



Meghalaya Power Transmission Corporation Limited
Office of the Chief Engineer (Transmission)
Lumjingshai, Short Round Road, Shillong – 793001
CIN – U4010ML2009SGC008393 email: cetranzemeptcl@gmail.com

No. MePTCL/CE (T)/TT-203/2025-26/46

Dated Shillong, the 20th August, 2025.

CORRIGENDUM

In line with clause 1.2.3 of section 1- Instructions to Bidders of bid documents for the tender invited vide No. MePTCL/CE (T)/TT-203/2024-25/44, Dated 30th July, 2025 for Manufacturing, Testing, Supply, Installation and Supervision of Commissioning of 132/33kV, 50 MVA Mineral Oil Filled Power Transformers and Related Services for 132 KV NEHU Grid Substation in Meghalaya, the following is hereby notified for information to all the prospective bidders for preparing and submission of the bid proposals.

The Appendix: Technical Particulars of 132/33kV, 50 MVA Power Transformer attached in Purchaser Requirement of Section-3 of the bidding documents stands deleted.

The Technical Particulars of 132/33kV, 50 MVA Power Transformer is hereby amended as indicated below:

GTP for 50 MVA 132/33 kV, 3-Phase Power Transformer

S. No.	Description	Unit	TECHNICAL PARAMETERS
1.	Voltage ratio (Line-to-Line)	kV	132/33
2.	Rated capacity (HV and LV)	MVA	50
3.	No of phases		3 (Three)
4.	Vector Group		YNyn0
5.	Type of transformer		Power Transformer
6.	Applicable Standard		IEC 60076 / IS 2026
7.	Cooling type		ONAN/ONAF
8.	Rating at different cooling	%	60 / 100
9.	Cooler Bank Arrangement		2 X 50%
10.	Frequency	Hz	50
11.	Tap changer		
i)	Type		On-load tap changer (CFVV)
ii)	Tapping range and steps		-15% to +5% in steps of 1.25% for HV variation
iii)	Location of tap changer		On HV neutral end
12.	HV-LV Impedance at 75 °C, at highest MVA base		
i)	Max. Voltage tap	%	13.2
ii)	Principal tap	%	12.5
iii)	Min. Voltage tap	%	11.8
13.	Tolerance on Impedance	%	As per IEC
14.	Service		Outdoor
15.	Duty		Continuous
16.	Overload Capacity		IEC 60076-7
17.	Temperature rise over 50°C ambient temp.		

i)	Top oil measured by thermometer	°C	45
ii)	Average winding measured by resistance method	°C	50
18.	Winding hot spot rise over yearly weighted temperature of 32 °C	°C	61
19.	Tank hot spot temperature	°C	110
20.	Maximum design ambient temperature	°C	50
21.	Windings		
i)	Lightning Impulse withstand Voltage		
	HV	kVp	650 (132 kV)
	LV	kVp	170
	HV Neutral	kVp	95
	LV Neutral	kVp	170
ii)	Chopped Wave Lightning Impulse Withstand Voltage		
	HV	kVp	715 (132 kV)
	LV	kVp	187
iii)	Switching Impulse withstand Voltage		
	HV	kVp	540 (132 kV)
iv)	One Minute Power Frequency withstand Voltage		
	HV	kVrms	275 (132 kV)
	LV	kVrms	70
	HV Neutral	kVp	38
	LV Neutral	kVp	70
v)	Neutral Grounding (HV and LV)		Solidly grounded
vi)	Insulation		
	HV		Graded
	LV		Uniform
vii)	Tan delta of winding	%	≤0.5%
22.	Bushings		

i)	Rated voltage		
	HV	kV	145
	LV, LV Neutral & HV Neutral	kV	36
ii)	Rated current (Min.)		
	HV	A	1250
	LV	A	1250
	HV Neutral & LV Neutral	A	1250
iii)	Lightning Impulse withstand Voltage		
	HV	kVp	650
	LV, HV Neutral and LV Neutral	kVp	170
iv)	One Minute Power Frequency withstand Voltage		
	HV	kVrms	305
	LV, HV Neutral and LV Neutral	kVrms	77
v)	Tan delta of bushing at ambient Temperature	%	≤ 0.5
vi)	Minimum total creepage distances		(Specific creepage distance: 31mm/kV corresponding to the line to line highest system voltage)
	HV	mm	4495
	LV, HV Neutral and LV Neutral	mm	1116
	Maximum Partial discharge level at Um on HV	pC	10
23.	Maximum Partial discharge level at $1.58 \cdot U_r / \sqrt{3}$	pC	100
24.	Maximum Noise level at rated voltage, at principal tap & no load and all cooling active	dB	75 for 50 MVA
25.	Maximum Permissible Losses of Transformers		
i)	Max. No Load Loss at rated voltage and frequency	kW	25
ii)	Max. Load Loss at rated current and frequency and at 75°C at principal tap between HV & LV	kW	125
iii)	2 Max. I ² R Loss at rated current and frequency and at 75°C at principal tap between HV & LV	kW	105
iv)	Max. Auxiliary Loss at rated voltage and frequency	kW	3



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email: cetranzemeptcl@gmail.com

All other terms and conditions of the Bid Document will remain the same.

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(P.Sun)

Chief Engineer (Transmission)

Memo No. MePTCL/CE (T)/TT-203/2025-26/46 (a) Dated Shillong, the 20th August, 2025.

Copy to:

1. The Director (Transmission), MePTCL, Shillong for favour of information.
2. The Superintending Engineer, T&T Circle MePTCL, Shillong.
3. ✓ The Executive Engineer (MIS), MePDCL, Shillong with a request to upload the Corrigendum in the MeECL websites.

Chief Engineer (Transmission)