



GUARANTEED TECHNICAL PARTICULARS FOR CURRENT TRANSFORMERS (33kV CTs of ratio -1200-800-400/1-0.5775,1-1 A)		
	DESCRIPTION	DETAILS
1	Type of tank/ installation	Live Tank / Out door
2	Type of mounting	Pole / Structure Mounting
3	Manufacturer's Name and address and Country of Manufacture	M/s Vijai Electricals Ltd., Rudraram, Patancheru, Medak Dt.
4	Conforming standard	IS - 2705-1992.
5	a i) Primary and Secondary winding made out of (As per clause 4.12.4.13,4.14)	EC Grde Copper
	ii) Primary windings - Design density for short circuit current - Conductivity of metal used.	180 A/ sq.mm / 97 %
	b i) Area of cross section of primary winding	570 sq/mm
	ii) Area of cross section of secondary winding	20 SWG (0.66 sq.mm) & 22SWG (0.4 sq.mm)
	c Material used for providing secondary terminals	TIN PLATED BRASS
6	Rated primary voltage (kV rms)	33
7	Rated highest voltage (kV rms)	36
8	Rated frequency (Hz)	50
9	Rated primary current (A)	1200-800-400
10	Rated secondary current (A)	1-0.5775,1-1
11	Ratio taps (on secondary side only)	On Secondary Side
12	Type of insulation	Oil impregnated Paper
13	Seismic acceleration (g)	--
14	RIV at 1.1 Um/v3 (µv)	NA
15	Tank material and Tank coating (As per clause 3.1.3 & 3.1.4)	MS of min. 3mm thickness / Painted
16	Hardware exposed to atmosphere (As per clause 3.1.4)	Hot Dip Galvanized
17	Bolts, Nuts and Washers (As per clause 3.1.4)	Stainless Steel
18	Porcelain housing and it make (Single piece only as per clause 3.1.2)	Any Reputed Make
19	Sealing (Nitrogen gas cushion/Metal bellow as per clause 3.1.7)	Nitrogen Gas cushion
20	Instrument security factor (As per clause 4.10)	< 5
21	Whether test tap provided (As per clause 3.1.14)	No
22	Acceptable limit of temperature rise	< 55 deg. C
23	Acceptable partial discharge level at 1.1 times the rated voltage	NA
24	Rated short time withstand current for 1 sec. duration (kA rms)	25
25	Rated dynamic withstand current (kAp)	62.5
26	Rated continuous thermal current (pu) where pu = rated current	1.2 times rated primary current
27	impulse withstand voltage (kVp)	170
28	One minute power frequency withstand voltage (kV rms) of primary winding (Dry)	70
29	One minute power frequency withstand voltage of secondary winding (kV rms)	3

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30	a	Minimum total creepage distance of insulator bushing (mm)	900		
	b	Protected creepage of distance of bushing (mm)	---NA---		
31		Details of Cores Core No.	I	II	III
	31.1	Current Ratios A/A	1200-800-400	1200-800-400	1200-800-400
	31.2	Output burden (VA)	15	--	15
	31.3	Class of accuracy	5P	PS	0.2
	31.4	Accuracy limit factor	10	--	<5
	31.5	Min. knee point voltage (kpv)	--	* 40I(Rct+10) at 1200/1A	--
	31.6	Secondary resistance corrected to 75 deg.C at lowest tap	--	< 5 Ohms at 1200/1A 	--
	31.7	Max. exciting current at		--	
		20% of knee point voltage	--	<15 mA	--
		50% of knee point voltage	--	<25 mA	--
		100% of knee point voltage	--	<30 mA	--
	31.8	Application	OL PROTECTION	Differential Protection	METERING
32		Weight of oil (Kg.)	50 (Approx.)		
33		Total Weight (Kg.)	90 (Approx.)		
34		Mounting details	Refer Enclosed Drg. No: 3-302-00-127 / R01		
35		Overall dimensions			
36		Characteristics (whether graphs enclosed):			
	a	Ratio and phase angle curves	--		
	b	Magnetisation curves			
	c	Ratio correction factor curves			
37		Core			
	a	Area of cross section	1140 Sq.mm	2438 Sq.mm	1950 Sq.mm
	b	Flux density at rated primary current and rated burden.	1.7 Tesla	1.45 Tesla	1.2 Tesla

* Knee point voltage shall be calculated on the basis of measured secondary winding resistance at mentioned tap.

Rev: 01: Chnages have been made as per the customer comments and the changes are marked thus 

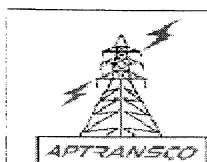
38. The type test should have been conducted not earlier than 5 years in the standard third party laboratory. The manufacturer shall produce the type test reports at the time of acceptance tests.

K. Vedaani

39. Quality of material & applicable standard. The manufacturer shall produce the valid BIS certification at the time of acceptance tests.

APPROVED FOR TURNKEY / PROJECTS

CHIEF ENGINEER CONSTRUCTION-1
APTRANSCO/VIDYUTH SOUDHA/HYD



Standardised Guaranteed Technical Particulars for 33 KV
Current Transformer of Ratio 1200-800-400/1-0.5775,
1-1A, (M/s Vijai Electricals make)
STD/GTP-DWG/Approval No. 204-21 Revision No. 0