

SPECIFICATION OF 3 PHASE 500 KVA 11/0.433 KV DISTRIBUTION TRANSFORMER

3 PHASE. 50Hz. COPPER DOUBLE WOUND, OIL IMMERSED NATURALLY COOLED. CORE TYPE TRANSFORMER CONFORMING TO IS : 2026 Contained in Mild Steel RADIATOR COOLED TANK WITH FIRST FILL OF OIL AS PER IS: 335

Sl No	Description	Unit	Value
1	Output	KVA	500
2	No Load Voltage Ratio at rated Voltage & Frequency	KV	11/0.433
3	Frequency	Hz	50± 3%
4	Cooling	ONAN	ONAN
5	Type	INDOOR/ OUT DOOR	INDOOR
6	Duty		Continuous
7	Type of Tap Change- OFF LOAD/ OLTC WITH RTCC/ AVR	OLTCG/OFTC	Off circuit tap switch
8	Tap Range and Step [PLUS/MINUS/STEP]	% / % / %	5% / 10% / 2.5% STEPS
9	Impedance /Tolerance at principal tap	%	5 % on Principal tap (Tolerance as per IS 2026)
10	Vector Group	CONNECTION	Delta / Star (Dyn 11)
11	Temperature rise at rated load over an ambient of	Deg C	50
12	-In Oil by Thermometer/ of WINDING by resistance	Deg C	50/55
13	Paint shade to IS:5 [Epoxy]		631
14	Dimension of the Transformer	L X B X H in mm	
15	Total Weight of the Transformer	Kgs	
16	Painting		2 Coats of Primer and 2 Coats of Grey paint
17	Efficiency of the Transformer at Rated Current, Rated Voltage and at Unity Power factor at 75 Deg C (i.e., at full load)	%	>99 without any tolerance
18	Class of Insulation		Class A
19	Voltage Regulation	%	
Fittings & Accessories			
20	Rating and Diagram Plate	To be provided	
21	Earthing Terminals- 2 Nos	To be provided	
22	Lifting Lugs	To be provided	
23	Air release hole with plug	To be provided	
24	Dehydrating Silica Gel Breather	To be provided	
25	Prismatic Oil Level Guage	To be provided	
26	Oil Conservator with drain plug	To be provided	
27	Thermometer pocket	To be provided	
28	Jacking Lugs	To be provided	
29	Bottom drain Cum filter valve	To be provided	
30	Top filter valve	To be provided	
31	4 Nos Bidirectional Rollers	To be provided	
32	Pressure Relief Device	To be provided	
33	Marshalling Box	To be provided	
34	100 mm OTI/ 150 mm OTI with alarm & trip	To be provided	
35	WTI with alarm and trip	To be provided	

36	Buchholz Relay with alarm & trip	To be provided
37	Shut off Valves for Buchholz Relay	To be provided
38	Magnetic Oil Level gauge	To be provided
39	Radiators- Fixed/ Detachable	To be provided
40	HV Side:	HV Cable box to be provided
41	LV Side Cable Box: Indicate No. of Glands with cable sizing	LV Cable box details to be provided
42	DELIVERY	Within 8 weeks from Drawing approval
43	Warranty	12 months from the date of commissioning or 18 months from date of despatch, whichever is earlier.
44	Testing	Vendor has to conduct Routine tests as per IS:2026 and Test reports to be submitted. Valid type test reports to be submitted.

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21/9/17

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ಮುರಲೀಧರ ಎಸ್, ವರಿಷ್ಠ ಪ್ರಬಂಧಕ/ವೆಕ್ಸ್
MURALIDHARA S, Sr. Manager/WEX
BHEL - EPD, BENGALURU-560 012