

A. Technical Specification : Schedule of Guaranteed Technical Particulars of Transformer			
1		Capacity in KVA	2500, 3000
2		Make	BHEL APPROVED MAKE
3		Reference Standards	
	3.01	Transformer design & testing	IS2026
	3.02	Loading	IS 6600
	3.03	Oil	IS 335
	3.04	Porcelain bushing	IS 3347
4.		Tolerance on electrical parameters	IS 2026
5		Duty	Continuous duty
6		Windings	EG Copper, Double wound
7		Core	CRGO
8		Type	outdoor
9		Rated Input	33000 V
10		Rated Output	433 V
11		Frequency	50 Hz+/-3 Hz
12		No. of Phases	3
13		Input configuration	Delta

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14		Output Configuration	star
15		Vector Group	Dyn 11
16		Tapping	Off circuit tap changer shall be provided on HV winding in variation from +/-5% in steps of 2.5%.
17		Cooling	ONAN
18		Max. ambient temperature	50° C
19		Max. oil temperature rise	45° C
20		Max. winding temperature rise	55° C
21		HV side High voltage withstand test	70 KV
22		LV side High voltage withstand test	3 KV
23		% impedance at 75° C	6.25%
24		Mounting of cooling radiators	Detachable
25		Induced over voltage withstand test	
	25.01	applied on LV side	0.866 KV
	25.02	induced on HV side	66 KV
26		Terminal Arrangement	
	26.01	HV side	Bare Bushing
	26.02	LV side	Bus Duct
	26.03	Neutral	Required
27		Standard fittings	
	27.01	NAME,RATING & DIAGRAM PLATE	Required
	27.02	EARTHING TERMINALS	Required
	27.03	LIFTING LUGS	Required
	27.04	OIL LEVEL INDICATOR	Required
	27.05	FILTER VALVE WITH PLUG	Required
	27.06	DRAIN CUM SAMPLING VALVE	Required
	27.07	CONSERVATOR WITH OIL FILLING HOLE	Required
	27.08	THERMOMETER POCKET	Required
	27.09	DIAL TYPE OIL TEMP.INDICATOR WITH MAX. INDICATING POINTER	Required
	27.10	AIR RELEASE PLUG	Required

27.11	DEHYDRATING BREATHER	Required
27.12	EXPLOSION VENT	Required
27.13	INSPECTION COVER	Required
27.14	FIRST FILLING OF TRANSFORMER OIL CONFORMING TO IS:335	Required
27.15	SILICA GEL BREATHER	Required
27.16	BIDIRECTIONAL WHEEL	Required
27.17	BUCHHOLZ RELAY WITH ALARM & TRIP	Required
27.18	MARSHALLING BOX	Required
27.19	WTI WITH ALARM & TRIP	Required
27.20	OTI WITH ALARM & TRIP	Required
27.21	MAGNETIC OIL LEVEL GAUGE	Required

B. TESTS: Following routine tests shall be conducted in house before dispatch of transformer as per IS 2026 to be required at factory site.

- Physical Examination
- Insulation Resistance
- No- Load loss & Current
- Winding Resistance
- Voltage ratio & check for voltage vector relationship
- Voltage impedance/short circuit impedance (principal tapping) and load loss
- Dielectric tests
- DVDF and High voltage withstand test