केन्द्रीय विद्युत अनुसंधान संस्थान
(भारत सरकार की सोसाइटी, विद्युत मंत्रालय)
प्रो सर सी. वी. रामन रोड़, सदाशिवनगर डाक घर, पो. बा. सं. 8066, बेंगलूर - 560 080
CENTRAL POWER RESEARCH INSTITUTE
(A Govt of India Society under Min. of Power)
Prof. Sir C.V. Raman Road, Sadashivanagar P.O., P.B. No. 8066, Bangalore - 560 080, India
वेबसाइट/website : http://www.cpri.in

तीव्र डाक द्वारा
BY SPEED POST

Telefax: 080-23604435
E-mail: mallik@cpri.in

DIAGNOSTIC, CABLES & CAPACITORS DIVISION

CABLES LAB

2/1/DCCD/CAB/2015-16 Date: 23.12.2015

M/s. GALA SHRINK FIT,
15, ABCD, Govt. Industrial Estate,
Charkop, Kandivali (W) ,
MUMBAI - 400 067.

Dear Sir,

Sub: - Testing of Heat Shrinkbale Joints and Terminations.
Ref :- Customer request dated 02.12.2015.

- - -

With reference to the above subject, the tests on the Transformer have been completed and our Test Report Nos. DCCD-14957 dated 23.12.2015 is enclosed.

In order to prevent tampering of test report, CPRI has introduced hologram on the first page of the test report with effect from 01.10.2007.

Any discrepancy in these test reports may be brought to notice with in forty five days from the date of issue of test reports. Please acknowledge the receipt of the test report.

Thanking you,
Yours faithfully,

(K.Mallikarjunappa)
Joint Director

CENTRAL POWER RESEARCH INSTITUTE

CPRI

TEST REPORT

Test Report Number	: DCCD-14957 Date :23.12.2015
Name & Address of the Customer	: M/s. Gala Shrink Fit, 15, ABCD, Govt. Industrial Estate, Charkop, Kandivali (W) , Mumbai-400 067.
Name & Address of the Manufacture	: M/s. Gala Shrink Fit, Unit -2, Plot No. 5 to 9, Palghar,Manor Road, Chahade Village, Taluka:Palghar, Dist : Palghar-401404.Maharashtra.
Particulars of sample tested	: 19/33(36) kV Heat Shrinkable Indoor termination, Outdoor termination and Straight through joint mounted on 3 X 240 mm^2 19/33(36) kV XLPE Cable
Condition of the sample on receipt	: New
Type	: 'GALA SHRINK FIT " CABLINK" Indoor termination, Outdoor termination and Straight through joint
Designation	: **Cable -** 3 X 240 sq.mm, Aluminium conductor, XLPE insulated, PVC Sheathed Galvanised steel Formed wire armoured 19/33 KV Cable
	: **Accessories (In One loop):** No. of joints : One Type : Heat Shrinkable straight through No. of terminations : One Indoor & One Outdoor Type : Heat Shrinkable Voltage Rating : 19/33 KV One loop with One straight through joint One Indoor termination & One Outdoor termination
Serial Number	: Nil
Number of Samples tested	: One loop
Date(s) of Test(s)	: 03.12.2015 to 22.12.2015
CPRI Sample Code no(s)	: DCCDCAB15S0217
Particulars of test conducted	: Type Test (Sequence 1.3/2.3)
Test in accordance with Standard /Specification	: As per IEC 60502-4- 2010, sequence 1.3 & 2.3
Sampling plan	: Not Applicable
Customer's requirement	: Nil
Deviation if any	: Nil

(Thirumurthy)
Test Engineer

(K.Mallikarjunappa)
Joint Director

CENTRAL POWER RESEARCH INSTITUTE

CPRI

TEST REPORT

Test Report No.:DCCD-14957 **Date:23.12.2015**

Name of the witnessing persons

Customer's representatives :None
Other than customer's representatives : None.

Test subcontracted with address
of the laboratory : Nil

Documents constituting this Certificate (in words)

Number of sheets : Five + One Report of four Pages
Number of oscillogram/s : Twelve (Two Pages)
Number of graphs : Nil
Number of photos : Nil
Number of test circuit diagrams : Nil
Number of drawings : Three Drg.No.1: GTSPL/005/11/11
Drg.No.2: GTSPL/004/11/11
Drg.No.3: GTSPL/006/11/11

(Thirumurthy)
Test Engineer

(K.Mallikarjunappa)
Joint Director

DIAGNOSTIC, CABLES & CAPACITORS DIVISION
P.B.NO.8066, SADASHIVANAGAR P.O
PROF.SIR.C.V.RAMAN ROAD,BANGALORE - 560 080, INDIA
Tele/Fax: +91 (0) 80-2360 4435

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TEST REPORT

Test Report No.:DCCD-14957 **Date:23.12.2015**

TEST RESULTS

1. AC HIGH VOLTAGE TEST (Dry):

a) Test connection : Between test core and other cores shorted to grounded shield and armour
b) Test Voltage : 85.5 kV ac
c) Duration of test : Five Minutes
d) Ambient Temperature : 28 °C
e) Length ofSample : 9.60 metres
f) Result :

Sl. No.	Core Identification	Remarks
1.	Red	WITHSTOOD
2.	Yellow	WITHSTOOD
3.	Blue	WITHSTOOD

2. DC HIGH VOLTAGE TEST (Dry):

a) Test connection : Between test core and other cores shorted to grounded shield and armour
b) Test Voltage : 76 kV dc
c) Duration of test : Fifteen Minutes
d) Amblent Temperature : 28 °C
e) Length of Sample : 9.60 metres
f) Result :

Sl. No.	Core Identification	Remarks
1.	Red	WITHSTOOD
2.	Yellow	WITHSTOOD
3.	Blue	WITHSTOOD

3. .Thermal & Dynamic Short circuit Test through conductor

As per Short circuit Test Report No.SC15658A Dated 10.12.2015 (Enclosed)

4. IMPULSE WITHSTAND TEST :

Ambient Conditions:

Dry Temperature(Deg. C)	Wet Temperature(Deg. C)	Atmospheric Pressure (mm of Hg)
28.0	25.0	683.0

Test Connection	The impulse source was connected to the conductor of the particular phase (ends shorted) under test and the screen connected to ground. The conductors of the other two phases which were not under test were shorted together with their screen and connected to ground.

(Thirumurthy)
TEST ENGINEER

DIAGNOSTIC, CABLES & CAPACITORS DIVISION
P.B.NO.8066, SADASHIVANAGAR P.O
PROF.SIR.C.V.RAMAN ROAD,BANGALORE - 560 080, INDIA
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CPRI

TEST REPORT

Test Report No.:DCCD-14957 **Date:23.12.2015**

TEST RESULTS

Phase	Polarity	Shot Number	Oscillogram Number	Result
Red	Positive	First	01	
		Tenth	10	Withstood
	Negative	First	12	
		Tenth	21	
Yellow	Positive	First	23	
		Tenth	32	Withstood
	Negative	First	34	
		Tenth	43	
Blue	Positive	First	45	
		Tenth	54	Withstood
	Negative	First	56	
		Tenth	65	

(Oscillograms enclosed)

5. AC VOLTAGE WITHSTAND TEST :

a) Test connection : Between test core and other cores shorted to grounded shield and armour
b) Test Voltage : 47.5 kV ac
c) Duration of test : Fifteen minutes
d) Ambient Temperature : 28 °C
e) Length of sample : 9.60 metres
f) Result :

Sl. No.	Core Identification	Remarks
1.	Red	WITHSTOOD
2.	Yellow	WITHSTOOD
3.	Blue	WITHSTOOD

6. EXAMINATION:

On completion of the tests, the joints and terminations were examined.
Remarks: No cracking in the filling, moisture path across primary seal, or corrosion and /or tracking observed.

(Thirumurthy)
TEST ENGINEER

DIAGNOSTIC, CABLES & CAPACITORS DIVISION
P.B.NO.8066, SADASHIVANAGAR P.O
PROF.SIR C.V.RAMAN ROAD,BANGALORE - 560 080, INDIA
Tele/Fax: +91 (0) 80-2360 4435

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TEST REPORTp

Test Report No.:DCCD-14957 **Date:23.12.2015**

NOTE

a) The test results relate only to the item(s) tested.

b) Publication or reproduction of this test report in any form other than by complete set of the whole report and in the language written, is not permitted without the written consent of CPRI.

c) Any Correction/erasure invalidates the test report.

d) Any anomaly/discrepancy in this test report should be brought to the notice of CPRI within 45 days from the date of issue.

(Thirumurthy)
TEST ENGINEER

DIAGNOSTIC, CABLES & CAPACITORS DIVISION
P.B.NO.8066, SADASHIVANAGAR P.O
PROF.SIR.C.V.RAMAN ROAD,BANGALORE - 560 080, INDIA
Tele/Fax: +91 (0) 80-2360 4435

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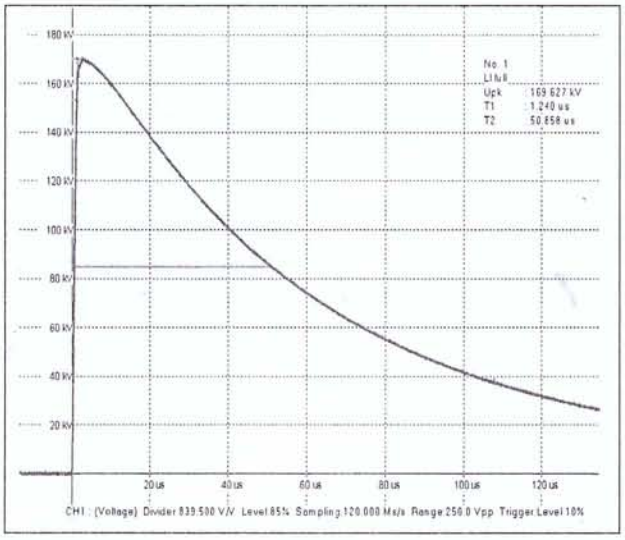
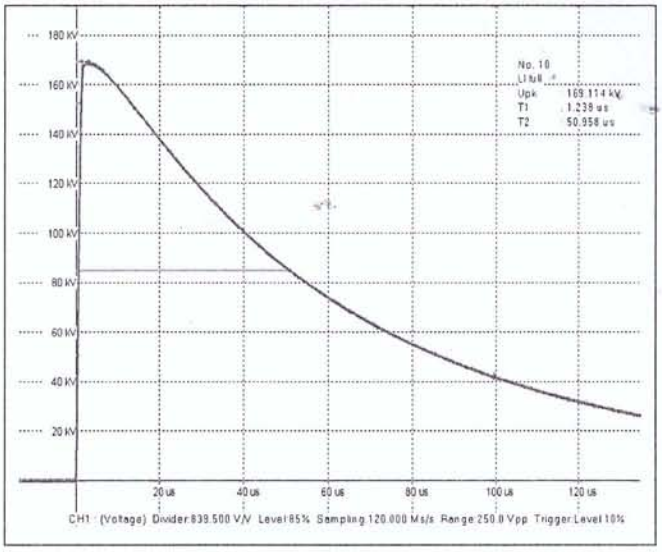
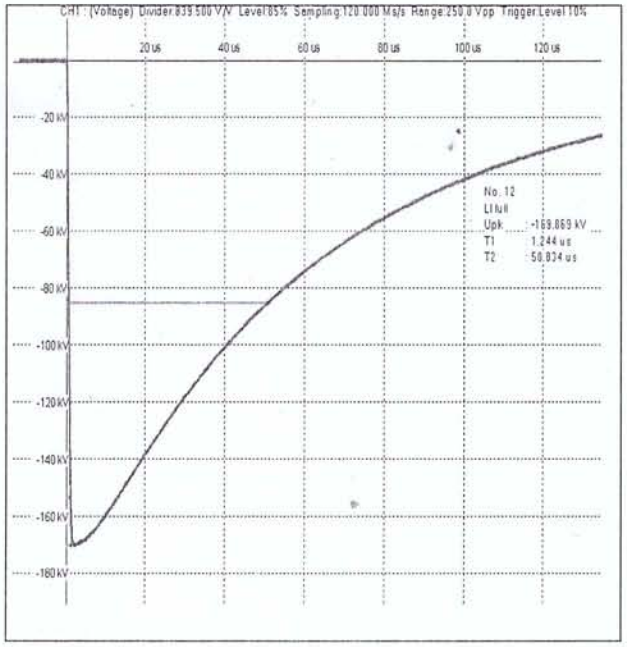
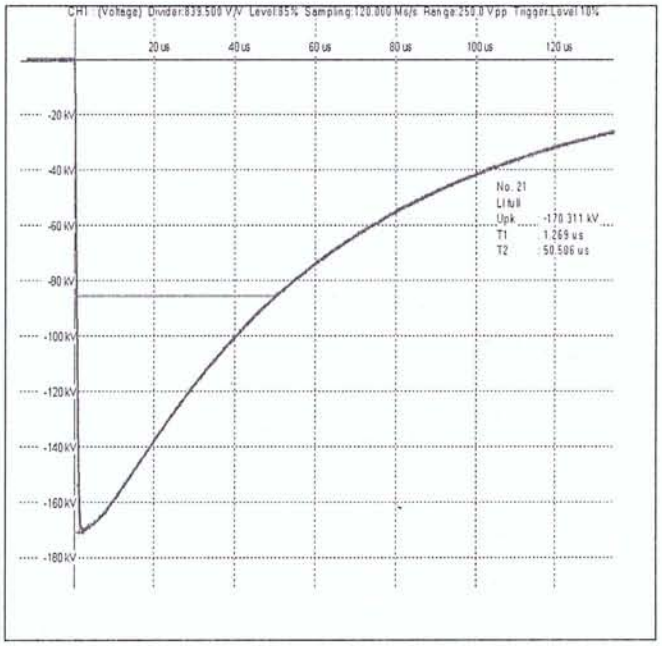
Customer : M/s. GALA SHRINK FIT, MUMBAI
Test Report No. & Date : DCCD – 14957 dt. 23.12.2015
Sample Code : DCCDCAB15S0217
Core : RED









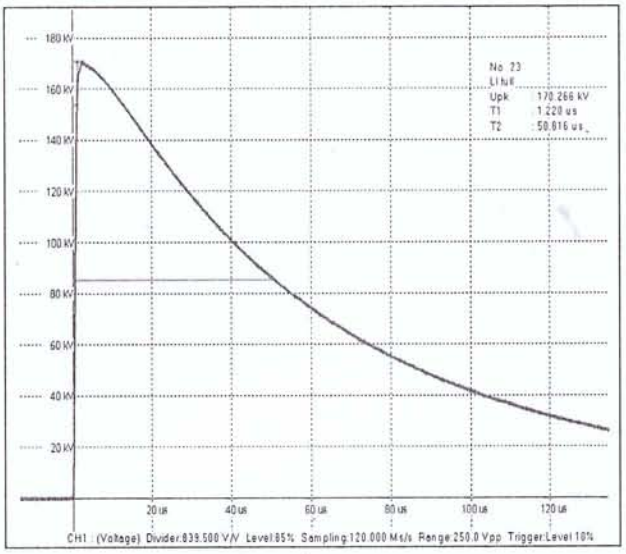
(Thirumurthy)
Test Engineer

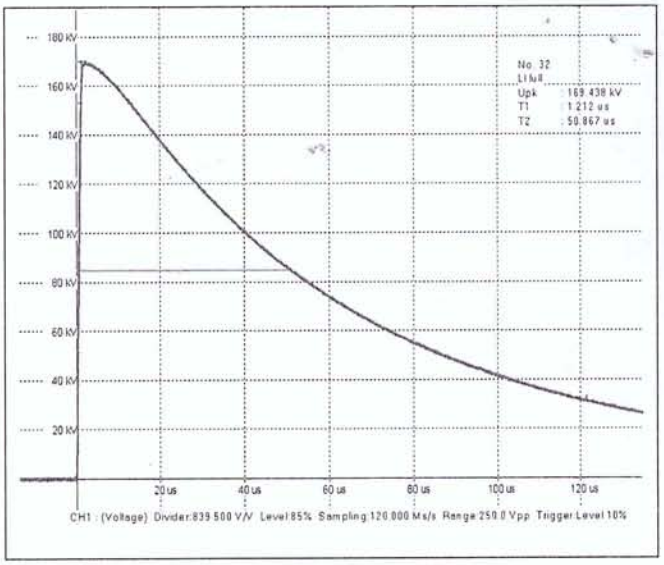
DIAGNOSTIC, CABLES & CAPACITORS DIVISION
P.B.NO.8066, SADASHIVANAGAR P.O
PROF.SIR.C.V.RAMAN ROAD, BANGALORE - 560 080, INDIA
Tele/Fax: +91 (0) 80-2360 4435

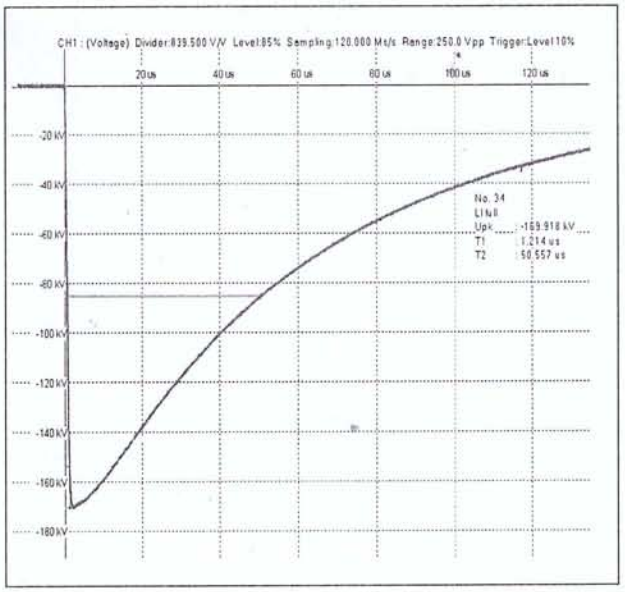
CENTRAL POWER RESEARCH INSTITUTE

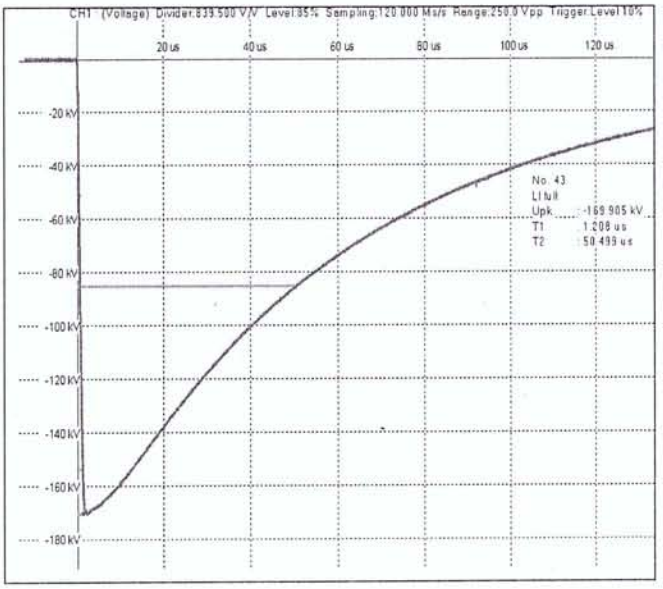
CPRI

Customer : M/s. GALA SHRINK FIT, MUMBAI
Test Report No. & Date : DCCD – 14957 dt. 23.12.2015
Sample Code : DCCDCAB15S0217
Core : YELLOW









(Thirumurthy)
Test Engineer

DIAGNOSTIC, CABLES & CAPACITORS DIVISION
P.B.NO.8066, SADASHIVANAGAR P.O
PROF.SIR.C.V.RAMAN ROAD, BANGALORE - 560 080, INDIA
Tele/Fax: +91 (0) 80-2360 4435

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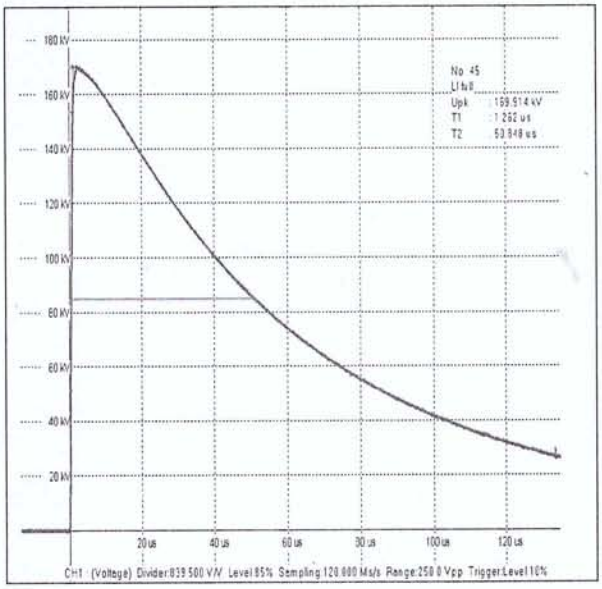
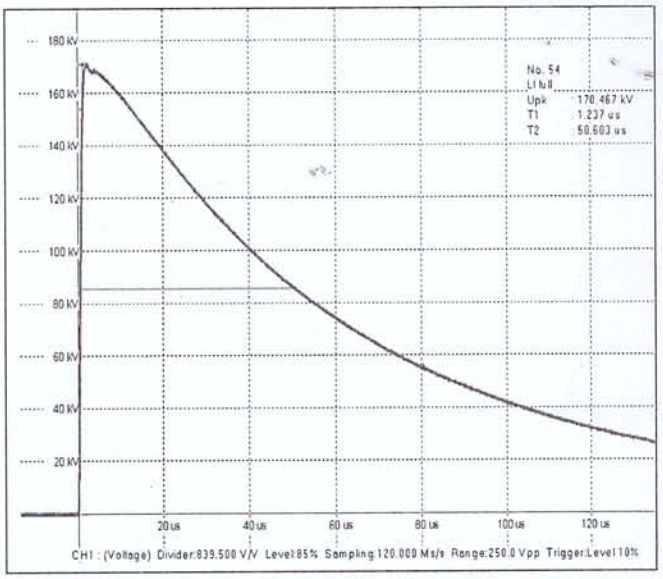
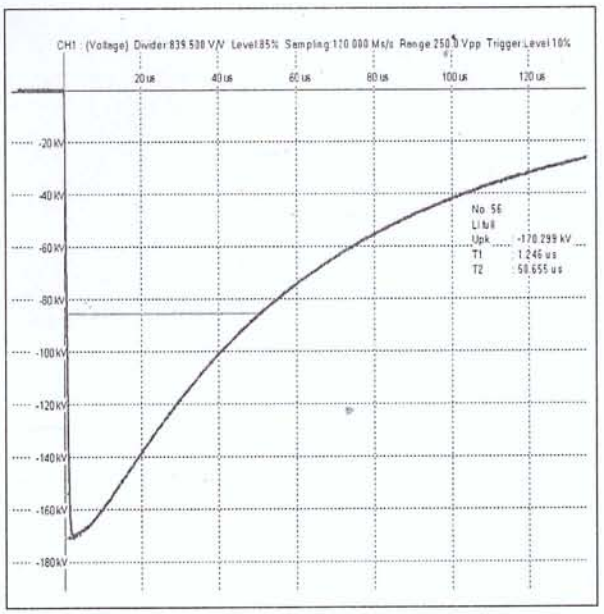
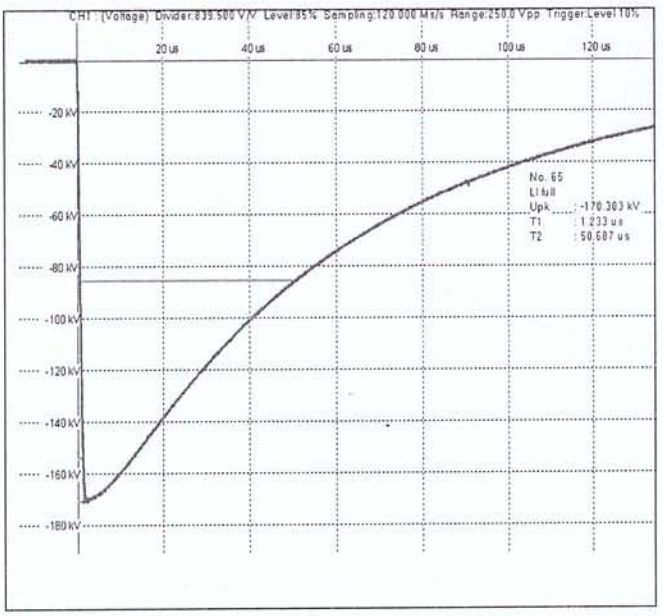
CPRI

Customer : M/s. GALA SHRINK FIT, MUMBAI
Test Report No. & Date : DCCD – 14957 dt. 23.12.2015
Sample Code : DCCDCAB15S0217
Core : BLUE









(Thirumurthy)
Test Engineer

DIAGNOSTIC, CABLES & CAPACITORS DIVISION
P.B.NO.8066, SADASHIVANAGAR P.O
PROF.SIR.C.V.RAMAN ROAD, BANGALORE - 560 080, INDIA
Tele/Fax: +91 (0) 80-2360 4435

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
(Member of STL)

CPRI

TEST REPORT

Test Report Number	SC15658A **Dated**: 10th December, 2015
Name & Address of the Customer	M/s. Gala Shrink Fit, 15 ABCD, Govt. Industrial Estate, Charkop, Kandavali(W), Mumbai – 400 057.
Name & Address of the Manufacturer	M/s. Gala Shrink Fit, 15 ABCD, Govt. Industrial Estate, Charkop, Kandavali(W), Mumbai – 400 057.
Particulars of sample tested	3X240 Sq.mm Aluminium Conductor, XLPE Insulated, Galvanised Steel Formed Wire armoured, PVC Sheathed 19/33 kV Cable with Heat Shrinkable Indoor termination, Outdoor Termination & a straight through joint
Condition of the sample on receipt	Good
Type	---
Designation	"GALA" Heat Shrinkable Indoor termination, Outdoor termination & straight through joint
Serial number	---
Number of samples tested	One
Date (s) of test (s)	3rd & 4th December, 2015
CPRI sample code no(s).	DCCDCAB15S0217
Particulars of tests conducted	Thermal & Dynamic Short-Circuit (conductor)
Test in accordance with Standard / specification	IEC 60502-4: 2010 & clause 11 & 12 of IEC 61442 : 1997
Sampling plan	Not applicable
Customer's requirement	Dynamic short circuit current on conductor at 2.5 times the thermal short circuit current
Deviations if any	Nil
Name of the witnessing persons	
Customer's representative	Mr. Abhishekh. J
Other than customer's representatives	None
Test subcontracted with address of the laboratory	None
Documents constituting this report (in words)	
Number of sheets	Four
Number of oscillograms	Three
Number of graphs	Nil
Number of photos	Nil
Number of test circuit diagrams	One
Number of drawings	Nil

(H.S.Lokeshappa)
Test Engineer

(Swaraj Kumar Das)
Joint Director

SHORT CIRCUIT LABORATORY
P.B.NO.8066, SADASHIVANAGAR POST OFFICE
SIR C.V.RAMAN ROAD, BENGALURU - 560 080 (INDIA)
Phone: +91 (0) 80 - 23602662 Fax: +91 (0) 80 - 23601213

CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)

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Test Report Number: SC15658A **Dated**: 10th December, 2015

Description of sample tested (Ratings as assigned by the manufacturer)

Test sample	3X240 Sq.mm Aluminium Conductor, XLPE Insulated, Galvanised Steel Formed Wire armoured, PVC Sheathed 19/33 kV Cable with Heat Shrinkable Indoor termination, Outdoor Termination & a straight through joint
Designation	"GALA" Heat Shrinkable Indoor termination, Outdoor termination & straight through joint
Serial number	---
Type of insulation	XLPE (cable)
Rated voltage	19 / 33 kV
Rated current	400 A
Frequency	50 Hz
Number of cores	Three
Type of outer sheath	PVC
Type of armour	Galvanised Steel Formed Wire
Conductor cross-section	240 sq.mm
Conductor material	Aluminium
Type of terminations	Heat shrinkable indoor termination & outdoor termination
Type of joints	Heat shrinkable one straight through joint
Length of the cable	9.60 m

Documents attached to this report

Oscillogram number(s)	SC15658A.S01, SC15658A.S02 & SC15658A.S03
Test circuit diagram number(s)	CRTL/SC/STC-03A

Test Engineer

SHORT CIRCUIT LABORATORY
P.B.NO.8066, SADASHIVANAGAR POST OFFICE
SIR C.V.RAMAN ROAD, BENGALURU - 560 080 (INDIA)
Phone: +91 (0) 80 - 23602662 Fax: +91 (0) 80 - 23601213

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CPRI

Test Report Number: SC15658A **Dated**: 10th December, 2015

Schedule of test

THERMAL & DYNAMIC SHORT-CIRCUIT TEST (CONDUCTOR) (CLAUSE 11 & 12)
Test conditions

Source	Short-circuit generator
Phases	Three
Frequency	50 Hz
Test sample	
Condition before test	Good
No. of phases	Three; one end of the cable connected to the source
Test details	
Test circuit drawing number	CRTL/SC/STC-03A
Short-circuit applied	On the other end of the cable
Short-circuit point	Grounded

Oscillogram No.	Type of test	Current (kA)		Duration (s)	Conductor temperature prior to the short circuit test (°C)	Observation
		Peak	Rms			
SC15658A.S01	Thermal short-circuit	---	R – 28.14 Y – 27.68 B – 27.14 Average - 27.65*	1.12	23.3 °C	During test: No abnormality
SC15658A.S02	Dynamic short-circuit	73.0 (B-Phase)	---	0.07	24.6 °C	During test: No abnormality
SC15658A.S03	Thermal short-circuit	---	R – 28.13 Y – 27.78 B – 27.03 Average - 27.65**	1.10	24.6 °C	During test: No abnormality

*Equivalent to 29.26 kA rms for 1.0 s
**Equivalent to 28.99 kA rms for 1.0 s

Physical Inspection: No visible external damage to indoor, outdoor termination and joint of the cable.

Test Engineer

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Phone: +91 (0) 80 - 23602662 Fax: +91 (0) 80 - 23601213

CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)

CPRI

Test Report Number: SC15658A

Dated: 10th December, 2015

NOTE

a) The Test results relate only to the item(s) tested.
b) Publication or reproduction of this report in any form other than by complete set of the whole test report / Certificate and in the language written is not permitted without the written consent of CPRI.
c) Any Corrections / erasure invalidate the test Report/Certificate.
d) NABL has Accredited this laboratory as per ISO 17025-2005 standard, vide certificate no.T-0010 for the tests carried out.
e) Any anomaly / discrepancy in the test report / Certificate should be brought to notice of CPRI within 45 days from the date of issue.

Additional Information:
This is not a certificate of rating. A certificate of rating is not issued as only limited tests as requested by the customer were carried out.

CPRI issues following types of reports/certificates:

Test Report:
The test report contains the record of the values of test parameters as obtained during testing, the physical condition of the sample during / after the test(s) and copy of oscillogram(s). Test report is issued when partial tests are performed as against the complete test requirement for proving specific ratings.

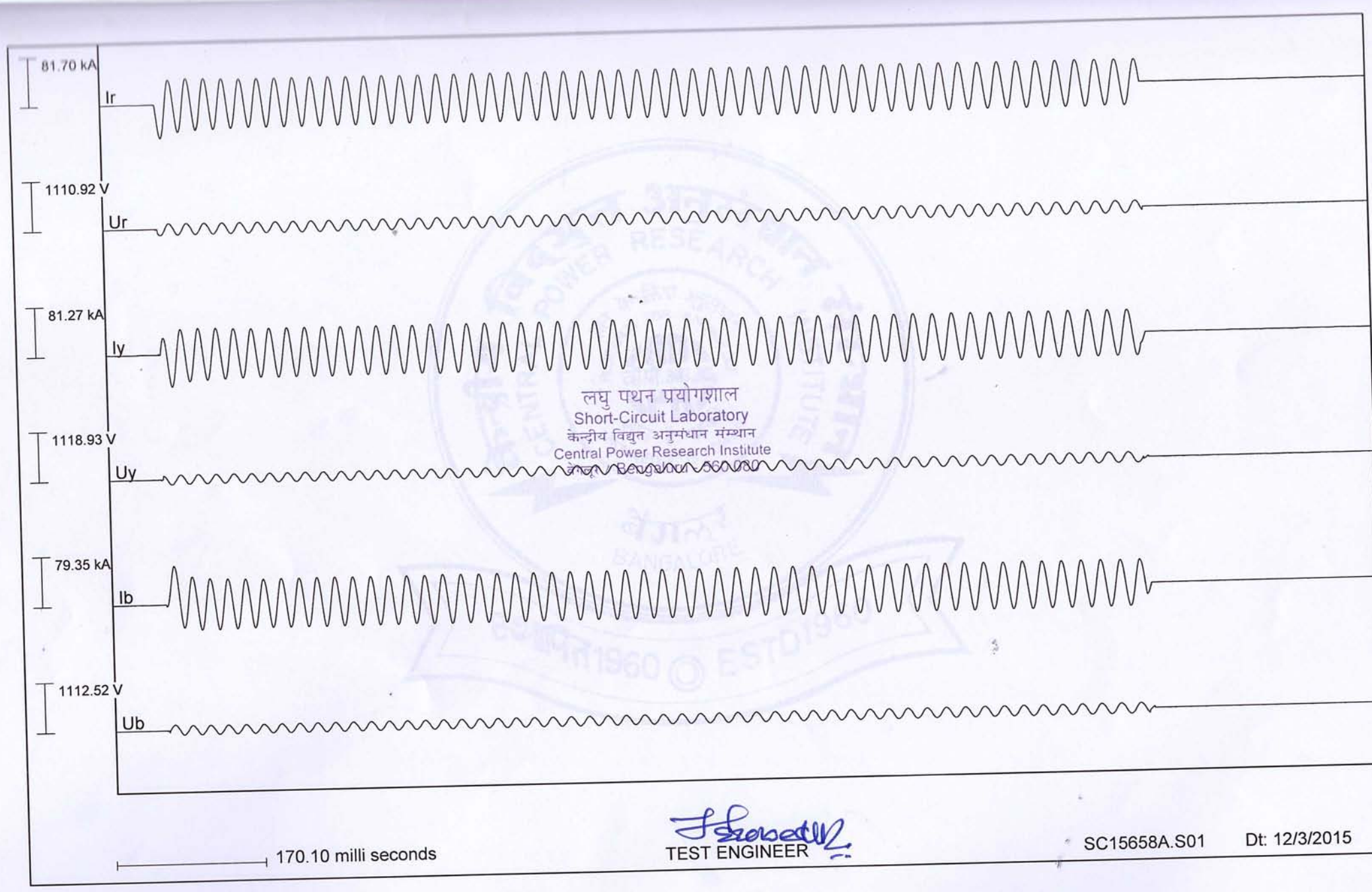
Sealed Certificate:
The sealed certificate is issued, on request and payment of the prescribed charges thereof only when the sample of particular type and rating has satisfactorily passed all the specified tests in compliance with the condition stipulated in a published National / International standard.

CPRI issues the following type test certificates based generally on STL Guidelines:

I. Type test certificate of Short Circuit Performance.
II. Type test certificate of Switching Performance.
III. Type test certificate of Temperature Rise Performance.
IV. Type test certificate of Dielectric Performance.
V. Type test certificate of complete type test.

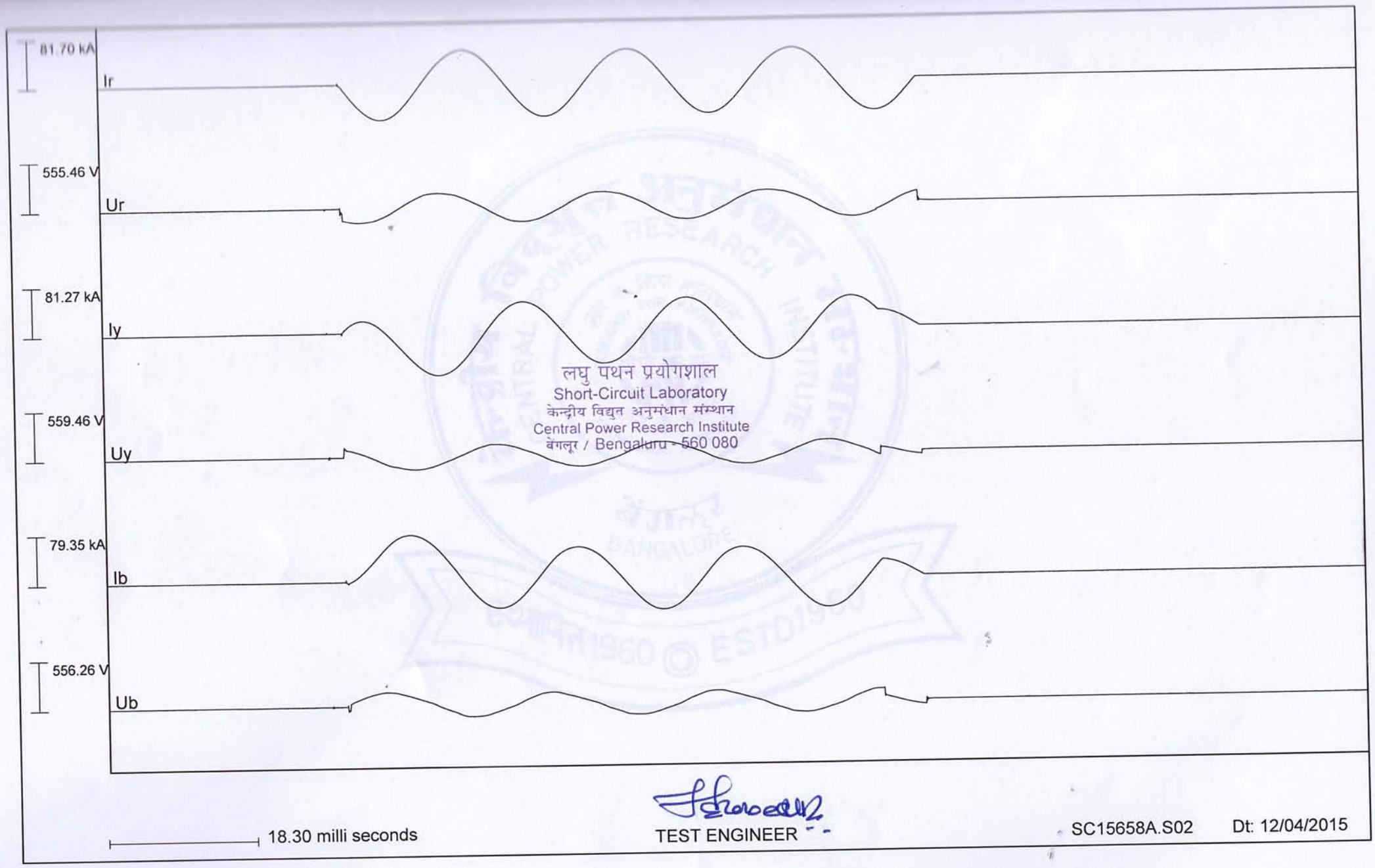
Test Engineer

SHORT CIRCUIT LABORATORY
P.B.NO.8066, SADASHIVANAGAR POST OFFICE
SIR C.V.RAMAN ROAD, BENGALURU - 560 080 (INDIA)
Phone: +91 (0) 80 - 23602662 Fax: +91 (0) 80 - 23601213



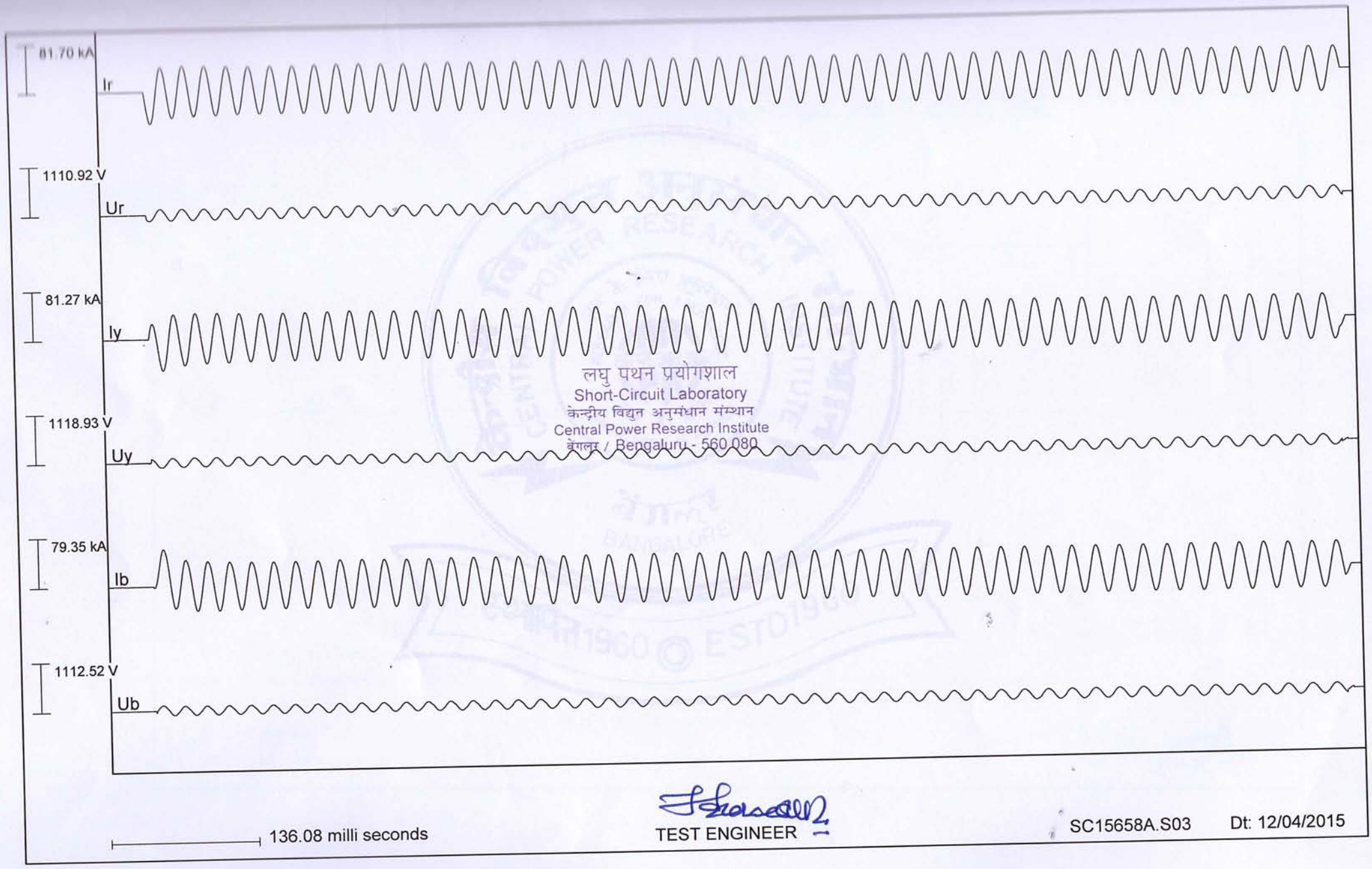
TEST ENGINEER

SC15658A.S01 Dt: 12/3/2015



TEST ENGINEER

SC15658A.S02 Dt: 12/04/2015



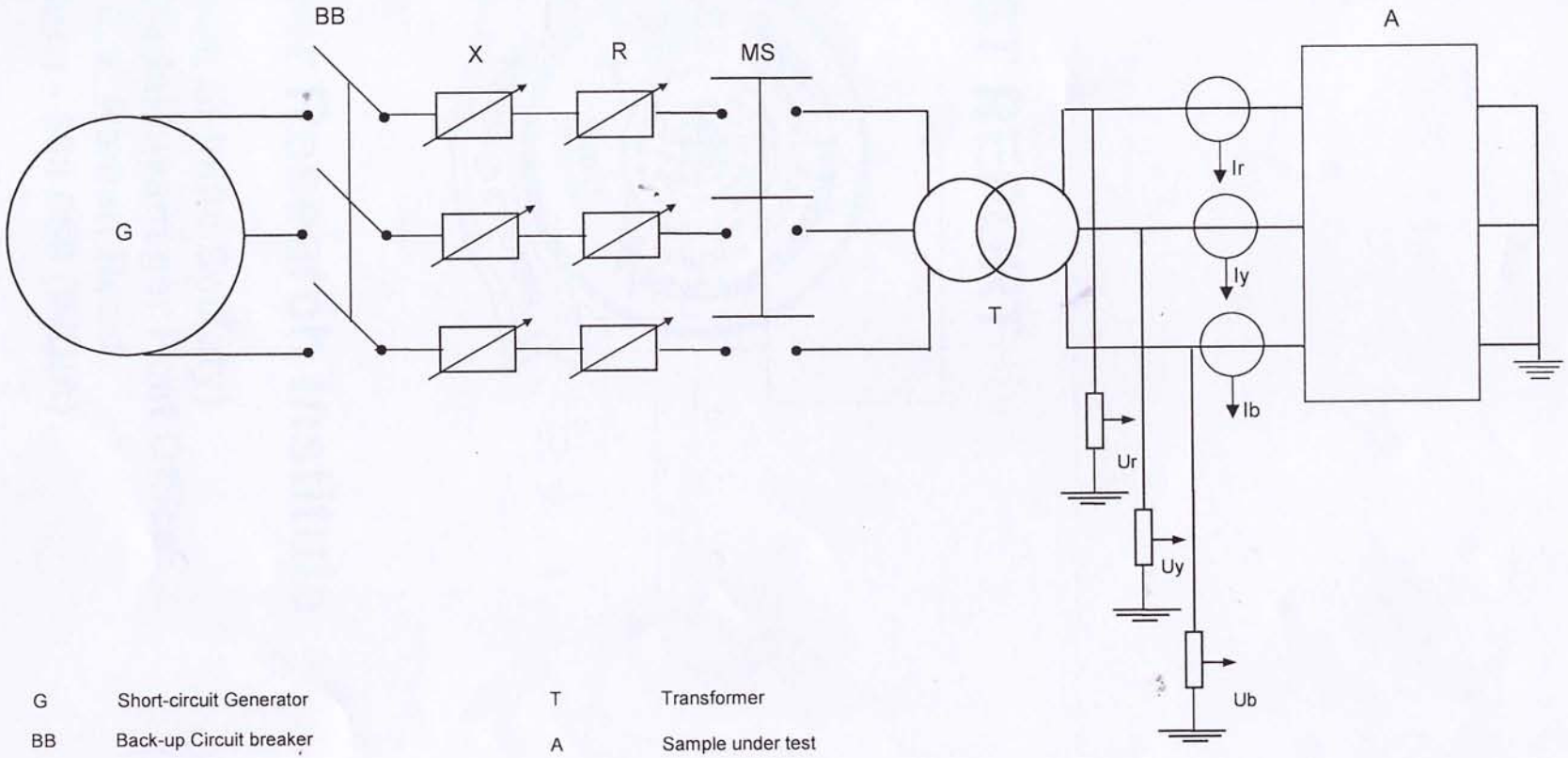
TEST ENGINEER

SC15658A.S03 Dt: 12/04/2015

CPRI

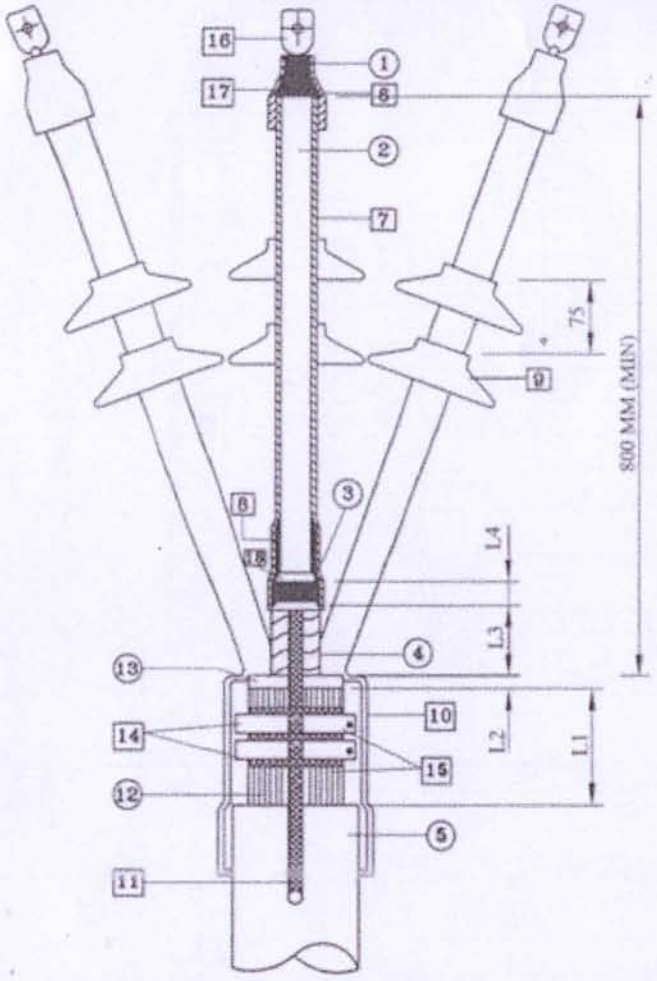
Schematic of main & measurement circuits - Three phase test

Circuit Number: CRTL/SC/STC-03A

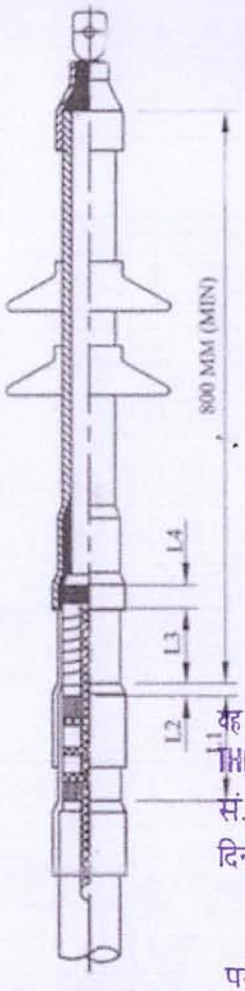


G	Short-circuit Generator	T	Transformer
BB	Back-up Circuit breaker	A	Sample under test
X	Reactor	Ir, Iy & Ib	Current sensors
R	Resistor	Ur, Uy & Ub	Voltage sensors
MS	Make switch		

Test Engineer



3 Core XLPE Cable



1 Core XLPE Cable

यह ड्राइंग सीपीआरआई की परीक्षण रिपोर्ट से संबंधित है।
THIS DRAWING PERTAINS TO CPRI TEST REPORT
सं. डीसीसी/No. DCC: 14957
दिनांक/Dated : 22.12.2015

परीक्षण इंजीनियर/Test Engineer

Ref. Document No. :- 103

○	CABLE COMPONENTS
□	KIT CONTENTS (MAJOR PARTS)
△	KIT CONTENTS (INSTALLATION AIDS)
L4	LENGTH OF SEMI CONDUCTING SCREEN OF CORE
L3	LENGTH OF METALLIC SHIELDING OF CORE
L2	LENGTH OF INNER SHEATH
L1	LENGTH OF ARMOUR

LEGENDS

S.No.	DESCRIPTION
22	MOPPING CLOTH
21	ALOXITE EMERY TAPE
20	NYLON STRING
19	SILICON GREASE
18	STRESS CONTROL MASTIC
17	LUG SEALING MASTIC RED
16	TERMINAL LUG
15	MASTIC SEALING TAPE
14	JUBILEE CLAMPS
13	INNER SHEATH
12	ARMOUR
11	TINNED COPPER EARTH BRAID (MAIN EARTH)
10	ANTI TRACKING CABLE BREAK OUT
9	RAIN SHED
8	STRESS CONTRL TUBING
6	ANTI TRACKING WEATHER RESISTANT TUBING
1	TERMINAL SLEEVE
5	OUTER SHEATH
4	METAL SHIELD
3	SEMI CONDUCTIN SCREEN
2	INSULATION
1	CONDUCTOR

CABLE SIZE (Sq.mm)	L1	L2	L3	L4
240-400	80	10	200	60
150-185	80	10	200	60
70-120	60	10	200	60
16-50	60	10	200	60

CABLE CUTTING DIMENSIONS FOR 3 CORE CABLES

CABLE SIZE (Sq.mm)	L1	L2	L3	L4
800-1000	80	10	200	60
400-630	80	10	200	60
185-300	80	10	200	60
70-150	60	10	200	60
16-50	60	10	200	60

CABLE CUTTING DIMENSIONS FOR 1 CORE CABLES

GALA

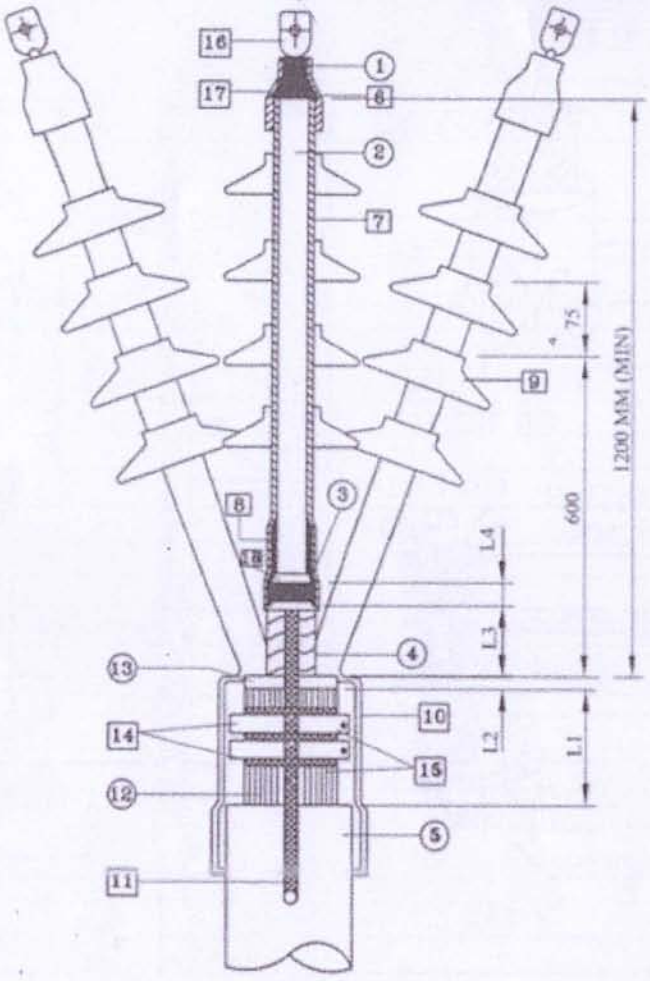
GALA SHRINK FIT
MUMBAI - 401 105 (INDIA)

CABLINK

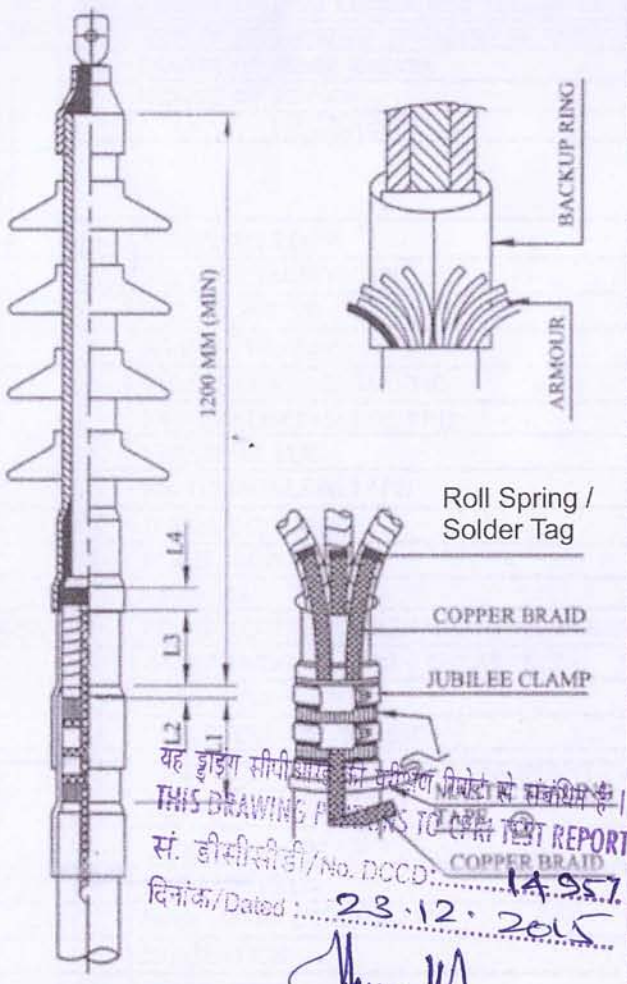
Title :-
Heat Shrinkable Indoor Termination
For 19/33 KV (U max: 36 KV)
3 & 1 Core XLPE Cables

SCALE : NTS
EDITION No. : 00

Drawn. By	CKD. BY	APPD. BY	DATE	DRG. No.
Selva Kumar	Shailesh Kale	Bhavesh Gala	5/11/11	GTSPL/005/11/11



3 Core XLPE Cable



1 Core XLPE Cable

यह ड्राइंग सीपीआरआई की परीक्षण रिपोर्ट के संदर्भ में है।
THIS DRAWING PERTAINS TO CPRI TEST REPORT
सं. डीसीसीडी/No. DCCD: 14957
दिनांक/Dated : 23.12.2015
परीक्षण इंजीनियर/Test Engineer

S.No.	DESCRIPTION
①	CONDUCTOR
②	INSULATION
③	SEMI CONDUCTIN SCREEN
④	METAL SHIELD
⑤	OUTER SHEATH
6	TERMINAL SLEEVE
7	ANTI TRACKING WEATHER RESISTANT TUBING
8	STRESS CONTRL TUBING
9	RAIN SHED
10	ANTI TRACKING CABLE BREAK OUT
11	TINNED COPPER EARTH BRAID (MAIN EARTH)
12	ARMOUR
13	INNER SHEATH
14	JUBILEE CLAMPS
15	MASTIC SEALING TAPE
16	TERMINAL LUG
17	LUG SEALING MASTIC RED
18	STRESS CONTROL MASTIC
19	SILICON GREASE
20	NYLON STRING
21	ALOXITE EMERY TAPE
22	MOPPING CLOTH

LEGENDS

	CABLE COMPONENTS
	KIT CONTENTS (MAJOR PARTS)
	KIT CONTENTS (INSTALLATION AIDS)
L4	LENGTH OF SEMI CONDUCTING SCREEN OF CORE
L3	LENGTH OF METALLIC SHIELDING OF CORE
L2	LENGTH OF INNER SHEATH
L1	LENGTH OF ARMOUR

CABLE CUTTING DIMENSIONS FOR 3 CORE CABLES

CABLE SIZE (Sq.mm)	L1	L2	L3	L4
240-400	80	10	200	60
150-185	80	10	200	60
70-120	60	10	200	60
16-50	60	10	200	60

CABLE CUTTING DIMENSIONS FOR 1 CORE CABLES

CABLE SIZE (Sq.mm)	L1	L2	L3	L4
800-1000	80	10	200	60
400-630	80	10	200	60
185-300	80	10	200	60
70-150	60	10	200	60
16-50	60	10	200	60

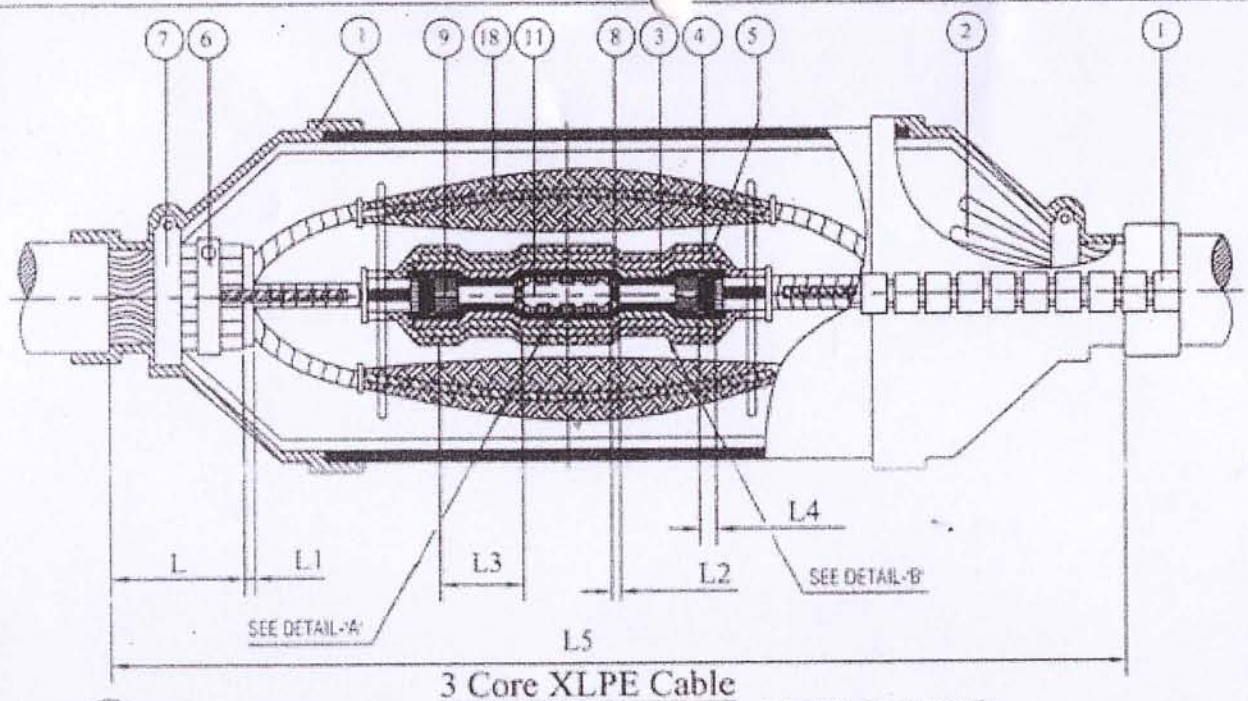
GALA SHRINK FIT
MUMBAI - 401 105 (INDIA)

CABLINK

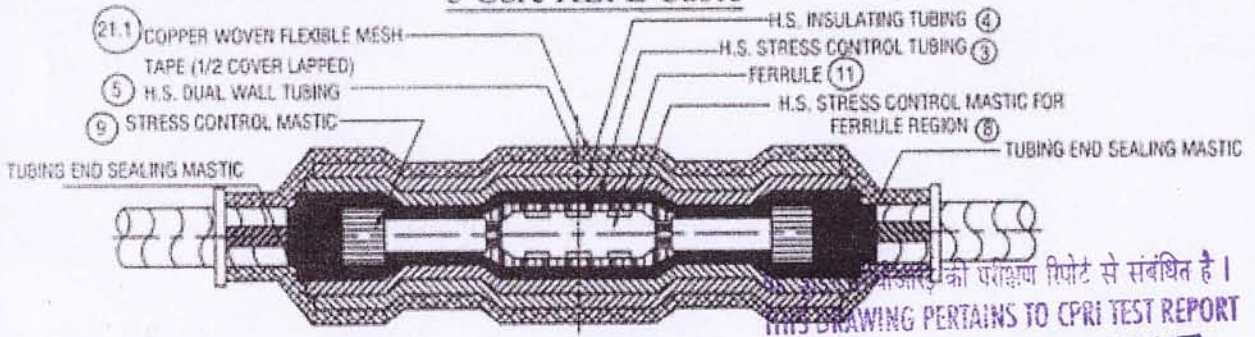
Title :-
Heat Shrinkable Outdoor Termination
For 19/33 KV (U max: 36 KV)
3 & 1 Core XLPE Cables

SCALE : NTS
EDITION No. : 00

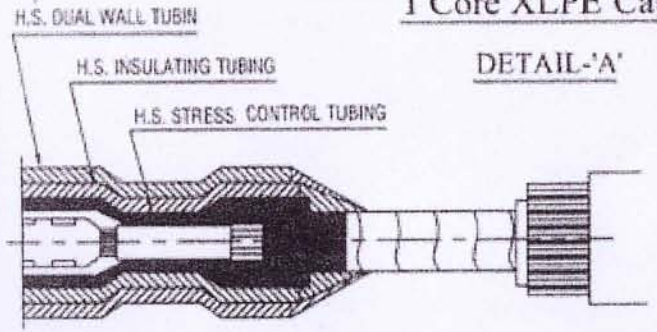
Drawn. By	CKD. BY	APPD. BY	DATE	DRG. No.
Selva Kumar	Shailesh Kale	Bhavesh Gala	5/11/11	GTSPL/004/11/11



3 Core XLPE Cable



1 Core XLPE Cable



SEE DETAIL-'B'

DETAIL-'A'

H.S. STRESS CONTROL MASTIC FOR

L4	LENGTH OF SEMI CONDUCTING SCREEN
L3	LENGTH OF XLPE INSULATION
L2	LENGTH OF BARE CONDUCTOR BETWEEN FERULE AND XLPE INSULATION
L1	LENGTH OF INNER SHEATH
L	LENGTH OF ARMOUR
	LEGEND

400-500	100	10	10	175	60	1850
240-300	100	10	10	175	60	1850
120-185	100	10	10	175	60	1700
70-95	100	10	10	175	60	1650
16-50	100	10	10	175	60	1650
Cable size sq. mm	L	L1	L2	L3	L4	L5

Cable Cutting Dimensions for 3 Core XLPE Cables

800-1000	80	10	10	150	55	1650
400-630	80	10	10	150	55	1650
150-300	80	10	10	150	55	1400
70-120	80	10	10	150	55	1350
25-50	80	10	10	150	55	1300
Cable size sq. mm	L	L1	L2	L3	L4	L5

Cable Cutting Dimensions for 1 Core XLPE Cables

S.No.	DESCRIPTION OF KIT CONTENTS
19	DETAILED INSTRUCTION MANUAL
18	METAL SCREEN CONTINUITY SYSTEM CONSISTING OF COPPER WOVEN FLEXIBLE MESH TAPE + SMALL COPPER BRAID+ SOLDER + FLUX+COPPER BINDING WIRE
17	CLEANING TISSUES
16	MOPPING CLOTH
15	PVC ADHESIVE TAPE
14	ALOXIDE EMERY TAPE
13	NYLON STRING
12	MASTIC SEALING TAPES
11	INLINE CONNECTORS (FERRULE)
10	SILICON GREASE
9	STRESS CONTROL MASTIC FOR CUT END
8	STRESS CONTROL MASTIC FOR FERRULE REGION
7	JUBILEE CLAMPS FOR FIXING OVER THE PROTECTIVE COVER (CANNISTER)
6	ARMOUR EARTHING MATERIAL (BACKUP RING -2 NOS.+ TINNED COPPER BRAID + JUBILEE CLAMP - 2 NOS.)
5	HEAT SHRINKABLE DUAL WALL TUBINGS (RED + BLACK)
4	HEAT SHRINKABLE INSULATION TUBINGS (RED)
3	HEAT SHRINKABLE STRESS CONTROL TUBINGS (BLACK)
2	GALVANISED WRAP AROUND JOINT CASE (CANNISTER)
1	HEAT SHRINKABLE OUTER JACKETING SLEEVE

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परीक्षण इंजीनियर/Test Engineer

GALA

GALA SHRINK FIT
MUMBAI - 401 105 (INDIA)

CABLINK

TITLE : -

HEAT SHRINKABLE STRAIGHT THROUGH JOINT SUITABLE FOR 19/33 KV (U MAX: 36 KV) 3 & 1 CORE XLPE CABLES

SCALE : NTS
ESITION No. : 00

Drawn. By	CKD. BY	APPD. BY	DATE	DRG. No.
Selva Kumar	Shailesh Kale	Bhavesh Gala	5/11/11	GTSPL/006/11/11