

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

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TEST WITNESS REPORT

SHEET 01 OF 03

NAME & ADDRESS OF CUSTOMER: M/s. CG Power & Industrial Solutions Ltd. (Formerly Crompton Greaves Limited) Vacuum Interrupters & Instrument Transformers Division: Power Systems D-2, MIDC, Waluj Aurangabad 431 136 Maharashtra, India	REPORT NO.: RP-1819-034146 DATE : 03/12/2018 CUSTOMER REF. No. & DATED: 1] E-mail dt. 20/11/2018 2] E-mail dt. 31/10/2018 DATE OF WITNESS : 29/11/2018 & 30/11/2018
SAMPLE DESCRIPTION: 145 kV Current Transformer [01 No.] Type: CGC-CI 145 H.S.V.: 145 kV; Rated Current: 1000 A Load class: I Sr. No.: 181154	SAMPLE IDENTIFICATION: Sr. No.: 181154 Embossed on the sample: On Top Flange: "1HQ26142" On Bottom Flange: "1HQ26117" Drawing No.: 1] 411931658 CT1 GA/R2, 30.07.18 2] 411931658 CT1 RS/R1, 27.07.18 ERDA Sample Code No.: WO-1819-013014/01
TEST DETAILS: Mechanical test	TEST SPECIFICATION: For Test Procedure & Requirement: 1] IEC 61869 -1 : 2007 2] IEC 61869 -2 : 2012 3] As per customer's requirement
TEST WITNESSED BY: Mr. Nilesh Thakor, Deputy Engineer, ERDA, Vadodara; Mr. Ravindra Patil, Tata Power & Mr. Santosh Joshi, Executive Design, M/s. CG Power & Industrial Solutions Ltd., Aurangabad	
ENCLOSURE: Reference Drawing Nos.: 1] 411931658 CT1 GA/R2, 30.07.18 & 2] 411931658 CT1 RS/R1, 27.07.18	
REMARKS: 1] Sample conforms to the requirement of above-mentioned test. 2] Testing was carried out at customer's site (i.e. M/s. CG Power & Industrial Solutions Ltd., Nashik) by using customer's calibrated instruments. 3] Photographs of sample have been attached [Refer SHEET 03 OF 03]	
 PREPARED BY	 CHECKED BY
	 (Dr. U.N. Puntambekar) APPROVED BY

- Note:** 1. This report relates only to the particular sample(s) received for witness testing in good condition at M/s. CG Power & Industrial Solutions Ltd., Nashik.
2. This report cannot be reproduced in part under any circumstances.
3. Publication of this report requires prior permission in writing from Director, ERDA.
4. Only the tests asked for by the customer have been witnessed.
5. In case of any dispute, Vadodara will be the exclusive jurisdiction & shall be construed as where the cause has raised.

Caution: ERDA is not responsible for the authenticity of photocopied or reproduced test witness reports. ERDA provides support to customers for verification of the authenticity of test witness reports issued by ERDA.

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REPORT NO.: RP-1819-034146

SHEET 02 OF 03

DATE : 03/12/2018

Sr. No.	Particular of Tests & Cl. No.	Requirement as per Specification	Obtained Value/ Observation	Remark
1.	Mechanical test [Cl. No. 7.4.5, Table 12 of IEC 61869-1, Table 10 of IEC 61869-2 & as per customer's req.] Static load of 2000 N shall be applied on primary terminal for 60 seconds in 3 directions namely: Terminal (P1) 1] Horizontal direction (H1) (Along the Primary Terminal axis) 2] Horizontal direction (H2) (Perpendicular to the Primary Terminal axis) 3] Vertical direction (V) (Perpendicular to the Primary Terminal) Terminal (P2) 1] Horizontal direction (H1) (Along the Primary Terminal axis) 2] Horizontal direction (H2) (Perpendicular to the Primary Terminal axis) 3] Vertical direction (V) (Perpendicular to the Primary Terminal)	The sample shall show no evidence of damage (i.e. deformation, rupture or leakage) at the end of the test.	In all three directions of loading, no evidence of damage (i.e. deformation, rupture or leakage) was observed. The residual deflection was measured after releasing the load. 1 mm in H1 direction 1 mm in H2 direction 1 mm in V direction 3 mm in H1 direction 0 mm in H2 direction 2 mm in V direction	Conforms


PREPARED BY


CHECKED BY



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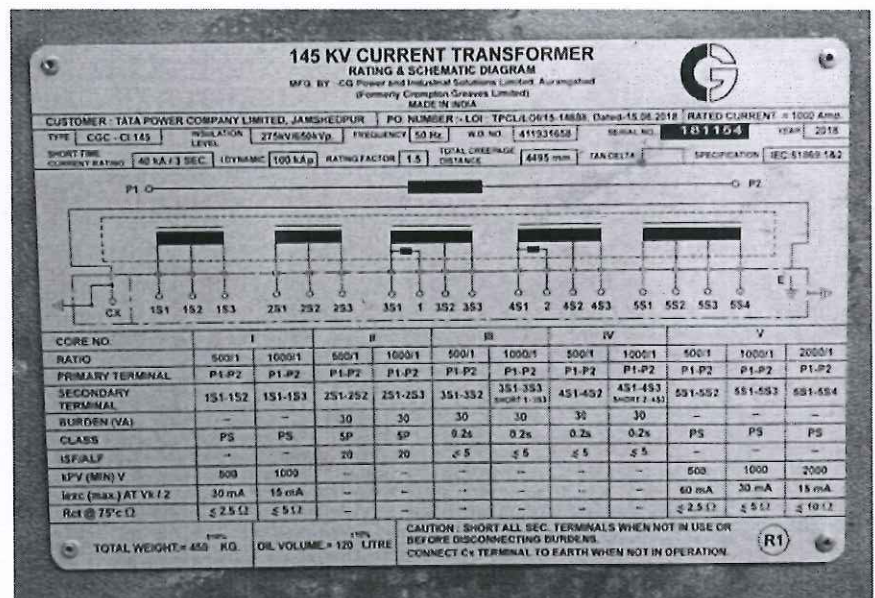
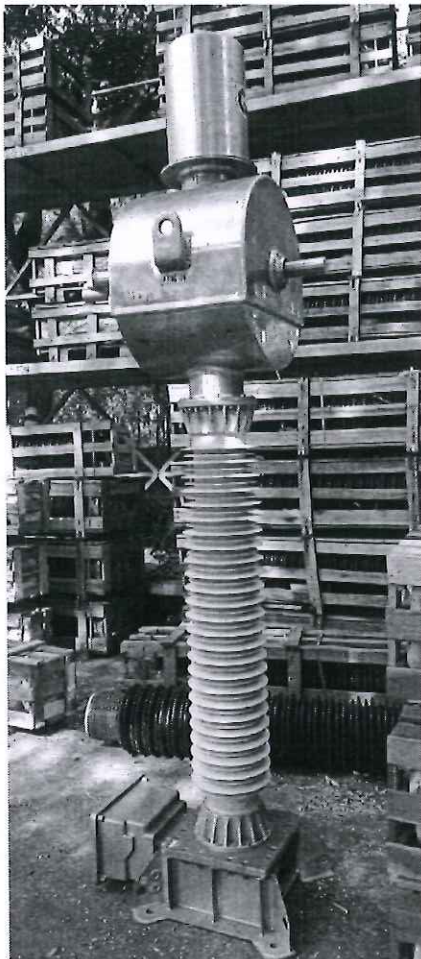
Web : http://www.erda.org



REPORT NO.: RP-1819-034146

SHEET 03 OF 03

DATE : 03/12/2018



Photographs of sample

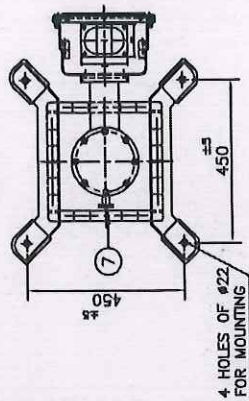
PREPARED BY

CHECKED BY

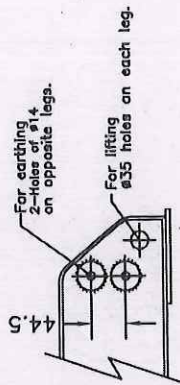


2262402

IF IN DOUBT ASK



VIEW FROM 'A'
MOUNTING DETAILS



EARTHING & LIFTING DETAILS

Test Report No. RP-1819-034146

Date: 03/12/2018

Product

Verified by

The drawing has been used for reference only.

NOTE : PLEASE REFER INSTRUCTION MANUAL FOR HANDLING & TRANSPORTATION OF CT.

R6				R4				R2	CUST.COMMENTS ADDED	STJ	30.07.18	SIGN	NAME	CERIAL APPOINTMENT DATING AT 16 IN ORDER PURCHASES	
R5								R1	CUST.COMMENTS ADDED	PSC	17.07.18	ORN	STJ		
												CHD	SOS		
												APPD	YPS	TYPE:CGC-CL 145	
Nº									SIGNDATE NO	REVISION	SIGN DATE SCALE	N.T.S.	(DATE : 30.06.2018)	ALL DIMENSIONS ARE IN mm	
									SIGNDATE NO	REVISION	SIGN DATE SCALE	N.T.S.	(DATE : 30.06.2018)	ALL DIMENSIONS ARE IN mm	

CC Papers And Supplies Ltd. Sales Office - Bangalore
Female Canadian Graves Limited

DRG.NO: 411931658 CTI GA/RZ



CG Power and Industrial Solutions Limited, Aurangabad
(Formerly: Centrotech Gases Limited)

IF IN DOUBT ASK

270
256

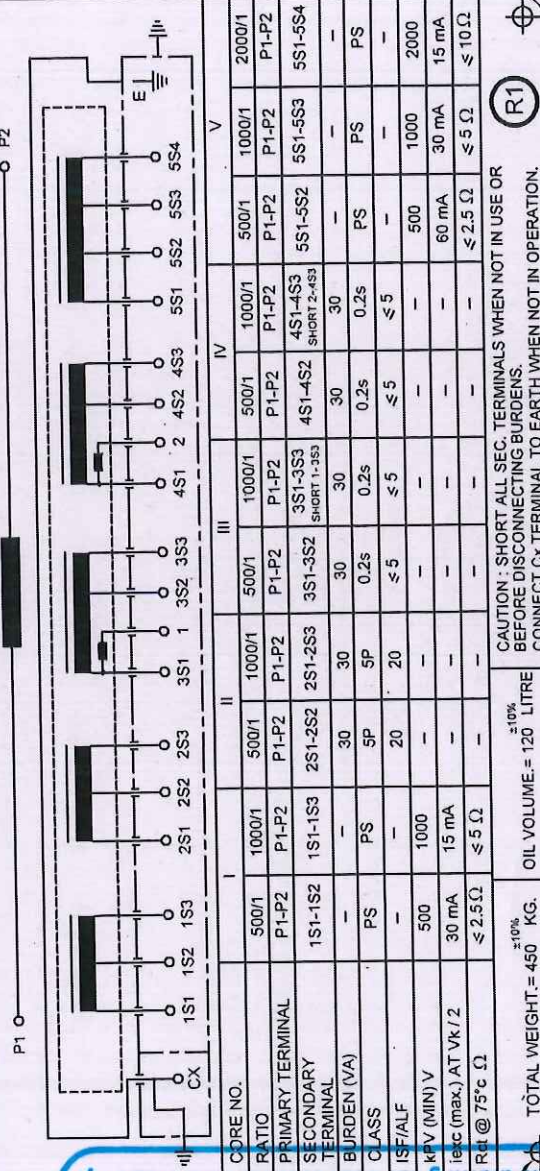
145 KV CURRENT TRANSFORMER

RATING & SCHEMATIC DIAGRAM

MFG. BY : CG Power and Industrial Solutions Limited, Aurangabad
(Formerly Crompton Greaves Limited)
MADE IN INDIA



CUSTOMER : TATA POWER COMPANY LIMITED, JAMSHEDPUR		PO. NUMBER : LOI : TPCL/LOI/15-14868, Dated: 15.05.2018		RATED CURRENT = 1000 Amp.	
TYPE : CGC-CT 145	INSULATION LEVEL : 275KV/650KVp.	FREQUENCY : 50 HZ	W.O. NO. : 411931658	SERIAL NO. :	YEAR : 2018
SHORT TIME CURRENT RATING : 40 KA / 3 SEC.	DYNAMIC : 100 kAp	RATING FACTOR : 1.5	TOTAL CREEPAGE : 4495 mm.	TAN DELTA :	SPECIFICATION : IEC-61869-1:2012



Test Report No. RP-189-03446
Date 03/12/2018
Product 145 KV Current Transformer [1 No.]
Verified by [Signature]

MATERIAL & PROCESS : ALUMINIUM ANODISED
THICKNESS : 1.0mm
COLOUR : BACKGROUND NATURAL ALUMINIUM & LETTER: BLACK

CT SR.NO's : 181154 TO 181164

RATING & SCHEMATIC DIAGRAM		SIGN		NAME		TYPE : CGC-CT 145		DATE : 30.06.2018		ALL DIMENSIONS ARE IN mm		DRG.NO: 411931658		CT1 RS/R1	
R6		R4		R2		DRN	STJ	CHD	YPS	APPD	SCALE 1:1	27.07.18	SDS	YPS	RS/R1
R5		R3		R1		CUSTOMER COMMENTS	ADDED.	REVISION	SIGNATURE	NO	NO	NO	NO	NO	NO
NO		NO		NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO



CG Power and Industrial Solutions Limited, Aurangabad