

DETAILS OF WORK CARRIED OUT

Work Name - Shifting of 11KV Overhead Line to Underground Cable at Paras
Tiraha due to construction of Flyover.

S.No.	Particulars	Quantity
1	11mtr. Lattice tower	04 Nos
2	12.8mtr. Lattice tower	03 Nos.
3	DWC Pipe 160mm	3086 Mtr.
4	HT Cable 185Sqmm X 3.0 Sqmm	3558 Mtr.
5	Outdoor End KIT	26 Nos.
6	Indoor Kit	17 Nos.
7	G.I. Pipe 100mm	299 Nos.
8	LT Panel 400A	02 Nos.
9	LT Distribution Panel	02 Nos.
10	D.O. Set	02 Nos.
11	G.O. Set	02 Nos.
12	DP Strucure	03 Nos.
13	Earth Rod	18 Nos.
14	LT Cable 185Sqmm X 3.5sqmm	431 Mtr.
15	RMU	04 Nos.
16	Conductor	421 Mtr.

Handed Over
A.E. Tamboli
Assistant Engineer-Elect.
UDA, Udaipur
Ashish Kumawat
Assistant Engineer-Elect.
UDA, Udaipur

Counter signed by
Executive Engineer (Elect.)
UDA, Udaipur

Taken Over
A.En. (Savina)
AVNL Udaipur
ASSISTANT ENGINEER
A.V.V.N.L., SAVINA

AJMER VIDYUT VITRAN NIGAM LIMITED
CENTRAL TESTING LABORATORY
TEST REPORT

Name of Item: 11 KV XLPE INSULATED PVC SHEATHED ARMoured CABLE 3C X 185 sq mm
 Name of Firm: M/S SHREE AMBIKA ELECTRICALS
 Received From: XEN (O&M-II) AVVNL, UDAIPUR Make: KUI
 Reference: _____

Date: 15-02-25
 Seal no.: 8131843-44
 CR NO: 95/131966 DATED 13-2-25
 Job no.: 113-2-25

(A) MEASUREMENT OF RESISTANCE OF CONDUCTOR:-

Maximum resistance at 20° C allowed as per ISS 0.164 ohm/km for conductor.

Length of Sample (meter)	Temperature "C"	Phase	Resistance measured (milli Ohms)	Temperature Correction Factor as per ISS	Resistance at 20° C (Ohm/KM)
10.6	26	R	1.520	0.98	0.140
		Y	1.530	0.98	0.140
		B	1.510	0.98	0.139

The sample passed this test.

(C) TENSILE TEST & ELONGATION AT BREAK TEST FOR INSULATION & SHEATH:-

PHASES	Minimum required load (N)	Observed load (N)	Observed tensile strength (N/Sq mm)	Specified min. tensile strength (N/Sq mm)	Length of the sample piece (mm)	Observed elongation at break (mm)	Observed % elongation at break	Specified minimum % elongation at break
XLPE Insulation - R	58	85	18.33	12.5	24	155.3	547.08	200
XLPE Insulation - Y	64.02	92	17.96	12.5	24	153.9	541.25	200
XLPE Insulation - B	56	97	21.85	12.5	24	176.5	635.42	200
PVC Sheath	170.5	180	13.20	12.5	24	50.1	208.75	150

The sample passed this test.

(D) TEST FOR THICKNESS OF INSULATION & SHEATH:-

Required Nominal thickness 3.6mm & Minimum thickness 3.14mm (as per ISS) for XLPE Insulation.
 Required thickness as per GTP/IS 7098 & 10462 for outer Sheath is 2.36mm.

Measured Thickness of insulation at different places (mm)							XLPE (Nominal) Sheath (Min.) (Thickness in mm)
Thickness	I	II	III	IV	V	VI	
XLPE Insulation - R	4.87	4.86	4.88	5.10	4.95	4.91	4.93
XLPE Insulation - Y	4.96	4.85	4.99	5.02	5.06	5.01	4.98
XLPE Insulation - B	4.71	4.66	4.80	4.74	4.65	4.53	4.68
Outer PVC Sheath	3.48	3.48	3.47	3.47	3.43	3.41	3.41

The sample passed this test.

(E) HOTSET TEST:-

	Length of the sample piece (mm)	Observed elongation (mm)	Observed Hot Set elongation (%)	Specified maximum value (%)	Observed permanent set (mm)	Observer permanent set (%)	Specified maximum permanent set (%)
XLPE Insulation - R	20	31.24	56.2	175	22.04	10.20	15
XLPE Insulation - Y	20	31.88	59.4	175	21.77	8.85	15
XLPE Insulation - B	20	28.42	42.1	175	21.08	5.40	15

The sample passed this test.

(F) TEST FOR ARMOUR (AS PER GTP/IS 3975/99):-

Percentage Coverage	TOTAL NO OF ARMOUR STRIPS	NOMINAL DIMENSION OF ARMOUR WIRE/STRIP	TENSILE STRENGTH	ELONGATION AT BREAK		UNIFORMITY OF ZINC COATING: 1 NO. of Dip (1 min each)	WEIGHT OF ZINC COATING	WINDING TEST	RESISTANCE (in milliohms/mtr.) AT 25° C	RESISTANCE AT 20° C (mohm ohm/mtr.)	RESISTIVITY (ohm-cm) at 20° C Max
				Gauge Length = 250mm							
		4.00 X .80 (MIN 3.6 X .72 & Max 4.4 X .88)	Min. allowed braking load as per IS:3975 (250-580 N/Sqmm.)	Elongation Observed (in mm.)	Min. % Elongation as per IS (Req. Min 6%)						1.45E-05
92.0%	38	width, thickness	480.17	302	20.8	No copper deposits observed	Facility not available	Facility not available	43.45	42.2501	1.178E-05
		3.82									
		0.73									

The sample passed this test.

Conclusion : This sample PASSED the above tests.

Firm's Representative

JEn (CTL)
 AVVNL, Ajmer

AEn (CTL)
 AVVNL, Ajmer

XEn/AEn/ACOS (M)
 AVVNL, Ajmer

XEn (CTL)
 AVVNL, Ajmer

NO. AVVNL/XEN/CTL/AJMER/F. ID. 5941 DATE 15.02.2025
 Copy Submitted to the following for information & necessary action.

- 1) The XEN (O&M-II) AVVNL, UDAIPUR
- 2) M/S M/S SHREE AMBIKA ELECTRICALS

XEn (CTL)
 AVVNL, Ajmer

AVVNL Form No. A-9

ORIGINAL

AJMER VIDYUT VITRAN NIGAM LTD. AJMER



(Regd. Office : Vidyut Bhawan, Panchsheel, Ajmer)

Note - If payment is made by cheque this receipt will be considered as "Provisional" until the cheque is encashed.

95

ACCOUNT N° 1
MISC. CASH RECEIPT

Book No. A

No.

Date 13/2/2025

131986

Name of Office

Received from Shri Shree Ambika Electricals

the sum of Rs. 80022/- (in Words) Rs. Eighty thousand

twenty two only

by Cash/D.D./Cheque No. 131235 on account of SIC-678157
GST-122071

08 AIVPT 3478L1ZJ

HOO/X.E.N./A.E.N./A.O./Cashier





GOVERNMENT OF RAJASTHAN
OFFICE OF THE ELECTRICAL INSPECTORATE

Certificate Ref. No: EID/2025-26/T/73165

Date: 09/06/2025

**SHREE AMBIKA ELECTRICALS,
PARAS TIRAHA DUE TO CONSTRUCTION
OF FLYOVER, UDAIPUR, WARD NO-
61, UDAIPUR,
UDAIPUR.**

Subject: Grant of permission under regulation 43 of CEA (measures relating of safety and electric supply).
Regulation 2010 for Energisation of installation.

Reference: Inspection carried out by Assistant Electrical Inspector UDAIPUR on date 05/06/2025.

The permission for Energisation of installation mentioned below is hereby accorded under Regulation 43 of CEA Regulation 2010. The Inspection Fees Rs 2000.00 /- has been deposited by the consumer vide online payment in favour of Senior Electrical Inspector, Jaipur. This permission is valid up to MARCH 2030.

The address having following installation:-

- 1.) Details of EHT/ HT Installation -
- 2.) Details of EHT/ HT Line/ Cable 3C X 185 SQMM XLPE 11 KV
UNDERGROUND CABLE, LENGTH - 3558 METER, (SHIFTING OF 11 KV
OVERHEAD LINE TO UNDERGROUND CABLE AT PARAS TIRAHA DUE TO
CONSTRUCTION OF FLYOVER).

No change, addition, alteration, replacement or shifting etc. in the H.T installation is permitted under the above Regulation without prior permission of Electrical Inspectorate. In the event of any violation, this permission is deemed to be cancelled.



Signature valid

Digitally Signed by SHURVEER SINGH
DEORA
Designation : ELECTRICAL INSPECTOR
Date: 2025.06.09 11:07:19 IST
Reason: Approved
Location: Rajasthan, IN

Note: This is a digitally signed certificate and does not required any physical signature. Also, this certificate can be validated using QR Code or online at <http://swcs.rajasthan.gov.in/Verifycertificate.aspx>



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**QUALITY ASSURANCE LABORATORY, KEI INDUSTRIES
LTD.**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

SP-919, 920, 922, RIICO INDUSTRIAL AREA, BHIWADI, ALWAR, RAJASTHAN, INDIA

in the field of

TESTING

Certificate Number: TC-6110

Issue Date: 31/07/2024

Valid Until: 30/07/2026

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: KEI INDUSTRIES LTD.

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer





National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

SVARN INFRATEL PVT. LTD. (LAB DIVISION)

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

74TH MILESTONE DELHI MATHURA ROAD, PALWAL, HARYANA, INDIA

in the field of

TESTING

Certificate Number: TC-4096

Issue Date: 27/04/2023

Valid Until: 26/04/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : Svarn Infratel Private Limited

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



Lucy Electric India Pvt. Limited

TEL.: +91-253 – 2381509/10/13
Email: sales-IN-NSK@lucyelectric.com
FAX: +91-253-2381542

TEST CERTIFICATE

This is to certify that the undernoted switchgear has been tested for routine test in accordance with relevant clauses IEC: 62271-200, IEC: 62271-1, IEC: 62271-100, IEC: 62271-103, IEC: 62271-102 far as they are applicable and has passed these tests satisfactorily.

Date of Test :23/11/2024

CUSTOMER: SURYA ELECTRICALS, JAIPUR

Work Order No: OSF2306

Customer's Order No: PKS/24-25/L-M/252 DATE:11/11/2024

Unit type: Vacuum Circuit Breaker SF6 RING MAIN UNIT, Type- SABRE-VRN

Rating: 3-ph, 11kV, 630A RING SWITCH & 630A CIRCUIT BREAKER.

Unit Sr. No.: **SAB11244099**

TESTS:-

1. Operation test. : Passed
2. Power frequency H.V. Test for 1 minute withstands. : Passed
 - a) With all switches closed, tests between poles and earth at 28 kV. : Passed
 - b) With all switches closed, test between two poles & third pole Earthed at 28 kV. : Passed
 - c) With ring main 1 and Ring 2 closed and off load Isolator closed and breaker open, 32 kV across isolation of the circuit breaker. : Passed
 - d) With ring 1 closed and 2 open off load closed and Breaker closed 32 kV across switch breaks of ring 2 : Passed
3. Primary Injection test & shunt trip test: : Passed
4. Voltage Presence Indication Test : Passed
5. 2 KV test on auxiliary wiring : Passed
6. Gas Leak Test : Passed
7. Resistance of main circuit:

Description	Max. Value Permitted (Micro Ohms)	Within Limits		
		R	Y	B
a) Ring Main 1 To Breaker	540	OK	OK	OK
b) Ring Main 2 To Breaker	540	OK	OK	OK
c) Ring Main 1 To Ring Main 2	240	OK	OK	OK
d) Ring Main 1 To Earth	500	OK	OK	OK
e) Ring Main 2 To Earth	500	OK	OK	OK
f) VCB Tee-off To Earth	1200	OK	OK	OK

Tested by: Q.A. Dept.
Lucy Electric India Pvt.Limited.

(QA/IR/007-8-1)



Scanned with OKEN Scanner

National Accreditation Board for

KEI INDUSTRIES LIMITED

RUCO INDUSTRIAL AREA Chopanki BHIWADI

(Raj)

ROUTINE TEST REPORT

Date: 21.11.2024

Ref :- KEI/23HT/P-40075-.P40979/CPK/01

CUSTOMER SHREE AMBIKA ELECTRICALS

P.o. No. & Date Nil Dated 21.11.2024

Socification IS: 7098 Part-2

3C X 185 SQ MM 11 V E A2XFY (Insu. Red. Yellow, Blue Colour Strips Over the Cores & Ot Sh., Black)
Stranded Compacted Aluminium Conductor with inner Semiconducting screening, XLPE Insulation with Outer Semiconducting Screening. Metallic Copper taped, laid Up with PVC Filler, Extruded PVC (ST-2) Inner Sheath, Galvanised Steel Strip Armoured, PVC ST-20 Outer Sheathed Cable.

	Drum	Length (Mtrs.)	CORE COLOUR	H. V. Test at 21 kV A.C(rms) for 5 minutes for exh correctbn	Conductor Resistance Ohms, 'krm at 20 Deg C (Max)			Partial Discharge Test at 1.73 in pc		
					Red Yellow Blue			Red Yellow Blue		
					0.164 (Max)			10pc (Max.)		
	BXX-18312	500	Red, Yellow, Blue Colour Strips Over the Cores	Withstood	0.155	0.153	0.156	1.08	1.05	1.06
2	Bxx-18313	501		Withstood	0.154	0.155	0.153	1.05	1.06	1.08
3	BXX-18314	502		Withstood	0.153	0.154	0.155	1.06	1.12	1.05
4	Bxx-18315	503		Withstood	0.155	0.154	0.154	1.12	1.05	1.06
5	BXX-18316	502		Withstood	0.153	0.155	0.154	1.05	1.03	1.12
6	BXX-18317	501		Withstood	0.154	0.153	0.155	1.05	1.12	1.05
7	BXX-18318			Withstood	0.156	0.154	0.153	1.05	1.05	1.03
8	BXX-18319	495		Withstood	0.153	0.154	0.154	1.06	1.06	1.12
9	BXX-18320	501			0.155	0.154		1.08	1.05	
10	BXX-18321	503			0.154	0.155		1.05	1.03	
11	BXX-18322	503		Withstood			0.154			1.06
				Withstood	0.154	0.156	0.155	1.06	1.08	1.05
12	BXX-18323	509		Withstood	0.155	0.154	0.156	1.12	1.03	1.03
13	Bxx-18324	503		Withstood	0.153	0.155	0.154	1.05	1.09	1.08
14	BXX-18325	500		Withstood	0.154	0.156	0.155	1.03	1.05	1.03
15	BXX-18326	508		Withstood	0.154	0.154	0.156	1.12	1.12	1.09
16	BXX-18327	503		Withstood	0.154	0.154	0.154	1.05	1.15	1.05
17	BXX-18328	508		Withstood	0.155	0.155	0.154	1.06	1.05	1.12
18	BXX-18329	505		Withstood	0.156	0.154	0.155	1.05	1.03	1.15
19	BXX-18330	506		Withstood	0.154	0.153	0.154	1.03	1.12	1.05



20	BXX-18331			Withstood	0.155	0.155	0.153	1.08	1.05	1.03
21	BXX-18332	505		Withstood	0.156	0.154	0.155	1.03	1.06	1.12
22	BXX-18333	502		Withstood	0.154	0.154	0.154	1.09	1.08	1.05
23	BXX-18334	500		Withstood	0.154	0.155	0.154	1.05	1.07	1.06
24	Bxx-18335	505		Withstood	0.155	0.155	0.155	1.12	1.12	1.08

KEI/FRWQCF/108.00 for KEI INDUSTRIES LIMITED





DELTA
TESTING & RESEARCH LABORATORIES PVT. LTD.



Plot No.C-5, Block- C, Main Kanjawala Road
Rajiv Nagar, Delhi -110086
M: 9810479889, 9811037450, 9310843393
E: dtrlinfo@gmail.com, W: www.deltatestinglab.com

TEST REPORT

Issued to:
M/s Rudrax Polymers Pvt Ltd.
Sector-13 to Tigrana Road, Near Huda
Water Works, Bhiwani.(H.R.)127021

Report No. : DTRL/GEN/060824001/NN
Report Date : 29/08/2024
Your Ref. No. : Nil
Date of Receipt : 06/08/2024
Period of Testing : 06/08/2024 – 28/08/2024

DTRL-2024-3421



Sample Description : HDPE DWC PIPE ID 140 mm OD 160 mm (Orange) Pliable

S. No.	Test	Units	Test Method	Results	Requirement IS 16205(P-24):2017	Conformity
Discipline: Mechanical Group: Plastics And Plastic Products						
1.	Dimension	mm	IS 16205(P-24):2017			
	a) Outside diameter			120.10	120.0-122.0	Yes
	b) Inside diameter			103.54	90 Min.	Yes
2.	Construction	-	IS 16205(P-1):2017	Passes the Test	Within the conduit system these shall be no sharp edges burrs or surface projection which are likely to damage insulated conductors or cable or inflict injury on the instable or user.	Yes
3.	Compression test at 5% deflection 750 N	N	IS 16205(P-24):2017	840	750 Min.	Yes
4.	Impact Strength	-	IS 16205(P-24):2017	Passes the test	There shall no crack allowing the injury of light or water between the inside and outside.	Yes
5.	Fire Hazard (Resistance to Flame Propagation)	-	IS 16205(P-24):2017	Passes the test	i. The sample is deemed to have passed the test if it does not ignite ii. The sample is deemed to have passed the test. If it does ignite but all of the following are met. a. Flaming or glowing of the sample is extinguished within 30S after removal of the test flame b. The tissue paper does not ignite c. After extinction of Fleming or glowing of the sample, there is no evidence of burning or charring within 50mm of the lower or formity of the upper clamp.	Yes

Reviewed By :

Authorised Signatory

Roushan Kumar
Tech. Manager

- (1) The results listed refer only to tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.
(2) Total liability of our Lab is limited to the invoiced amount.
(3) Samples will be destroyed after 30 days from the date of test report unless otherwise specified.
(4) This report is not to be reproduced wholly or in part and cannot be used as an evidence in the court of Law and should not be used in any advertising media without our special permission in writing
(5) Report refer to the sample submitted to us and not drawn by us unless mentioned otherwise.

TEL.: +91-253 – 2381509/10/13
 Email: sales-IN-NSK@lucyelectric.com
 FAX: +91-253-2381542

TEST CERTIFICATE

This is to certify that the undernoted switchgear has been tested for routine test in accordance with relevant clauses IEC: 62271-200, IEC: 62271-1, IEC: 62271-100, IEC: 62271-103, IEC: 62271-102 far as they are applicable and has passed these tests satisfactorily.

Date of Test :23/11/2024

CUSTOMER: SURYA ELECTRICALS, JAIPUR

Work Order No: OSF2306

Customer's Order No: PKS/24-25/L-M/252 DATE:11/11/2024

Unit type: Vacuum Circuit Breaker SF6 RING MAIN UNIT, Type- SABRE- VRN

Rating: 3-ph, 11kV, 630A RING SWITCH & 630A CIRCUIT BREAKER.

Unit Sr. No.: **SAB11244099**

TESTS:-

1. Operation test. : Passed
2. Power frequency H.V. Test for 1 minute withstands.
 - a) With all switches closed, tests between poles and earth at 28 kV. : Passed
 - b) With all switches closed, test between two poles & third pole Earthed at 28 kV. : Passed
 - c) With ring main 1 and Ring 2 closed and off load Isolator closed and breaker open, 32 kV across isolation of the circuit breaker. : Passed
 - d) With ring 1 closed and 2 open off load closed and Breaker closed 32 kV across switch breaks of ring 2 : Passed
3. Primary Injection test & shunt trip test: : Passed
4. Voltage Presence Indication Test : Passed
5. 2 KV test on auxiliary wiring : Passed
6. Gas Leak Test : Passed
7. Resistance of main circuit:

Description	Max. Value Permitted (Micro Ohms)	Within Limits		
		R	Y	B
a) Ring Main 1 To Breaker	540	OK	OK	OK
b) Ring Main 2 To Breaker	540	OK	OK	OK
c) Ring Main 1 To Ring Main 2	240	OK	OK	OK
d) Ring Main 1 To Earth	500	OK	OK	OK
e) Ring Main 2 To Earth	500	OK	OK	OK
f) VCB Tee-off To Earth	1200	OK	OK	OK



Tested by: Q.A. Dept.
 Lucy Electric India Pvt.Limited.

(QA/IR/007-8-1)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	SVARN INFRATEL PVT. LTD. (LAB DIVISION), 74TH MILESTONE DELHI MATHURA ROAD, PALWAL, HARYANA, INDIA	Page No	1 of 8
Accreditation Standard	ISO/IEC 17025:2017	Last Amended on	-
Certificate Number	TC-4096		
Validity	27/04/2023 to 26/04/2025		

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages upto and including 1100V	Ageing in Air Oven	IS 14255, IS 10810 (Pt-11)
2	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages upto and including 1100V	Bending Test	CL. 11.4 of IS 14255
3	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages upto and including 1100V	Breaking load (Messenger Conductor)	IS 14255, IS 10810 (Pt-2)
4	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages upto and including 1100V	Conductor Resistance(Drain Wire/Armour/Metal Screen)	IS 14255,IS 10810 (Pt-5)
5	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages upto and including 1100V	Elongation of Insulation & Sheath	IS 14255,IS 10810 (Pt-7)
6	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages upto and including 1100V	Elongation on messenger Conductor	Clause- 11.3 of IS 14255
7	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages upto and including 1100V	High Voltage at Room Temperature	IS 14255,IS 10810 (Pt-45)
8	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages upto and including 1100V	Hot Set for XLPE	IS 14255,IS 10810 (Pt-30)
9	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages upto and including 1100V	Insulation Resistance (Volume Resistivity Test	IS 14255, IS 10810 (Pt-43)
10	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages upto and including 1100V	Shrinkage Test	IS 14255, IS 10810 (Pt-12)
11	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages upto and including 1100V	Tensile (Aluminium)	IS 14255, IS 10810 (Pt-2)
12	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages upto and including 1100V	Tensile Strength of Insulation & Sheath	IS 14255, IS 10810 (Pt-7)
13	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages upto and including 1100V	Thickness of insulation & Sheath & Measurement of overall dia	IS 14255, IS 10810 (Pt-6)
14	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages upto and including 1100V	Water Absorption on XLPE (Gravimetric)	IS 14255, IS 10810 (Pt-33)
15	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages upto and including 1100V	Water Immersion(High Voltage)	Clause 16.3 of IS 1554 (Pt-1)
16	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages upto and including 1100V	Wrapping(Aluminium)	IS 14255, IS 10810 (Pt-3)
17	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Adhesion of Armour	IS 7098 (Part 1), IS 3975



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SVARN INFRATEL PVT. LTD. (LAB DIVISION), 74TH MILESTONE DELHI MATHURA ROAD,
PALWAL, HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-4096

Page No

2 of 8

Validity

27/04/2023 to 26/04/2025

Last Amended on

-

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
18	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Ageing in air oven	IS 7098 (Part 1), IS 10810 (Pt-11)
19	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Anealing (Copper)	IS 7098 (Part-1), IS 10810 (Pt-1)
20	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Annealing (Copper)	IS 7098 (Part 1), IS 10810 (Pt-1)
21	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Armour Dimensions	IS 7098 (Part-1), IS 10810 (Pt-36)
22	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Armour Resistance(Resistivity)	IS 7098 (Part-1), IS 10810 (Pt-42)
23	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Cold Bend Test	IS 7098 (Part-1), IS 10810 (Pt-20)
24	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Cold Impact Test	IS 7098 (Part-1), IS 10810 (Pt-21)
25	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Conductor Resistance (Drain Wire/Armour/Metal Screen)	IS 7098 (Part-1), IS 10810 (Pt-5)
26	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Elongation of Armour	IS 7098 (Part-1), IS 10810 (Pt-37)
27	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Elongation of Insulation & Sheath	IS 7098 (Part-1), IS 10810 (Pt-7)
28	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Flame Retardance on bunched cable	IS 7098 (Part-1), IEC 60332 (Pt-3)
29	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Flame retardance test on single cable	IS 7098 (Part-1)
30	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Halogen Acid Gas Evolution / Corrosive & halogen acid gas	IS 7098 (Part-1), IS 10810 (Pt-59)
31	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Heat Shock	IS 7098 (Part-1), IS 10810 (Pt-14)



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32	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	High Voltage at room temp.	IS 7098 (Part-1), IS 10810 (Pt-45)
33	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Hot Deformation/Pressure	IS 7098 (Part-1), IS 10810 (Pt-15)
34	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Hot Set for XLPE	IS 7098 (Part-1), IS 10810 (Pt-30)
35	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Insulation Resistance (Volume Resistivity Test)	IS 7098 (Part-1)
36	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Loss of mass	IS 7098 (Part-1), IS 10810 (Pt-10)
37	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Mass of Zinc Coating	IS 7098 (Part-1), IS 10810 (Pt-41)
38	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Oxygen Index	IS 7098 (Part-1), IS 10810 (Pt-58)
39	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Shrinkage	IS 7098 (Part-1), IS 10810 (Pt-12)
40	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Smoke density	IS 7098 (Part-1), ASTM D 2843
41	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Spark Test	IS 7098 (Part-1), IS 10810 (Pt-44)
42	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Temperature Index	IS 7098 (Part-1), IS 10810 (Pt-64)
43	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Tensile Strength & elongation of Insulation & Sheath	IS 7098 (Part-1), IS 10810 (Pt-7)
44	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Tensile Strength (Aluminium)	IS 7098 (Part-1), IS 10810 (Pt-2)
45	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Tensile Strength of Armour	IS 7098 (Part-1), IS 10810 (Pt-37)



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46	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Test under Fire Conditions/ Flammability Test	IS 7098 (Part-1), IS 10810 (Pt-53)
47	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Thermal Stability	IS 7098 (Part-1)
48	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Torsion of wire	IS 7098 (Part-1), IS 10810 (Pt-38)
49	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Uniformity of Zinc Coating	IS 7098 (Part-1), IS 10810 (Pt-40)
50	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Water Absorption on XLPE (Gravimetric)	IS 7098 (Part-1), IS 10810 (Pt-33)
51	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Winding on Strip	IS 7098 (Part-1), IS 10810 (Pt-39)
52	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Wrapping Test (Aluminium)	IS 7098 (Part-1), IS 10810 (Pt-3)
53	ELECTRICAL- CABLES & WIRES	Electric cables for working voltages upto 1100	Flame retardance test on single cable	IS 1554 (Part-1), IS 10810 (Pt-61)
54	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Ageing in air oven	IS 694, IS 10810 (Pt-11)
55	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Annealing (copper)	IS 694, IS 10810 (Pt-1)
56	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Cold bend Test	IS 694, IS 10810 (Pt-20)
57	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Cold impact Test	IS 694, IS 10810 (Pt-21)
58	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Conductor Resistance	IS 694, IS 10810 (Pt-5)
59	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Durability and Legibility of Marking	Clause-11.1, 11.2 of IS 694

Shree Prithvi Steel Rolling Mills Pvt. Ltd.

Manufacturers of M.S. ANGLE, TEE, GATE CHANNEL ISI MARKED WINDOW & DOOR SECTION GENERAL FABRICATION & JOB WORKS ETC.

B-230 (A), Road No. 9, Vishwakarma Industrial Area, JAIPUR-302013 (Raj.)

Phone: (O) 2330478, 2332522, @ 2340727, Fax: 0141-5108478

WORK TEST CERTIFICATE

Date: 30-05-2024

To

M/S Shree Ambika Electricals

TEST RESULTS

Order No. & Date	Section (Nominal Size) mm	Cast. Lot No.	Quantity M. T.	CHEMICAL ANALYSIS						.02% Proof Stress/Yield Stress/N/mm2	MECHANICAL PROPERTIES			
				C %	S %	P %	Si %	Mn %	CE %		Tensile Strength N/mm2	Elongation %	Bend and Reband Test	Grade
	<u>MS ANGLE</u> 65x65x5			0.17	0.040	0.038	0.19	0.56	0.28	280	440	25	OK	FE410WA
	50x50x6			0.19	0.037	0.039	0.18	0.55	0.27	295	475	27	OK	FE410WA
	<u>MS CHANNEL</u> 100x50			0.18	0.038	0.040	0.18	0.60	0.26	295	460	27	OK	FE410WA
	<u>MS FLAT</u> 50X10			0.21	0.039	0.041	0.17	0.58	0.30	305	465	26	OK	FE410WA
	50X6			0.19	0.037	0.036	0.20	0.57	0.28	310	455	28	OK	FE410WA

The Material supplied conforms to the standard specifications.

The Material supplied confirms to the standard rolling and mass tolerance

Cart/Truck No.....

Chilan No..... Date

For Shree Prithvi Steel Rolling Mills Pvt. Ltd.



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60	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Elongation at break on Insulation and Sheath	IS 694, IS 10810 (Pt-7)
61	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Halogen Acid Gas Evolution / Corrosive & halogen acid gas	IS 694, IS 10810 (Pt-59)
62	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Heat shock Test	IS 694, IS 10810 (Pt-14)
63	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	High Voltage test (Water immersion)	Clause 10.1 of IS 694
64	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	High Voltage test at room temperature	IS 694, IS 10810 (Pt-45)
65	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Hot deformation test / Pressure Test at High Temperature	IS 694, IS 10810 (Pt-15)
66	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Loss of mass	IS 694, IS 10810 (Pt-10)
67	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Oxygen Index	IS 694, IS 10810 (Pt-58)
68	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Shrinkage Test	IS 694, IS 10810 (Pt-12)
69	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Smoke density	IS 694, ASTM D 2843
70	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Spark Test	IS 694, IS 10810 (Pt-44)
71	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Temperature Index	IS 694, IS 10810 (Pt-64)
72	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Temperature Index Test	IS 694, ASTM D 2863
73	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Tensile strength at break on Insulation and Sheath	IS 694, IS 10810 (Pt-7)



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74	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Tensile Test (for Aluminium)	IS 694, IS 10810 (Pt-2)
75	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Test for overall dimensions and Thickness of insulation & Sheath	IS 694, IS 10810 (Pt-6)
76	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Test under Fire Conditions/ Flammability Test	IS 694, IS 10810 (Pt-53)
77	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Test under fire Conditions/ Flammability Test	IS 694, IEC 60332 (Pt-1)
78	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Thermal Stability	IS 694, IS 10810 (Pt-60)
79	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Thickness of insulation & Sheath & Measurement of overall dia	IS 7098 (Part-1), IS 10810 (Pt-6)
80	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Wrapping Test (for Aluminum)	IS 694, IS 10810 (Pt-3)
81	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100	Flame Retardance on bunched cable	IS 1554 (Part-1), IEC 60332 (Pt-3)
82	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100	Insulation Resistance (Volume Resistivity Test)	IS 1554 (Part-1), IS 10810 (Pt-43)
83	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100	Smoke Density	IS 1554 (Part-1), ASTM D 2843
84	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100	Tensile(Aluminium)	IS 1554 (Part-1), IS 10810 (Pt-2)
85	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100	Test under Fire Conditions/ Flammability Test	IS 1554 (Part-1), IS 10810 (Pt-53)
86	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100	Thermal Stability	IS 1554 (Part-1), IS 10810 (Pt-60)
87	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Adhesion of Armour	IS 1554 (Part-1), IS 3975
88	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Ageing in air oven	IS 1554 (Part 1), IS 10810 (Pt-11)
89	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Annealing (Copper)	IS 1554 (Part 1);, IS 10810 (Pt-1)



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90	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Armour Resistance (Resistivity)	IS 1554 (Part 1), IS 10810 (Pt-42)
91	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Cold Bend Test	IS 1554 (Part 1), IS 10810 (Pt-20)
92	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Cold Impact Test	IS 1554 (Part-1), IS 10810 (Pt-21)
93	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Conductor Resistance(Drain Wire/Armour/Metal Screen)	IS 1554 (Part-1), IS 10810(Pt-5)
94	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Dimensioning of Armouring material	IS 1554 (Part-1), IS 10810 (Pt-36)
95	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Elongation of Armour	IS 1554 (Part-1), IS 10810 (Pt-37)
96	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Elongation of Insulation & Sheath	IS 1554 (Part-1), IS 10810 (Pt-7)
97	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	HCL acid gas generation	IS 1554 (Part-1), IS 10810 (Pt-59)
98	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Heat Shock	IS 1554 (Part-1), IS 10810 (Pt-14)
99	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	High Voltage at Room Temperature	IS 1554 (Part-1), IS 10810 (Pt-45)
100	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Hot Deformation/Pressure	IS 1554 (Part-1), IS 10810 (Pt-15)
101	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Loss of Mass	IS 1554 (Part-1), IS 10810 (Pt-10)
102	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Mass of Zinc Coating	IS 1554 (Part-1), IS 10810 (Pt-41)
103	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Oxygen Index Test	IS 1554 (Part-1), IS 10810 (Pt-58)
104	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Shrinkage	IS 1554 (Part-1), IS 10810 (Pt-12)
105	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Spark Test	IS 1554 (Part-1), IS 10810 (Pt-44)
106	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Temperature Index Test	IS 1554 (Part-1), IS 10810 (Pt-64)
107	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Tensile Strength of Armour	IS 1554 (Part-1), IS 10810 (Pt-37)
108	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Tensile Strength of Insulation & Sheath	IS 1554 (Part-1), IS 10810 (Pt-7)



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109	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Thickness of insulation & Sheath & Measurement of overall dia	IS 1554 (Part-1), IS 10810 (Pt-6)
110	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Torsion of Wire	IS 1554 (Part-1), IS 10810 (Pt-38)
111	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Uniformity of Zinc Coating	IS 1554 (Part-1), IS 10810 (Pt-40)
112	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Water Immersion(High Voltage)	Clause 16.3 of IS 1554 (Part-1)
113	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Winding/ Wrapping Test on Galvanized steel strip for Armouring	IS 1554 (Part-1), IS 10810 (Pt-39)
114	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V	Wrapping(Aluminium)	IS 1554 (Part-1), IS 10810 (Pt-3)
115	ELECTRICAL- CABLES & WIRES	Test Method for Measuring the Oxygen Index	Oxygen Index Test	ASTM D2863-17a
116	ELECTRICAL- CABLES & WIRES	Test Method to determine density of smoke from the burning or decomposition of plastics	Smoke Density	ASTM D2843
117	ELECTRICAL- CABLES & WIRES	Test Method to determine the amount of Halogen Acid Gas evolved during combustion of polymeric material taken from Cables	HCL acid gas generation	IEC 60754(Part-1)

केंद्रीय पेट्रोसायन अभियांत्रिकी एवं
प्रौद्योगिकी संस्थान (सिपेट)
कौशल एवं तकनीकी सहायता
केन्द्र (सी.एस.टी.एस)

रसायन एवं पेट्रोसायन विभाग,
रसायन एवं उर्वरक मंत्रालय, भारत सरकार
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CENTRAL INSTITUTE OF PETROCHEMICALS
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CENTRE FOR SKILLING AND
TECHNICAL SUPPORT (CSTS)

Department of Chemicals & Petrochemicals
Ministry of Chemicals & Fertilizers, Govt. of India
SP-1298, Sitapura Industrial Area,
Phase-III, Tonk Road, Jaipur-302 022
Ph. : +91-141-2770264/65/66, 2770664
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E-mail : jaipur@cipet.gov.in; cipetjaipur@gmail.com
Website : www.cipet.gov.in
Head Office : CIPET, Guindy, Chennai-600 032

TEST REPORT NO. : 2902(b)
Dated : 21.02.2024

PART - C
TEST RESULT

Sample: Conduit Systems for Cable Management, OD/ID 160/140 mm, As per IS: 16205 (Part-24):2017

S. No.	Clause	Name of the Test	Test Method	Unit	Specified Value	Test Value
6.	10.3	Impact strength (Light duty)	IS: 16205 (Part-24)-2017	---	There shall be no crack allowing the ingress of light or water between the inside and the outside.	There is no crack allowing the ingress of light or water between the inside & outside.
7.	10.4	Bending Test	IS: 16205 (Part-24)-2017	---	Shall not be flatten	Not Applicable
8.	10.4	Bending Test (at -5° C)	IS: 16205 (Part-24)-2017	---	Shall not be flatten	Not Applicable
9.	13.1.3	Spread of fire (Resistance to flame propagation)	IS: 16205 (Part-1)-2017	---	Sample of non-metallic composite after the test samples shall not ignited by the flame it shall deemed to have passed the test.	Sample is ignited after the test.
		Glow Wire Test at 750 °C	IS: 16205 (Part-1)-2017	---	The sample is deemed to have passed this test if there is no visible flame or glowing extinguish within 30 second of the removal of the glow wire.	There is no visible flame or sustained glowing after 30 seconds of removal of the glow wire at 750°C.

Page 3 of 4



Signature

केंद्र : अहमदाबाद, अमृतसर, औरंगाबाद, अगरतला, बदी, बालासोर, बेंगलुरु, भोपाल, भुवनेश्वर, चंद्रपुर, चेन्नई, देहरादून, गुवाहाटी, गुलामगुलाम, ग्वाल्तर, हरदोबा, हाजीपुर, हल्दिया, इम्फाल, जयपुर, कोच्ची, कोरबा, लखनऊ, मदुरै, मुरधाल, मैसूर, रायपुर, राँची, बलसाड, वाराणसी एवं विजयवाड़ा
Centres : Ahmedabad, Amritsar, Aurangabad, Agartala, Baddi, Balasore, Bengaluru, Bhopal, Bhubaneswar, Chandrapur, Chennai, Dehradun, Guwahati, Gulamgulam, Gwalior, Haldia, Hazipur, Haldia, Imphal, Jaipur, Kochi, Korba, Lucknow, Madurai, Murdhal, Mysuru, Raipur, Ranchi, Balasod, Varanasi and Vijayawada



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केंद्रीय पेट्रोसायन अभियांत्रिकी एवं
प्रौद्योगिकी संस्थान (सिपेट)
कौशल एवं तकनीकी सहायता
केन्द्र (सी.एस.टी.एस)

रसायन एवं पेट्रोसायन विभाग,
रसायन एवं उर्वरक मंत्रालय, भारत सरकार
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मुख्यालय : सिपेट, गिन्दी, चेन्नई-600 032



CENTRAL INSTITUTE OF PETROCHEMICALS
ENGINEERING & TECHNOLOGY (CIPET)
CENTRE FOR SKILLING AND
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Head Office : CIPET, Guindy, Chennai-600 032

TEST REPORT NO. : 2902(b)
Dated : 21.02.2024

PART - C
TEST RESULT

Sample: Conduit Systems for Cable Management, OD/ID 160/140 mm, As per IS: 16205 (Part-24):2017

S. No.	Clause	Name of the Test	Test Method	Unit	Specified Value	Test Value
10.	14.0	External influences; Degree of protection provided by enclosures (IP-67) a) Degree of Protection ingress of foreign solid objects (IP 6X)	IS: 16205 (Part-1)-2017	---	The assembly tested for numeral 6, shall be deemed to have passed the test if there is no ingress of dust visible to normal or corrected vision without magnification.	Dust not penetrated inside the sample after the test observed.
		b) Degree of Protection - ingress of water (IP X7)	IS: 16205 (Part-1)-2017	---	The assembly tested for numeral 7 shall be deemed to have passed the test if there is not sufficient ingress of water to form a drop visible to normal or corrected vision without magnification.	Ingress of water after the test observed.
11.	15.0	Electromagnetic Compatibility	IS: 16205 (Part-24)-2017	---	Product should be passive in respect of electromagnetic influences.	Conduit is passive enough in respect of electromagnetic influences.

PART - D:

REMARKS : All the above test has been conducted after conditioning as per clause 5.

NOTE :

1. This Test Report / Certificate is issued only for the samples submitted to CIPET.
2. The results stated above related only to the items tested.
3. The quality of the subsequent production lot has to be ensured by the purchaser.
4. Any discrepancy in this report shall be brought to the notice of CIPET: CSTS-Jaipur within 30 days from the date of issue.

Dr. Bishnu Prasad Panda (Manager-Technical)
AUTHORIZED SIGNATORY



Sanjay Choudhry (Director & Head)
AUTHORIZED SIGNATORY
Page 4 of 4

केन्द्र : अहमदाबाद, अमृतसर, औरंगाबाद, अगरतला, बही, बालासोर, बैंगलूर, बोपाल, भुवनेश्वर, चंद्रपुर, चेन्नई, देहरादून, गुवाहाटी, गुलामग, ग्वालियर, हैदराबाद, हाजीपुर, हल्दिया, इम्फाल, जयपुर, कोच्ची, कोरबा, लखनऊ, मदुरै, मुरगल, नैसूर, रायपुर, रांची, वलसाड, वाराणसी एवं विजयवाड़ा
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DELTA
TESTING & RESEARCH LABORATORIES PVT. LTD.



Plot No.C-5, Block- C, Main Kanjawala Road
Rajiv Nagar, Delhi -110086
M: 0596777, 9810479889, 9811037450, 9310843393
E: dtrlinfo@gmail.com, W: www.deltatestinglab.com

TEST REPORT

Issued to:
M/s Rudrax Polymers Pvt Ltd.
Sector-13 to Tigrana Road, Near Huda
Water Works, Bhiwani.(H.R.)127021

Report No. : DTRL/GEN/060824001/NN
Report Date : 29/08/2024
Your Ref. No. : Nil
Date of Receipt : 06/08/2024
Period of Testing : 06/08/2024 - 28/08/2024

DTRL-2024-3421



Sample Description : HDPE DWC PIPE ID 140 mm OD 160 mm (Orange) Pliable

S. No.	Test	Units	Test Method	Results	Requirement IS 16205(P-24):2017	Conformity
Discipline: Mechanical						
Group: Plastics And Plastic Products						
6.	Degree of Propagation (IP-67) (Ingress of foreign Solid Objects)	-	IS OIEC 60529	Passes the Test	There is no ingress of dust visible to normal or Corrected vision without magnification.	Yes
7.	Degree of Protection (Ingress of water)	-	IS OIEC 60529	Passes the Test	There is not sufficient ingress of water to form a drop visible to normal or corrected vision without magnification	Yes
8.	Marking	-	IS 16205 (Pt-24):2017	Rudrax Polymers Pvt Ltd. HDPE DWC Pipe OD 120mm ID 103mm IS 16205 (Pt-24) :2017 TM Mastodon Batch No- RPPL0124070	-	-
9.	Bending Test	-	IS 16205 (Pt-24):2017	Passes the Test	During the test, the sample shall not flatten	Yes

****End of Report****

Roushan
Reviewed By :

Roushan
Authorised Signatory
Roushan Kumar
Tech. Manager

The results listed refer only to tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.
Total liability of our Lab is limited to the invoiced amount.
Samples will be destroyed after 30 days from the date of test report unless otherwise specified.
This report is not to be reproduced wholly or in part and cannot be used as an evidence in the court of Law and should not be
used in any advertising media without our special permission in writing
Report refer to the sample submitted to us and not drawn by us unless mentioned otherwise.



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Date of Receipt : 06/08/2024
Period of Testing : 06/08/2024 - 28/08/2024



Sample Description : HDPE DWC PIPE ID 140 mm OD 160 mm (Orange) Pliable

Discipline: Mechanical
Group: Plastics And Plastic Products

S. No.	Test	Units	Test Method	Results	Requirement	Conformity
					IS 16205(P-24):2017	
1.	Dimension	mm	IS 16205(P-24):2017			
	a) Outside diameter			120.10	120.0-122.0	Yes
	b) Inside diameter			103.54	90 Min.	Yes
2.	Construction	-	IS 16205(P-1):2017	Passes the Test	Within the conduit system these shall be no sharp edges burrs or surface projection which are likely to damage insulated conductors or cable or inflict injury on the instable or user.	Yes
3.	Compression test at 5% deflection 750 N	N	IS 16205(P-24):2017	840	750 Min.	Yes
4.	Impact Strength	-	IS 16205(P-24):2017	Passes the test	There shall no crack allowing the injury of light or water between the inside and outside.	Yes
5.	Fire Hazard (Resistance to Flame Propagation)	-	IS 16205(P-24):2017	Passes the test	i. The sample is deemed to have passed the test if it does not ignite ii. The sample is deemed to have passed the test. If it does ignite but all of the following are met. a. Flaming or glowing of the sample is extinguished within 30S after removal of the test flame b. The tissue paper does not ignite c. After extinction of Fleming or glowing of the sample, there is no evidence of burning or charring within 50mm of the lower or formity of the upper clamp.	Yes

Reviewed By :

Authorised Signatory

Roushan Kumar

results listed refer only to tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.
liability of our Lab is limited to the invoiced amount.
pics will be destroyed after 90 days from the date of report.

KEI INDUSTRIES LIMITED

RUCO INDUSTRIAL AREA Chopanki BHIWADI

(Raj)

ROUTINE TEST REPORT

Date: 21.11.2024

Ref :-KEI/23HT /P-40075-.P40979/CPK/01

CUSTOMER SHREE AMBIKA ELECTRICALS

P.o. No. & Date Nil Dated 21.11.2024

S ocification IS: 7098 Part-2

3C X 185 SQ MM 11 V E A2XFY (Insu. Red. Yellow,Blue Colour Strips Over the Cores & OtSh., Black)											
Strandod Compacted Aluminium Conductor with inner Semiconducting screening, XLPE Insulation with Outer Semiconducting Screening. Metallic Copper taped, laid Up with PVC Fillor, Extruded PVC (ST-2) Inner Sheath, Galvanisod Stool Strip Armoured, PVC ST-20utor Sheathed Cable.											
		Drum	Length (Mtrs.)	CORE COLOUR	H. V, Testat 21 kV A.C(rms) for 5minutes for exh conectbn	Conductor Resistance Ohms,'krn at 20 Deg C (Max)			Partial Discharge Testat 1.73 in pc		
						Red Yellow Blue			Red Yellow Blue		
						0.164 (Mao			10pc (Max.)		
		BXX-18312	500	Red. Yellow,Blue Colour Strips Over the Cores	Withstood	0.155	0.153	0.156	1.08	1.05	1.06
2		Bxx-18313	501		Withstood	0.154	0.155	0.153	1.05	1.06	1.08
3		BXX-18314	502		Withstood	0.153	0.154	0.155	1.06	1.12	1.05
4		Bxx-18315	503		Withstood	0.155	0.154	0.154	1.12	105	1.06
5		BXx-18316	502		Withstood	0.153	0.155	0.154	1.05	1.03	1.12
6		BXX-18317	501		Withstood	0.154	0.153	0.155	1.05	1.12	1.05
7		BXX-18318			Withstood	0.156	0.154	0.153	1.05	1.05	1.03
8		BXX-18319	495		Withstood	0.153	0.154	o. 154 0.154	1.06	1.06	1.12 1.05
9		BXX-18320	501			0.155 0.154	0.154 0.155		1.08 1.05	1.05 1.03	
10		BXx-18321	503		Withstood			0.154			1.06
11		BXX-18322	503		Withstood	0.154	o. 156	0.155	1.06	1.08	1.05
12		BXX-18323	509		Withstood	0.155	0.154	0.156	1.12	1.03	1.03
13		Bxx-18324	503		Withstood	0.153	0.155	0.154	1.05	1.09	1.08
14		BXX-18325	500		Withstood	0.154	0.156	0.155	1.03	1.05	1.03
15		BXx-18326	508		Withstood	0.154	0.154	0.156	1.12	1.12	1.09
16		BXX-'8327	503		Withstood	0.154	0.154	0.154	1.05	1.15	1.05
17		BXX-18328	508		Withstood	0.155	0.155	0.154	1.06	1.05	1.12
18		BXX-18329	505		Withstood	0.156	o. 154	0.155	1.05	1.03	1.15
19		BXX-18330	506		Withstood	0.154	0.153	0.154	1.03	1.12	1.05

20	BXX-18331			Withstood	0.155	0.155	0153	1.08	1.05	1.03
21	BXX-18332	505		Withstood	0.156	0.154	0.155	1.03	1.06	1.12
22	BXX-18333	502		Withstood	0.154	0.154	0.154	1.09	1.08	1.05
23	BXX-18334	500		Withstood	0.154	0.155	0.154	1.05	1.07	1.06
24	Bxx-18335	505		Withstood	0.155	0.155	0.155	1.12	1.12	1.08

KEI/FRWQCF/108.OO for KEI INDUSTRIES LIMITED





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TESTING & RESEARCH LABORATORIES PVT. LTD.



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Report Date : 29/08/2024
Your Ref. No. : Nil
Date of Receipt : 06/08/2024
Period of Testing : 06/08/2024 – 28/08/2024

DTRL-2024-3421



Sample Description : HDPE DWC PIPE ID 140 mm OD 160 mm (Orange) Pliable

S. No.	Test	Units	Test Method	Results	Requirement IS 16205(P-24):2017	Conformity
Discipline: Mechanical Group: Plastics And Plastic Products						
6.	Degree of Propagation (IP-67) (Ingress of foreign Solid Objects)	-	IS OIEC 60529	Passes the Test	There is no ingress of dust visible to normal or Corrected vision without magnification.	Yes
7.	Degree of Protection (Ingress of water)	-	IS OIEC 60529	Passes the Test	There is not sufficient ingress of water to form a drop visible to normal or corrected vision without magnification	Yes
8.	Marking	-	IS 16205 (Pt-24):2017	Rudrax Polymers Pvt Ltd. HDPE DWC Pipe OD 120mm ID 103mm IS 16205 (Pt-24) :2017 TM Mastodon Batch No- RPPL0124070	-	-
9.	Bending Test	-	IS 16205 (Pt-24):2017	Passes the Test	During the test, the sample shall not flatten	Yes

****End of Report****

Roushan
Reviewed By :

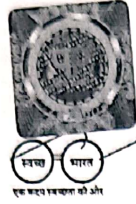
Roushan
Authorised Signatory

Roushan Kumar
Tech. Manager

- (1) The results listed refer only to tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.
(2) Total liability of our Lab is limited to the invoiced amount.
(3) Samples will be destroyed after 30 days from the date of test report unless otherwise specified.
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(5) Report refer to the sample submitted to us and not drawn by us unless mentioned otherwise.

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कौशल एवं तकनीकी सहायता
केन्द्र (सी.एस.टी.एस)

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मुख्यालय : सिपेट, गिण्डी, चैन्नई-600 032



सिपेट CIPET

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Azadi Ka
Amrit Mahotsav



CENTRAL INSTITUTE OF PETROCHEMICALS
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CENTRE FOR SKILLING AND
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Department of Chemicals & Petrochemicals
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Website : www.cipet.gov.in
Head Office : CIPET, Guindy, Chennai-600 032

PLASTICS TESTING CENTRE

TEST CERTIFICATE

ULR-TC708224000000380F

Issued to:

M/s. Rudrax Polymers Pvt. Ltd.,
Sector-13 to Tigrana Road,
Near Huda Water Works,
Bhiwani-127021 (Haryana).

TEST REPORT NO. : 2902(b)

Dated : 21.02.2024

Your Ref. No. & Dated : ---, Dated 28.11.2023 & mail dated 16.02.2024

W.O. No. : 2425

Test Report as per Standard: As per Part 'C'

PART - A

PARTICULARS OF SAMPLE SUBMITTED BY PARTY

- | | |
|--|---|
| a) Name of Sample | : Conduit Systems for Cable Management |
| b) Grade/Variety/Type/Size/Class | : OD/ID 160/140 mm, Type 450N, Rigid |
| c) Declared Value, if any | : Multiwall, Non-Metallic, Corrugated, 450 N, Rigid,
Resistance to Impact-Light,
Non-flammable propagating,
Resistance to External influence IP 67 |
| d) Code No. | : NIL |
| e) Batch No. and Date of Manufacturing | : NIL |
| f) Quantity | : Pipe: 06 Nos. x 03 mtr., 03 Nos. x 1.5 mtr.,
End Cap: 12 Nos., Coupler: 12 Nos., Rubber Ring: 25 Nos. |
| g) Mode of Packing | : NIL |
| h) Sealed or not | : NIL |
| i) Date of Receipt | : 28.11.2023 |
| j) Date of completion | : 21.02.2024 |
| k) Any other information | : NIL |

PART - B

SUPPLEMENTARY INFORMATION

- | | | |
|------|--|-------|
| i. | Reference to sampling procedure | : NIL |
| ii. | Supporting documents for the measurement taken and result derived | : NIL |
| iii. | Deviation from the test method as prescribed in relevant work instruction if any | : NIL |



Page 1 of 4

केंद्र : अहमदाबाद, अमृतसर, औरंगाबाद, अगरतला, बरी, बालासोर, बेंगलुरु, भोपाल, भुवनेश्वर, चंद्रपुर, चेन्नई, देहरादून, गुवाहाटी, गुरुग्राम, म्हालियार, हैदराबाद, हाजीपुर, हरिद्वार, इम्फाल, जयपुर, कोच्ची, कोरबा, लखनऊ, मद्रास, मुरधल, मेसूर, रायपुर, राँची, बलसाड, बाराणसी एवं विजयवाड़ा
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रसायन एवं लेबर कंत्रालय, भारत सरकार
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मुख्यालय : सिपेट, गिण्डी, चैन्नई-600 032



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S. No.	Clause	Name of the Test	Test Method	Unit	Specified Value	Test Value
1.	3.0	Visual	IS: 16205 (Part-24)-2017	---	A conduit consisting of several walls which may be a combination of plain and /or corrugated walls.	The conduit consist two walls inner wall is plain and outer wall is corrugated.
2.	7.0	Marking	IS: 16205 (Part-24)-2017	---	Conduit shall be marked in such a way that it can be identified in the manufacturers or responsible vendors literature.	RUDRAX Polymers PVT. LTD. Bhiwani HDPE DWC Pipe ID 140 mm OD 160 mm 450N IS 16205 Part-24 CM/L NO. 09512459019 TM MAST D0N Batch No. 01231101. Marking is durable and easily legible.
3.	8.0	Dimension (a) Outside diameter (b) Tolerances (c) Inside diameter (min.)	IS: 16205 (Part-24)-2017	mm mm mm	160.0 +2.9 120	160.24 +0.24 140.17
4.	9.0	Construction	IS: 16205 (Part-24)-2017	---	Within the conduit system, there shall be no sharp edges, burrs, a surface projection which are likely to damage insulated conductors or cables or inflict injury to the installer or user.	Within the conduit system there is no sharp edges, burrs, a surface projection which are likely to damage insulated conductor or cables or inflict injury to the installer or user.
5.	10.2	Compression	IS: 16205 (Part-24)-2017	N	Applied force shall be at least 450 N @ 5% deflection & After the test there shall be no crack allowing the ingress of light or water between the inside and the outside.	There is no crack observed up to the load 480 N at 5% deflection during the test.

AJMER VIDYUT VITRAN NIGAM LIMITED
CENTRAL TESTING LABORATORY
TEST REPORT

Name of Item 11 KV XLPE INSULATED PVC SHEATHED ARMoured CABLE 3C X 185 sq.mm
 Name of Firm M/S SHREE AMBIKA ELECTRICALS
 Received From XEN (O&M-II) AVVNL, UDAIPUR Make KEI
 Refrence

Date 15-02-25
 Seal no. 8131843-44
 CR NO. 95/131966 DATED 13-2-25
 Job no.13-2-25

(A) MEASUREMENT OF RESISTANCE OF CONDUCTOR :-

Maximum resistance at 20° C allowed as per ISS 0.164 ohms/km for conductor.

Length of Sample (meter)	Temperature "C"	Phase	Resistance measured (milli/Ohms)	Temperature Correction Factor as per ISS	Resistance at 20° C (Ohm/KM)
10.6	26	R	1.520	0.98	0.140
		Y	1.530	0.98	0.140
		B	1.510	0.98	0.139

The sample passed this test.

(C) TENSILE TEST & ELONGATION AT BREAK TEST FOR INSULATION & SHEATH :-

PHASES	Minimum required load (N)	Observed load (N)	Observed tensile strength (N/Sq.mm.)	Specified min. tensile strength (N/Sq.mm)	Length of the sample piece (mm)	Observed elongation at break (mm)	Observed % elongation at break	Specified minimum % elongation at break
XLPE Insulation - R	58	85	18.33	12.5	24	155.3	547.08	200
XLPE Insulation - Y	64.02	92	17.96	12.5	24	153.9	541.25	200
XLPE Insulation - B	56	97	21.85	12.5	24	176.5	635.42	200
PVC Sheath	170.5	180	13.20	12.5	24	50.1	208.75	150

The sample passed this test.

(D) TEST FOR THICKNESS OF INSULATION & SHEATH :-

Required Nominal thickness 3.6mm & Minimum thickness 3.14mm (as per ISS) for XLPE Insulation.
 Required thickness as per GTP /IS 7098 & 10462 for outer Sheath is 2.36mm.

Measured Thickness of insulation at different places (mm)							XLPE (Nominal) Sheath (Min.) (Thickness in mm)
Thickness	I	II	III	IV	V	VI	
XLPE Insulation - R	4.87	4.86	4.88	5.10	4.95	4.91	4.93
XLPE Insulation - Y	4.96	4.85	4.99	5.02	5.06	5.01	4.98
XLPE Insulation - B	4.71	4.66	4.80	4.74	4.65	4.53	4.68
Outer PVC Sheath	3.48	3.48	3.47	3.47	3.43	3.41	3.41

The sample passed this test.

(E) HOTSET TEST :-

	Length of the sample piece (mm)	Observed elongation (mm)	Observed Hot Set elongation (%)	Specified maximum value (%)	Observed permanent set (mm)	Observer permanent set (%)	Specified maximum permanent set (%)
XLPE Insulation - R	20	31.24	56.2	175	22.04	10.20	15
XLPE Insulation - Y	20	31.88	59.4	175	21.77	8.85	15
XLPE Insulation - B	20	28.42	42.1	175	21.08	5.40	15

The sample passed this test.

(F) TEST FOR ARMOUR (AS PER GTP/IS 3975/99):-

(F) TEST FOR ARMOUR (AS PER GTP/IS 3975/99):-											
Percentag e Coverage	TOTAL NO. OF ARMOUR STRIPS	NOMINAL DIMENSION OF ARMOUR WIRE/STRIP	TENSILE STRENGTH	ELONGATION AT BREAK		UNIFORMITY OF ZINC COATING 1 NO. of Dip (1 min each)	WEIGHT OF ZINC COATING	WINDING TEST	RESISTANCE (in miliohm/mtr.) AT TEM.	RESISTAN CE at 20° C (mili ohm/mtr.)	RESISTIVITY (ohmcm.) at 20° C Max.
				Gauge Length = 250mm							
90%		4.00 X .80 (MIN. 3.6X.72 & Max. 4.4 X.88)	Min. allowed braking load as per IS :3975 (250-580 N/Sqmm.)	Elongation Observed (in mm.)	Min. % Elongation as per IS (Req. Min.6%)						1.45E-05
92.0%	38	width, thickness	480.17	302	20.8	No copper deposits observed	Facility not available	Facility not available	43.45	42.2501	1.178E-05
		3.82									
		0.73									

The sample passed this test.

Conclusion : This sample PASSED the above tests.

Firm's Representative

JEn (CTL)
 AVVNL, Ajmer

AEn (CTL)
 AVVNL, Ajmer

XEn/AEn/ACOS (M)
 AVVNL, Ajmer

XEn (CTL)
 AVVNL, Ajmer

NO. AVVNL/XEN/CTL/AJMER/F. /D. 5941 DATE 15.02.2025
 Copy Submitted to the following For information & necessary action.

- 1) The XEN (O&M-II) AVVNL, UDAIPUR
- 2) M/S M/S SHREE AMBIKA ELECTRICALS

XEn (CTL)
 AVVNL, Ajmer