

CPRI

TEST REPORT



Central Power Research Institute

(A Govt. of India Society)

P.B.No. 8066, Sadashivanagar Post Office,
Sir C.V. Raman Road,
Bengaluru - 560 080 (INDIA)

CENTRAL POWER RESEARCH INSTITUTE



CPRI

TEST REPORT

Test Report Number : CPRI BLREATD22T0108 Date: 17 March 2022

Name and Address of the Customer : M/s. CG Power and Industrial Solutions Ltd,
D2 & D1/2 MIDC WALUJ, Kamgar Chowk,
Aurangabad – 431136, Maharashtra.

Name and Address of the Manufacturer : M/s. CG Power and Industrial Solutions Ltd,
D2 & D1/2 MIDC WALUJ, Kamgar Chowk,
Aurangabad – 431136, Maharashtra.

Particulars of sample tested : Secondary Terminal Box

Type : Outdoor

Description of test sample : Refer Sheet 2 of 5

Serial Number : Nil

Number of samples tested : One

Date(s) of Test(s) : 11 March 2022 and 14 March 2022

CPRI Sample code Number(s). : SCL22S0207

Particulars of tests conducted : IP 55 Category 2 Test

Test in accordance with : IEC 60529: Edition 2.2, 2013-08

Standard/Specification

Sampling Plan : Not Applicable

Customer's Requirement : Nil

Deviations if any : Nil

Name of the witnessing persons

Customers representative : Mr. Shrikant S. Manore, Executive - Design

Other than customer's representatives : None

Test subcontracted with address of the laboratory : None

Documents constituting this report (in words)

Number of Sheets : Five

Number of Oscillogram(s) : Nil

Number of Graph(s) : Nil

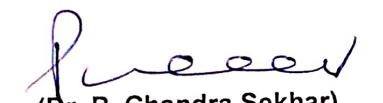
Number of Photograph(s) : Six

Number of Test Circuit Diagram(s) : Nil

Number of Drawing(s) : One


(D. Venkatesh)
Test Engineer




(Dr. P. Chandra Sekhar)
Head of Division
Reviewed and Authorized by

CENTRAL POWER RESEARCH INSTITUTE



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Date: 17 March 2022


DESCRIPTION OF THE SAMPLE TESTED (As assigned by the manufacturer)

Sample

: Secondary Terminal Box

Rated Voltage

: Not Applicable, being used for Current Transformer


(D. Venkatesh)
Test Engineer

CENTRAL POWER RESEARCH INSTITUTE



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SUMMARY OF TESTS CONDUCTED

1. Tests conducted : IP 55 Category 2 Test
2. Rating for which tested : Not Applicable, being used for Current Transformer
3. Schedule of tests

Tests Conducted	Clause Numbers	Sheet
IP 5X	13.4	4 of 5
IP X5	14.2.5, 14.3	4 of 5
Insulation Resistance Test	-	4 of 5
Power Frequency Voltage Withstand Test	-	4 of 5

4. Oscillogram Numbers : Nil
5. Graph Numbers : Nil
6. Photograph Numbers : CPRI/BLREATD22T0108P01, CPRI/BLREATD22T0108P02, CPRI/BLREATD22T0108P03, CPRI/BLREATD22T0108P04, CPRI/BLREATD22T0108P05, CPRI/BLREATD22T0108P06.
7. Test Circuit Diagram Numbers. : Nil
8. Drawing Numbers

The manufacturer has guaranteed that the sample submitted for the test(s) has been manufactured in accordance with the following drawing

Sl. No.	Drawing Number	Sheet Number	Revision Number	Date
1	SX7935 CT1 SB/R2	-	R2	03.09.2021

It is verified that these drawings adequately represent the sample tested. Verification of this drawing by CPRI is limited to dimensional check only wherever possible.


(D. Venkatesh)
Test Engineer

CENTRAL POWER RESEARCH INSTITUTE



TEST REPORT

Test Report Number

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Date: 17 March 2022

TEST RESULTS

Condition of Sample on the Receipt : Good, as after IK test
Serial Number of sample tested : Nil

Sl. No.	PARTICULARS		OBSERVATIONS	
	TESTS CONDUCTED	REFERENCE CLAUSE		
1.0	IP 5X Category 2 Test, as per IEC 60529: Edition 2.2, 2013-08 Standard.	Clause No. 13.4 Protection against Ingress of solid foreign objects – Dust Protection Test.	No entry of dust observed inside the "Secondary Terminal Box" Enclosure.	
2.0	IP X5 Test as per IEC 60529: Edition 2.2, 2013-08 Standard.	Clause No. 14.2.5, 14.3 Protection against harmful ingress of water – Hose jet of water using nozzle of dia. 6.30 mm, water flow rate 12.5 l/min \pm 5% and 3m distance.	No entry of water observed inside the "Secondary Terminal Box" Enclosure.	
3.0	Electrical Tests Conducted		After IP 5X Test / Before IP X5 Test	After IP X5 Test
3.1	Insulation Resistance test at 500V DC is applied for one minute between the connected terminals and body of the "Secondary Terminal Box" Enclosure		>1 G Ω	>1 G Ω
3.2	Power Frequency Voltage withstand test at 3 kV AC is applied for one minute between the connected terminals and body of the "Secondary Terminal Box" Enclosure		Withstood	Withstood

Conclusion: The sample tested complies with the requirement of Clause (s) 13.4, 14.2.5 and 14.3 of IEC 60529: Edition 2.2, 2013-08 for the test (s) conducted.


(D. Venkatesh)
Test Engineer

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TEST REPORT

Test Report Number

: CPRI BLREATD22T0108

Date: 17 March 2022

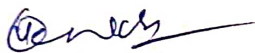
CPRI

NOTE

- The Test results relate only to the sample(s) tested.
- Publication or reproduction of this Test Report /Test Certificate in any form other than by complete set of the whole Test Report /Test Certificate and in the language written is not permitted without the written consent of CPRI.
- Any Corrections/erasure invalidates the Test Report/Test Certificate.
- NABL has Accredited this laboratory as per ISO/IEC17025:2017, vide certificate no.TC-5452 for the tests carried out.
- Any anomaly/discrepancy in the Test Report / Test Certificate should be brought to the notice of CPRI within 45 days from the date of issue embossed.



TC-5452


(D. Venkatesh)
Test Engineer

-----End of Test Report/Test Certificate-----

CENTRAL POWER RESEARCH INSTITUTE

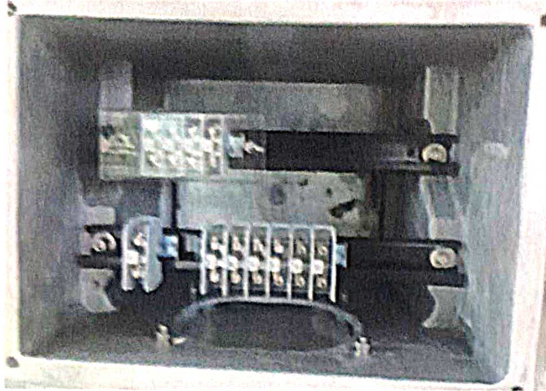
TEST REPORT

Test Report Number : CPRIBLREATD22T0108

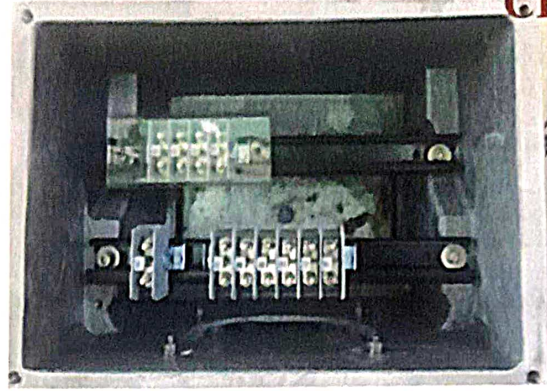
Date: 17 March 2022



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Photograph Number: CPRIBLREATD22T0108P01
During inspection after IP 5X – Dust Test



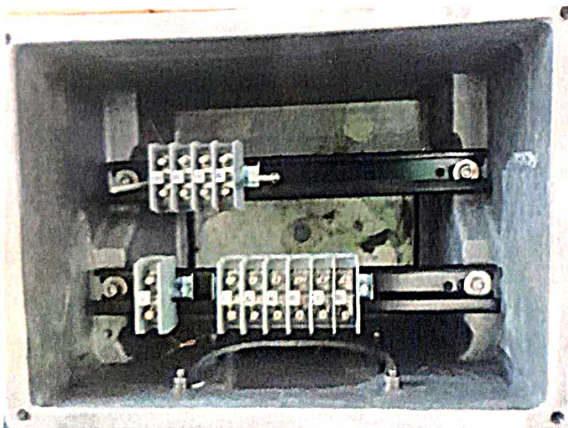
Photograph Number: CPRIBLREATD22T0108P02
During inspection after IP 5X – Dust Test



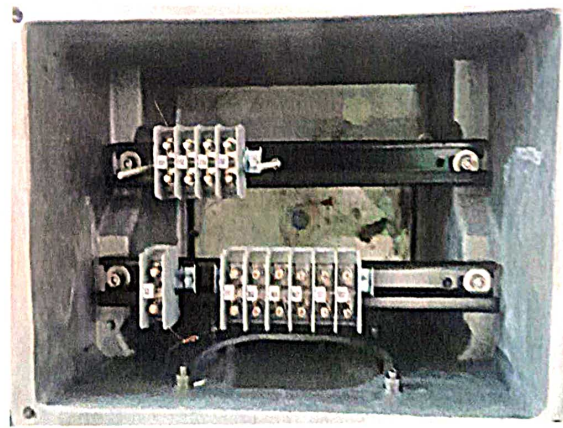
Photograph Number: CPRIBLREATD22T0108P03
During IP X5 – Water Test



Photograph Number: CPRIBLREATD22T0108P04
During IP X5 – Water Test



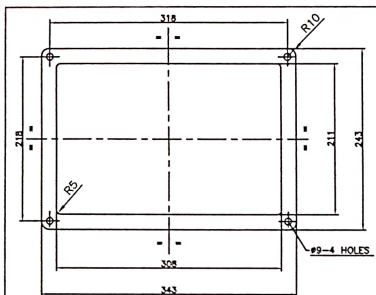
Photograph Number: CPRIBLREATD22T0108P05
During inspection after IP X5 – Water Test



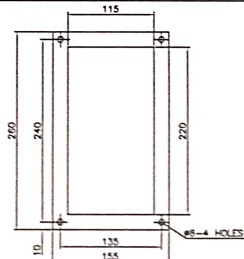
Photograph Number: CPRIBLREATD22T0108P06
During inspection after IP X5 – Water Test


(D. Venkatesh)
Test Engineer

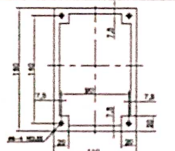
IF IN DOUBT ASK



GASKET FOR COVER
ITEM NO.5



GASKET FOR BACK SIDE
ITEM NO.6



GASKET FOR GLAND PLATE
ITEM NO.4

NOTE:-SILICONE SEALANT USED FOR STICKING OF GASKET

NOTES :

- 1) DEGREE OF PROTECTION : IP 55 Cat-2 AS PER IEC 60529:EDN.2.22013-08
- 2) MECHANICAL IMPACT TEST : IK 07 AS PER IEC:62262
- 3) TYPE : OUTDOOR
- 4) Cx:TERMINAL FOR CAPACITANCE & TAN DELTA MESUREMENT ONLY.
SHOULD BE KEPT EARTHED WHEN NOT IN USE.

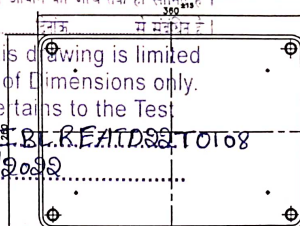
इस चित्र का सम्बन्धन केवल आचमन की जांच तक ही सीमित है।

यह चित्र पंक्तिगत रिपोर्ट संख्या..... दिनांक मे मंजूर है।

Attestation of this drawing is limited to the checking of dimensions only.

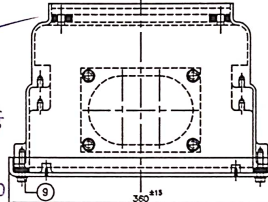
This Drawing pertains to the Test
Report No. C.P.R. 181-BL REATD 22 TOT 08

dated: 17/03/2022

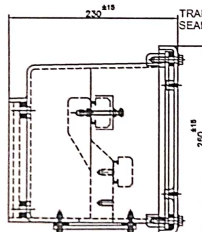


FRONT VIEW (DOOR CLOSED)

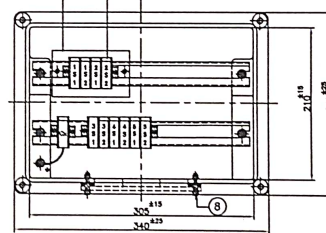
Heench
परीक्षण इंजीनियर
TEST ENGINEER
ई ए टी डी, सी पी आर आई
EATD / CPRI
बेंगलूरु - 560 080
BENGALURU - 560 080



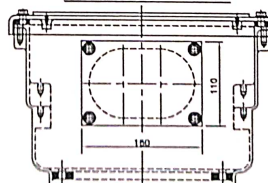
TOP VIEW



LH SIDE VIEW

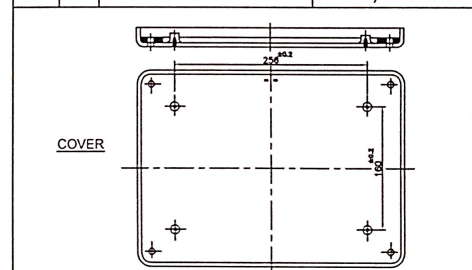
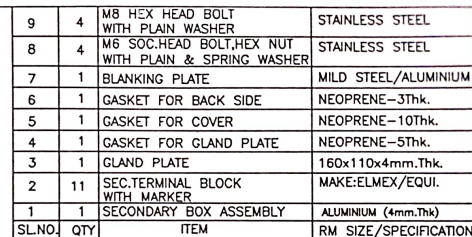


FRONT DOOR OPEN VIEW

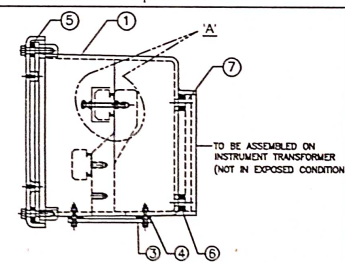


BOTTOM VIEW

TO BE ASSEMBLED ON
INSTRUMENT TRANSFORMER—
(NOT IN EXPOSED CONDITION)

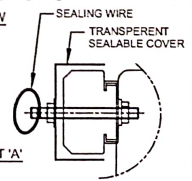


COVER



TO BE ASSEMBLED ON
INSTRUMENT TRANSFORMER
(NOT IN EXPOSED CONDITION)

RH SIDE VIEW



DETAILS AT 'A'

MANUFACTURER :- CG Power and Industrial Solutions Limited, Aurangabad
ADDRESS :- S6 Division (Instrument Transformers and Bushings)
D2 & D1/2, MIDC, Waluj, Aurangabad 431136,
State :- Maharashtra (India).

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