

Certificate No.: T-0071

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

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: +91 (0265) 2638382

E-mail: erda@erda.org

: http://www.erda.org Web



TEST REPORT

SHEET: 1 OF 13

NAME & ADDRESS OF CUSTOMER	TEST REPORT NO.: RP-16	517-060843
	DATE : 22.03	3.2017
EPOXY TERMINAL & EQUIPMENT PVT.	CUSTOMER REF. NO. :	DATE : 23.01.2017
Plot No: 6B, Phase III, IDA, Medak District. 502307.	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	19.01.2017	27.01.2017 to 18.03.2017
SAMPLE DESCRIPTION	SAMPLE IDENTIFICATION	
CURRENT TRANSFORMER	SR. NO. : ETE-02	

: EPOXY TERMINAL & EQUIPMENT MFD. BY

PVT. LTD.

: 300-600/5-5 A **RATIO**

: 15/15 VA BURDEN : 0.5/5P10 CLASS : <10/-

ISF SYSTEM VOLTAGE: 11 kV : 12/28/75 kV

ILV FREQUENCY: 50 Hz.

: 25 KA/1 Sec. S.T.C

INSULATION CLASS: E YEAR OF MFG: 2016

2) Test Circuit Diagram

: 1814/01 **ENCLOSURES:** 1) Oscillogram No.

: OLSC/IT/13

3) Photographs of Test sample: As per Annexure-I (As per sheet: 1 OF 1)

TYPE: INDOOR, RESIN CAST

ERDA SAMPLE CODE NO.:

1)ETE-CT-WP01, SHEET NO. 1 OF 2, REV.0

2)ETE-CT-WP01, SHEET NO. 2 OF 2, REV.0

TEST SPECIFICATION & TEST DETAILS

ARE AS PER SHEET NO. 2 OF 13.

ERDA-00179616

DRAWING NO.:

3)ETE-001, REV:00

TEST RESULTS: As per sheet: 3 OF 13 to 13 OF 13.

REMARK: The sample **conforms** to the requirements of the mentioned standard specification as mentioned in tests no. 1 to 14 on sheet no. 2 OF 13.

PREPARED BY

CHECKED BY

APPROVED BY

Note: 1. This report relates only to the particular sample received in good condition for testing at ERDA.

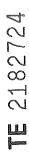
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3. Publication of this report requires prior permission in writing from Director, ERDA.

4. Only tests asked for by the customer have been carried out.

5. In case of any dispute, Vadodara will be the exclusive jurisdiction & shall be construed as where the cause has arised.

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: 22.03.2017

SHEET: 2 OF 13

TES	DETAILS & TEST SPECIFICATION:	
Sr.	TESTS	REFERENCE STANDARD
No.		
1	Verification of terminal marking and	Cl. No. 9.2 of IS 2705 (Part 1): 1992
	polarity.	
2	Lightning impulse voltage withstand	Cl. No. 9.8 of IS 2705 (Part 1): 1992
	test.	
3	Power frequency dry withstand test on	Cl. No. 9.3 of IS 2705 (Part 1): 1992
	primary winding.	
4	Power frequency dry withstand test on	Cl. No. 9.4 of IS 2705 (Part 1): 1992
	secondary winding.	
5	Over voltage inter-turn test.	Cl. No. 9.5 of IS 2705 (Part 1): 1992
6	Partial discharge test.	As per customer's requirement & test
1		procedure followed as per
		Cl. No. 9.1.2 (e) of IS 2705 (Part 1): 1992
7	Determination of errors according to	Cl. No. 7.2.1 & 7.1.1 of IS 2705 (Part 2):1992
	the requirements of the appropriate	for metering core &
	accuracy class. (Before STC test)	Cl. No. 7.2.1 & 7.1.1 of IS 2705 (Part 3):1992
	,	for protection core.
8	Composite error test. (Before STC test)	Cl. No. 7.1.2 & 7.2.2 of IS 2705 (Part 3):1992
9	Short time current test.	Cl. No. 9.6 of IS 2705 (Part 1): 1992
10	Power frequency dry withstand test on	Cl. No. 9.3 of IS 2705 (Part 1): 1992
	primary winding. (After STC test)	
11	Power frequency dry withstand test on	Cl. No. 9.4 of IS 2705 (Part 1): 1992
-	secondary winding. (After STC test)	
12	Over voltage inter-turn test.	Cl. No. 9.5 of IS 2705 (Part 1): 1992
	(After STC test)	
13	Determination of errors according to	Cl. No. 7.1.1 of IS 2705 (Part 2):1992 for
	the requirements of the appropriate	metering core &
	accuracy class. (After STC test)	Cl. No. 7.1.1 of IS 2705 (Part 3):1992 for
ļ	,	protection core.
14	Composite error test. (After STC test)	Cl. No. 7.1.2 of IS 2705 (Part 3):1992

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SHEET: 3 OF 13

TEST REPORT NO.: RP-1617-060843

: 22.03.2017

TEST RESULTS:

1. Verification of terminal marking and polarity.

(Cl. No. 9.2 of IS 2705 (Part 1): 1992)

Primary winding terminals

: P1-P2

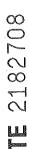
Secondary winding terminals: 1S3-1S2-1S1, 2S3-2S2-2S1

Terminal marking & polarity was found Ok.

Terminal marking was found marked clearly & indelibly.

REMARK: Conforms

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SHEET NO.: 4 OF 13

TEST REPORT NO.: RP-1617-060843

DATE : 22.03.2017

2)LIGHTNING IMPULSE VOLTAGE WITHSTAND TEST

(As per Cl. No.: 9.8 of IS: 2705 (Part-1)-1992)

Atmospheric Condition:

Dry Bulb Temperature : 27.0°C Wet Bulb Temperature : 22.0°C

Atmosheric Pressure : 756.5 mm of Hg.

Test Parameters:

Rated Voltage : 11 kV
Test Voltage : 75 kVp

No. of shots applied : 05 +ve & 05 -ve Polarity shots

No. of shots recorded : Calibration, First & Last for both Polarities

Calibration Pulse Details:

Peak Magnitude : 50.10 kVp

Wave Shape : 1.272 μs / 45.03 μs

	Applied Test \	/oltage
Sr. No.	Positive Polarity	Negative Polarity
1	75.49 kVp	-75.79 kVp
2	76.03 kVp	-75.77 kVp
3	76.34 kVp	-75.88 kVp
4	75.30 kVp	-74.73 kVp
5	75.63 kVp	-75.27 kVp

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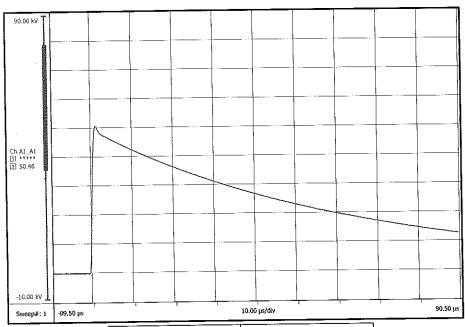
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DATE : 22.03.2017

LIGHTNING IMPULSE VOLTAGE TEST ON CURRENT TRANSFORMER

CALIBRATION PULSE



T1 1.272 μs T2 45.03 μs

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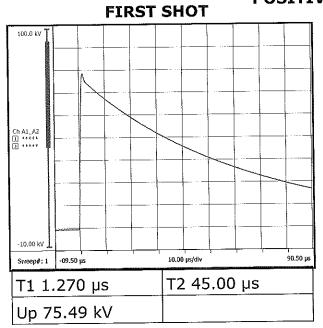
TEST REPORT NO.: RP-1617-060843

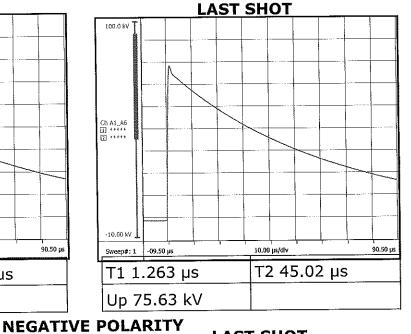
: 22.03.2017



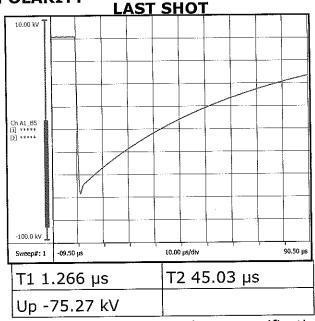
SHEET NO.: 6 OF 13

LIGHTNING IMPULSE VOLTAGE TEST ON **CURRENT TRANSFORMER POSITIVE POLARITY**





FIRST SHOT 10.00 kV . 90,50 με 10.00 µs/div Sweep#: 1 -09.50 us T2 45.04 µs T1 1.269 µs Up -75.79 kV



Remarks: The sample "CONFORMS" to the requirement of aforesaid test specification with respect to the test carried out.









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DATE

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3. Power frequency dry withstand test on primary winding. (Cl. No. 9.3 of IS 2705 (Part 1): 1992)

The power frequency voltage of 28 kV (rms) was applied between the primary winding terminals and earth for one minute duration. The secondary windings terminals and base plate were connected together to earth.

The sample withstood the test voltage without any disruptive discharge.

REMARK: Conforms

4. Power frequency dry withstand test on secondary winding.

(Cl. No. 9.4 of IS 2705 (Part 1): 1992)

(A) On secondary windings

The power frequency voltage of 3 kV (rms) was applied between the secondary windings terminals (all) connected together and the earth. The primary winding terminals and base plate were shorted and connected to the earth. The was applied for one minute. There was no disruptive discharge observed.

The sample withstood the test voltage satisfactorily.

(B) Between secondary windings

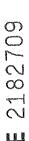
The power frequency voltage of 3 kV (rms) was applied between the secondary windings terminals (1S1-1S2-1S3) connected together and the earth. The primary winding terminals, other secondary windings terminals and base plate were shorted and connected to the earth. The test voltage was applied for one minute. There was no disruptive discharge observed. The sample withstood the test voltage satisfactorily.

(C) Between Secondary windings

The power frequency voltage of 3 kV (rms) was applied between the secondary windings terminals (2S1-2S2-2S3) connected together and the earth. The primary winding terminals, other secondary windings terminals and base plate were shorted and connected to the earth. The test voltage was applied for one minute. There was no disruptive discharge observed. The sample withstood the test voltage satisfactorily.

REMARK: Conforms

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: 22.03.2017 DATE

5. Over voltage inter-turn test. (Cl. No. 9.5 of IS 2705 (Part 1): 1992)

With the primary winding open circuited, a voltage at rated frequency was applied to the secondary winding terminals (1S1-1S3, 2S1-2S3) such as to produce a secondary limiting current of rms value equals to the rated secondary current (i.e. 5 A for core-1 & 2) for one minute. The sample withstood the applied voltage satisfactorily for one minute.

REMARK: Conforms

6. Partial discharge test. (As per customer's requirement & test procedure followed as per Cl. No. 9.1.2 (e) of IS 2705 (Part 1): 1992)

NETWORK: Non Effectively earthed Starpoint

The power frequency voltage was applied and raised to the pre-stress voltage level (1.3 μ = 15.6 kV, where μ = 12 kV) and maintained for 10 seconds. The voltage was then reduced to partial discharge measuring level (1.1 Um= 13.2 kV and 1.1 Um/ $\sqrt{3}$ =7.62kV) and maintained for one minute. The partial discharge magnitude measured at the measuring voltage level (1.1 Um= 13.2 KV) was $\bf 04~pC$ &

 $(1.1 \text{ Um}/\sqrt{3}=7.62) \text{ was } \mathbf{04 pC}.$

Note: Specified Limit for 1.1 Um = 250 pC.

Specified Limit for 1.1 Um/ $\sqrt{3}$ = **50 pC**

REMARK: Conforms

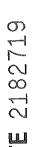
7. Determination of errors according to the requirements of the appropriate accuracy class. (Before STC test)

(Cl. No. 7.2.1 & 7.1.1 of IS 2705 (Part 2): 1992 for metering core & Cl. No. 7.2.1 & 7.1.1 of IS 2705 (Part 3): 1992 for protection core.)

a) RATIO: 300/5 A, BURDEN: 15 VA, CLASS: 0.5, Secondary winding terminals: 1S1-1S2

, , , , , , , , , , , , , , , , , , , ,	,			
PHASE ANGLE	RATIO ERROR	% OF RATED	RATIO ERROR	PHASE ANGLE
ERROR IN MIN.	IN %	CURRENT	IN %	ERROR IN MIN.
			BURDEN: 25	% at U. P.F.
0.91	-0.113	120	0.364	6.82
1.71	-0.140	100	0.360	7.09
6.55	-0.348	20	0.289	10.32
	-0.709	5	0.137	19.32
	PHASE ANGLE ERROR IN MIN. BURDEN: 100 % 0.91 1.71	PHASE ANGLE ERROR IN MIN. RATIO ERROR IN % BURDEN: 100 % at 0.8 Lag. P.F. 0.91 -0.113 1.71 -0.140 6.55 -0.348	PHASE ANGLE ERROR IN MIN. RATIO ERROR IN % OF RATED CURRENT BURDEN: 100 % at 0.8 Lag. P.F. 0.91 -0.113 120 1.71 -0.140 100 6.55 -0.348 20	PHASE ANGLE ERROR IN MIN. RATIO ERROR IN % OF RATED CURRENT RATIO ERROR IN % BURDEN: 100 % at 0.8 Lag. P.F. BURDEN: 25 0.91 -0.113 120 0.364 1.71 -0.140 100 0.360 6.55 -0.348 20 0.289

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b) RATIO: 600/5 A, BURDEN: 15 VA, CLASS: 0.5, Secondary winding terminals: 1S1-1S3

D) KAITO, OOO/ J /	7. DUNDLIN +0 V	.,, -		2
PHASE ANGLE	RATIO ERROR	% OF RATED	RATIO ERROR	PHASE ANGLE
ERROR IN MIN.	IN %	CURRENT	IN %	ERROR IN MIN.
	BURDEN: 100 % at 0.8 Lag. P.F.		BURDEN: 25	% at U. P.F.
1.38	0.075	120	0.210	2.40
1.56	0.070	100	0.208	2.42
2.61	0.004	20	0.178	3.79
	-0.145	5	0.113	7.74
5.51	-0.143		1 01220	1 1 204 202

c)CLASS: 5P, BURDEN: 15 VA @ 0.8 Lag. P. F. Secondary winding terminals: 2S1-2S2 PHASE ANGLE RATIO ERROR % OF RATED Secondary winding **RATIO** ERROR IN MIN. IN % CURRENT terminals -0.3552.34 100 2S1-2S2 300/5 A

d)CLASS: 5P, BURDEN: 15 VA @ 0.8 Lag. P. F. Secondary winding terminals: 2S1-2S3

RATIO	Secondary winding terminals	% OF RATED CURRENT	RATIO ERROR IN %	PHASE ANGLE ERROR IN MIN.
600/5 A	2S1-2S3	100	-0.105	1.23

REMARK: Conforms

8. Composite error test. (Cl. No. 7.1.2 & 7.2.2 of IS 2705 (Part 3): 1992)

(Before STC test)

2S1-2S3 2S1-2S2 Secondary winding terminals 600/5 A 300/5 A **RATIO** 40.67 V 34.63 V **SLV** Computed 37.1 mA 128.1 mA Excitation Current measured 0.074 % 0.256 % Composite Error

REMARK: Conforms

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DATE

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9. Short time current test. (Cl. No. 9.6 of IS 2705 (Part 1): 1992)

Pre test: As tests mentioned in sheet no. 2 OF 13, 8 OF 13,9 OF 13 (i. e. Sr. No. 7 & 8)

The short time current test was performed on primary winding connected to source as per test circuit diagram OLSC/IT/13 and secondary winding short circuited through a copper link of negligible impedance.

CT Ratio: 300-600/5-5 A.

Supply Frequency: 50Hz.

Te st No	Oscillogram No.	Short circuit current (kA) Peak Rms		Duration (sec.)	Observation during test
1.	1814/01	63.480	25.383	1.003	No abnormality observed

Observation after test:

- No visible damage was observed.

- C.T. body was intact.

Post test: As tests mentioned in sheet no. 2 OF 13 & 11 OF 13 to 13 OF 13.

(i.e. Sr. No. 10 to 14)

REMARK: Conforms

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TEST REPORT NO.: RP-1617-060843

DATE : 22.03.2017

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TEST RESULTS AFTER SHORT TIME CURRENT TEST

10. Power frequency dry withstand test on primary winding. (Cl. No. 9.3 of IS 2705 (Part 1): 1992)

The power frequency voltage of 25.2 kV (rms) (i.e. 90% of 28 kV (rms)) was applied between the primary winding terminals and earth for one minute duration.

The secondary windings terminals and base plate were connected together to earth. The sample withstood the test voltage without any disruptive discharge.

REMARK: Conforms

11. Power frequency dry withstand test on secondary winding.

(Cl. No. 9.4 of IS 2705 (Part 1): 1992)

(A) On secondary windings

The power frequency voltage of 2.7 kV (rms) (i.e. 90% of 3 kV (rms)) was applied between the secondary windings terminals (all) connected together and the earth. The primary winding terminals and base plate were shorted and connected to the earth. The test voltage was applied for one minute. There was no disruptive discharge observed. The sample withstood the test voltage satisfactorily.

(B) Between secondary windings

The power frequency voltage of 2.7 kV (rms) (i.e. 90% of 3 kV (rms)) was applied between the secondary windings terminals (1S1-1S2-1S3) connected together and the earth. The primary winding terminals, other secondary windings terminals and base plate were shorted and connected to the earth. The test voltage was applied for one minute. There was no disruptive discharge observed.

The sample withstood the test voltage satisfactorily.

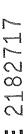
(C) Between Secondary windings

The power frequency voltage of 2.7 kV (rms) (i.e. 90% of 3 kV (rms)) was applied between the secondary windings terminals (2S1-2S2-2S3) connected together and the earth. The primary winding terminals, other secondary windings terminals and base plate were shorted and connected to the earth. The test voltage was applied for one minute. There was no disruptive discharge observed.

The sample withstood the test voltage satisfactorily.

REMARK: Conforms

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: 22.03.2017

DATE 12. Over voltage inter-turn test. (Cl. No. 9.5 of IS 2705 (Part 1): 1992)

With the primary winding open circuited, a voltage at rated frequency was applied to the secondary winding terminals (1S1-1S3, 2S1-2S3) such as to produce a secondary limiting current of rms value equals to 90 % of rated secondary current (i.e. 4.5 A for core 1 & 2) for one minute.

The sample withstood the applied voltage satisfactorily for one minute.

REMARK: Conforms

13. Determination of errors according to the requirements of the appropriate accuracy class. (Cl. No. 7.1.1 of IS 2705 (Part 2): 1992 for metering core & Cl. No. 7.1.1 of IS 2705 (Part 3): 1992 for protection core.)

CURRENT TRANSFORMER:

a)RATIO: 300/5 A, BURDEN: 15 VA, CLASS: 0.5, Secondary winding terminals: 1S1-1S2

Sr. No.	% OF RATED CURRENT	Rated burden (in %)	Power factor: 0.8 Lag. P.F.		Short circu	n errors after lit withstand ity test.
AAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			RATIO ERROR IN %	PHASE ANGLE ERROR IN MIN.	RATIO ERROR IN %	PHASE ANGLE ERROR IN MIN.
1.	120	100	-0.133	1.27	0.020	-0.36
2.	100	100	-0.155	2.18	0.015	-0.47
3.	20	100	-0.359	7.04	0.011	-0.49
4.	5	100	-0.736	11.92	0.027	-0.91

b)RATIO: 600/5 A, BURDEN: 15 VA, CLASS: 0.5, Secondary winding terminals: 1S1-1S3

Sr No		Rated burden (in %)	Power factor: 0.8 Lag. P.F.		Short circu	n errors after uit withstand lity test.
			RATIO ERROR IN %	PHASE ANGLE ERROR IN MIN.	RATIO ERROR IN %	PHASE ANGLE ERROR IN MIN.
1.	120	100	0.059	1.55	0.016	-0.17
2.		100	0.054	1.76	0.016	-0.20
3.		100	-0.015	3.25	0.019	-0.64
4.		100	-0.167	6.38	0.022	-0.87

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DATE : 22.03.2017

c)RATIO: 300/5 A, BURDEN: 15 VA, CLASS: 5P, Secondary winding terminals: 2S1-2S2

Sr. No.	% OF RATED CURRENT	Rated burden (in %)	Power facto	Power factor: 0.8 Lag. P.F.		n errors after uit withstand lity test.
			RATIO ERROR IN %	PHASE ANGLE ERROR IN MIN.	RATIO ERROR IN %	PHASE ANGLE ERROR IN MIN.
1.	100	100	-0.365	2.07	0.010	0.27

d)RATIO: 600/5 A, BURDEN: 15 VA, CLASS: 5P, Secondary winding terminals: 2S1-2S3

Sr. No.	% OF RATED CURRENT	Rated burden (in %)	Power facto	Power factor: 0.8 Lag. P.F.		n errors after nit withstand ity test.
			RATIO ERROR IN %	PHASE ANGLE ERROR IN MIN.	RATIO ERROR IN %	PHASE ANGLE ERROR IN MIN.
1.	100	100	-0.115	1.11	0.010	0.12

REMARK: Conforms

14. Composite error test. (Cl. No. 7.1.2 of IS 2705 (Part 3): 1992)

Secondary winding terminals : 2S1-2S2 2S1-2S3

RATIO : 300/5 A 600/5 A

SLV Computed : 34.83 V 40.87 V

Excitation Current measured : 126.3 mA 37.3 mA

Composite Error : 0.253 % 0.075 %

Difference : 0.003% -0.001%

REMARK: Conforms

PREPARED BY CHECKED BY

L 2182715



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EPABX : +91 (0265) 2642942, 2642964, 2642377, 3043128 / 29 / 30 / 31 / 33

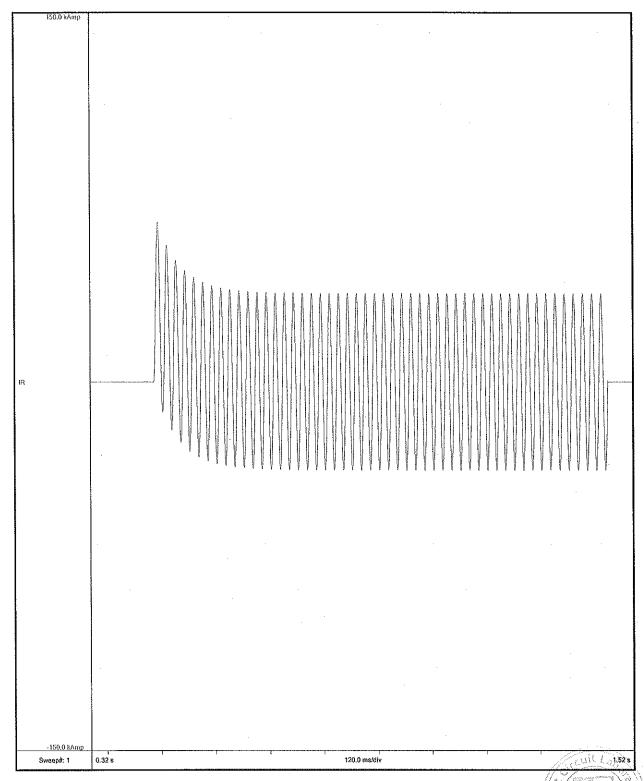
Fax : +91 (0265) 2638382

E-mail : erda@erda.org
Web : http://www.erda.org

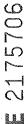
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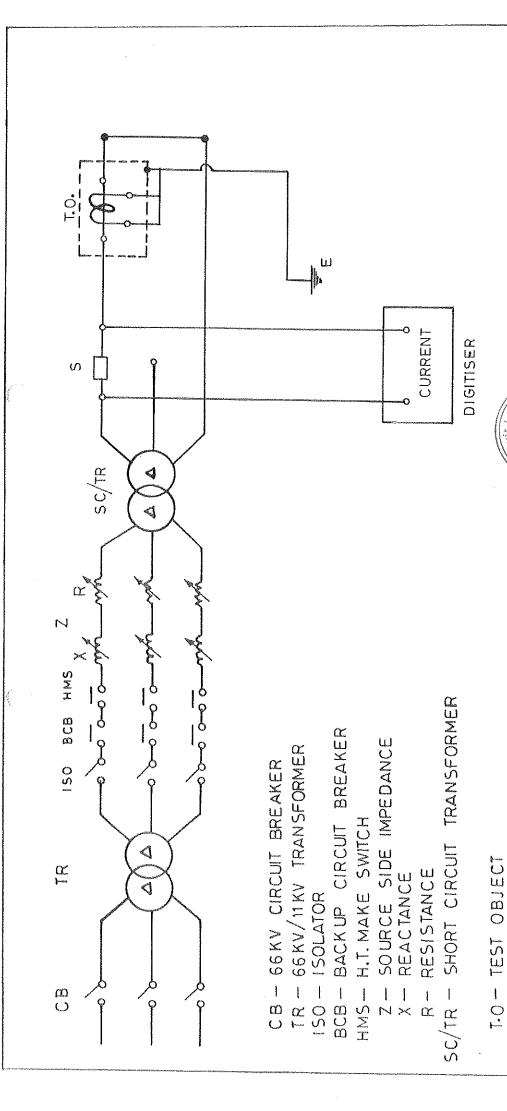
TEST REPORT NO.: RP-1617-060843

DATE: 22.03.2017



OSCILLOGRAM NO.: 1814/01





RESEARCH AND ELECTRICAL

DEVELOPMENT ASSOCIATION

A.V. 8- | 29-10-99 | OLSC/IT/13 DRG. NO. CKD, DATE DRN.BY SBS

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DATE: 22.03.2017



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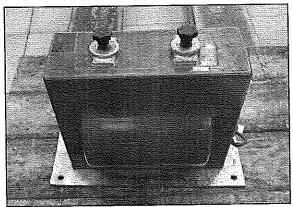
Annexure-I

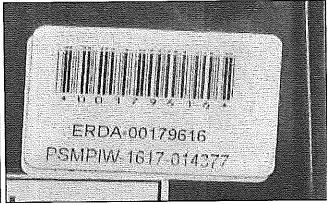
TEST REPORT NO.: RP-1617-060843

: 22.03.2017 DATE

SHEET: 1 OF 1

PHOTOGRAPHS OF TEST SAMPLE





TYPE : Indoor, Resin cast COREI CURRENT TRANSFORMER: 300-600/5-5A : 15 VA/CL 0.5 CORE !! : 15 VA/CL 5P10 : 11 KV SYSTEM VOLTAGE ISF < 10 ILV. : 12/28/75 KV STC : 25 KA/ 1 SEC FREQUENCY: 50 Hz IS2705/1992 SL NO. DRG NO. TN5 1433

CURRENT TRANSFORMER

MFG BY: EPOXY TERMINAL AND EQUIPMENT PVT. LTD. HYDRABAD, INDIA

: ETE-CT-WP01



Year of Mfg. : 2016



