

Annexure-A

GUARANTEED TECHNICAL PARATMETRS OF 100-KVA, 11/0.433KV THREE PHASE DISTRIBUTION TRANSFORMERS.

Schedule of Technical Particulars

1. Specifications	IS:2026-1977/1180 (Part-I) 1981 (As amended upto date) and CBIP Manual
2. Type of Transformer	Aluminium Double wound
3. Number of phases in system	Three
4. Frequency	50 HZ \pm 3 %
5. Cooling medium	Oil as per IS:335 of 1993 (As amendment upto date)
6. Service	Outdoor
7. Type of cooling	ONAN
8. Rated Voltage	
(a) H.V	11000 Volts
(b) L.T	433 Volts
9. Rated Power	100 KVA on all tapping
10. Tappings	
(a) Range + 2.5 % to - 7.5 % in Step Of 2.5 %	off current
(b) Number of steps	Five (5)
(c) Winding which is fitted with taps	H.V
(d) Category of voltage variation	CEVV
(e) Short circuit impedance	
(i) Extreme tap	4.5 %
(ii) Normal tap	4.5 %
11. Highest System Voltage for equipment	
(i) H.V	12 KV
(ii) L.T	476 Volts
12. Method of system Earthing	Effectively Earthed
13. Insulation level	
(a) Impulse level	
H.V	75 KV
L.T	-----
(b) Power frequency test level	
H.V	28 KV
L.T	2.5 KV
Neutral	2.5 KV
14. (a) Winding connection	HV Delta LV Star
(b) Connection symbol	Dyn II
(c) Neutural	Neutral of LV to be brought out in separate insulated terminal
15. Lighting Impulse Voltage test	Required as per IS: 2026
16. Temperature rise above ambient(50 Deg)	
(a) Top Oil	50 Deg C
(b) Windings	55 Deg C
17. Altitude above MSL	Suitable for altitude above 1700MCE to be designed Accordingly