

**GUARANTEED TECHNICAL PARTICULARS FOR 33 kV CURRENT TRANSFORMER**  
**Ratio: 600-1200-1-1-1-1A**

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 , 1 Turn of 730 sqmm Secondary – Copper , 0.8 Sqmm and Nods of turns as 600+600 1.65 A/Sq mm
6.	Rated primary voltage (kV rms)	33
7.	Rated highest voltage (kV rms)	36
8.	Rated frequency (Hz)	50
9.	Rated primary current (A)	600-1200
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	N.A
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	Not applicable
20.	Rated short time withstand current for 3 sec. duration (kA rms)	25
21.	Rated dynamic withstand current (kAP)	62.5
22.	Rated continuous thermal current (pu) where pu = rated current	120% of rated current
23.	1.2/50 micro second impulse withstand voltage (kVP)	170
24.	One minute power frequency withstand voltage (kV rms) of primary winding(Dry)	70
25.	One minute power frequency withstand voltage of secondary winding (kV rms)	5
26.	a) Minimum total creepage distance of insulator bushing (mm)	900
	b) Protected creepage of distance of bushing (mm)	Not applicable

27	Details of Cores No.	Core	I	II	III & IV	V
a	Current Ratios A/A		600-1200/1	600-1200/1	600-1200/1	600-1200/1
b	Output burden (VA)		--	30	--	--
c	Class of Accuracy		PS	0.2	PS	PS
d	Accuracy limit factor		-	-	-	-
e	Min. knee point voltage (kpv)		600/1200 V	-	600/1200 V	600/1200 V
f	Secondary resistance corrected to 75°C		9/18 Ω	-	9/18 Ω	9/18 Ω
g	Max exciting current at 100% of Knee point voltage @ 1200 A		25 mA	Not Applicable	25 mA	25 mA
28.	Weight of oil (kg)	25 Litres approx.				
29.	Total weight (kg)	125 kgs approx.				
30.	Mounting details	250*300 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 <sup>-3</sup> @ Measuring Voltage 10 kV to Um √3				
33	Secondary Terminal Box	IP:55 Porcelain Class				