

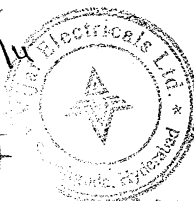
GUARANTEED TECHNICAL PARTICULARS FOR CURRENT TRANSFORMERS
(33kV CTs of ratio : 400-200/1-1A)

	DESCRIPTION	DETAILS
	Type of tank/Installation	Live Tank / Out door
	Type of mounting	Pole / Structure Mounting
	Manufacturer's Name and address and Country of Manufacture	M/s Vijai Electricals Ltd., Rudraram, Patancheru, Medak Dt.
	Conforming to standard	IS - 2705-1992.
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	190 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)	400-200
10	Rated secondary current (A)	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 (μ v)	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

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
	31.1	Current Ratios A/A	400-200	400-200
	31.2	Output burden (VA)	15 /	15 /
	31.3	Class of accuracy	5P	0.2
	31.4	Accuracy limit factor	10 /	-- /
	31.5	Min. knee point voltage (kpv)	--	--
	31.6	Secondary resistance corrected to 75 deg.C at lowest tap	--	--
	31.7	Max. exciting current at		--
		20% of knee point voltage	--	--
		50% of knee point voltage	--	--
		100% of knee point voltage	--	--
	31.8	Application	OL PROTECTION	Metering
32		Weight of oil (Kg.)	36 (Approx.)	
33		Total Weight (Kg.)	90 (Approx.)	
34		Mounting details	Refer Enclosed Drg. No: 3-302-00-126/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	813 Sq.mm	975 Sq.mm
	b	Flux density at rated primary current and rated burden.	1.7 Tesla	1.2 Tesla

38. The type tests should have been conducted not earlier than 5 years in the standard third Party laboratory. The manufacturer shall produce the type test report at the time of acceptance tests. Page 02 of 02

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



Signature: 20/06/11

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Signature: ADE-1/0N

Signature: ADE-2/0N

Signature: DE/0N

APPROVED FOR TURNKEY PROJECTS

Signature: 28/10/2011
CHIEF ENGINEER / CONSTRUCTION-1
APTRANSCO/VIDYUTH SOUDHA/HYD

	Standardised Guaranteed Technical Particulars for 33 KV	
	Current Transformer of Ratio 400-200/1-1A,	
	(M/s Vijai Electricals make)	
	STD/GTP-DWG/Approval No. 204-19	Revision No. 0