



SCHEDULE OF TECHNICAL & GUARANTEED PARTICULARS FOR 245kV PT's

1. Type: - Oil filled, Outdoor, Hermetically sealed, single phase IVT.
2. Manufacturer's type/designation: - VEOT: 245/1050/50.
3. Mounting of tank (Bottom): - Dead tank.
4. Conforming to standard: - IS: 3156.
5. System rated voltage / highest voltage(kV): - 220 kV/ $\sqrt{3}$ / 245/ $\sqrt{3}$
6. Rated primary voltage (kV): - 220 kV/ $\sqrt{3}$.
7. Secondary voltage details

a. No. of secondary windings	Winding-I	Winding-II
b. Rated secondary voltage (VA)	110 V/ $\sqrt{3}$	110-110V/ $\sqrt{3}$
c. Rated burden (VA)	200VA	100VA
d. Class of accuracy	0.2	3P

8. Temperature rise at 1.1 times rated voltage with rated burden (deg C):-Less than 50 degC.
9. Rated voltage factor and time: - 1.2 for continuous & 1.5 for 30 Sec.
10. Temperature rise for item-10 above (deg C): - Not Applicable.
11. Impulse withstand test voltage (kV) peak: - 1050kVp.
12. One minute power frequency withstands test voltage on primary (kV rms): - 460kV rms.
13. One minute power frequency withstands test voltage on secondary (kV rms): - 3kV rms.
14. Porcelain bushing (make): - IEC/Modern/WSI.
15. Total creepage distance of the bushing (mm): - 6125mm.
16. Protected creepage distance of the bushings (mm): - Not Applicable.
17. Quantity of insulating oil (litres): - 145 liters (+/- 10%)
18. Weight of OIL (Kg): - 125 kg $\pm$ 10%.
19. Total weight including OIL (Kg): - 850 kg $\pm$ 10%.
20. Mounting details: - Kindly refer our tender purpose GA drawings.
21. Live part to ground clearance: -3820mm.
22. Whether V.T. is sealed construction with nitrogen at top: - Our VT is hermetically sealed with stainless steels below at the top, hence nitrogen is not provided.

23. Overall dimensions:

Height	mm	:	3920mm.
Length	mm	:	700 mm.
Breadth	mm	:	700 mm.

APPROVED FOR TURNKEY PROJECTS

CHIEF ENGINEER / CONSTRUCTION-I
APTRANSCO/VIDYUTH SOUDHA/HYD.

Standardised Guaranteed Technical Particulars for 245KV Inductive Voltage Transformer (Crompton Greaves Ltd)	STD/GTP-DWG/Approval No. 209-10 Revision No. 0
	Prepared & Approved during October - 2011
	

24. Grade of oil: - IS: 335.

25. Voltage transformers shall carry 25% above the rated burden continuously without injury in respect of voltage transformers: - Not applicable for VT.

26. The type tests should have been conducted not earlier than 5 years in the standard third party laboratory. The manufacturer shall produce the type tests reports at the time of acceptance tests.
27. Quality of material held applicable standard - B.I.S. The manufacturer shall produce the valid BIS certification at the time of acceptance tests.

USED ON.

DRG. NO. 3-VAD 3282

IF IN DOUBT ASK

LIST OF STANDARD DRGS./DOCUMENTS APPLICABLE FOR 245 KV IVT.

SR. NO.	DESCRIPTION	DRG./DOC.NO.
01	GENERAL ARRANGEMENT	3-VAD 3283/R0
02	RATING/SCHEMATIC PLATE	3-VAD 3284/R0
03	SECONDARY TERMINAL BOX G.A.	3-VAD 3285/R0

LIST OF VARIABLE DRGS. APPLICABLE FOR 245 KV IVT.

SR. NO.	DESCRIPTION	DRAWING NO.
01	COVER SHEET	AS APPLICABLE
02	RATING/SCHEMATIC PLATE	AS APPLICABLE

S.O. NO. :
QUANTITY :
SR. NO. : AS APPLICABLE

A: PROVED FOR TURNKEY PROJECTS

CHIEF ENGINEER / CONSTRUCTION-1
A:TRANSCO/INDYU/4 SOUTH A/HVD.

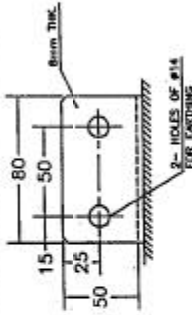
	Standardised Guaranteed Technical Particulars for 245KV Inductive Voltage Transformer (Crompton Greaves Ltd)	
	STD/GTP-DWG/Approval No. 209-11-sheet1 Revision No. 0	
	Prepared & Approved during October - 2011	
Customer ref : APTRANSCO		
Title: List of standard drawings/documents applicable for 245KV IVT		

	DRN	07.08.11	PROJECT : AS APPLICABLE		
	CHD	07.08.11		LOA NO. : AS APPLICABLE	
	APPD	07.08.11		CONTRACTOR : AS APPLICABLE	
	SIGN.	DATE		TITLE : LIST OF STANDARD DRGS./DOCUMENTS APPLICABLE FOR 245KV IVT	
NO.	REVISION	SCALE : N.T.S.	SHEET NO.	TOTAL SHEETS	REV
			1/4	4	00

DRG.NO: 3-VAD3283

[illegible]

DETAIL 'A'
S.S. EARTHING PAD (DIAGONALLY OPPOSITE)



CHIEF ENGINEER / CONSTRUCTION-1
A*TRANSCO/VIDYUTH SOUDHA/HYD.

TOTAL WT.	= 850 $\pm$ 10% Kg
OIL WT.	= 125 $\pm$ 10% Kg
TOTAL CREEPAGE DISTANCE(MM) = 6125 mm	

**TITLE: GENERAL ARRANGEMENT
OF 245 KV IVT
STANDARD DRAWING**



Crompton Greaves Ltd.
S1 - DIVISION
AMBAD, MASHIK

THIRD ANGLE PROJECTION	STANDARD DRAWING
SCALE: NTS	NAME
ALL DIMS. IN MM. UNLESS OTHERWISE SPECIFIED.	ORIG
	CHD
	APPO
	REV
	0
	DRG. NO: 3-VAD3283
	DATE : 07.09.2011
	 Crompton Greaves Ltd. S1 - DIVISION ANAND, NASHIK

A3 297 + 420

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IF IN DOUBT, ASK

DRG.NO: 3-VAD3284

A3 297 * 420

GEN. TOL.		MATERIAL SPEC.		TITLE: RATING SCHEMATIC PLATE OF 245 KV IVT STANDARD DRAWING	
THIRD ANGLE PROJECTION		SCALE: NTS		Crompton Greaves Ltd.	
ALL DIMS. IN MM. UNLESS OTHERWISE SPECIFIED.		SCALE: NTS		ST - DIVISION AMBAD, NASHIK	
NO		REVISION		DATE: 07.08.2011	
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IF IN DOUBT, ASK

DRG.NO : 3-VAD3285

A3 297 • 420

APPROVED FOR TURNKEY PROJECTS

[Signature]
CHIEF ENGINEER / CONSTRUCTION -
APTRANSCO/VIDYUTH SODHA/HYD.

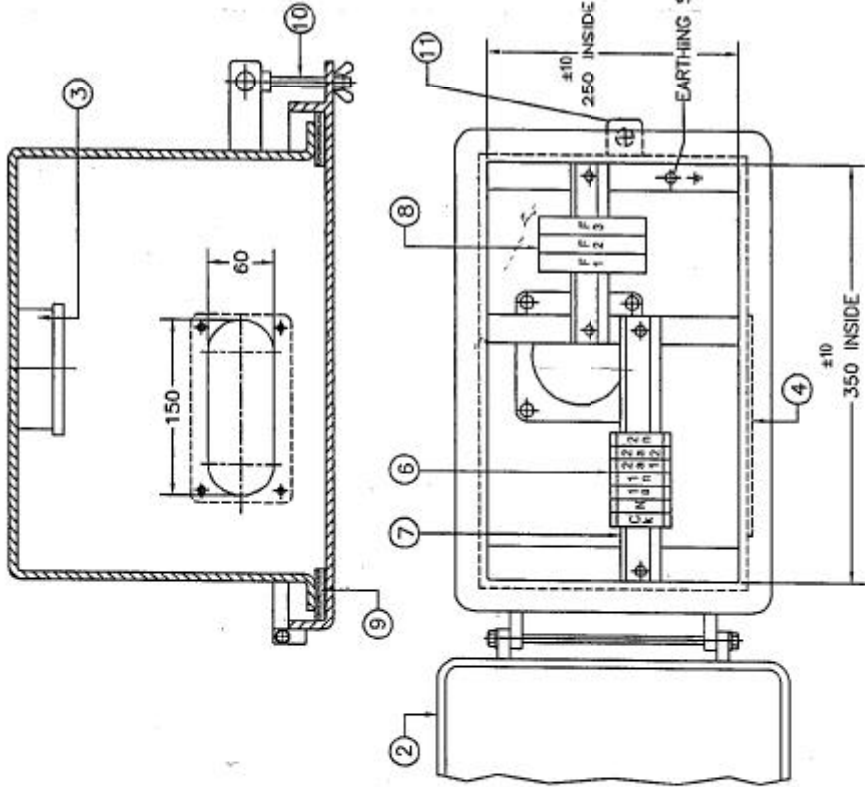
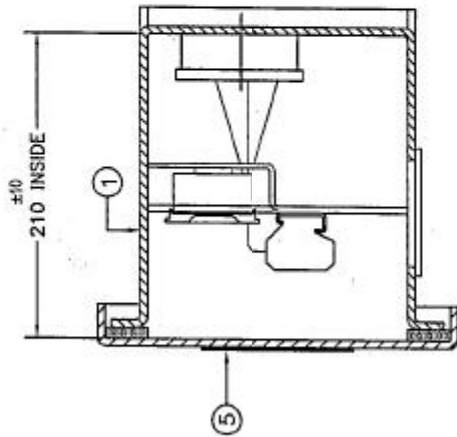
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GEN. TOL.	MAT. SPEC.	THIRD ANGLE PROJECTION	SCALE: NTS	ALL DIMS. IN MM. UNLESS OTHERWISE SPECIFIED.	NAME	INITIALS	DATE : 07.09.2011
					NSB		
					SFC		
					SCM		

TITLE : SECONDARY BOX G.A. OF 245 KV IVT
STANDARD DRAWING

Crompton Greaves Ltd.
S1 - DIVISION
AMEAD, NASHIK

DRG.NO : 3-VAD3285



ITEM NO.	QTY.	DESCRIPTION	MATERIAL / RATING
1	1	SECONDARY TERMINAL BOX	M.S. HDG
2	1	SECONDARY TERMINAL BOX COVER	M.S. HDG
3	1	MONOBLOCK	EPOXY
4	1	REMOVABLE GLAND PLATE	M.S. HDG
5	1	RATINGS/SCHEMATIC PLATE	ALUMINIUM
6	7	STUD TYPE SECONDARY TERMINAL	ELMEX OR EQUIV. MAKE
7	1	TERMINAL MOUNTING BRACKET	M.S. POWDER COATED
8	3	HRC FUSE	RATING F1: 6 A RATING F2: F3: 4 A
9	1	DOOR GASKET	NEOPRENE
10	2	HINGE ARRANGEMENT	S.S. BRASS
11	1	PAD LOCK ARRANGEMENT	M.S. HDG

Standardised Guaranteed Technical Particulars for 245KV Inductive Voltage Transformer (Crompton Greaves Ltd)
STD/GTP-DWG/Approval No. 209-II-sheet4 Revision No. 0
Prepared & Approved during October - 2011
Customer ref : APTRANSCO
Title: Secondary Box G.A. of 245KV IVT