

CPRI

TEST REPORT



Central Power Research Institute

(A Govt. of India Society)
P.B. No. 8066, Sadashivanagar P.O.,
Prof. Sir. C.V. Raman Road,
Bangalore - 560 080

CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)
TEST REPORT



Test Report Number : CPRI BLRHVD22T0179 **Date** : 04 April 2022

Name and Address of the customer : M/s. Lecon Energetics Pvt. Ltd.,
No.484, B&C, IV Phase, Rewdale Campus,
Opp. BMTC Depot No.9 or 22, Peenya Industrial Area,
Bangalore – 560 058, Karnataka.

Name and Address of the Manufacturer : M/s. Lecon Energetics Pvt. Ltd.,
No.484, B&C, IV Phase, Rewdale Campus,
Opp. BMTC Depot No.9 or 22, Peenya Industrial Area,
Bangalore – 560 058, Karnataka.

Particulars of samples tested

Type : Indoor.

Description of test sample : 11kV, 1250A VCB panel.

Serial Number : EW528/1/2022.

Number of samples tested : One.

Date(s) of test(s) : 11 March 2022.

CPRI sample code Number(s) : HVD22S0265.

Particulars of tests conducted : Refer sheet 3 of 6.

Test in accordance with Standard/Specification. : Refer sheet 3 of 6.

Sampling Plan : Not Applicable

Customer's requirement : Test Voltage is same for both open and close conditions.

Deviations if any : Nil.

Name of the witnessing persons : Mr. Phaneendra kumar.Y, Mr.K.Z.Meeran, Mr. Kasinath and Mr. Pushkar kulkarni.

Customer's representative : Mr. Phaneendra kumar.Y, Mr.K.Z.Meeran, Mr. Kasinath and Mr. Pushkar kulkarni.

Other than customer's representatives : None.

Test subcontracted with address of the laboratory : None.

Documents constituting this report(in words)

Number of Sheets : Six.

Number of Oscillogram(s) : Forty Four.

Number of Graph(s) : Nil.

Number of Photograph(s) : One.

Number of Test Circuit Diagram(s) : One.

Number of Drawing(s) : Three.

K. int
(K.Marimuthu)
Test Engineer



G. Pandian
(G.Pandian)
Head of Division
Reviewed and Authorized by

CENTRAL POWER RESEARCH INSTITUTE
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TEST REPORT



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Date: 04 April 2022

DESCRIPTION OF SAMPLE TESTED

(As assigned by the manufacturer)

Rated Voltage (kV)	:	11
Rated Current	:	1250 A
Number of phases	:	3
Rated Frequency	:	50Hz
Rated short time withstand current	:	40kA for 3s.

k. int
(K.Marimuthu)
Test Engineer

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SUMMARY OF TESTS CONDUCTED

1. Tests conducted : Type test.
2. Rating for which tested : 11kV, 1250A.
3. Schedule of tests

Sl.No.	Tests Conducted	Clause Numbers	Sheet
1	Lightning Impulse Voltage Test	7.2 of IEC 62271-200/2021-05	5 of 6

4. Oscillogram Numbers : Refer sheet 5 of 6.
5. Graph Numbers : Nil.
6. Photograph Numbers : P01
7. Test Circuit Diagram Numbers. : TCD01.

Drawing Numbers

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

Sl. No.	Drawing Number	Sheet Number	Revision Number
1	EW528/1/01	1 of 3	0
2	EW528/1/02	2 of 3	0
3	EW528/1/03	3 of 3	0

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.

K. int
(K.Marimuthu)
Test Engineer

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TEST RESULTS

Test Arrangement

Test Arrangement	Breaker Position	Source connected to	Earth connected to
1	Closed	Rr	Yy, Bb
2	Closed	Yy	Rr, Bb
3	Closed	Bb	Rr, Yy
4	Open	B	R,Y,r,y,b
5	Open	Y	R,B,r,y,b
6	Open	R	Y,B,r,y,b
7	Open	r	y,b,R,Y,B
8	Open	y	r,b,R,Y,B
9	Open	b	r,y,R,Y,B
10	Breaker withdrawn & Closed	ryb	RYB
11	Breaker withdrawn & Closed	RYB	ryb

Note: Test Arrangement from Sl. No. 1 to 11, Frame was earthed.

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TEST RESULTS

1) Lightning Impulse Voltage Test

Test Arrangement	Shot No.	Test Voltage kV(Peak)					
		Positive Polarity	Osc. No.	Remarks	Negative Polarity	Osc. No.	Remarks
1	1 st	75	1	Withstood	75	16	Withstood
	15 th	75	15	Withstood	75	30	Withstood
2	1 st	75	46	Withstood	75	31	Withstood
	15 th	75	60	Withstood	75	45	Withstood
3	1 st	75	61	Withstood	75	76	Withstood
	15 th	75	75	Withstood	75	90	Withstood
4	1 st	75	106	Withstood	75	91	Withstood
	15 th	75	120	Withstood	75	105	Withstood
5	1 st	75	121	Withstood	75	136	Withstood
	15 th	75	135	Withstood	75	150	Withstood
6	1 st	75	171	Withstood	76	151	Withstood
	15 th	75	185	Withstood	75	165	Withstood
7	1 st	75	186	Withstood	75	201	Withstood
	15 th	75	200	Withstood	75	215	Withstood
8	1 st	75	236	Withstood	76	216	Withstood
	15 th	75	250	Withstood	75	230	Withstood
9	1 st	75	251	Withstood	75	266	Withstood
	15 th	75	265	Withstood	75	280	Withstood
10	1 st	76	296	Withstood	75	281	Withstood
	15 th	75	310	Withstood	75	295	Withstood
11	1 st	76	316	Withstood	75	331	Withstood
	15 th	75	330	Withstood	75	345	Withstood

Ambient conditions during testing

Test Description	Temperature in Degree Celsius		Atmospheric Pressure in mBar
	Dry Bulb	Wet Bulb	
Lightning Impulse Voltage Test	25	21	910

Conclusion : The sample tested comply with the requirement of Clause 7.2 of IEC 62271-200/2021-05 for the test conducted.

K. Marimuthu
(K.Marimuthu)
Test Engineer

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NOTE

- a) The Test results relate only to the sample(s) tested.
- b) Publication or reproduction of this Test Report in any form other than by complete set of the whole Test Report and in the language written is not permitted without the written consent of CPRI.
- c) Any Corrections / erasure invalidate the Test Report.
- d) Any anomaly / discrepancy in the Test Report should be brought to notice of CPRI within 45 days from the date of issue.
- e) All documents constituting this Test Report are stitched together with a continuous silk thread, the two ends of which have been brought over the front sheet of this Test Report and sealed with a CPRI logo printed paper sticker.
- f) NABL has accredited this laboratory as per ISO/IEC 17025: 2017, vide Certificate no.TC-5452 for the tests carried out.



TC-5452

k. int
(K.Marimuthu)
Test Engineer

-----End of Test Report-----

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Test Report Number: CPRIBLRHVD22T0179

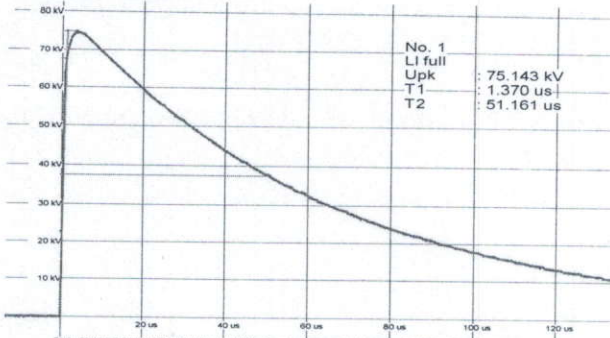
Date: 04 April 2022

TEST RESULTS



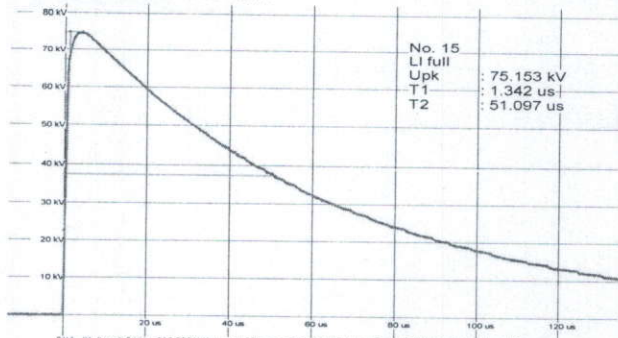
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HV/LECON / 1250A / VCB CH: 1



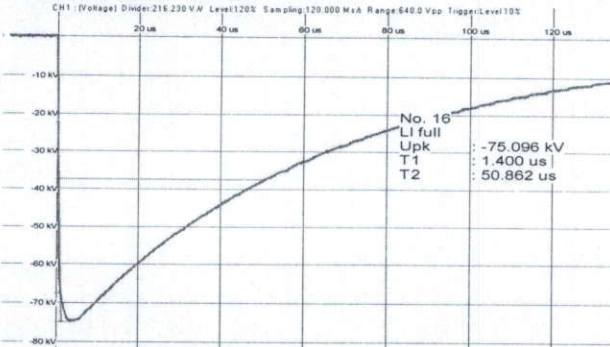
No. 1 LI full Upk: 75.143 kV T1: 1.370 us T2: 51.161 us

HV/LECON / 1250A / VCB CH: 1



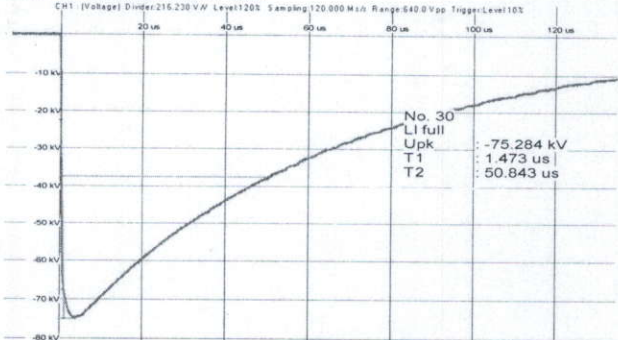
No. 15 LI full Upk: 75.153 kV T1: 1.342 us T2: 51.097 us

HV/LECON / 1250A / VCB CH: 1



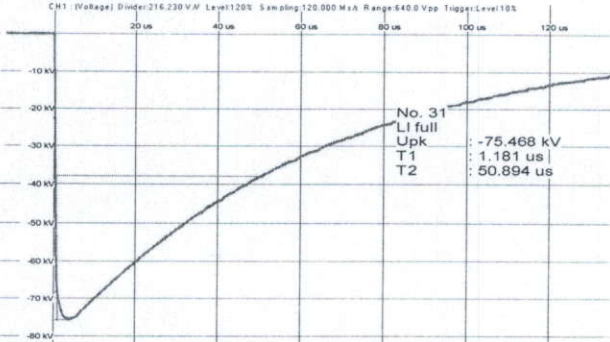
No. 16 LI full Upk: -75.096 kV T1: 1.400 us T2: 50.862 us

HV/LECON / 1250A / VCB CH: 1



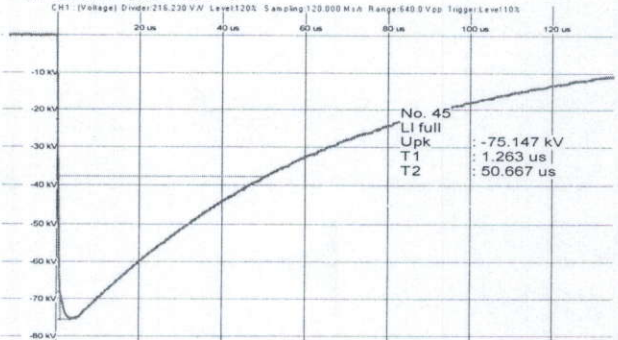
No. 30 LI full Upk: -75.284 kV T1: 1.473 us T2: 50.843 us

HV/LECON / 1250A / VCB CH: 1



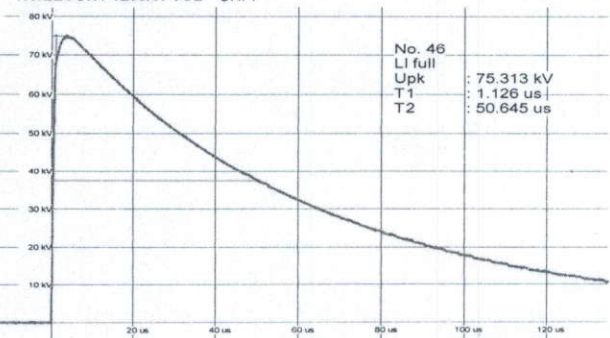
No. 31 LI full Upk: -75.468 kV T1: 1.181 us T2: 50.894 us

HV/LECON / 1250A / VCB CH: 1



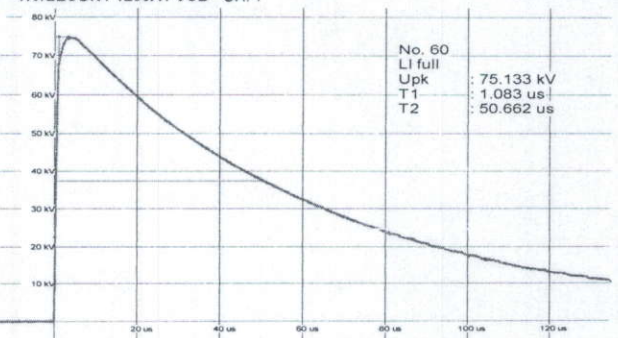
No. 45 LI full Upk: -75.147 kV T1: 1.263 us T2: 50.667 us

HV/LECON / 1250A / VCB CH: 1



No. 46 LI full Upk: 75.313 kV T1: 1.126 us T2: 50.645 us

HV/LECON / 1250A / VCB CH: 1



No. 60 LI full Upk: 75.133 kV T1: 1.083 us T2: 50.662 us

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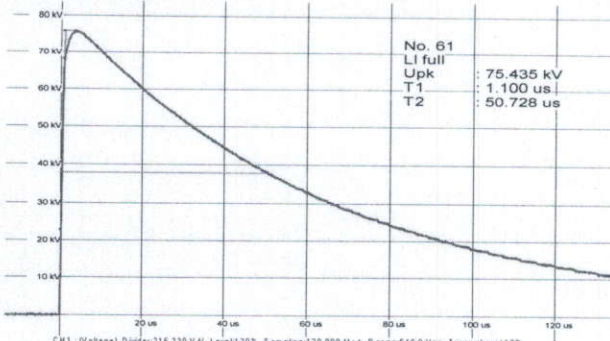
Date: 04 April 2022

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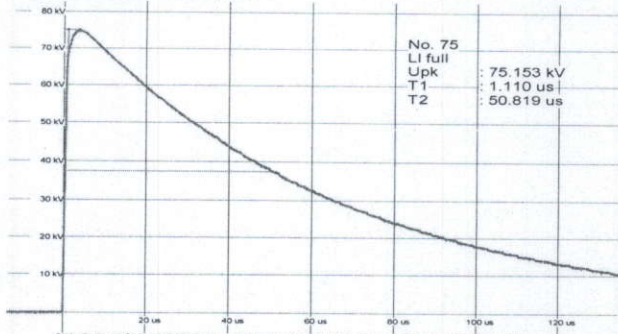
CPRI

HV/LECON / 1250A / VCB CH: 1



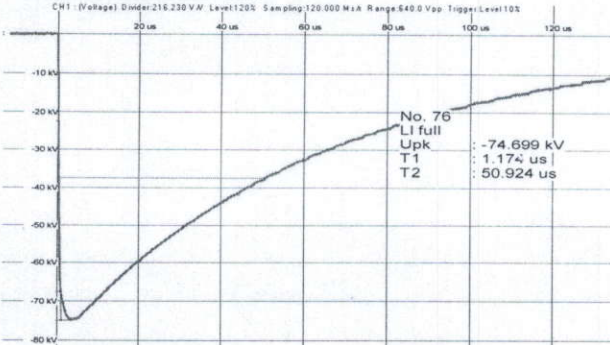
No. 61 LI full Upk: 75.435 kV T1: 1.100 us T2: 50.728 us

HV/LECON / 1250A / VCB CH: 1



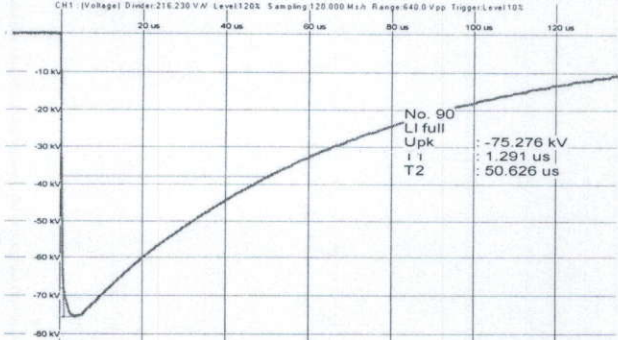
No. 75 LI full Upk: 75.153 kV T1: 1.110 us T2: 50.819 us

HV/LECON / 1250A / VCB CH: 1



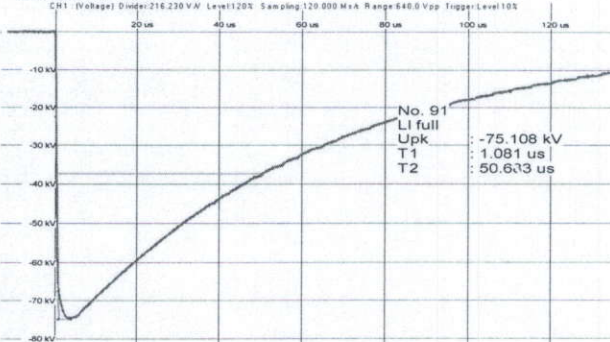
No. 76 LI full Upk: -74.699 kV T1: 1.174 us T2: 50.924 us

HV/LECON / 1250A / VCB CH: 1



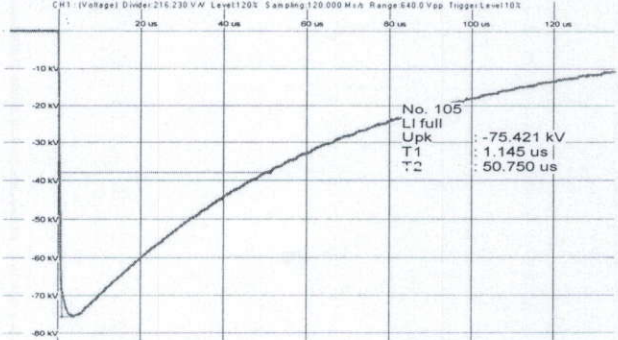
No. 90 LI full Upk: -75.276 kV T1: 1.291 us T2: 50.626 us

HV/LECON / 1250A / VCB CH: 1



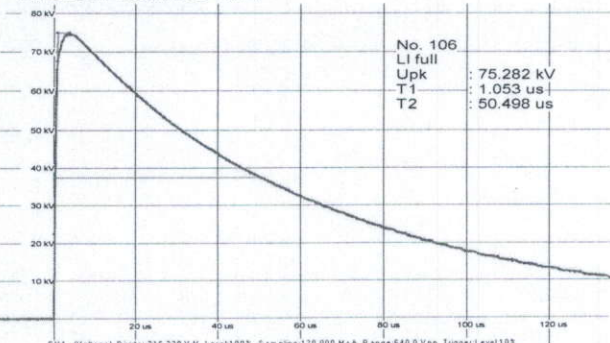
No. 91 LI full Upk: -75.108 kV T1: 1.081 us T2: 50.683 us

HV/LECON / 1250A / VCB CH: 1



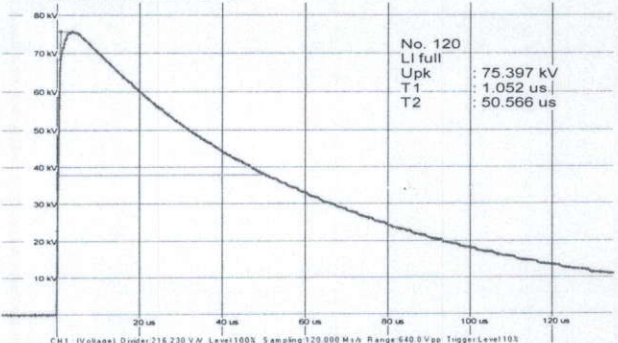
No. 105 LI full Upk: -75.421 kV T1: 1.145 us T2: 50.750 us

HV/LECON / 1250A / VCB CH: 1



No. 106 LI full Upk: 75.282 kV T1: 1.053 us T2: 50.498 us

HV/LECON / 1250A / VCB CH: 1



No. 120 LI full Upk: 75.397 kV T1: 1.052 us T2: 50.566 us

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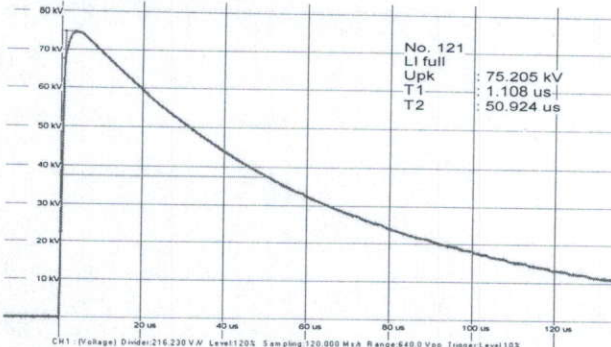
Test Report Number: CPRIBLRHVD22T0179

Date: 04 April 2022

TEST RESULTS

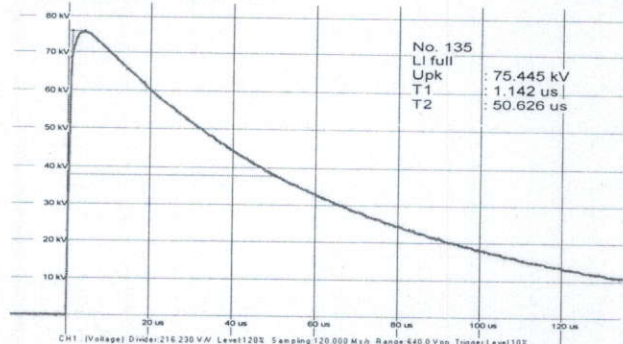


HV/LECON / 1250A / VCB CH: 1



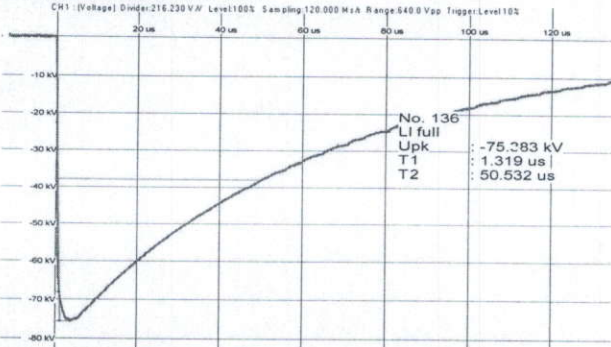
No. 121 LI full Upk: 75.205 kV T1: 1.108 us T2: 50.924 us

HV/LECON / 1250A / VCB CH: 1



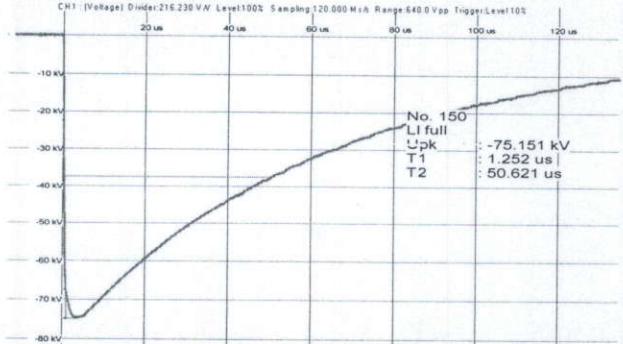
No. 135 LI full Upk: 75.445 kV T1: 1.142 us T2: 50.626 us

HV/LECON / 1250A / VCB CH: 1



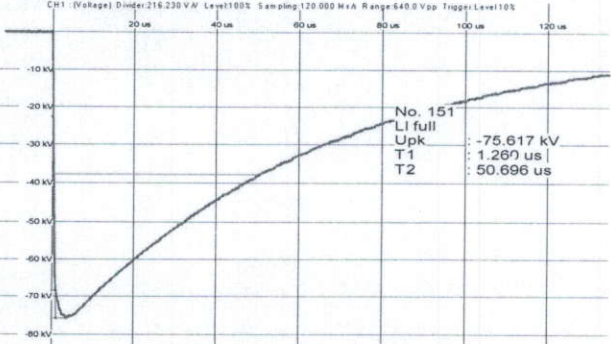
No. 136 LI full Upk: -75.383 kV T1: 1.319 us T2: 50.532 us

HV/LECON / 1250A / VCB CH: 1



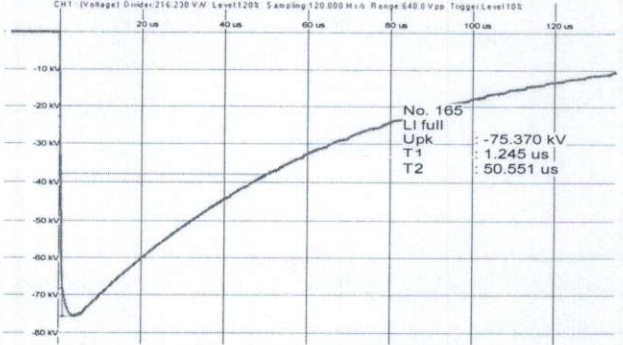
No. 150 LI full Upk: -75.151 kV T1: 1.252 us T2: 50.621 us

HV/LECON / 1250A / VCB CH: 1



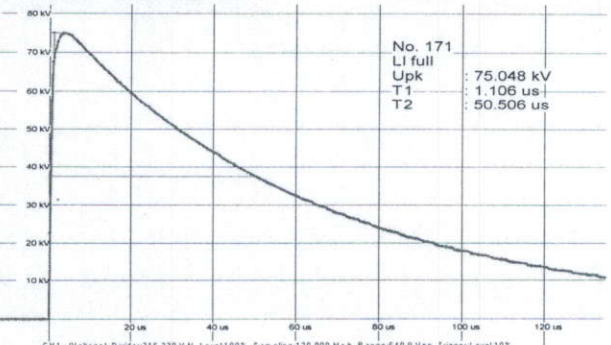
No. 151 LI full Upk: -75.617 kV T1: 1.260 us T2: 50.696 us

HV/LECON / 1250A / VCB CH: 1



No. 165 LI full Upk: -75.370 kV T1: 1.245 us T2: 50.551 us

HV/LECON / 1250A / VCB CH: 1



No. 171 LI full Upk: 75.048 kV T1: 1.106 us T2: 50.506 us

HV/LECON / 1250A / VCB CH: 1



No. 185 LI full Upk: 75.225 kV T1: 1.200 us T2: 50.770 us

K. Marimuthu
(K. Marimuthu)
Test Engineer

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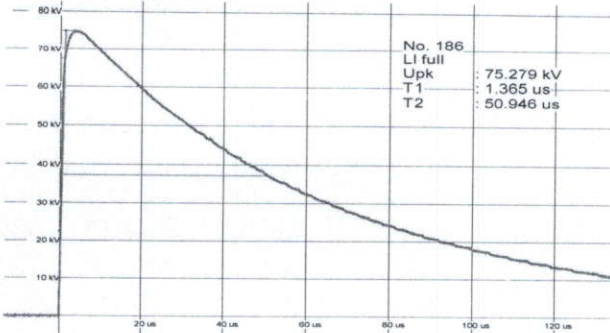
Test Report Number: CPRIBLRHVD22T0179

Date: 04 April 2022

TEST RESULTS

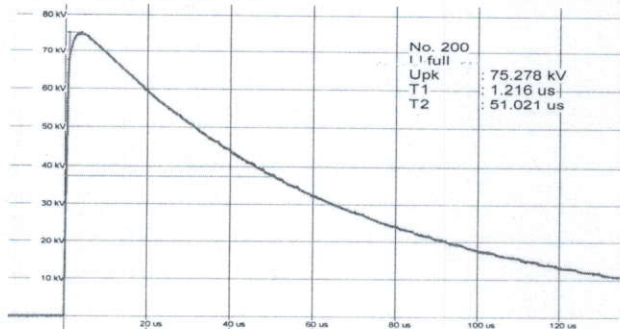


HV/LECON / 1250A / VCB CH: 1



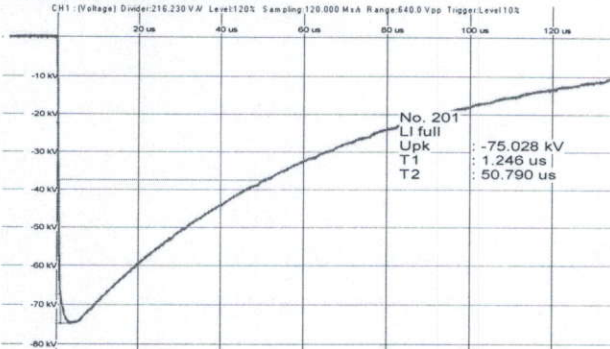
No. 186 LI full Upk: 75.279 kV T1: 1.365 us T2: 50.946 us

HV/LECON / 1250A / VCB CH: 1



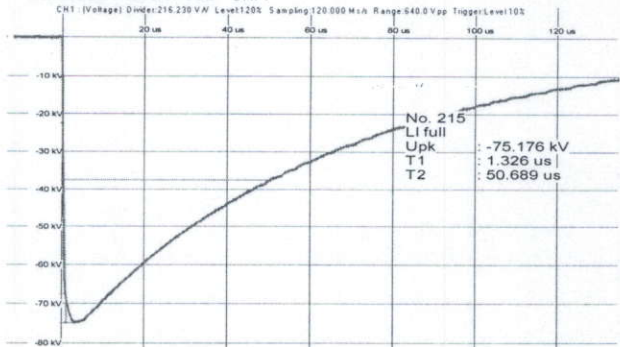
No. 200 LI full Upk: 75.278 kV T1: 1.216 us T2: 51.021 us

HV/LECON / 1250A / VCB CH: 1



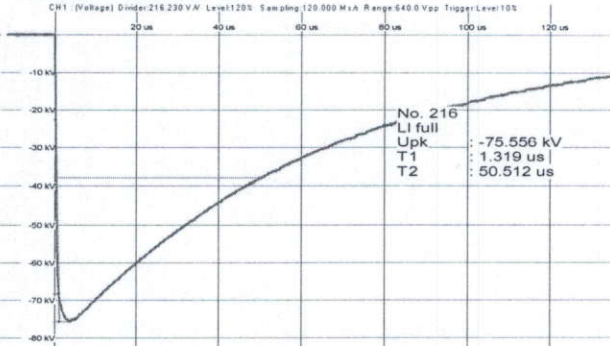
No. 201 LI full Upk: -75.028 kV T1: 1.246 us T2: 50.790 us

HV/LECON / 1250A / VCB CH: 1



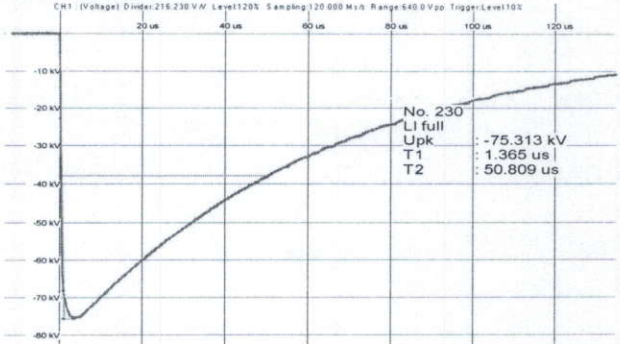
No. 215 LI full Upk: -75.176 kV T1: 1.326 us T2: 50.689 us

HV/LECON / 1250A / VCB CH: 1



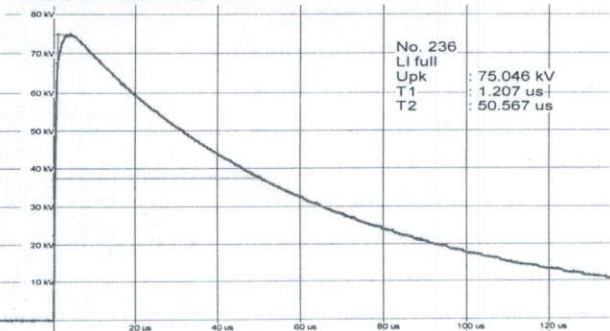
No. 216 LI full Upk: -75.556 kV T1: 1.319 us T2: 50.512 us

HV/LECON / 1250A / VCB CH: 1



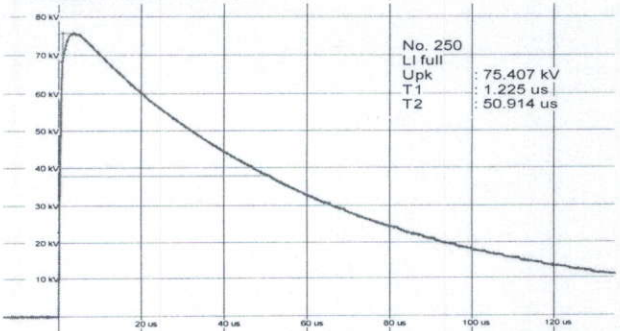
No. 230 LI full Upk: -75.313 kV T1: 1.365 us T2: 50.809 us

HV/LECON / 1250A / VCB CH: 1



No. 236 LI full Upk: 75.046 kV T1: 1.207 us T2: 50.567 us

HV/LECON / 1250A / VCB CH: 1



No. 250 LI full Upk: 75.407 kV T1: 1.225 us T2: 50.914 us

k. int
(K.Marimuthu)
Test Engineer

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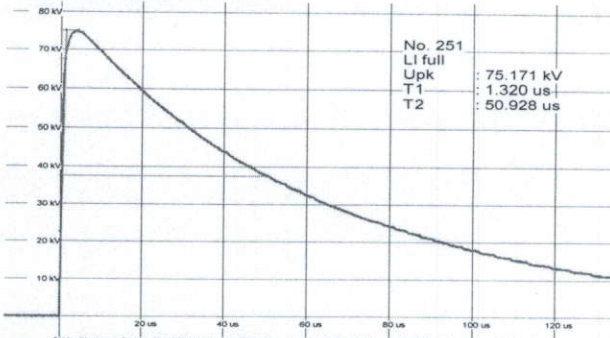
Test Report Number: CPRIBLRHVD22T0179

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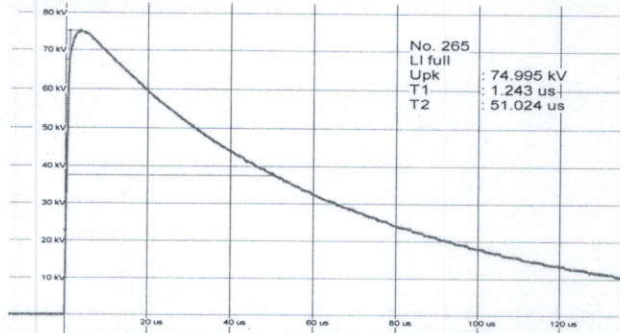
HV/LECON / 1250A / VCB CH: 1



CH1 : (Voltage) Divider:216.230 V/V Level:100% Sampling:120.000 Ms/s Range:640.0 Vpp Trigger:Level:10%

No. 251 LI full Upk: 75.171 kV T1: 1.320 us T2: 50.928 us

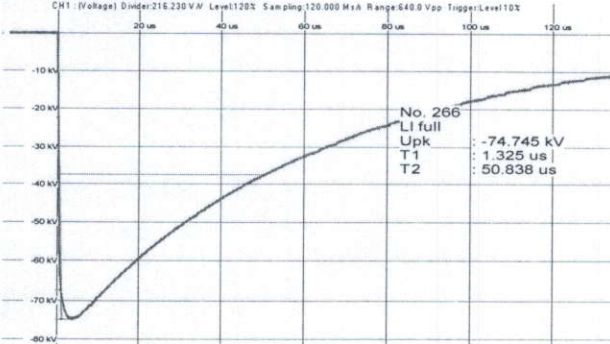
HV/LECON / 1250A / VCB CH: 1



CH1 : (Voltage) Divider:216.230 V/V Level:100% Sampling:120.000 Ms/s Range:640.0 Vpp Trigger:Level:10%

No. 265 LI full Upk: 74.995 kV T1: 1.243 us T2: 51.024 us

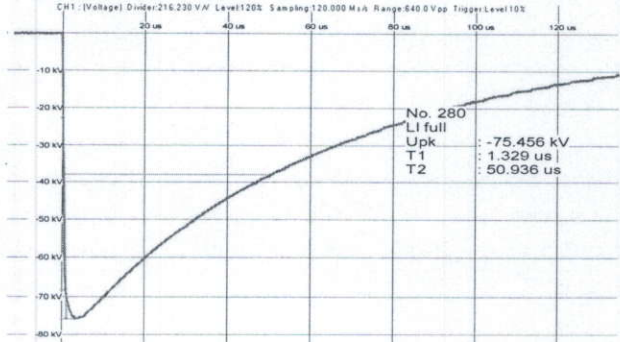
HV/LECON / 1250A / VCB CH: 1



CH1 : (Voltage) Divider:216.230 V/V Level:100% Sampling:120.000 Ms/s Range:640.0 Vpp Trigger:Level:10%

No. 266 LI full Upk: -74.745 kV T1: 1.325 us T2: 50.838 us

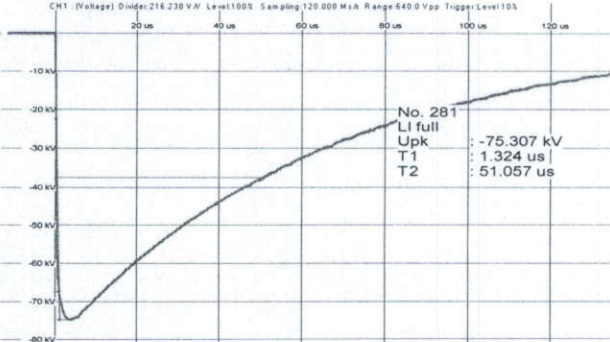
HV/LECON / 1250A / VCB CH: 1



CH1 : (Voltage) Divider:216.230 V/V Level:100% Sampling:120.000 Ms/s Range:640.0 Vpp Trigger:Level:10%

No. 280 LI full Upk: -75.456 kV T1: 1.329 us T2: 50.936 us

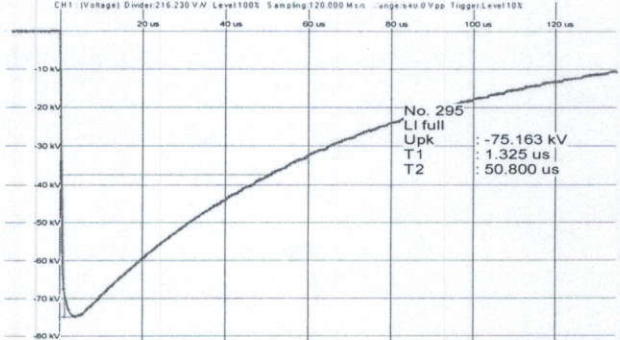
HV/LECON / 1250A / VCB CH: 1



CH1 : (Voltage) Divider:216.230 V/V Level:100% Sampling:120.000 Ms/s Range:640.0 Vpp Trigger:Level:10%

No. 281 LI full Upk: -75.307 kV T1: 1.324 us T2: 51.057 us

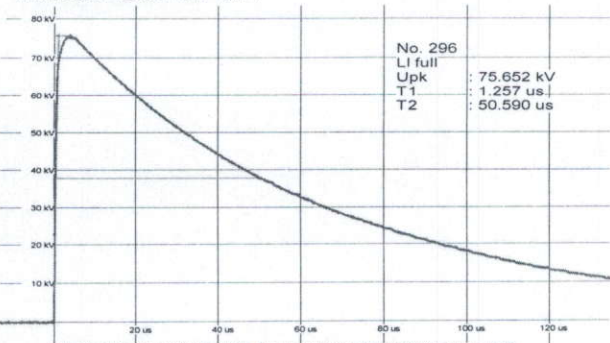
HV/LECON / 1250A / VCB CH: 1



CH1 : (Voltage) Divider:216.230 V/V Level:100% Sampling:120.000 Ms/s Range:640.0 Vpp Trigger:Level:10%

No. 295 LI full Upk: -75.163 kV T1: 1.325 us T2: 50.800 us

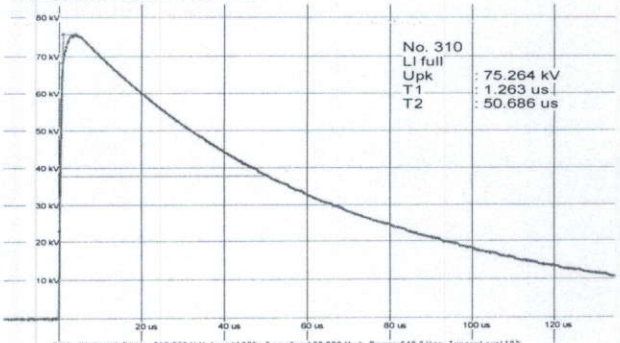
HV/LECON / 1250A / VCB CH: 1



CH1 : (Voltage) Divider:216.230 V/V Level:100% Sampling:120.000 Ms/s Range:640.0 Vpp Trigger:Level:10%

No. 296 LI full Upk: 75.652 kV T1: 1.257 us T2: 50.590 us

HV/LECON / 1250A / VCB CH: 1



CH1 : (Voltage) Divider:216.230 V/V Level:100% Sampling:120.000 Ms/s Range:640.0 Vpp Trigger:Level:10%

No. 310 LI full Upk: 75.264 kV T1: 1.263 us T2: 50.686 us

K. Marimuthu
(K. Marimuthu)
Test Engineer

CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)

Test Report Number: CPRIBLRHVD22T0179

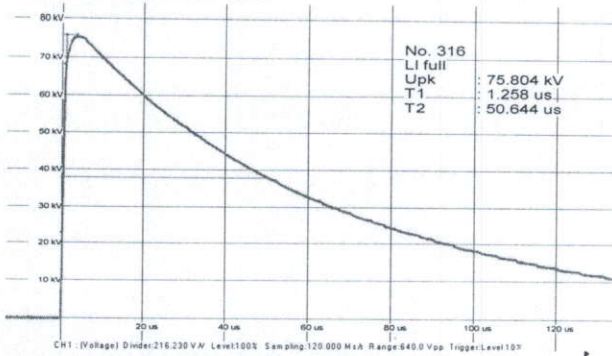
Date: 04 April 2022

TEST RESULTS



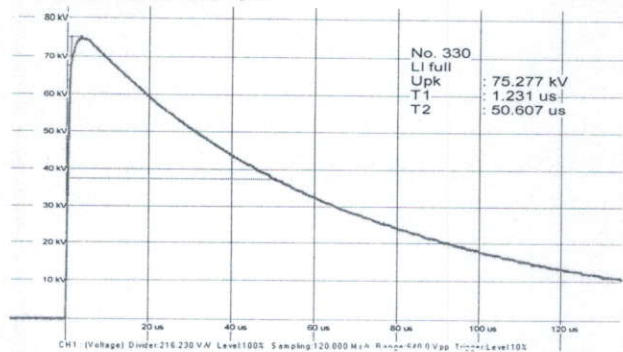
CPRI

HV/LECON / 1250A / VCB CH: 1



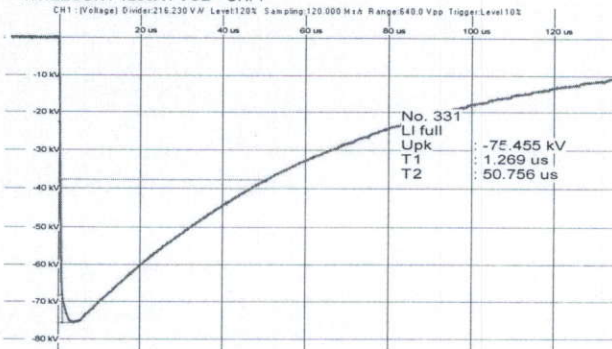
No. 316 LI full Upk: 75.804 kV T1: 1.258 us T2: 50.644 us

HV/LECON / 1250A / VCB CH: 1



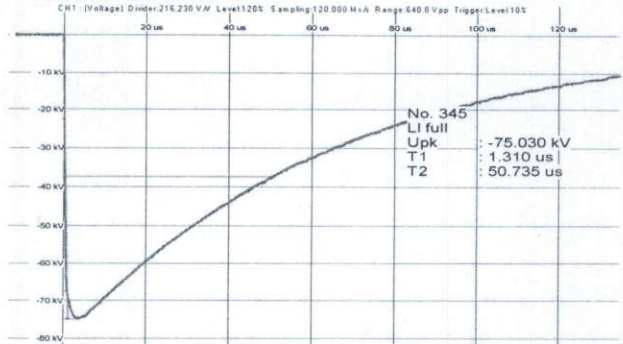
No. 330 LI full Upk: 75.277 kV T1: 1.231 us T2: 50.607 us

HV/LECON / 1250A / VCB CH: 1



No. 331 LI full Upk: -75.455 kV T1: 1.269 us T2: 50.756 us

HV/LECON / 1250A / VCB CH: 1



No. 345 LI full Upk: -75.030 kV T1: 1.310 us T2: 50.735 us

k.uit
(K.Marimuthu)
Test Engineer

CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)
TEST REPORT



CPRI

Test Report Number: CPRIBLRHVD22T0179

Date: 04 April 2022



Photograph Number: P01 (Test sample)

k. int
(K. Marimuthu)
Test Engineer

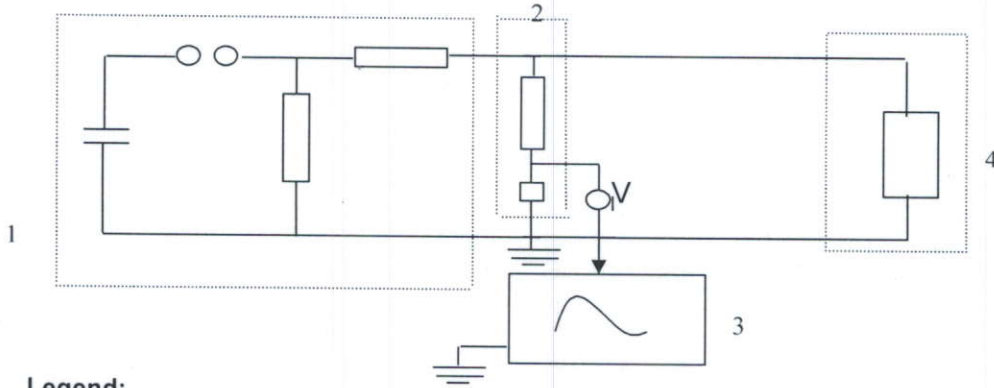
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(Member of STL)
TEST REPORT



Test Report Number: CPRIBLRHVD22T0179

Date: 04 April 2022

Test Circuit for Impulse Voltage Test.



Legend:

1. Impulse voltage generator
 2. Impulse voltage divider
 3. Digital recorder for measurement of voltage
 4. Test object
- V - Voltage

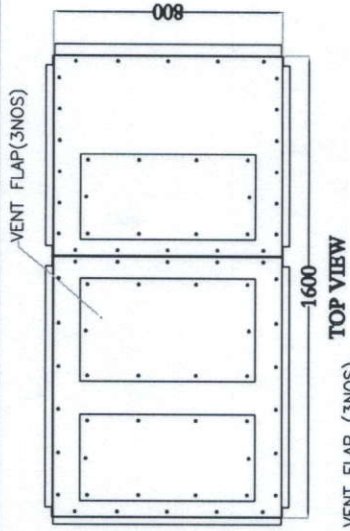
Test Circuit Diagram Number: TCD01.

k. marimuthu
(K. Marimuthu)
Test Engineer

IF IN DOUBT, ASK

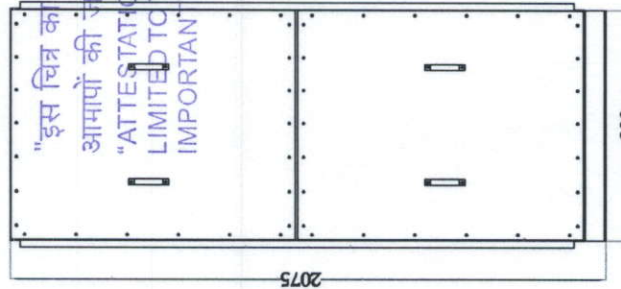
Note: All Dimensions are in mm
& Tolerance $\pm 5\text{mm}$

इस रेखाचित्र परीक्षण दस्तावेज
सं. सीपीआईबीएलआरवीडी22टीसे संबंधित है।
THIS DRAWING PERTAINS TO TEST REPORT
No. CPRI BLR HVD22T-0179
Date.....04 April 2022

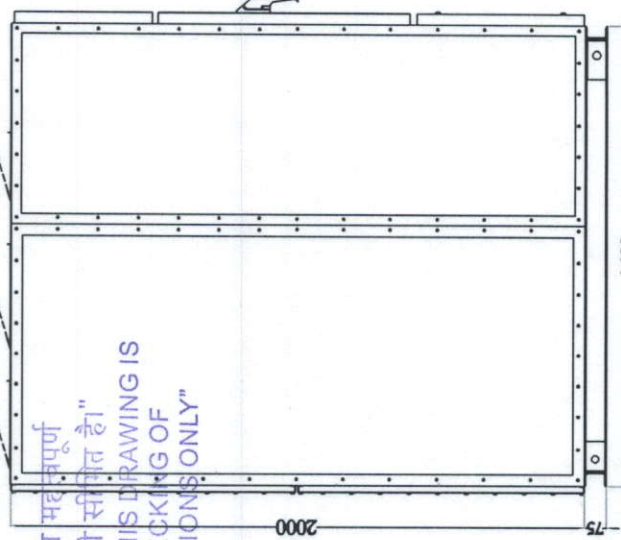


TOP VIEW

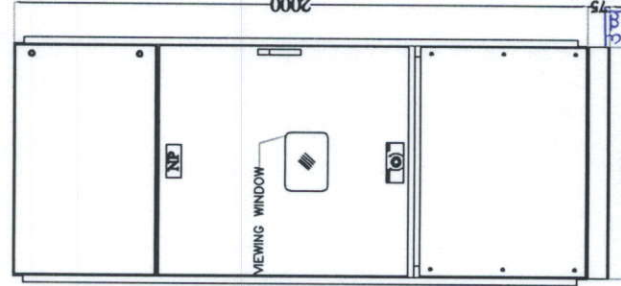
"इस चित्र को साक्ष्यांकन महत्वपूर्ण
आमोनों की जाँच तक ही सीमित है।"
"ATTESTATION OF THIS DRAWING IS
LIMITED TO THE CHECKING OF
IMPORTANT DIMENSIONS ONLY"



REAR VIEW



SIDE VIEW



FRONT VIEW

परीक्षण अभियंता / TEST ENGINEER
उच्च वोल्टता प्रभाग / HIGH VOLTAGE DIVISION
सी पी आर आई / CPRI
बंगलूरु / BANGALORE - 560 080

K. int



TITLE: GENERAL ARRANGEMENT FOR
11KV, 1250 AMPS, 40KA FOR 3SEC VCB PANEL

W.O.NO: EW528/1/2022

DATE: 10.03.2022
MODEL NO:
VCB PANEL 11KV-40KA3-1250A

DRG.NO: EW528/1/01

QMS/DES/FORM/06

SCALE: NTS

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LECON ENERGETICS

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Senya Industrial Area, Bangalore - 560058, Karnataka,
E MAIL ID sales@leconsystem.com, leconeng@gmail.com
PH.NO.9449041220, WEB SITE: www.leconenergetics.com

SHEET 1 OF 3
REV 0

IN DOUBT, ASK

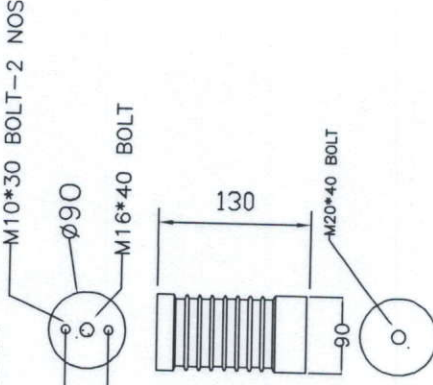
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सी पी आर आई / CPRI
बैंगलूर / BANGALORE - 560 080

इस रेखाचित्र परीक्षण दस्तावेज

से सीपीआरआई बैंगलूर से संबंधित है।
THIS DRAWING PERTAINS TO TEST REPORT
NO. CPRI/BLR/HVD22T-0179
Date: 04 April 2022

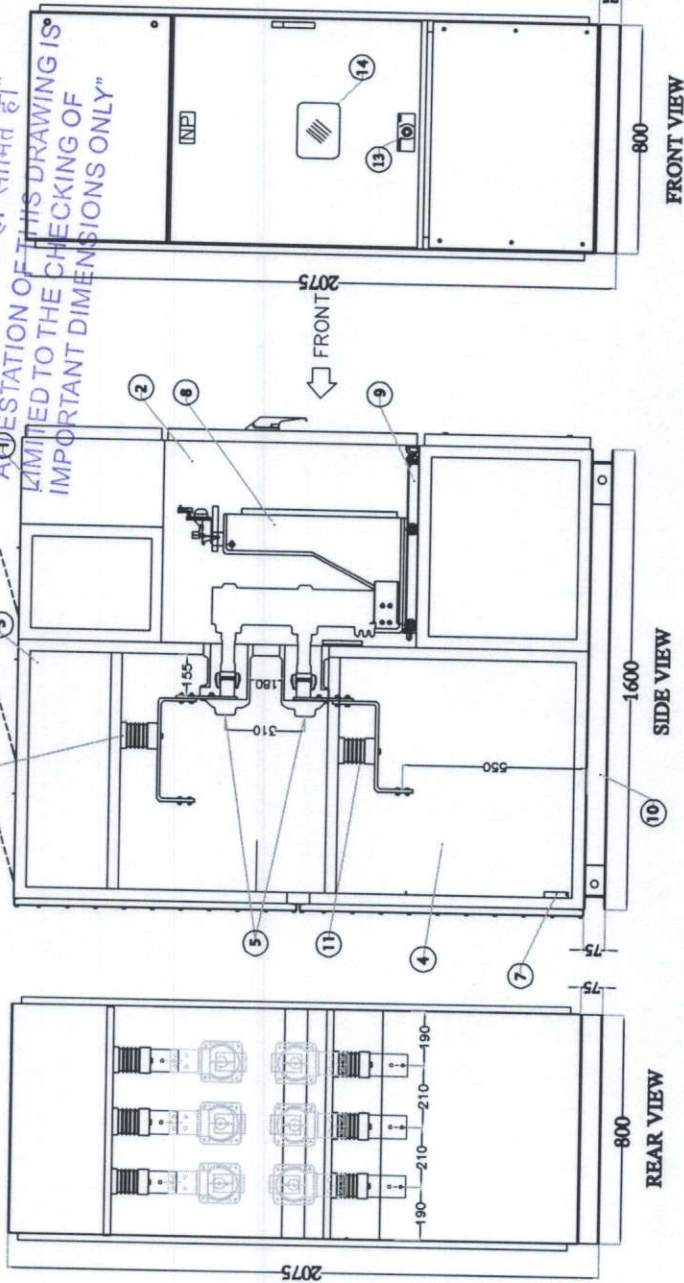
"इस चित्र का साक्ष्यांकन महत्वपूर्ण
आमकों की जाँच तक ही सीमित है।"
"ESTIMATION OF THIS DRAWING IS
LIMITED TO THE CHECKING OF
IMPORTANT DIMENSIONS ONLY"

Note: All Dimensions are in mm
& Tolerance: ± 5 mm



BUS BAR SUPPORT EPOXY INSULATOR

SL.NO	DESCRIPTION
01	METERING CHAMBER
02	BREAKER CHAMBER
03	BUSBAR CHAMBER
04	CABLE CHAMBER
05	EPDXY BUSHINGS (R.Y.B)
06	EPDXY INSULATORS $\phi 95 \times 130$
07	MAIN EARTHING-IRx40x05CU
08	VCB
09	RACKING MECHANISM
10	BASE FRAME
11	INCOMING BUSBAR: SIZE-IRx80x10CU (CURRENT INJECTING POINT)
12	VENT FLAPS (3 NOS)
13	PROVISION FOR BREAKER RACK IN DUT
14	VIEWING WINDOW



TITLE: GENERAL ARRANGEMENT FOR
11KV, 1250 AMPS, 40KA FOR 3SEC VCB PANEL

DATE: 10.03.2022
MODEL NO: VCB PANEL 11KV-40KA3-1250A

QMS/DSS/FORM/06 SCALE: NTS

W.O.NO: EW528/1/2022

DRG.NO: EW528/1/02

DRN Phaneendra
DGN Phaneendra
CHD Phaneendra
APP M.A.Kulkarni



No.484 B&C, IV Phase, Opp. BMTC Depot No.9
Peenya Industrial Area, Bangalore - 560058, Karnataka,
E-MAIL ID sales@leconsystem.com, lecongm@gmail.com
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SHEET REV
2 OF 3 0

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

Note: All Dimensions are in mm
& Tolerance $\pm 5\text{mm}$

LECON ENERGETICS PVT LTD

MODEL NO: VCB PANEL-11KV-40KA3-1250A

PRODUCT DESCRIPTION : VCB PANEL

RATING

: 11KV, 1250 AMPS, 40KA3, 50Hz

WORKS NO

: EW528/1/2022

Mfd by:

LECON ENERGETICS PVT LTD

No.484B&C, IV Phase, Opp. BMTC Depot No.9, Peenya Industrial Area, Bangalore - 560058, Karnataka

E'MAIL ID sales@leconsystem.com, lecongmg@gmail.com, PH.NO.9449041220. WEB SITE: www.leconenergetics.com

Name Plate

SPECIFICATIONS: All Dimensions are in mm

1. Frame structure: 2 mm thickness
2. All Doors: 2MM thk, Back and side doors are removable & base arrangement with ISMC 75*40*5 Channel, Handles are provided for back doors
3. Paint shade: #RAL 7032, as per IS 5.
4. Power cable entry from bottom through 3mm thickness Aluminum Gland plate
5. Protection: IP54
6. Clearance from the rare ends Required 1000mm
7. Bus bar termination - 80X10 CU.
8. Earthing Busbar - 40X5 CU.
9. Weight @ 700 kgs (approximately)
10. Overall dimensional Tolerance: $\pm 5\text{mm}$

परीक्षण अभियंता / TEST ENGINEER
उच्च वोल्टता प्रभाग / HIGH VOLTAGE DIVISION
सी पी आर आई / CPRI
बेंगलूर / BANGALORE - 560 080

इस रेखाचित्र परीक्षण दस्तावेज

सं. सीपीआरआईएलआएवीडीटी

THIS DRAWING PERTAINS TO TEST REPORT

No. CPRI/LR/HVD/2021.01.7.3

Date: 04 April 2022

TITLE: GENERAL ARRANGEMENT FOR
11KV, 1250 AMPS, 40KA FOR 3SEC VCB PANEL

DATE: 10.02.2022

MODEL NO:

VCB PANEL 11KV-40KA3-1250A

QMS/DSE/FORM/06

SCALE: NTS

DRN Phancendra
DGN Phancendra
CHD Phancendra
APP M.A.Kulkarni

W.O.NO: EW528/1/2022

DRG.NO: EW528/1/03



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SHEET REV
3 OF 3 0