

TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

From

The Chief Engineer,
Transmission,
APTRANSCO, Vidyut Soudha,
Gunadala, Vijayawada
Mail ID: ce.aptransmission@gmail.com

To

The Chief Engineer/ Visakhapatnam/Zone,
Visakhapatnam.
The Chief Engineer/ Vijayawada/ Zone,
Vijayawada.
The Chief Engineer/ Kadapa Zone,
Kadapa.

Lr.No.CE(Tr)/SE(Tr)/EE(Tr)/DEE-3/F.CTO-04/2021-ERC/D.No.124/21, dt 24.08.2021

Sir,

Sub:- Fixing up of Rate Contract Prices for Erection and oil filtration works of 220 kV and 132 kV Class Power Transformers, valid for 2 years i.e. from **24.08.2021 to 23.08.2023** - Approval Communicated - Regarding.

Ref:- Tender Specification No.CTO-04/2021

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Fresh tenders were floated for the subject work vide Specification No.CTO-04/2021 of Chief Engineer / Transmission. The following 7Nos. firms have accepted the rates as annexed along with terms & conditions of Tender specification No.CTO-04/2021. Rate contract prices are valid for 2 years i.e. from **24.08.2021 to 23.08.2023**.

.Sl. No.	Name of the Company	Qualified to carry out the subject work up to the PTR capacity
1	M/s K. Ramachandra Rao Transmission & Projects Pvt Ltd., Praveen chambers, 305, B Block, Kushal towers, Kairathabad, Hyderabad -500004 Ph: 040 23316151, 23316627 E mail ID: tower@krrtppl.com	Upto 160MVA capacity.
2	M/s G.S.Electricals, Plot No.221, Block B-10, 4th Road, New Auto nagar, Kanuru, Vijayawada-520007 Ph: 9494474711, 9492645566, 9949071187, 9492418711 E mail ID: service@gselectricals.com	Upto 160MVA capacity.

Sl. No.	Name of the Company	Qualified to carry out the subject work up to the PTR capacity
3	M/s M.Hital Rao Engineers & Contractor 7-1-58, Flat No.1-509, Divya Shakthi Commercial complex, Ameerpet, Hyderabad-500 016 Ph: 8008595959, 040 29561500, E mail ID: mhitalrao@gmail.com	Upto 160MVA capacity.
4	M/s Bhogeswar & Co 5-103/1A, Sanappa Colony, Avilala, Tirupati Rural -517 507 Ph: 9000009777, E mail ID: prathap1171@gmail.com	Upto 160MVA capacity.
5	M/s Sunflower Transformers P Ltd., D.No.59A-21-7A, Plot No.501, Venkat Meadows, RR Gardens, Autonagar post, Patamata, Vijayawada-520007 Ph:9177966266, 0866 2543966 E mail ID: sunflowertransformers@gmail.com	Upto 160MVA capacity.
6	M/s Srinath Power Systems, Plot No.322/A, Block-B15, New Autonagar, Kanuru, Vijayawada-520 007 Ph: 9492046678, 9492746699, 9703343123 E mail ID: srinathpower11@gmail.com	Upto 50MVA capacity.
7	M/s Kakateeya Transformers P Ltd., Flat No.16, Block No.C-01, 7TH Road, New Autonagar, Kanuru, Vijayawada -520007, Ph: 9866966266, E mail: kakateeyatransformers@gmail.com	Upto 160MVA capacity.

All other terms & conditions are applicable as per Tender specification No.CTO-04/2021. The applicable tax structure for rate contract prices are as follows:

- i. GST: GST extra as applicable on date of issue of LOI / awarding of work / entering into Agreement on all items of Annexure. Present rate of GST is @ 18%.
- ii. TDS: TDS applicable on total amount of bill (Material & labour portion) as per LOI / Agreement.

The Chief Engineer/Zones, Superintending Engineers / OMCs & Superintending Engineers / O&Ms are requested to adopt above rate contract prices for carrying out the subject works instead of rate contract prices incorporated in SSR for the year 2020-21.

This approval is issued with the concurrence of the Chairman and Managing Director / APTRANSCO as per minutes of SPC-II dt 23.08.2021.

Encl: 1. Annexure
2. Spec.No.CTO-04/2021

Yours faithfully,


Chief Engineer/Transmission

Copy to
PS to the Director / Grid, Transmission & Management / APTRANSCO/VS/
Vijayawada: for Director's perusal.

The FA & CCA (Accounts)/ APTRANSCO/Vidyut Soudha/ Vijayawada

The Superintending Engineer/OMC/ Srikakulam, Vizianagaram, Visakhapatnam,
Rajahmundry, Eluru, Vijayawada, Guntur, Ongole, Nellore, Tirupati, Ananthapuramu,
Kadapa, Kurnool

The Superintending Engineer/O&M/ Kadapa & Kurnool

The Superintending Engineer/OMC/ 400KV Kadapa, Vijayawada, Visakhapatnam

TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

From

The Chief Engineer,
Transmission,
APTRANSCO, Vidyut Soudha,
Gunadala, Vijayawada
Mail ID: ce.aptransmission@gmail.com

To

The Chief Engineer/ Visakhapatnam/Zone,
Visakhapatnam.

The Chief Engineer/ Vijayawada/ Zone,
Vijayawada.

The Chief Engineer/ Kadapa Zone,
Kadapa.

Lr.No.CE(Tr)/SE(Tr)/EE(Tr)/DEE-3/F.CTO-04/2021-ERC/D.No.129/21, dt 13.09.2021

Sir,

Sub:- Fixing up of Rate Contract Prices for Erection and oil filtration works of 220 kV and 132 kV Class Power Transformers, valid for 2 years – Additional 2 Nos. firms - Approval Communicated - Regarding.

Ref:- 1. Tender Specification No.CTO-04/2021
2. Lr.No.CE(Tr)/SE(Tr)/EE(Tr)/DEE-3/F.CTO-04/2021-ERC/D.No.124/21, dt 24.08.2021
3. Lr.No.CE(Tr)/SE(Tr)/EE(Tr)/DEE-3/F.CTO-4/2021-ERC /D.No. 125 /21, dt 24.08.21

& & &

Rate contract approval for the subject work was communicated vide reference (2) cited with the following 7Nos. firms with fresh rates valid for 2 years i.e. from **24.08.2021 to 23.08.2023.**

.Sl. No.	Name of the Company	Qualified to carry out the subject work up to the PTR capacity
1	M/s K. Ramachandra Rao Transmission & Projects Pvt Ltd., Hyderabad	Upto 160MVA capacity.
2	M/s G.S.Electricals, Vijayawada	Upto 160MVA capacity.
3	M/s M.Hital Rao Engineers & Contractor Hyderabad	Upto 160MVA capacity.
4	M/s Bhogeswar & Co, Tirupati	Upto 160MVA capacity.
5	M/s Sunflower Transformers P Ltd., Vijayawada	Upto 160MVA capacity.
6	M/s Srinath Power Systems, Vijayawada	Upto 50MVA capacity.
7	M/s Kakateeya Transformers P Ltd., Vijayawada	Upto 160MVA capacity.

In addition to the above 7Nos. firms, the following 2Nos. firms have also accepted the same rates valid up to 23.08.2023 for carrying out above work with the terms and conditions of specification No. CTO - 04/2021 and are included in the above rate contract.

Sl. No.	Name of the Company	Qualified to carry out the subject work up to the PTR capacity
1	M/s K. Satyanarayana Murthy D.No.71-9-42/4, Tarakarama nagar, Behind Police Quarters, Rajamahendravaram- 533106 Ph: 0883 2411297, 9490188980 E mail ID: kolukula.2009@gmail.com	Up to 160 MVA capacity.
2	M/s Sri Venkata keerthy Power Systems Pvt Ltd., Plot No.214, Saraswathi Block, Sri Hari Nilayam, Varashviswanath Nagar, Near Tiruchanoor Fly over, Tirupati -517503, Ph: 9440893848 E Mail ID: keerthypower@rediffmail.com	Up to 160 MVA capacity.

All other terms & conditions are applicable as per Tender specification No.CTO-04/2021. The applicable tax structure for rate contract prices are as follows:

- i. GST: GST extra as applicable on date of issue of LOI / awarding of work / entering into Agreement on all items of Annexure. Present rate of GST is @ 18%.
- ii. TDS: TDS applicable on total amount of bill (Material & labour portion) as per LOI / Agreement.

The Chief Engineer/Zones, Superintending Engineers / OMCs & Superintending Engineers / O&Ms are requested to take necessary action accordingly.

This approval is issued with the concurrence of the Chairman and Managing Director / APTRANSCO vide note # 19 of e-office file No.1437283.

Yours faithfully,


Chief Engineer/Transmission

Copy to
PS to the Director / Grid, Transmission & Management / APTRANSCO/VS/
Vijayawada: for Director's perusal.

The FA & CCA (Accounts)/ APTRANSCO/Vidyut Soudha/ Vijayawada

The Superintending Engineer/OMC/ Srikakulam, Vizianagaram, Visakhapatnam,
Rajahmundry, Eluru, Vijayawada, Guntur, Ongole, Nellore, Tirupati, Ananthapuramu,
Kadapa, Kurnool

The Superintending Engineer/O&M/ Kadapa & Kurnool

The Superintending Engineer/OMC/ 400KV Kadapa, Vijayawada, Visakhapatnam

ANNEXURE to Lr.No.CE(Tr)/SE(Tr)/EE(Tr)/DEE-3/F.CTO-04/2021-ERC/D.No.124/21, dt 24.08.2021
PRICES FOR ERECTION AND OIL FILTERATION WORKS OF 220KV AND 132KV POWER TRANSFORMERS
ON RATE CONTRACT BASIS FOR A PERIOD OF 2 YEARS i.e. from 24.08.2021 to 23.08.2023.

Sl. No	DESCRIPTION	UNIT	Up to and including 16MVA PTRs	Above 16MVA and up to and including 31.5MVA PTRs	Above 31.5MVA and up to and including 50MVA PTRs	Above 50MVA and up to and including 80MVA PTRs	Above 80MVA and up to and including 100MVA PTRs	Above 100MVA and up to and including 200MVA PTRs
A	Job involving labour portion							
1	Mobilization of men, Loading, Unloading, Transportation of men, T&P such as wooden sleepers, winch jacks, packing pieces etc., any where in A.P. required for handling the power transformers. Note: Only 1 no. mobilisation to be allowed for a work. Either 1(a) or 1(b) are applicable.							
(a)	where dismantling, loading/unloading and erection work of PTR is taken up.	LS	15650	15650	15660	22000	26000	26000
(b)	where dismantling, loading/unloading work of PTR is exclusively taken up (erection works of PTR not involved)	LS	15650	15650	15660	22000	26000	26000
(c)	2nd Mobilisation is applicable only where plinth modification works are involved as per field condition and mobilization done for the 2nd time. Note: The concerned Superintending Engineer/OMC or O&M shall issue necessary certification for the same.	50% LS	7830	7830	7830	11000	13000	13000
2	Mobilization of 10 KL / 20KL / 40 KL oil tanker including Loading & Unloading and return trip charges							
a	10KL oil Tanker	LS	15000	15000	15000	15000	15000	15000
b	20KL oil Tanker	LS	16900	16900	16900	16900	16900	16900
c	40KL oil Tanker	LS	NA	NA	NA	NA	25000	25000
3	Mobilization of 6 KL oil filter machine including Loading & Unloading and return trip charges	LS	10000	10000	10000	10000	10000	10000
4(a)	Loading or unloading of power transformer main tank without oil including all accessories (bushings, radiators, pipe line, FCC, RTCC panels, conservator tank, LA set frames, A frame and header etc., duly making all arrangements in full shape	LS	20000	32000	32000	36000	36000	41000
4(b)	Loading or unloading of power transformer main tank with oil including all accessories (bushings, radiators, pipe line, FCC, RTCC panels, conservator tank, LA set frames, A frame and header etc., duly making all arrangements in full shape	LS	20000	32000	32000	36000	36000	41000
5	Shifting of accessories of transformers like radiator, conservator tank, pipe line, fans, headers, DM box, FCC and oil barrels etc., from place of storage to work spot and vice versa of transformers. (Rate to be quoted for 100MVA and above)	Job	NA	NA	NA	NA	6500	8000
6	Loading / unloading of full transformer oil barrels.	Barrel	37	37	37	37	37	37
7	Loading / unloading of empty oil barrels	Barrel	6	6	6	6	6	6
8	Providing of oil tanker on daily hire charges							
a	10 KL capacity	per day	1478	1478	1478	1478	1478	1478
b	20 KL capacity	per day	2475	2475	2475	2475	2475	2475
c	40 KL capacity	per day	NA	NA	NA	NA	5000	5000
9	Turning the transformer through 90 degrees including making arrangements in full shape.	Each	1495	3100	3100	8000	8000	8000
10	Turning the transformer through 180 degrees including making arrangements in full shape and assembled with all accessories.	Each	2850	6200	6200	12500	12500	16000
11	Dragging of transformer tank (without oil) and assembled with all accessories wherever necessary including making all arrangements for dragging the transformer, fixing of wheels complete.							
a	Upto 15 Mtrs.	LS	7700	10000	10000	10000	10000	10000
b	Over and above 15 Mtrs (Rate per RMT)	RMT	550	550	550	700	700	700
12	Dragging of transformer tank with oil filled and assembled with all accessories wherever necessary including making all arrangements for dragging the transformer, fixing of wheels complete.							
a	Upto 15 Mtrs.	LS	8650	11000	11000	NA	NA	NA
b	Over and above 15 Mtrs (Rate per RMT)	RMT	550	550	550	NA	NA	NA
13	Erection of transformer bushings							
a	33 kV Neutral and tertiary bushings	Each	1300	1300	1300	1300	1400	1400
b	132 kV bushings along with turrets	Each	3425	3425	3425	3425	3500	3500
c	220 kV bushings along with turrets	Each	NA	4950	4950	4976	5000	5000

**PRICES FOR ERECTION AND OIL FILTRATION WORKS OF 220KV AND 132KV POWER TRANSFORMERS
ON RATE CONTRACT BASIS FOR A PERIOD OF 2 YEARS i.e. from 24.08.2021 to 23.08.2023.**

Sl. No	DESCRIPTION	UNIT	Up to and including 16MVA PTRs	Above 16MVA and up to and including 31.5MVA PTRs	Above 31.5MVA and up to and including 50MVA PTRs	Above 50MVA and up to and including 80MVA PTRs	Above 80MVA and up to and including 100MVA PTRs	Above 100MVA and up to and including 200MVA PTRs
14	Erection of Power transformer including alignment of transformer power etc., vice versa, Opening of crates and keep ready for erection of accessories of transformers, erection of main conservator tank, radiators, Pronal bag testing and commissioning, Erection of air blowers (cooling fans) including frames and control cubical etc., erection of driving mechanism box, bevel gear of OLTC, erection of OLTC conservator tank with stand and pipe line for the same including fixing of OLTC surge relay and breather, erection of Thermometer, pressure Relief valve and vent pipe etc., duly making all arrangements in full shape including providing of stoppers to transformer wheels on 4 sides duly welding angle pieces on rail poles.	LS	28669	28669	31000	31000	41000	41000
15	Erection of detachable OLTC including connecting internal jumper with OLTC to tap winding.	Each	8000	8000	8000	12500	12500	15200
16(a)	Erection of LA frame on HV side	Job	1450	1450	1450	NA	NA	NA
16(b)	Erection of LA frame on LV side	Job	775	775	775	NA	NA	NA
17	Erection of 'A' frame header pipes and bends for separate cooler bay.	Job	NA	15000	16000	22000	22000	26000
18	Erection of all indicating instruments, panels etc., pertaining to the transformer (excluding wiring).	LS	2411	2411	3387	3969	4000	4000
19	Complete wiring up of the transformer indicating systems cooler control fans and motor driving mechanism of OLTC panel providing suitable ferrules and lugs.	LS	9100	11500	11500	12500	13000	15000
20	Laying of cables for the transformers which are received without internal wiring on the transformer and complete wiring of the transformer on the tank F.C.C, D.M. box etc in dressing & termination with ferrules and lugs including cost of ferrules and lugs	Job	6600	8500	8500	9000	11500	15000
21	Filteration of oil :							
a	Filteration of new oil including Laying of L.T.Cable from AC Supply point to filter connecting Pipes etc, from filter to transformer and back to filter and Vice-versa.	KL	2500	2500	2500	2500	2500	2500
b	Filteration of old oil including Laying of L.T.Cable from AC Supply point to filter connecting Pipes etc, from filter to transformer and back to filter and Vice-versa.	KL	3600	3600	3600	3600	3600	3600
c	Filteration of old oil for flushing etc.,including Laying of L.T.Cable from AC Supply point to filter connecting Pipes etc, from filter to transformer and back to filter and Vice-versa before filling the filtered oil.	KL	3400	3400	3400	3400	3500	3500
22	Oil topping for transformer through oil filter (only for O&M works)	KL	1000	1000	1000	1000	1000	1000
23	Dry out of transformer as detailed below :							
	After removal of bushings and replacement of gaskets, the bushing turrets and radiator butterfly valves are fitted with blanking plates. The transformer is evacuated with the aid of a vacuum pump, simultaneously the entire oil in the transformer is circulated in separate transformer oil tank till it reaches a temperature of 65 deg C, after evacuation for 24 hrs nitrogen is filled into the transformer and allowed to stay for 12 hrs the nitrogen is evacuated and oil is filled and circulated for 24 hours, the oil is again removed from the transformer tank and it is simultaneously put under vacuum, the moisture removal is excellent as the vacuum is applied to a hot winding, this procedure is repeated for 3 cycles or till the recovery of moisture from vacuum pump is bare minimum. The new oil (or old oil itself if oil is not replaced) is filtered in a separate tank after filling from drums, after it achieves required BDV (> 60 KV for old transformer oil and > 70 for new transformer oil) , the oil is transferred to main tank, the oil is topped up to tank level and the bushings are erected, the entire transformer is put under filtration till the required values are achieved.	KL	4100	4100	4100	4100	4100	4100
24	Draining of oil from main tank of the transformer as directed by the APTRANSCO Engineer at site :							

**PRICES FOR ERECTION AND OIL FILTRATION WORKS OF 220KV AND 132KV POWER TRANSFORMERS
ON RATE CONTRACT BASIS FOR A PERIOD OF 2 YEARS i.e. from 24.08.2021 to 23.08.2023.**

Sl. No	DESCRIPTION	UNIT	Up to and including 16MVA PTRs	Above 16MVA and up to and including 31.5MVA PTRs	Above 31.5MVA and up to and including 50MVA PTRs	Above 50MVA and up to and including 80MVA PTRs	Above 80MVA and up to and including 100MVA PTRs	Above 100MVA and up to and including 200MVA PTRs
(a)	Draining of oil from main tank of the transformer into empty oil drums and stacking them neatly.	KL	300	300	300	300	300	300
(b)	Draining of oil from main tank of the transformer into oil tanker during internal inspection/ minor repairs/transportation of drained oil etc.	KL	300	300	300	300	300	300
25	Earthing :							
a	Removal of HV, LV, Neutral and Body earthing on both sides for the existing Power Transformer including FCC box and OLTC DM box	LS	2000	2000	2000	2000	2000	2200
b	Labour charges for laying of existing earth flat, cost of flat not applicable							
(i)	50x8 mm MS flat	RMT	62	62	62	62	62	62
(ii)	100 x 16 mm MS flat	RMT	79	79	79	79	79	79
(iii)	50 x 8 mm GI flat	RMT	60	60	60	60	60	60
(iv)	100 x 16 mm GI flat	RMT	79	79	79	79	79	79
26	Arresting of oil leakages of radiator at site	Each	3947	5000	5000	5000	5000	5000
27 (a)	Hiring of crane for Lifting of Core and winding for replacement of gaskets / internal inspection (in case of PTRs where core & windings are topcover mounted)							
i	40 MT	Per day	90000	90000	90000	90000	90000	90000
ii	75 MT	Per day	120000	120000	120000	120000	120000	120000
iii	100 MT	Per day	150000	150000	150000	150000	150000	150000
27 (b)	Over and above 1 day subject to maximum of 2 days							
i	40 MT	Per Hr.	10000	10000	10000	10000	10000	10000
ii	75 MT	Per Hr.	14900	14950	15000	15000	15000	15000
iii	100 MT	Per Hr.	19900	19900	19900	19900	20000	20000
27 (c)	Hiring of crane for lifting of top cover for replacement of gaskets/internal inspection etc.	Per Job	10000	10000	10000	12000	12000	12000
28	Service charges for Internal inspection of power transformer	Job	20000	20000	20000	20000	20000	20000
29	Dismantling of 3 Nos. LAs on LV side, LA supporting frame, connecting jumpers for movement of PTRs.	Job	2650	2650	2650	5000	5200	5200
30	Dismantling of 3 Nos. LAs on HV side, LA supporting frame, connecting jumpers for movement of PTRs.	Job	4600	4600	4600	6000	6000	6000
31	Dismantling of defective bushing and erection of new bushing including all connected works including oil draining and re-filling but excluding oil filtration work (only for O&M works).							
a	220 KV Bushing including turrets	Each	NA	10000	10000	10000	10500	11000
b	132 KV Bushing including turrets	Each	8000	8000	8000	8000	8000	8000
c	33 KV Bushing	Each	2000	2000	2000	2000	2000	2000
d	Tertiary/ Neutral Bushing	Each	2000	2000	2000	2000	2000	2000
32	Dismantling of power transformer i.e., dismantling of HV, LV neutral bushings, radiators, conservator tank, pipe line headers, 'A' frame, cooling fans, wheels, OLTC conservator, turrets, & structure both on HV & LV side, DM box, FCC etc. duly making all arrangements in full shape	LS	24555	27000	27000	31000	32000	36000
33	Dismantling of HV turrets for 132 KV transformer, HV and LV turrets for 220 KV transformer & Radiator valves to facilitate replacement of gaskets (only for O&M works)	Job	1194	2000	2025	3100	7000	7000
34	Dismantling, overhauling, dehydration of cooler fan motors, checking the bearings, replacing the bearings if required (except rewinding of motor)							
a	< 1 HP	Per Fan	2850	2850	2898	2898	2898	2898
b	> 1HP	Per Fan	2850	2850	2898	2898	2898	2898
B	Job involving Only Material Portion							
1	Supply of Brass casted LV / HV bushings connectors to suit pad clamps of jumpers (Finished weight)	Per Kg.	350	350	355	356	356	356
2	Supply of Pad Clamps	Nos	567	567	567	568	568	568
3	Supply of a) HV Clamps	Each	612	612	612	612	612	612
	Supply of b) LV Clamps	Each	1100	1100	1100	1100	1140	1141
4	Supply of Breather							

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a	5Kgs	Each	5155	5155	5155	5155	5155	5155
b	2 Kgs	Each	2660	2660	2660	2660	2660	2660
5	Supply of top cover GI bolts and nuts	Kg.	75	75	75	75	75	75
6	Supply of cooling fans	Nos	8560	8560	8560	10667	10667	14000
7	Supply of a) WTI	Nos	9455	9455	9455	9455	9511	9511
	Supply of b) OTI	Nos	8550	8550	8550	8555	8560	8560
8	Supply of Radiator Valves	Nos	950	950	950	950	951	951
9	Supply of Bucholtz relay	Nos	3800	3800	3800	3800	3800	3804
10	Supply of PRV	Nos	13200	13200	14250	14250	14250	14265
11	Supply of butterfly valves	Nos	3505	3505	3505	3505	3505	3556
12	Supply of OSR	Nos	9305	9305	9305	9305	9305	9333
13	Rewinding of Cooling Fans							
a	< 1 HP	Per Fan	3050	3050	3110	3110	3110	3111
b	> 1HP	Per Fan	4400	4400	4440	4440	4440	4444
C	Job involving Material and Labour Portion							
1	Supply and filling of N2 gas / dry air with -60°C dew point during draining of transformer oil/ transportation / dry out process	Per Cylinder	1715	1715	1715	1715	1720	1720
2	Arrangement of vaccum filling by Nitrogen gas / dry air with -60°C dew point for the power transformer within the prescribed time duration in case of PTRs received at site with nitrogen gas filled.	Per Cylinder	1715	1715	1715	1715	1720	1720
3	Spray painting of entire transformer with two coats of best quality synthetic enamel paint of colour, cleaning thoroughly with wire brush, as required by APTRANSCO of approved make including cost of paint, cost of brushes, labour charges etc., complete and as directed by the APTRANSCO Engineer							
(a)	with applying 1 coat of red oxide	LS	12811	14900	17600	20889	22210	26660
(b)	without applying 1 coat of red oxide	LS	10523	12200	15800	16000	20220	22211
4	Earthing							
a	Provision of HV, LV, Neutral and body earthing on both sides of main tank FCC and OLTC DM box including cost of required material, bolts & nuts etc. complete.(Includes cost of the flat and labour charges for erection of the same)							
(i)	50x8 mm MS flat	RMT	192	192	192	192	192	192
(ii)	100 x 16 mm MS flat	RMT	712	712	712	712	712	712
(iii)	50 x 8 mm GI flat	RMT	250	250	250	250	250	250
(iv)	100 x 16 mm GI flat	RMT	890	890	890	890	890	890
b	Providing of flexible copper jumpers for HV/LV neutrals	Each	905	905	905	905	905	905
5	Cleaning the old gasket material, preparation of gaskets for replacement of old gaskets, supply of required RC 70C grade gaskets, replacement of oil seals of nitrile rubber, Teflon and nylon, replacing the same with identical washers of the same material including Dismantling and erection of flanges and valves fitted to the transformer for replacement of gaskets for the following							
a	Top Cover	LS	17811	20000	20000	31000	32000	40000
b	Excluding top cover	LS	11815	15000	15000	21000	21000	25000
c	Erection gasket set	LS	7592	9500	9543	17000	17043	17760
6	Fabrication of required dummy plates	Kg.	62	62	62	62	62	62
7	Providing New Fan control cubical duly including 1 No. motor protection circuit breaker, 1 No. single phase preventor, 1 No. counter contactor and new wiring to meet requirement as per standard / latest drawing.	per Fan	7050	7050	7100	7100	7110	7110

ANNEXURE to Lr.No.CE(Tr)/SE(Tr)/EE(Tr)/DEE-3/F.CTO-04/2021-ERC/D.No.124/21, dt 24.08.2021
PRICES FOR ERECTION AND OIL FILTERATION WORKS OF 220KV AND 132KV POWER TRANSFORMERS
ON RATE CONTRACT BASIS FOR A PERIOD OF 2 YEARS i.e. from 24.08.2021 to 23.08.2023.

Sl. No	DESCRIPTION	UNIT	Up to and including 16MVA PTRs	Above 16MVA and up to and including 31.5MVA PTRs	Above 31.5MVA and up to and including 50MVA PTRs	Above 50MVA and up to and including 80MVA PTRs	Above 80MVA and up to and including 100MVA PTRs	Above 100MVA and up to and including 200MVA PTRs
D	Transportation							
1	Transportation of power transformers main tank by mechanical trailer including return trip charges and excluding transit insurance	MT/KM	Rs. 5.78 subject to minimum of Rs.60000 per movement.	Rs. 5.78 subject to minimum of Rs.60000 per movement.	Rs. 5.78 subject to minimum of Rs.73500 per movement.	Rs. 7.20 subject to minimum of Rs.94500 per movement.	NA	NA
2	Transportation of PTRs main tank weighing from 30MT to 70MT by hydraulic trailer including return trip charges and excluding transit insurance	MT/KM	Rs. 20.00 subject to minimum of Rs.260000 per movement.	Rs. 20.00 subject to minimum of Rs.260000 per movement.	Rs. 20.00 subject to minimum of Rs.260000 per movement.	Rs. 20.00 subject to minimum of Rs.260000 per movement.	Rs. 20.00 subject to minimum of Rs.260000 per movement.	Rs. 20.00 subject to minimum of Rs.260000 per movement.
3	Transportation of PTRs main tank weighing from 71MT to 90MT by hydraulic trailer including return trip charges and excluding transit insurance	MT/KM	Rs. 20.00 subject to minimum of Rs.420000 per movement.	Rs. 20.00 subject to minimum of Rs.420000 per movement.	Rs. 20.00 subject to minimum of Rs.420000 per movement.	Rs. 20.00 subject to minimum of Rs.420000 per movement.	Rs. 20.00 subject to minimum of Rs.420000 per movement.	Rs. 20.00 subject to minimum of Rs.420000 per movement.
4	Transportation of PTRs main tank weighing from 91MT to 120MT by hydraulic trailer including return trip charges and excluding transit insurance	MT/KM	Rs. 20.00 subject to minimum of Rs.460000 per movement.	Rs. 20.00 subject to minimum of Rs.460000 per movement.	Rs. 20.00 subject to minimum of Rs.460000 per movement.	Rs. 20.00 subject to minimum of Rs.460000 per movement.	Rs. 20.00 subject to minimum of Rs.460000 per movement.	Rs. 20.00 subject to minimum of Rs.460000 per movement.
5	Transportation of power transformer accessories through lorries	MT/KM	Rs. 5.78 subject to minimum of Rs.5240 per movement.	Rs. 5.78 subject to minimum of Rs.5250 per movement.	Rs. 5.78 subject to minimum of Rs.5250 per movement.	Rs. 5.78 subject to minimum of Rs.5250 per movement.	Rs. 5.78 subject to minimum of Rs.5250 per movement.	Rs. 5.78 subject to minimum of Rs.5250 per movement.
6	Transportation of full oil barrels from Source sub-station / Stores to sub-station	KL/KM	Rs. 5.75 subject to minimum of Rs.5240 per movement.	Rs. 5.78 subject to minimum of Rs.5240 per movement.	Rs. 5.78 subject to minimum of Rs.5240 per movement.	Rs. 5.78 subject to minimum of Rs.5240 per movement.	Rs. 5.78 subject to minimum of Rs.5240 per movement.	Rs. 5.78 subject to minimum of Rs.5240 per movement.
7	Transportation of empty oil barrels from sub-station to stores/stores to substation.	Load / KM	Rs. 37.00 subject to minimum of Rs.5150 per movement.	Rs. 37.00 subject to minimum of Rs.5150 per movement.	Rs. 37.00 subject to minimum of Rs.5150 per movement.	Rs. 37.00 subject to minimum of Rs.5150 per movement.	Rs. 37.00 subject to minimum of Rs.5150 per movement.	Rs. 37.00 subject to minimum of Rs.5150 per movement.


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