arcing Horn assembly for 33kV bushing	No.	60				
22	Arcing Horn assembly for 11kV bushing	No.	80				
23	Phase separator with insulation between coils	Set	20				
24	Replacement of Galvanized H.W items	Kg.	800				
25	New transparent type Silicagel breather	No.	20				
26	Buchholtz relay (with alarm & trip contact)	No.	40				
27	Wheel Valve (Flange Type) 50mm	No.	100				
28	BSP Gun metal valve with cap (1.5"/2.0")	No.	40				
29	Radiator Shut off valve	No.	320				
30	Oil level gauge in conservator	No.	10				
31	Oil Temperature Indicator (with alarm & trip contact)	No.	20				

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32	Winding Temperature Indicator (with alarm & trip contact)	No.	20				
33	Oil level indicator	No.	20				
34	Miscellaneous items like insulating paper, cotton Tap, Weaving Taps, SRBP Tube, Sleeving etc	LS	20				
35	Removal & blocking of OLTC permanently	No.	4				
36	Replacement of PRV (Pressure Release Valve)	No.	12				
37	Healthiness checking and repair of Winding CT	LS	20				
38	Replacement of defective Neutral CT by new	No.	20				
39	Re-connection of control cables at Marshaling Box to protective equipments and checking of it's healthiness for complete transformer auxiliary protection	LS	20				
40	Repairing						
	(i) Tank	No.	4				
	(ii) Radiator	Bank	30				
	(iii) Conservator	No.	4				
	(iv) Marshaling Box	No.	20				
41	Wooden coil clamping pressure plate of Appropriate size with (New)	No.	12				
42	Thickly Re insulation of MS Coil clamping pressure plate	Set	20				
	Total Material Cost (in Rs.) (A)						
(B)	Labour & Filtration						
1	Filtration charges for new EHV grade Transformer Oil	Ltr.	66000				
2	Labour charges for repairing of the transformer.	LS	20				
3	Electricity Charges (Oven Charges)	LS	20				
4	Transportation Charges TO & FRO (lifting of Burnt Transformer & Delivery of Repaired Transformer)	Per Km	8000				
	Total Service Charges (in Rs.) (B)						
(C)	Scrap Materials						
1	HV & LV coil complete with paper insulation only.	Kg	48000				
2	Metal parts for HV & LV Bushing (Rod, nut, bolts etc) connectors etc	Kg	800				
3	Silica gel breather	EA	20				
4	Core laminations	Kg	2400				
5	Radiator	Bank	30				
6	Conservator tank, EVP, tank top cover and other iron parts	Kg	800				
7	Transformer oil	Ltr	66000				
8	Tapping switch with handle	EA	20				
	Total of Scrap Materials (in Rs.) (C)						
	Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)						

For 8.00 MVA Power Transformer: (Qty: 05 Nos.)

Sl No.	Description of Work	Unit	Tentative Quantity	Unit Rate (in Rs.)	GST (in Rs.)	Unit Amount (all inclusive) (in Rs.)	Total Amount (all inclusive) (in Rs.)
1	Re insulation of HV Copper Conductor with existing Conductor	Kg.	10500				
2	Re insulation of LV Copper Conductor with existing Conductor	Kg.	6000				
3	Replacement of HV damaged copper wire with new copper wire deducting salvage	Kg.	10500				
4	Replacement of LV damaged copper wire with new copper wire deducting salvage	Kg.	6000				
5	Replacement of damaged Core with new deducting salvage	Kg.	1000				
6	Cleaning, Treatment & Re-assembly of Core	LS	5				
7	Replacement of new insulating press board	LS	5				
8	Replacement of new EHV Grade transformer Oil	Ltr.	21000				
9	Replacement of New gaskets RC 70 grade (Top cover, Conservator, Bushing, Bucholtz, Radiator and flange Joints)	LS	5				
10	Cleaning & Spray painting of tank, radiators, conservator, tap changer, marshaling box etc. with one coat of primer & two coats of approved paint and inside the tank with epoxy paint	LS	5				
11	New Off load Tap Changer (6-Position)	No.	2				
12	Repair of Off load Tap Switch	No.	2				
13	New On load Tap Changer	No.	2				
14	Repair of On load Tap Changer	No.	3				
15	36kV 250Amp HV Bushing	No.	15				
16	12kV 250Amp LV Bushing	No.	20				
17	36kV 250Amp HV Brass Stud with Nuts	No.	15				
18	12kV 250Amp LV Brass Stud with Nuts	No.	20				
19	C.I clamp for 33kV Bushing	No.	15				
20	C.I clamp for 11kV Bushing	No.	20				
21	Arcing Horn assembly for 33kV bushing	No.	15				
22	Arcing Horn assembly for 11kV bushing	No.	20				
23	Phase separator with insulation between coils	Set	5				
24	Replacement of Galvanized H.W items	Kg.	250				
25	New transparent type Silicagel breather	No.	5				
26	Buchholtz relay (with alarm & trip contact)	No.	10				
27	Wheel Valve (Flange Type) 50mm	No.	25				
28	BSP Gun metal valve with cap (1.5"/2.0")	No.	10				
29	Radiator Shut off valve	No.	80				
30	Oil level gauge in conservator	No.	3				
31	Oil Temperature Indicator (with alarm & trip contact)	No.	5				

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32	Winding Temperature Indicator (with alarm & trip contact)	No.	5			
33	Oil level indicator	No.	5			
34	Miscellaneous items like insulating paper, cotton Tap, Weaving Taps, SRBP Tube, Sleeving etc	LS	5			
35	Removal & blocking of OLTC permanently	No.	2			
36	Replacement of PRV (Pressure Release Valve)	No.	4			
37	Healthiness checking and repair of Winding CT	LS	5			
38	Replacement of defective Neutral CT by new	No.	5			
39	Re-connection of control cables at Marshaling Box to protective equipments and checking of it's healthiness for complete transformer auxiliary protection	LS	5			
40	Repairing					
	(i) Tank	No.	2			
	(ii) Radiator	Bank	10			
	(iii) Conservator	No.	2			
	(iv) Marshaling Box	No.	5			
41	Wooden coil clamping pressure plate of Appropriate size with (New)	No.	3			
42	Thickly Reinsulation of MS Coil clamping pressure plate	Set	5			
	Total Material Cost (in Rs.) (A)					
(B)	Labour & Filtration					
1	Filtration charges for new EHV grade Transformer Oil	Ltr.	21000			
2	Labour charges for repairing of the transformer.	LS	5			
3	Electricity Charges (Oven Charges)	LS	5			
4	Transportation Charges TO & FRO (lifting of Burnt Transformer & Delivery of Repaired Transformer)	Per Km	2000			
	Total Service Charges (in Rs.) (B)					
(C)	Scrap Materials					
1	HV & LV coil complete with paper insulation only.	Kg	16500			
2	Metal parts for HV & LV Bushing (Rod, nut, bolts etc) connectors etc	Kg	250			
3	Silica gel breather	EA	5			
4	Core laminations	Kg	1000			
5	Radiator	Bank	10			
6	Conservator tank, EVP, tank top cover and other iron parts	Kg	250			
7	Transformer oil	Ltr	21000			
8	Tapping switch with handle	EA	5			
	Total of Scrap Materials (in Rs.) (C)					
	Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)					

NOTE:

- L-1 bidder shall be determine on the over-all value of BOQ, however; it should be excluding scrap value. The scrap value shall be discussed with L-1 bidder during manual negotiation.
- The quantities as mentioned above are for evaluation purpose only. Actual quantities may vary as per the requirement during the contract period. Also the condition / availability of scrap material in transformer / accessories is not certain & Bidder has to apprise himself about all such conditions. No price implication will be considered after finalization of contract on these issues.
- The bidders are advised to quote prices strictly in the above format as mentioned above and it is mandatory to quote. Failing to do so, bids are liable for rejection.
- The overall period of the rate contract shall be for a period of **02 year** and price shall be firm till the validity of contract.
- Value of Scrap will not exceed 50% of total value of new material and services or else this aspect is to be taken care of while finalizing the rates.
- The unit price with GST in column no. 6, is landed price FOR TPNODL Odisha Locations. Exact delivery location shall be specified in the Release Order.
- The **Economic limit** for repairing of transformer is as per Annexure-II (Technical Specification).
- The bidder must fill each and every column of the above format. ***Mentioning “extra/inclusive” in any of the column may lead for rejection of the price bid.***
- No cutting/ overwriting in the prices is permissible.

All other terms and conditions of the above tender shall remain unaltered.

Yours faithfully,

-sd-

**HOD-Contracts
TPNODL, Balasore**