

GUARANTEED TECHNICAL PARTICULARS FOR 220 kV CURRENT TRANSFORMER
Ratio:800-1600/1-1-1-1A

1.	Type of tank/Installation	LIVE type/ outdoor installation
2.	Type of mounting	Pedestal
3.	Manufacturer's name and address and country of manufacture	
4.	Conforming to standard	IS: 2705:1992
5	Type of voltage transformers	
5. a)	i) Primary and Secondary winding made out of ii) Primary windings – Design density	Primary – Copper , Nos of turns 1 and Cross section area 970 sqmm Secondary – Copper , Nos of Turns 800+1600 of 1 sq mm 1.65 Amp/sq. mm
6.	Rated primary voltage (kV rms)	220
7.	Rated highest voltage (kV rms)	245
8.	Rated frequency (Hz)	50
9.	Rated primary current (A)	800-1600
10.	Rated secondary current (A)	1-1-1-1-1
11.	Ratio taps (on secondary side only)	Secondary side
12.	Type of insulation	Class 'A' in Oil
13.	Tank material and tank coating	Mild steel / Hot dip galvanized
14.	Porcelain housing	Porcelain housing as per IS 5621
15.	Sealing	Nitrogen gas cushion
16.	Instrument security factor	Less than 5
17.	Whether test tap provided	Yes
18.	Acceptable limit of temperature	As per IS: 2705
19.	Acceptable partial discharge level at 1.1 times the rated voltage	< 10 PC @ Um < 5 PC @ 1.2 Um / $\sqrt{3}$
20.	Rated short time withstand current for 3 Sec duration (kA rms)	40
21.	Rated dynamic withstand current (kAP)	100
22.	Rated continuous thermal current (pu) where pu = rated current	120% of rated current
23.	1.2/50 micro second impulse withstand voltage (kVP)	1050
24.	One minute power frequency withstand voltage (kV rms) of primary winding(Dry)	460
25.	One minute power frequency withstand voltage of secondary winding (kV rms)	3
26.	a) Minimum total creepage distance of insulator bushing (mm) b) Protected creepage of distance of bushing	6125 Not applicable

	(mm)				
27	Details of Cores Core No.	I & II	III	IV&V	
a	Current Ratios A/A	800-1600/1A	800-1600/1A	800-1600/1A	
b	Output burden (VA)	--	20	--	
c	Class of Accuracy	PS	0.2	PS	
d	Accuracy limit factor	-	<5	-	
e	Min. knee point voltage (kpv)	800-1600V	-	800-1600V	
f	Secondary resistance corrected to 75°C	4/8Ω	-	4/8Ω	
g	Max exciting current at 25% of Knee point voltage	50/25mA	Not Applicable	50/25mA	
28.	Weight of oil (kg)	250 Litres approx.			
29.	Total weight (kg)	1000 kgs approx.			
30.	Mounting details	475x475x20Φ mm			
31.	Overall dimensions	AS PER DRAWING ENCLOSED			
32	Tan delta Value (As per clause 5.12.4 of IEC-60044-1	< 5 x 10 ⁻³ @ Measuring Voltage 10 kV to Um √3			
33	Secondary Terminal Box	IP:55 Porcelain Class			