

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

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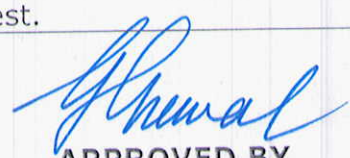
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TEST REPORT

SHEET 01 OF 02

NAME & ADDRESS OF CUSTOMER: M/s. Diamond Power Transformers Ltd., 101/B/7, Road No.2, GIDC Estate, Road No.2, Village Ranoli-391350	REPORT NO: MNDTTR0087221	
	DATE: 10/03/2011	
	CUSTOMER REF. NO. & DATE: DPTL/RNL/ERDA/300, Dated:19/02/2011	
SAMPLE DESCRIPTION: Distribution Transformer [1 No] Details as mentioned in the customer's letter. CRGO Core Copper Wound Distribution Transformer Rating: 200 kVA , Voltage: 33/0.433 kV, Tapping 10% to -5%@2.5% by switch, No Load Loss: 500 W Max, Full Load Loss: 3000 W Max, % Impedance: 4.50 % (IS Tol.), Phase: 3 Ph., Vector Group: Dyn 11, Temperature Rise (oil/wdg.) ^o C: 40/50 Sr. No.: DPTL-ERA-200-8121,	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	19/02/2011	08/03/2011
SAMPLE IDENTIFICATION: Transformer Serial No: DPTL-ERA-200-8121 ERDA Sample Code No.: HIMP-1489		
TEST DETAILS: Audible Sound Level Measurement	TEST SPECIFICATION: 1] For requirement: NEMA Pub.No.TR-1: 1980 2] For procedure: IEC 551:1987 3] As per Customer's Requirement	
REMARKS: 1] Corrected average audible sound level of the sample was 49.0 dB (A). 2] The sample conforms to the requirement of the above mentioned test.		
 PREPARED BY	 CHECKED BY	 APPROVED BY
NOTE: 1] This report relates only to the particular sample(s) received for testing in good condition at ERDA. 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 carried out.		

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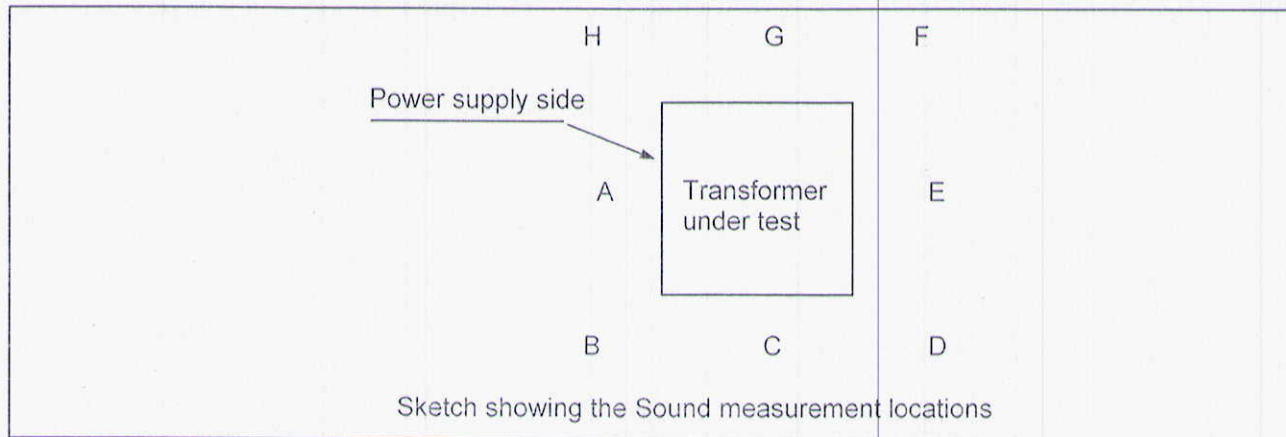
SHEET 02 OF 02

Transformer under test	Distribution Transformer Rating: 200 kVA , Voltage: 33/0.433 kV, Sr. No.: DPTL-ERA-200-8121
Particulars of Test	Audible Sound Level Measurement
Test Details	Distance of measurement from test equipment: 0.3 m, Measurement was made at half the height of the transformer
Requirement	Permissible Average Audible Sound Level:55 dB (A) [Maximum] as per table 0-2 of NEMA Pub. No. TR-1: 1980

Test Result:

Sr. No.	Measurement Locations (Refer Sketch Below)	Ambient audible sound level before measurement of audible sound level of Transformer	Audible sound level from ambient and "Transformer at rated voltage & no load condition"	Ambient audible sound level after measurement of audible sound level of Transformer
		dB (A)	dB(A)	dB(A)
1	A	46.7	50.9	46.8
2	B	46.8	51.0	46.8
3	C	46.7	51.0	46.8
4	D	46.8	50.9	46.7
5	E	46.8	51.0	46.8
6	F	46.8	51.2	46.7
7	G	46.7	50.9	46.8
8	H	46.8	51.0	46.7

- 1) Average audible sound level of ambient: 46.8 dB (A)
- 2) Average audible sound level of combined transformer & ambient:51.0 dB (A)
- 3) Corrected average audible sound level of transformer: **49.0 dB (A)**



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PREPARED BY *P. S. S.*

CHECKED BY *[Signature]*

