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# TEST REPORT



| | |
|---|---|
| **NAME & ADDRESS OF CUSTOMER :**<br><br>**M/s. Rajasthan Powergen Transformer Pvt. Ltd.**<br>Khasra No. 911-914,<br>Karola-Bhinmal Road,<br>Karola,Sanchore,<br>Rajasthan-343041(India) | **TEST REPORT NO. :** RP-1819-026025<br>**DATE :** 01/10/2018<br>**CUSTOMER REF. NO. :** NIL<br>**DATED :** 27/09/2018<br>**DATE OF SAMPLE RECEIPT** / **DATE OF TESTING**<br>27/09/2018 / 01/10/2018 |
| **SAMPLE DESCRIPTION :**<br>**DISTRIBUTION TRANSFORMER**<br>**NON-SEALED TYPE**<br>ENERGY EFFICIENCY LEVEL : 3<br>RATING : 315 kVA<br>RATED VOLTS : 11000/433 V<br>RATED CURRENT : 16.53/420 A<br>NO. OF PHASE : 03<br>TYPE OF COOLING : ONAN<br>FREQUENCY : 50 Hz<br>% IMPEDANCE : 4.5%<br>VECTOR GROUP : Dyn 11<br>B.I.L. : H. V. : 28kVrms/75 kVp<br>L. V. : 3 kVrms/---- | **SAMPLE IDENTIFICATION :**<br><br>SR. NO. : RPTPL-001<br><br>YEAR OF MFG. : 2018<br><br>MFG. BY : M/s. Rajasthan Powergen Transformer Pvt. Ltd.<br><br>ERDA Sample Code No.: ERDA-00278711 |
| **TEST DETAIL :**<br>Lightning Impulse Test with Chopped on the Tail on all the three phases of HV Terminals at 75 kVp.<br><br>**ENCLOSURE :**<br>DRG. NO.: 1) RPTPL-RP-315KVA-01/02-2018<br>2) RPTPL-RP-315KVA-02/02-2018<br>3) RPTPL-OL-315KVA-02-2018<br><br>**TEST WITNESSED BY:** ---- | **TEST SPECIFICATION :**<br>As per IS:1180 (Part-I)-2014,Cl.No. 21.3.a Amendment No.1 & 2(Test Procedure was Followed as per IS : 2026-(Part-III)-2009, Cl. No. 14) |

**REMARKS :** From the observation of enclosed oscillographic records, it is concluded that the transformer **conforms** to the requirements of the above mentioned standard with respect to the test carried out.

**PREPARED BY** **CHECKED BY** **A. S. KHOPKAR**
**APPROVED BY**

**Note :** 1. This report relates only to the particular sample received in good condition for testing at ERDA,VADODARA.
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**DATE** : 01/10/2018

| Waveform | Comment | Ut / kVp | T1 / µs | T2 / µs | Tc / µs |
|---|---|---|---|---|---|
| **1U PHASE(TAP NO.: 3)** | | | | | |
| 1 | LI RW | -46.177 | 1.363 | 53.266 | |
| 2 | 100% LI FW | -74.590 | 1.359 | 52.530 | |
| 3 | LI CRW | -52.052 | 1.422 | | 3.176 |
| 4 | 110% LI CFW | -81.436 | 1.371 | | 3.651 |
| 5 | 110% LI CFW | -81.298 | 1.369 | | 3.213 |
| 6 | 100% LI FW | -75.697 | 1.361 | 52.897 | |
| 7 | 100% LI FW | -75.362 | 1.358 | 52.796 | |
| **1V PHASE(TAP NO.: 1)** | | | | | |
| 8 | LI RW | -47.880 | 1.362 | 54.016 | |
| 9 | 100% LI FW | -75.541 | 1.357 | 53.670 | |
| 10 | LI CRW | -51.551 | 1.417 | | 2.805 |
| 11 | 110% LI CFW | -82.826 | 1.370 | | 3.498 |
| 12 | 110% LI CFW | -82.611 | 1.366 | | 2.884 |
| 13 | 100% LI FW | -76.095 | 1.360 | 53.640 | |
| 14 | 100% LI FW | -75.457 | 1.362 | 53.643 | |
| **1W PHASE(TAP NO.: 7)** | | | | | |
| 15 | LI RW | -45.705 | 1.408 | 52.099 | |
| 16 | 100% LI FW | -74.643 | 1.404 | 51.740 | |
| 17 | LI CRW | -50.281 | 1.455 | | 3.239 |
| 18 | 110% LI CFW | -81.005 | 1.411 | | 3.724 |
| 19 | 110% LI CFW | -81.081 | 1.413 | | 3.527 |
| 20 | 100% LI FW | -74.926 | 1.404 | 51.789 | |
| 21 | 100% LI FW | -73.628 | 1.404 | 51.587 | |

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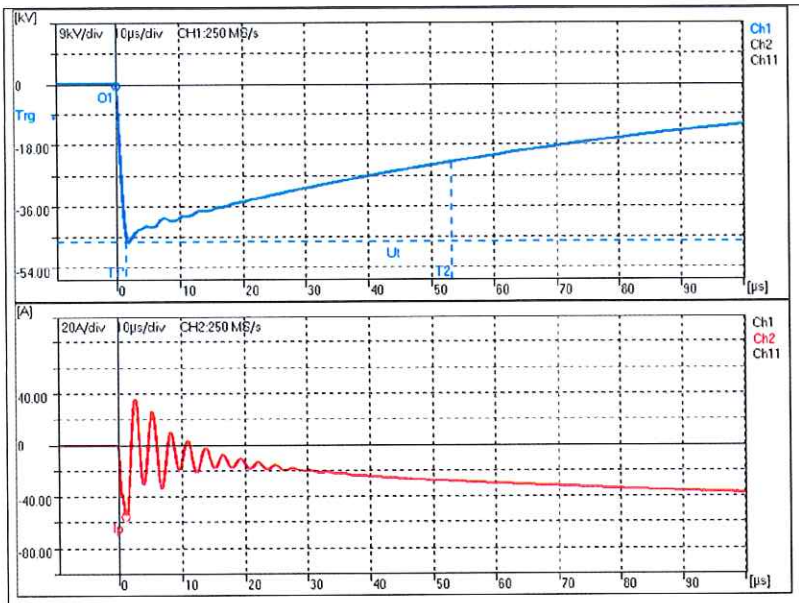
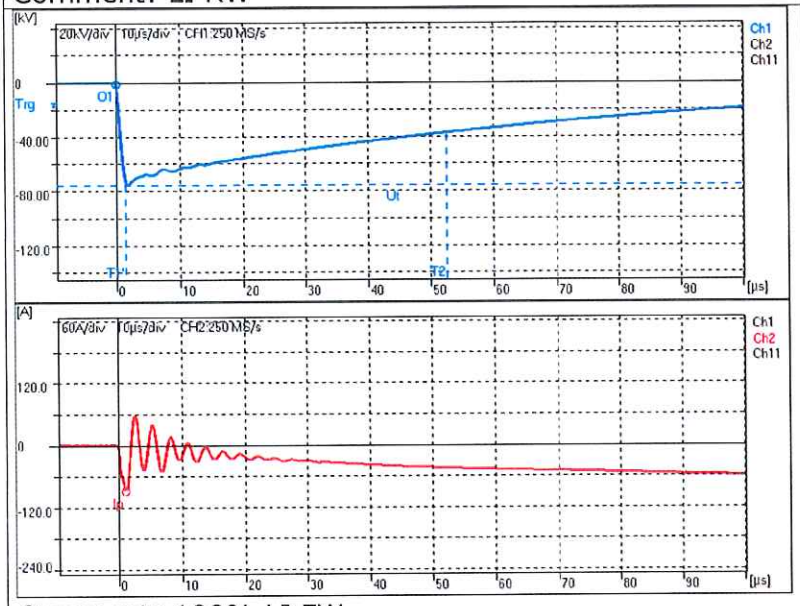



Comment: LI RW

Fig.: 1
$U_p$ = -46.18 kV
$T_1$ = 1.36 µs
$T_2$ = 53.27 µs
$T_c$ = µs




Comment: 100% LI FW

Fig.: 2
$U_p$ = -74.59 kV
$T_1$ = 1.36 µs
$T_2$ = 52.53 µs
$T_c$ = µs

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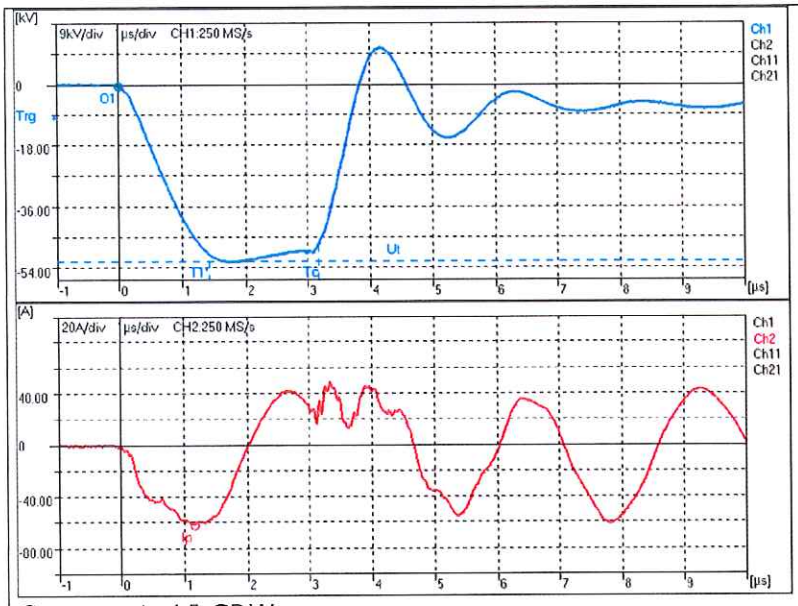
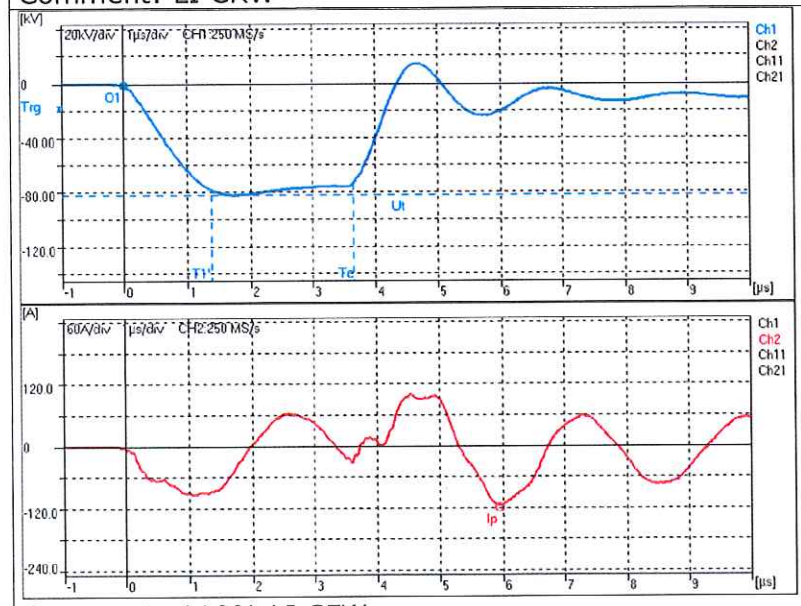
**DATE** : 01/10/2018




Comment: LI CRW

Fig.: 3
$U_p$ = -52.05 kV
$T_1$ = 1.42 µs
$T_2$ = µs
$T_c$ = 3.18 µs




Comment: 110% LI CFW

Fig.: 4
$U_p$ = -81.44 kV
$T_1$ = 1.37 µs
$T_2$ = µs
$T_c$ = 3.65 µs

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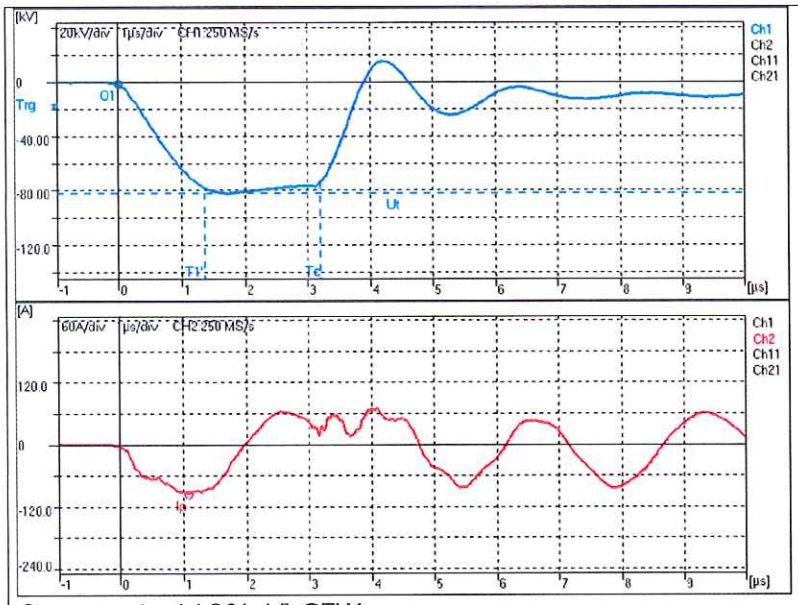
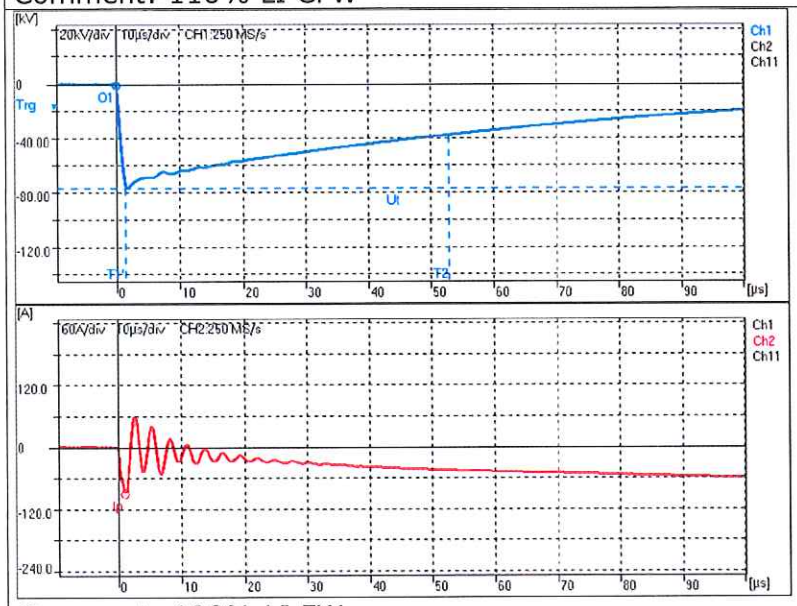
**DATE** : 01/10/2018




Comment: 110% LI CFW

Fig.: 5
$U_p$ = -81.30 kV
$T_1$ = 1.37 µs
$T_2$ = µs
$T_c$ = 3.21 µs




Comment: 100% LI FW

Fig.: 6
$U_p$ = -75.70 kV
$T_1$ = 1.36 µs
$T_2$ = 52.90 µs
$T_c$ = µs

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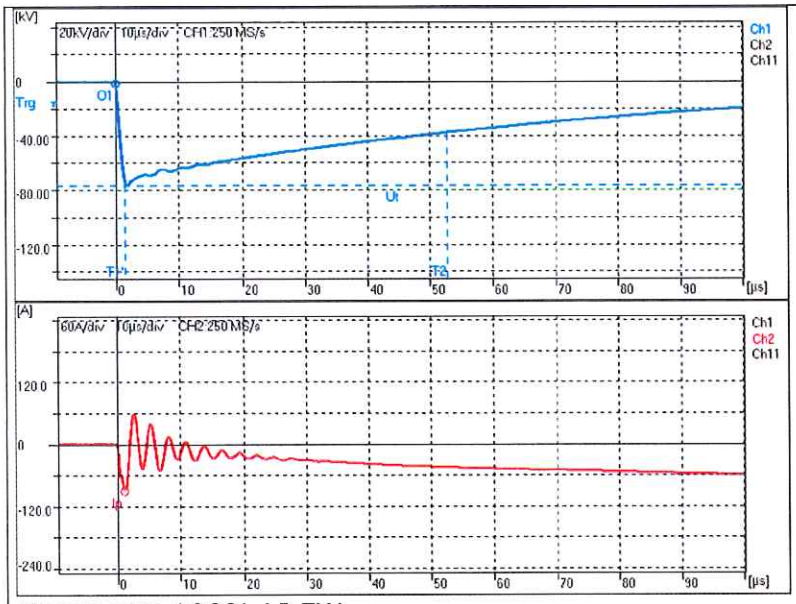
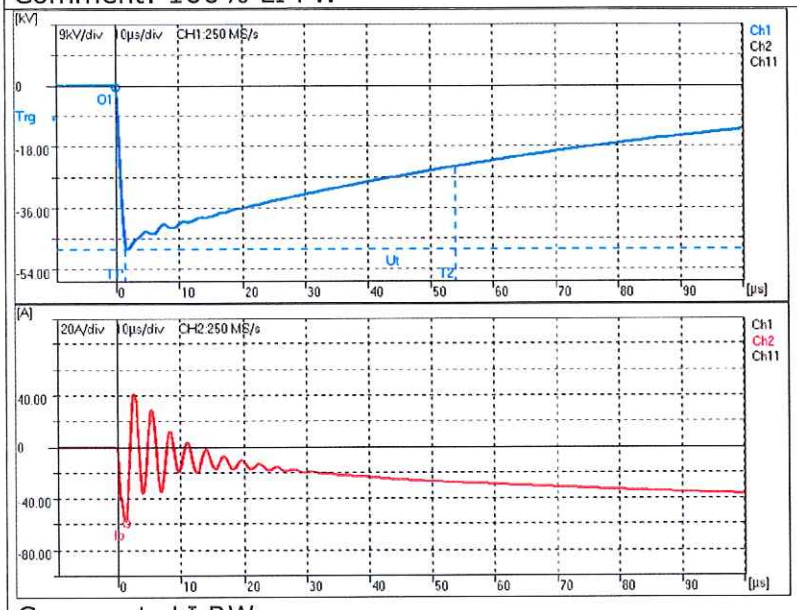
**DATE** : 01/10/2018




Comment: 100% LI FW

Fig.: 7
$U_p$ = -75.36 kV
$T_1$ = 1.36 µs
$T_2$ = 52.80 µs
$T_c$ = µs




Comment: LI RW

Fig.: 8
$U_p$ = -47.88 kV
$T_1$ = 1.36 µs
$T_2$ = 54.02 µs
$T_c$ = µs

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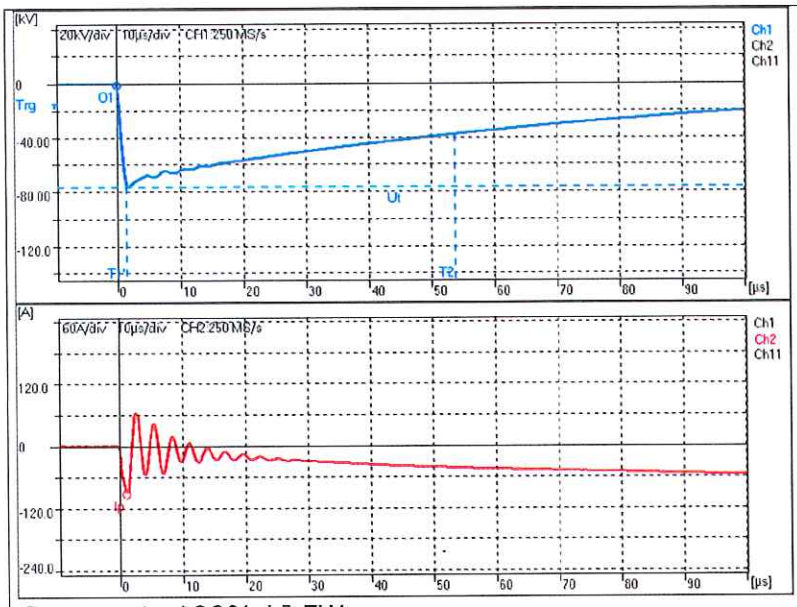
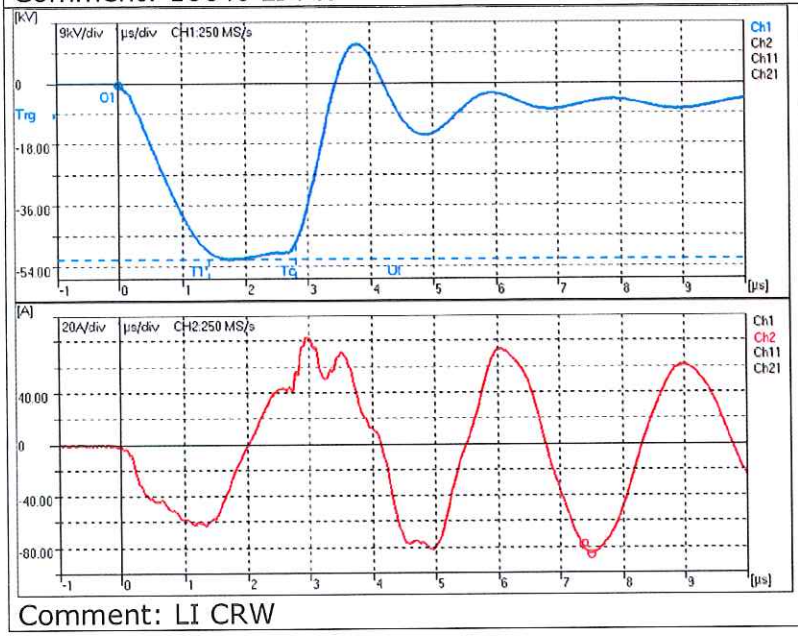



Comment: 100% LI FW

Fig.: 9
$U_p$ = -75.54 kV
$T_1$ = 1.36 µs
$T_2$ = 53.67 µs
$T_c$ = µs




Comment: LI CRW

Fig.: 10
$U_p$ = -51.55 kV
$T_1$ = 1.42 µs
$T_2$ = µs
$T_c$ = 2.81 µs

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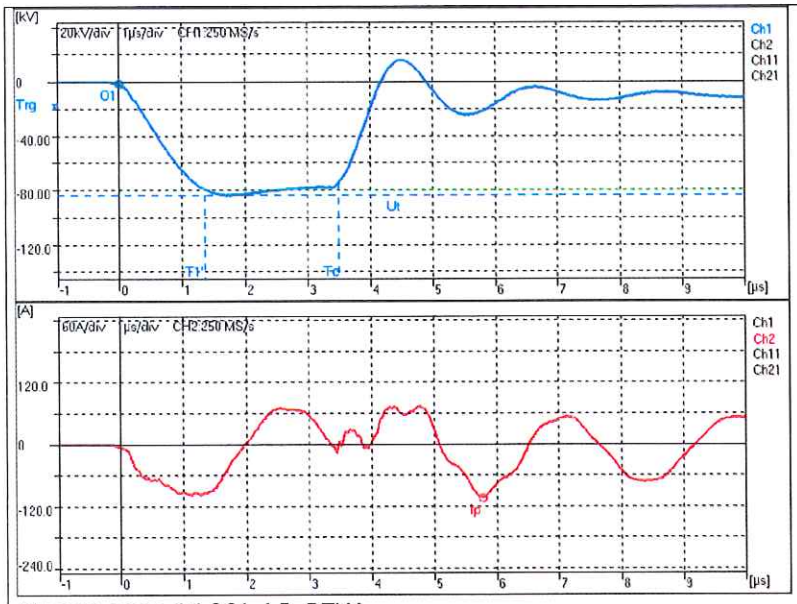
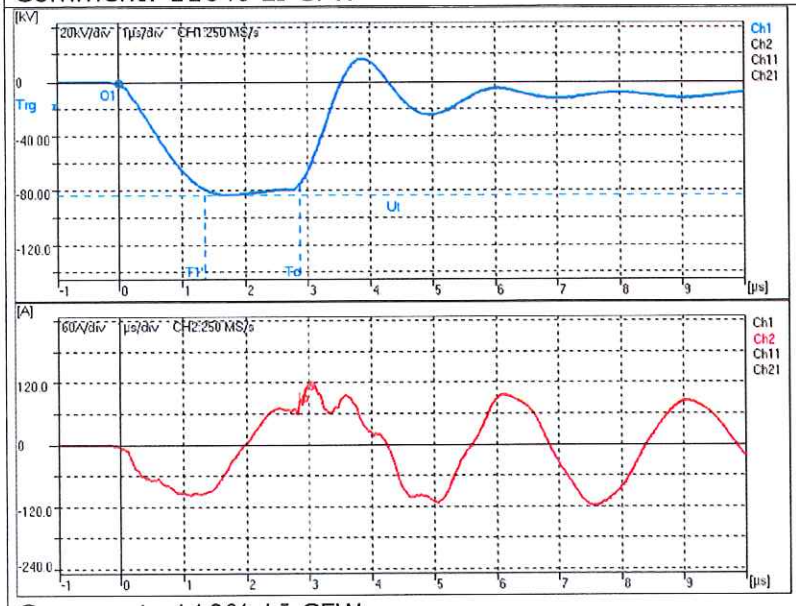



Comment: 110% LI CFW

Fig.: 11
$U_p$ = -82.83 kV
$T_1$ = 1.37 µs
$T_2$ = µs
$T_c$ = 3.50 µs




Comment: 110% LI CFW

Fig.: 12
$U_p$ = -82.61 kV
$T_1$ = 1.37 µs
$T_2$ = µs
$T_c$ = 2.88 µs

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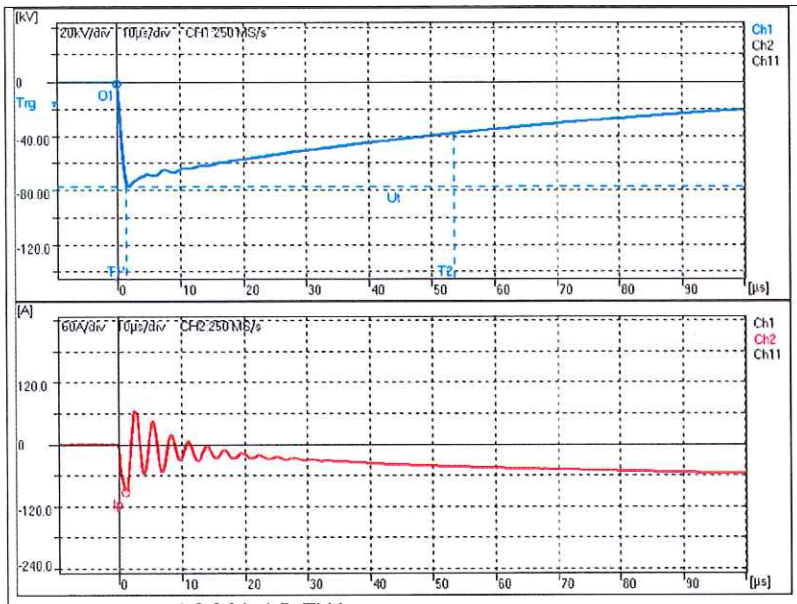
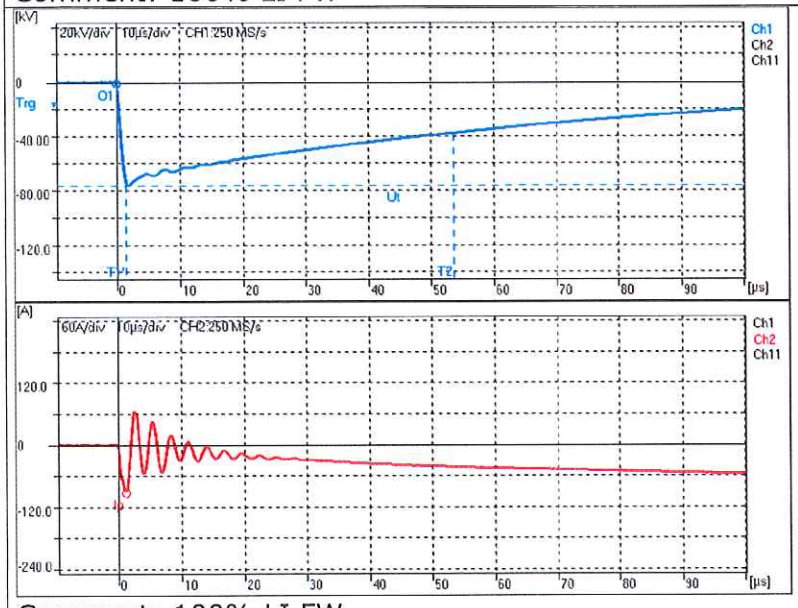



Comment: 100% LI FW

Fig.: 13
$U_p$ = -76.09 kV
$T_1$ = 1.36 µs
$T_2$ = 53.64 µs
$T_c$ = µs




Comment: 100% LI FW

Fig.: 14
$U_p$ = -75.46 kV
$T_1$ = 1.36 µs
$T_2$ = 53.64 µs
$T_c$ = µs

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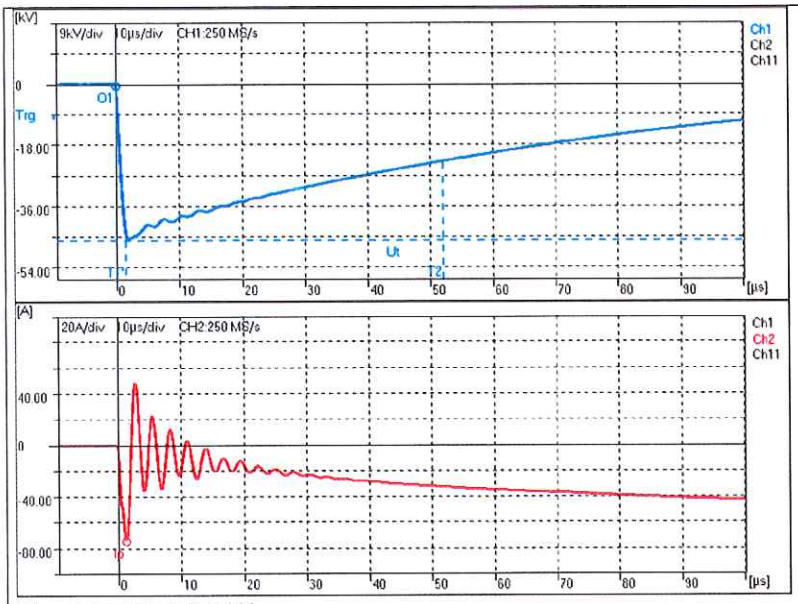
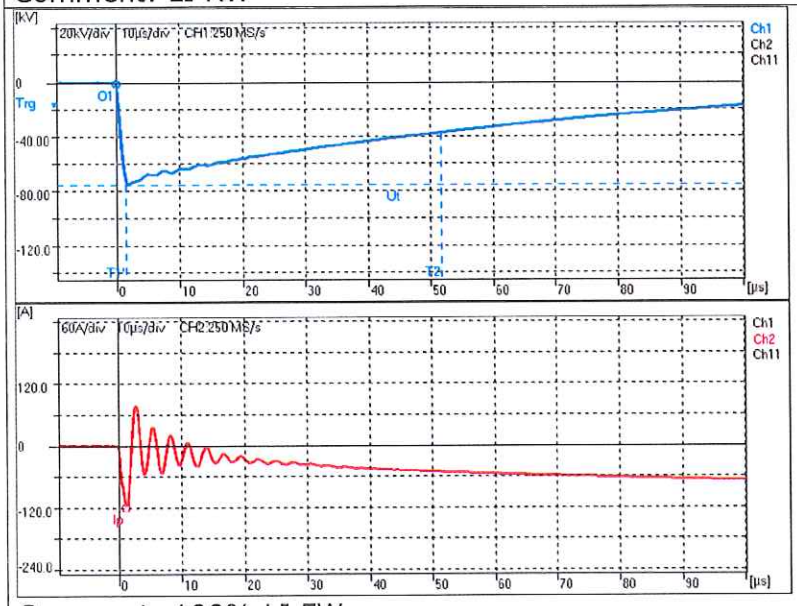



Comment: LI RW

Fig.: 15
$U_p$ = -45.70 kV
$T_1$ = 1.41 µs
$T_2$ = 52.10 µs
$T_c$ = µs




Comment: 100% LI FW

Fig.: 16
$U_p$ = -74.64 kV
$T_1$ = 1.40 µs
$T_2$ = 51.74 µs
$T_c$ = µs

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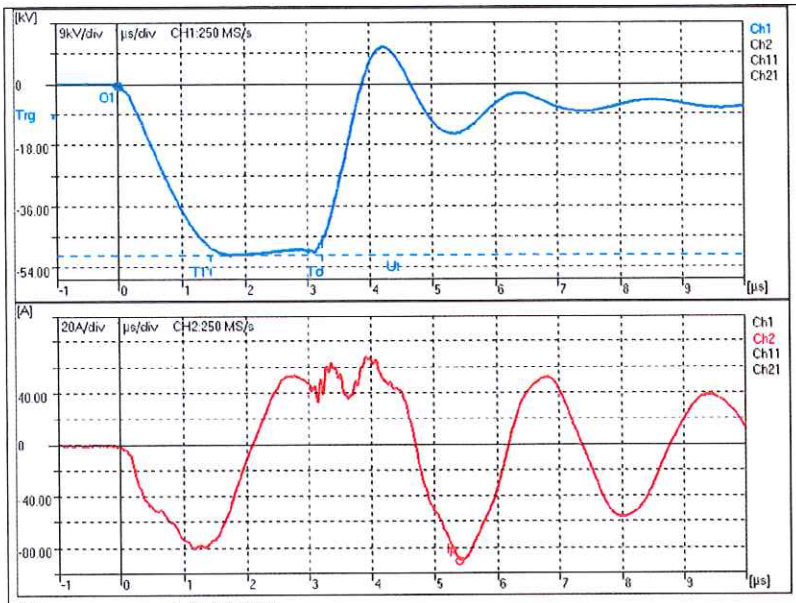
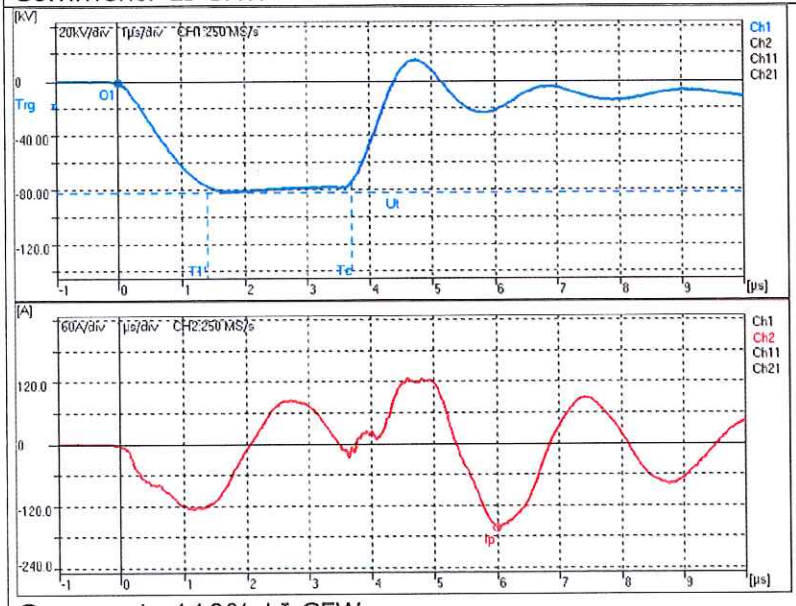



Comment: LI CRW

Fig.: 17
$U_p$ = -50.28 kV
$T_1$ = 1.45 µs
$T_2$ = µs
$T_c$ = 3.24 µs




Comment: 110% LI CFW

Fig.: 18
$U_p$ = -81.01 kV
$T_1$ = 1.41 µs
$T_2$ = µs
$T_c$ = 3.72 µs

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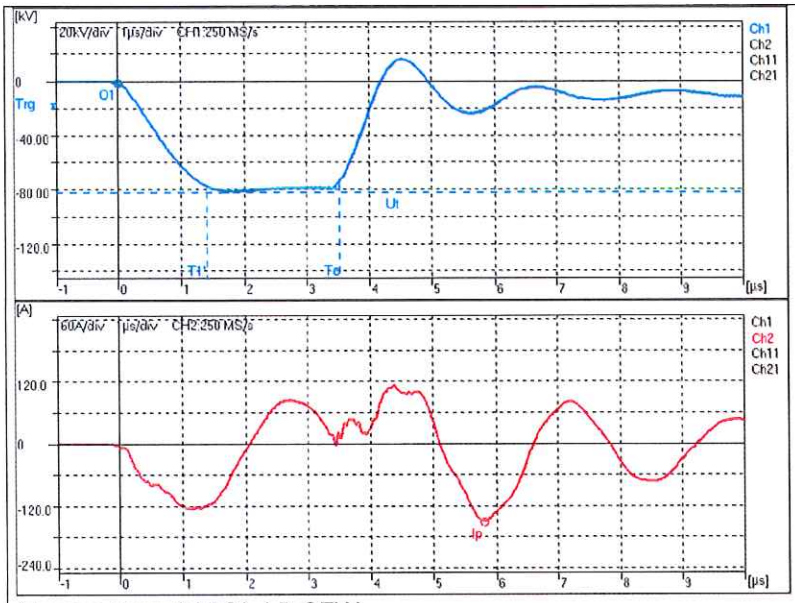
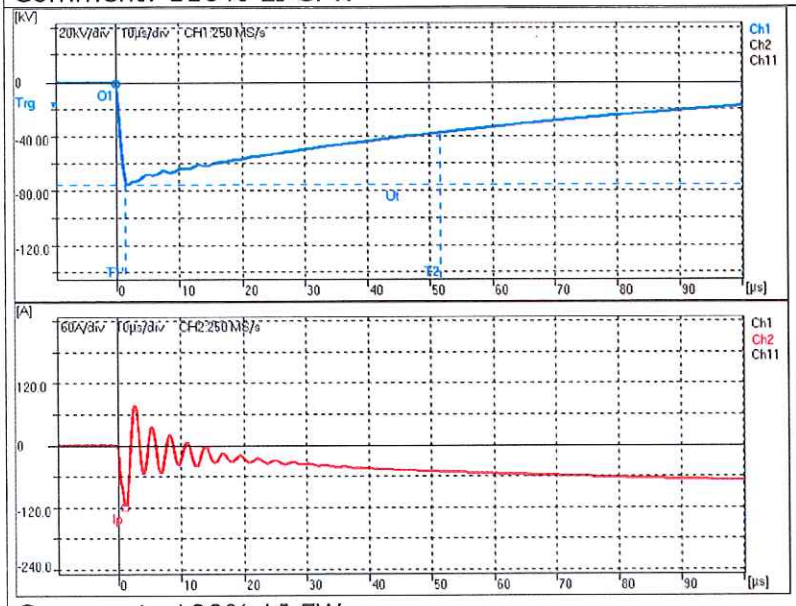



Comment: 110% LI CFW

Fig.: 19
$U_p$ = -81.08 kV
$T_1$ = 1.41 µs
$T_2$ = µs
$T_c$ = 3.53 µs




Comment: 100% LI FW

Fig.: 20
$U_p$ = -74.93 kV
$T_1$ = 1.40 µs
$T_2$ = 51.79 µs
$T_c$ = µs

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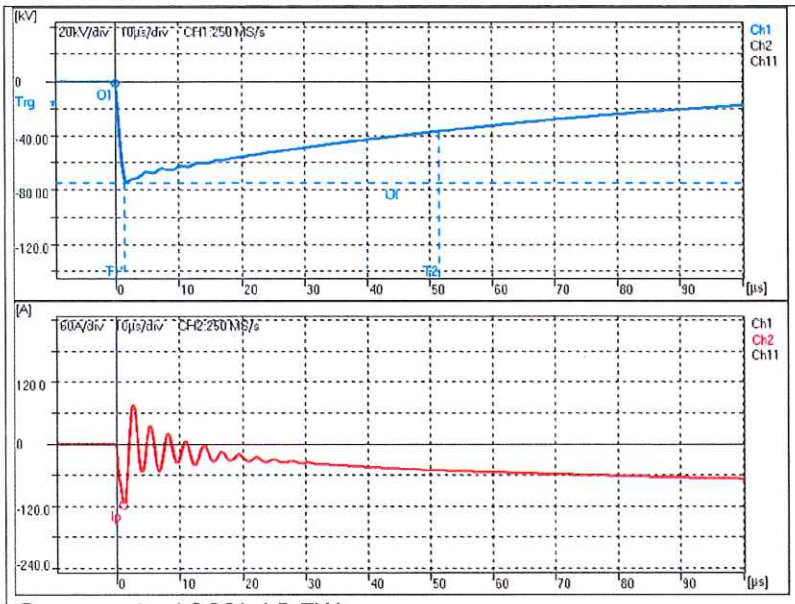
**TEST REPORT NO. :** RP-1819-026025 **SHEET NO.:** 13 of 15
**DATE** : 01/10/2018




Comment: 100% LI FW

Fig.: 21
$U_p$ = -73.63 kV
$T_1$ = 1.40 µs
$T_2$ = 51.59 µs
$T_c$ = µs

**PREPARED BY**

Impulse Laboratory • H. V. Division • ERDA • Vadodara

**CHECKED BY**

TC 26229168

Certificate No. : TC-5389

**ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION**
(Accredited by the National Accreditation Board for Testing and Calibration Laboratories, Govt. of India)
ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India.
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

**TEST REPORT No.:** RP-1819-026025 **SHEET No.:** 14 OF 15
**DATE** : 01/10/2018

## PHOTOGRAPH OF TEST SAMPLE


**PREPARED BY**

Impulse Laboratory • H. V. Division • ERDA • Vadodara

**CHECKED BY**

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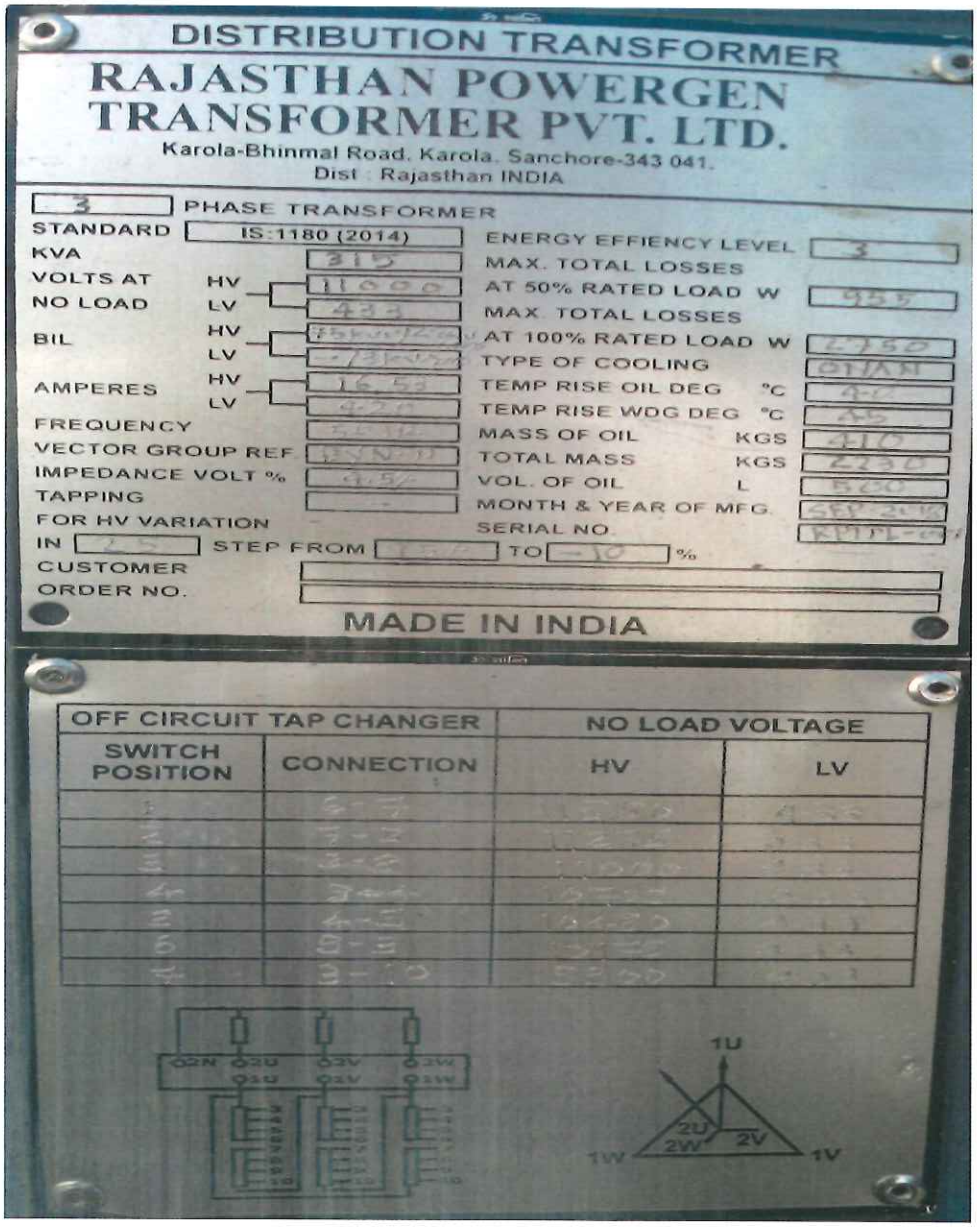
**TEST REPORT No.:** RP-1819-026025 **SHEET No.:** 15 OF 15
**DATE** : 01/10/2018

## PHOTOGRAPH OF TERMINAL MARKING AND RATING PLATE




PREPARED BY

CHECKED BY

Impulse Laboratory • H.V. Division • ERDA • Vadodara

TC 2629170

# DISTRIBUTION TRANSFORMER

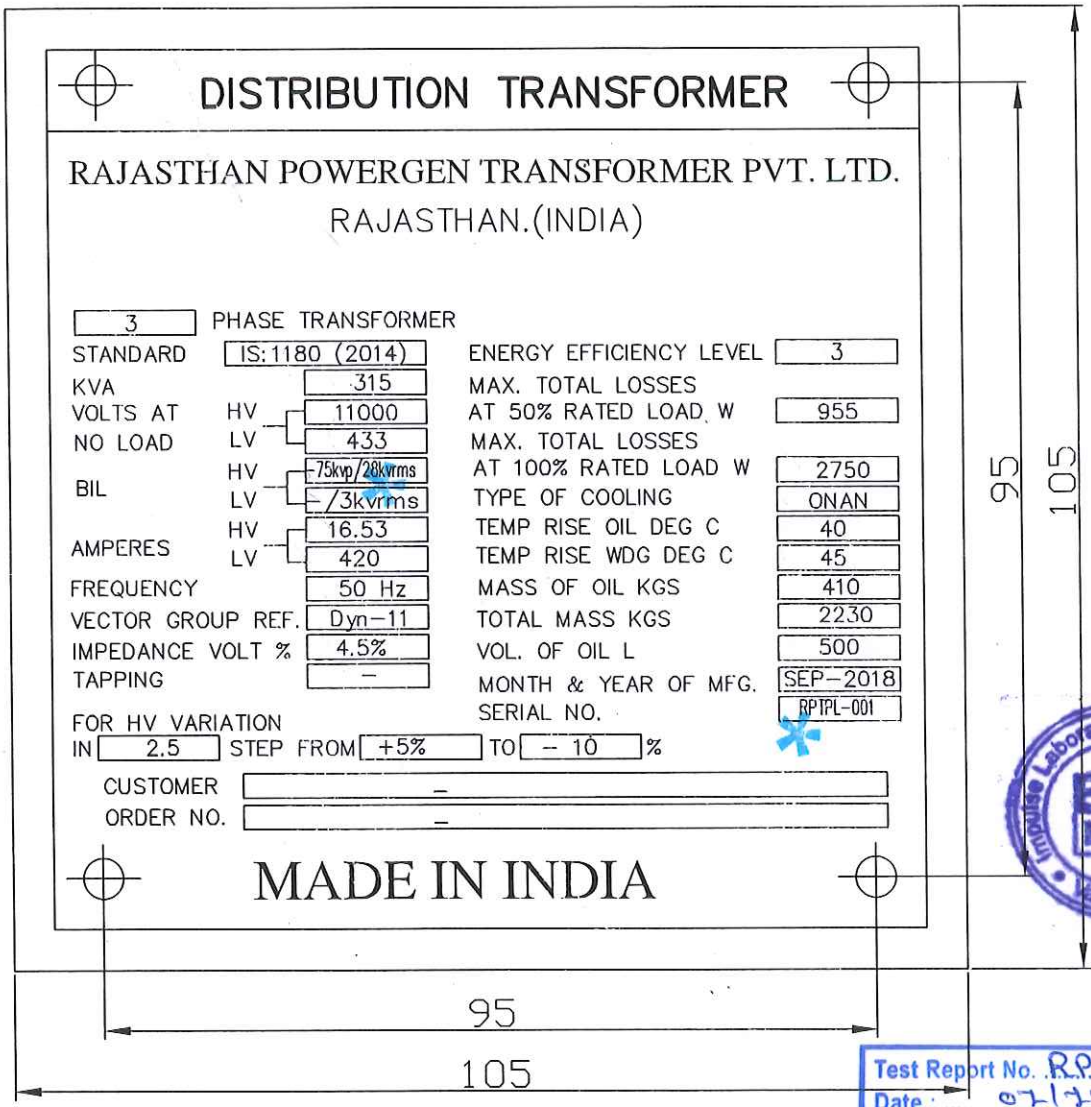
RAJASTHAN POWERGEN TRANSFORMER PVT. LTD.
RAJASTHAN.(INDIA)

| | | | | | |
|---|---|---|---|---|---|
| 3 | PHASE TRANSFORMER | | | | |
| STANDARD | | IS:1180 (2014) | ENERGY EFFICIENCY LEVEL | | 3 |
| KVA | | 315 | MAX. TOTAL LOSSES | | |
| VOLTS AT | HV | 11000 | AT 50% RATED LOAD W | | 955 |
| NO LOAD | LV | 433 | MAX. TOTAL LOSSES | | |
| BIL | HV | 75kvp/28kvrms | AT 100% RATED LOAD W | | 2750 |
| | LV | -/3kvrms | TYPE OF COOLING | | ONAN |
| AMPERES | HV | 16.53 | TEMP RISE OIL DEG C | | 40 |
| | LV | 420 | TEMP RISE WDG DEG C | | 45 |
| FREQUENCY | | 50 Hz | MASS OF OIL KGS | | 410 |
| VECTOR GROUP REF. | | Dyn-11 | TOTAL MASS KGS | | 2230 |
| IMPEDANCE VOLT % | | 4.5% | VOL. OF OIL L | | 500 |
| TAPPING | | - | MONTH & YEAR OF MFG. | | SEP-2018 |
| | | | SERIAL NO. | | RPTPL-001 |

FOR HV VARIATION IN 2.5 STEP FROM +5% TO - 10 %

CUSTOMER -
ORDER NO. -

MADE IN INDIA




SIZE: 105x105 mm HOLE CENTER: 95x95 mm

Test Report No. RP-7879-026025
Date : 07/10/2018
Product : 315 KVA XIMER
Verified By :
Verification of this drawing by ERDA is limited to relevant dimensional checks only. Verified dimensions are marked with. *

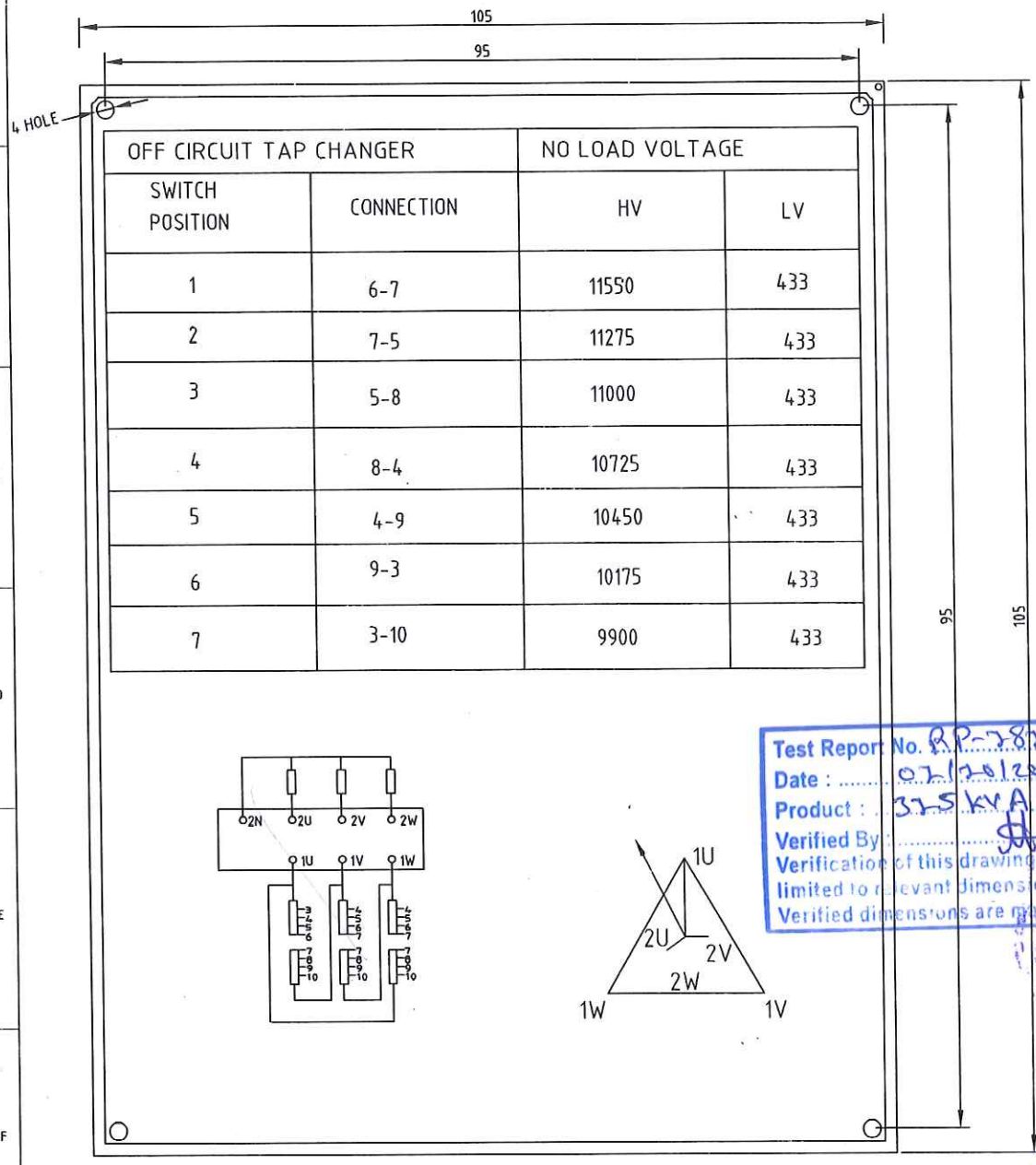
NOTE:
* YEAR OF MANUFACTURE & MONTH OF MANUFACTURE WILL BE PUNCHED AT THE TIME OF DESPATCH

RAJASTHAN POWERGEN TRANSFORMER PVT. LTD.
KAROLA BHIMAL ROAD, KAROLA, SANCHORE-343041

| | | | |
|---|---|---|---|
| | | 01 of 02 | DRN BY |
| | | | CHD BY |
| | | | APPD BY |

RATING & TERMINAL MARKING PLATE FOR 315 KVA ,11/0.433 KV DISTRIBUTION TRANSFORMER .3 PHASE, EFFICIENCY LEVEL-3

| REV. NO. | DATE SIGN | BRIEF DESCRIPTION | DRG. NO. | RPTPL-RP-315KVA-01/02-2018 | REV. NO. |
|---|---|---|---|---|---|




| OFF CIRCUIT TAP CHANGER | | NO LOAD VOLTAGE | |
|---|---|---|---|
| SWITCH POSITION | CONNECTION | HV | LV |
| 1 | 6-7 | 11550 | 433 |
| 2 | 7-5 | 11275 | 433 |
| 3 | 5-8 | 11000 | 433 |
| 4 | 8-4 | 10725 | 433 |
| 5 | 4-9 | 10450 | 433 |
| 6 | 9-3 | 10175 | 433 |
| 7 | 3-10 | 9900 | 433 |







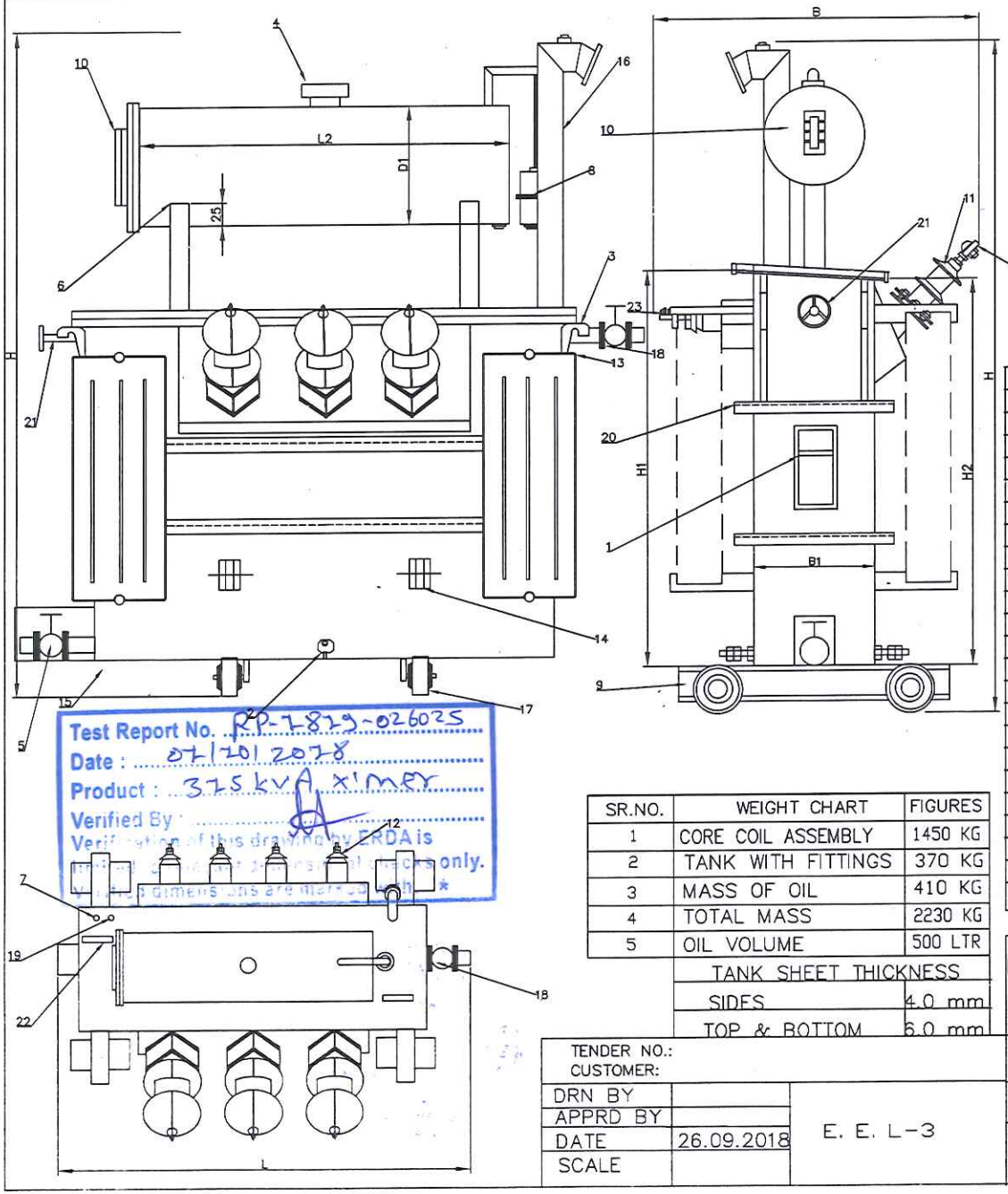
Test Report No. RP-7829-026025
Date : 07/20/2018
Product : 315 KVA x'mer
Verified By :
Verification of this drawing by ERDA is limited to relevant dimensional checks only.
Verified dimensions are marked with *


SIZE: 105x105 mm HOLE CENTER: 95x95 mm

NOTE:
* YEAR OF MANUFACTURE & MONTH OF MANUFACTURE WILL BE PUNCHED AT THE TIME OF DESPATCH

RAJASTHAN POWERGEN TRANSFORMER PVT. LTD.
KAROLA BHIMAL ROAD, KAROLA, SANCHORE-343041

| | | | | |
|---|---|---|---|---|
| | | 02 of 02 | DRN BY | RATING & TERMINAL MARKING PLATE FOR 315 KVA ,11/0.433 KV DISTRIBUTION TRANSFORMER 3 PHASE , EFFICIENCY LEVEL-3 |
| | | | CHD BY | |
| | | | APPD BY | |
| REV. NO. | DATE SIGN | BRIEF DESCRIPTION | DRG. NO. | RPTPL-RP-315KVA-02/02-2018 REV. NO. |




| ELECTRICAL CLEARANCE IN AIR IN mm MIN | | |
|---|---|---|
| CLEARANCE BETWEEN | HV | LV |
| PHASE TO PHASE | 255 | 75 |
| PHASE TO EARTH | 140 | 40 |

| DIMENSIONS IN mm | L1 | B1 | H1 | H2 | CONSERVATOR | |
|---|---|---|---|---|---|---|
| TANK(INSIDE) | 1120 | 470 | 1080 | 1060 | D1 | L2 |
| | L | B | H | | 330Ø | 660L |
| OVERALL * | 1700 | 1250 | 1950 | | | |

NOTE:

1. TOLERANCE ON WEIGHTS & DIMENSIONS +/− 10%

* Not Provided During Testing

| SR.NO. | DESCRIPTION | QTY. |
|---|---|---|
| 23 | BIMETALLIC CONNECTORS FOR HV & LV | 7 |
| 22 | COVER LIFTING EYES | 2 |
| 21 | OFF CIRCUIT TAP SWITCH | 1 |
| 20 | TANK REINFORCING ANGLE | 2 |
| 19 | AIR RELEASE PLUG | 1 |
| 18 | FILTER VALVE WITH PLUG (32 mm) | 1 |
| * 17 | UNI-DIRECTIONAL FLAT ROLLERS | 4 |
| 16 | EXPLOSION VENT | 1 |
| * 15 | METALLIC COVER FOR DRAIN VALVE | 1 |
| 14 | PULLING LUGS-8t | 4 |
| 13 | COOLING RADIATORS-800 c/c X 230 W X 3 FINS | 4 |
| 12 | LV BUSHINGS | 4 |
| 11 | HV BUSHING WITH ARCHING HORNS | 3 |
| 10 | OIL LEVEL GAUGE WITH MARKINGS | 1 |
| 9 | UNDER BASE CHANNELS | 2 |
| * 8 | SILICAGEL BREATHER - 1kg | 1 |
| 7 | THERMOMETER POCKET | 1 |
| 6 | CONSERVATOR WITH DRAIN PLUG | 1 |
| 5 | DRAIN VALVE WITH PLUG | 1 |
| 4 | OIL FILLING HOLE WITH CAP | 1 |
| 3 | LIFTING LUGS | 4 |
| 2 | EARTHING TERMINALS WITH LUGS | 2 |
| 1 | RATING & TERMINAL MARKING PLATE | 1 |

Test Report No. RP-7879-026025
Date : 07/20/2018
Product : 315 kVA X'MER
Verified By
Verification of this drawing by ERDA is only.
Others this are not to be ...

| SR.NO. | WEIGHT CHART | FIGURES |
|---|---|---|
| 1 | CORE COIL ASSEMBLY | 1450 KG |
| 2 | TANK WITH FITTINGS | 370 KG |
| 3 | MASS OF OIL | 410 KG |
| 4 | TOTAL MASS | 2230 KG |
| 5 | OIL VOLUME | 500 LTR |
| | TANK SHEET THICKNESS | |
| | SIDES | 4.0 mm |
| | TOP & BOTTOM | 6.0 mm |

RAJASTHAN POWERGEN TRANSFORMER PVT. LTD.
KAROLA BHIMAL ROAD, KAROLA, SANCHORE-343041

TENDER NO.:
CUSTOMER:

| | | |
|---|---|---|
| DRN BY | | E. E. L-3 |
| APPRD BY | | |
| DATE | 26.09.2018 | |
| SCALE | | |

# OUTLINE DRAWING

315 KVA, 11/0.433 KV CU WOUND DISTIN. T/FS.

RPTPL-OL-315KVA-02-2018

Industries Laboratory • H.V. Division • ERDA • Vadodara