



NORTH BIHAR POWER DISTRIBUTION CO. LTD.

[Office of Chief Engineer, Project-II]

(Regd. Office: Vidyt Bhawan, Bailey Road, Patna)

CIN No: U40109BR2012SGC018920

Letter No: 346
[File No: NB/P-II/RDSS/Purnea/Cabcon/83//2023]

Contact No: +91-9264437179

Dated: 03/08/23

E-mail: cerdssnbpdc12@gmail.com

From,

Pranav Kumar,
Chief Engineer (Projects-II)

To,

M/S CABCON India Limited
1st Floor, The Terminus Building, BG-12, Action Area -1B,
New Town, Kolkata-700156 Telephone/Fax numbers: 033 4036 5000
Email: project@cabconindia.com

Sub: - Approval of GTP & Drawings of 11 KV Termination and Jointing Kits of M/s Frontier Technologies Private Limited, Gurgaon against NIT No: 33/PR/NBPDCL/2022 for Purnea Circle.

Ref: 1. NIT No: 33/PR/NBPDCL/2022.
2. This Office NOA No: NB/P-II/RDSS/Tender/25/2022-19 & 20 dated 06.03.2023.
3. Your Letter No: CIL/NBPDCL/RDSS/Purnea/23-24/124 dated 26.07.2023.

Dear Sir,

With reference to subject noted above, please find attached herewith the GTP & Drawing of 11 KV Termination and Jointing Kits for Development of Distribution Infrastructure against NIT No: 33/PR/NBPDCL/2022 for Purnea Circle under RDSS Scheme. The materials list is as follows:

Sl. No	Name of Items	Name of Vendor
1	11 KV Heat Shrink Type End Termination and Jointing Kits	M/s Frontier Technologies Private Limited, Gurgaon

The Correction wherever required in GTP & Drawings submitted by the contractor has been done. However, these Drawings shall be subject to correctness as per technical specifications of the tender document and the entire responsibility of the correctness of the Drawing as per the specifications as well as supply of material according to the technical specifications of the contract agreement shall be that of the contractor .

In case of any conflict or contradiction between GTP/Drawing & Technical Specification, the decision of Chief Engineer (Project-II) shall be final and binding on both the parties. Contractor shall

have to replace the material to the entire satisfaction of the owner in case the material is found unsuitable for use in the project at any stage.

Please carry out the works immediately under conditions stated above.

Encl: As above.

Yours faithfully,

Pranav Kumar
03.8.2023

(Pranav Kumar)

Chief Engineer (Project-II)

Patna, dated 03/08/23

Memo No. 346

Copy forwarded to M/s NCC Limited, Hyderabad/M/s Vindhya Telelinks Limited, New Delhi/M/s Polycab limited, Mumbai/M/s Ashoka Buildcon Limited, Nashik/M/s Vaishno Associates Vidyut Projects LLP, Jaipur/M/s M/s JSP Projects Private Limited, Ghaziabad/M/s Techno Power Enterprises Private Limited, Kolkata for information.

Pranav Kumar
03.8.2023

(Pranav Kumar)

Chief Engineer (Project-II)

Patna, dated 03/08/23

Memo No. 346

Copy forwarded to Director (Projects)/OSD to MD, NBPDCCL for kind information.

Pranav Kumar
03.8.2023

(Pranav Kumar)

Chief Engineer (Project-II)

**SCHEDULE OF GUARANTEED TECHNICAL PARTICULARS
FOR H. S. TYPE END TERMINATIONS & ST. THRU. JOINTS
FOR 11 KV (E) XLPE UG and AB CABLE.**

- | | | |
|-------------------------------------|----|---|
| 1. Manufacturer's Name And Address | :- | Frontier Technologies Pvt Ltd.
Old Manesar Road,
PO: - Narsinghpur Factory Area,
Gurgaon - 122004. (Haryana) |
| 2. Brand Name And Country Of Origin | :- | Frontec, India |
| 3. Voltage Rating | :- | 11 KV. |
| 4. Type Of Kit Offered | :- | Heat Shrink Type |
| 5. Applicable Standard | :- | IS - 13573 (Part 2/ 2011) |
| 6. Size And Weight | :- | (Approx. For Shipping & Storage Purpose Only
Not for Acceptance Test) |

Outdoor Termination			Indoor Termination			St. Th. Joint		
Kit Size(mm ²)	Box Size (Inch.)	Weight (Approx.)	Kit Size(mm ²)	Box Size (Inch.)	Weight (Approx.)	Kit Size(mm ²)	Box Size (Inch.)	Weight (Approx.)
3x35 to 95	25x5x5	1.0-1.5 Kg	3x35-95	19x5x5	1.0-1.5 Kg.	3x35 to 95	36x8x7	3.5-4.5 kg
3x120 to 300	25x6x6.5	1.5-2.2 Kg	3x120-300	19x6x6.5	1.0-2.0 Kg.	3x120 to 300	36x8x7	3.5-4.5 kg
3x400	27x8x6	2.5-3.0 kg	3x400	27x8x6	2.0-2.5 kg.	3x400	48x8x7	5.0-6.0 kg

Outdoor Termination			Indoor Termination			St. Th. Joint		
Kit Size (mm ²)	Box Size (Inch.)	Weight (Approx.)	Kit Size (mm ²)	Box Size (Inch.)	Weight (Approx.)	Kit Size (mm ²)	Box Size (Inch.)	Weight (Approx.)
1c x 35-95	25x5x5	1.0-1.5 Kg	1c x 35-95	25x5x5	0.5-1.0 Kg.	1c x 35-95	19x5x5	1.3-1.5 Kg.
1c x 120-400	25x5x5	1.0-1.8 Kg	1c x 120-300	25x5x5	1.0-1.5 Kg.	1c x 120-185	25x5x5	1.5-1.7 Kg.
1c x 500-630	25x5x5	1.0-1.5 Kg	1c x 400-630	25x5x5	1.0-1.5 Kg.	1c x 240-400	27x8x6	1.7-2.1 Kg.
1c x 800-1000	25x5x5	1.5-2.0 Kg	1c x 800-1000	25x5x5	1.5-2.0 Kg.	1c x 500-1000	27x8x6	1.7-2.1 Kg.

Outdoor Termination			St. Th. Joint		
Kit Size(mm ²)	Box Size (Inch.)	Weight (Approx.)	Kit Size(mm ²)	Box Size (Inch.)	Weight (Approx.)
3x1x35 to 95	19x5x5	0.5 -1.5 Kg	3x1x35 to 95	25x6x6.5	1.5-2.5 Kg.
3x1x120 to 300	19x6x6.5	1.0-2.0 Kg	3x1x120 to 300	25x6x6.5	2.0-2.5 Kg.

Note: - Box size & weight Indicated Above are for estimating Transport + Storage & not for Quality Control Purpose

- | | | |
|--|----|--|
| 7. Material of Tubing | :- | Heat Shrink Tubing Of Modified Polyolefin Based |
| 8. Installation Time | :- | After Cable Preparation, Approx 45 Minutes For 3c Terminations Approx 2 hours for 3c St.Th. Jointing Approx 15 Minutes for 1c Terminations |
| 9. Curing Time | :- | No Curing Time. |
| 10. Time Required for Energisation After Completion. | :- | No Time Delay for Energisation. |
| 11. Kit Storage Temperature | :- | Store Indoor Up to 50 Degree Centigrade. |
| 12. i) Shelf Life of Kit | :- | Over 5 Years at Temp. Up to 50°C |
| ii) Design Life of Kit | :- | Over 30 Years |
| 13. Material Used for Stress Control | :- | Heat Shrink Semiconducting Modified Polyolefin Tubing + Mastic |

Prepared By: Kuldeep Saini	Approved By: A. Saigal
Signature & Date <i>Kuldeep Saini</i> 24/04/23	Signature & Date <i>A. Saigal</i> 24/04/23

CHECKED
AEE(P-II) ESE(P-II)



APPROVED
Subject to the condition that
you are not absolved of
responsibility of
Correctness of materials
Kuldeep Saini
Chief Engineer (Project-II)
NBPDCCL

1268

GTP No. 23-24/13
GTP 11 KV XLPE Kits

Customer : Cabcon India Ltd.
Project : NBPDC

- 14. Material Used for Environmental Sealing. :- Heat Shrink Material / Hot Melt Adhesive.
- 15. Dielectric Strength Of Core Insulating Material (Kv/mm). :- 10 KV/mm (Min) As Per IEC - 243.
- 16. Volume Resistivity :- As per ASTM - 257
 A) Stress Control Tubing :- 1×10^8 Ohms Cms. (min)
 B) Non Tracking Tubing :- 1×10^{12} Ohms Cms. (min)
- 17. Tensile Strength :- As per ISO - 37
 A) Stress Control Tubing :- 10 N/Sq. mm (min)
 B) Non Tracking Tubing :- 8 N/Sq. mm. (min)
- 18. Ultimate Elongation :- As per ISO - 37
 A) Stress Control Material :- 200% (min)
 B) Non Tracking Material :- 200% (min)
- 19. Tracking Resistance :- As per ASTM - 2303
 (A) Stress Control Material :- Not Applicable
 (B) Non Tracking Material :- Not Applicable

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[Signature]
Chief Engineer (Project) NBPDC

2.5 KV - 1 Hr
2.75 KV - 1 Hr
(Pass Criteria as per ASTM - 2303)
3.0 KV - 1 Hr
3.25 KV - 20 Minutes
(Test till failure as per Above)

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- 20. Completeness of kit contents :- As per approved GA drawing & kit contents
- 21. Guaranteed Performance of Installed Kits : (Based on Type Test Report as per IS:13573 Part-II (2011))

Property	Unit	Indoor Termination	Outdoor Termination	St. Thru. Joint
AC (dry) withstand	kV	28.6	28.6	28.6
AC (wet) withstand	kV	Not Applicable	25.4	Not Applicable
Impulse withstand	kVp	75	75	75
Load Cycles test				
a) Temp. of conductor during heating cycle	°C	95 °C-100 °C	95 °C-100 °C	95 °C-100 °C
b) Duration of heating after steady state temperature.	Hrs.	2	2	2
c) Total duration cycle	Hrs.	8	8	8
d) Duration of Colling	Hrs.	3	3	3
e) No. of cycles	Nbrs	60	60	30 in air + 30 under water
f) Continues phase to ground voltage withstand	kV	47.5	47.5	47.5
Partial discharge	PC @ 1.73 U ₀	<10	<10	<10
Thermal Short Circuit current withstand 1 sec.(Is)	Deg C for 1 sec	250	250	250
Dynamic Short Circuit withstand	kA	2.55 x Is	2.55 x Is	2.55 x Is
Humidity test	kV	300hrs. at 7.93 kV	Not Applicable	Not Applicable
Salt Fog Test	Hrs.	Not applicable	1000 at 8 kVrms	Not Applicable

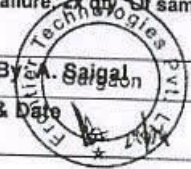
22. Acceptance Test:-

Test	GTP Sr. No.	Sampling Plan
a) Completeness of kit contents	20	One Percent of each type & size
b) Tensile Strength	17	One piece of each type & size
c) Ultimate Elongation	18	One piece of each type & size
d) Volume Resistivity	16	One piece of each type & size
e) Dielectric Strength	15	One piece of each type & size

Requirement: - There should be no failure. In case of any chance failure, 2x qty. of same item to be Tested and there should be no failure.



Prepared By: Kuldeep Saini	Approved By: A. Saigal
Signature & Date <i>[Signature]</i> 29/04/23	Signature & Date <i>[Signature]</i>





CHECKED
 ASEP-II) ESEP-IV) FSEP-III)

GENERAL ARRANGEMENT DRAWING
 11 KV (E) 3Core 35 to 400 Sq. mm Outdoor & Indoor Termination Kits for XLPE Armoured Cable

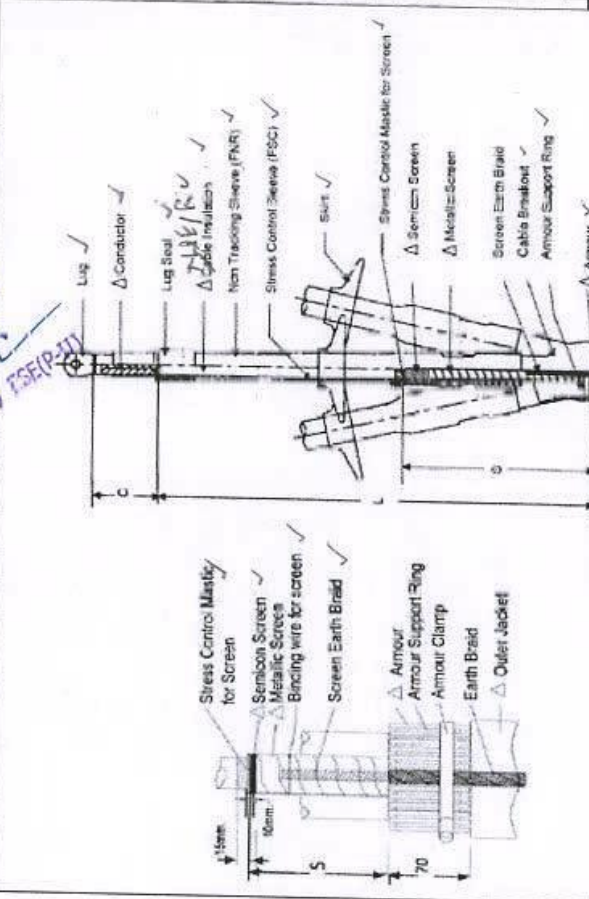
GTP No. 23-24/13

DWG No.: 20J1
 Rvn_No.: 00
 Dtd: 29.04.2023
 Page 1 of 1

PACKING LIST

Sr. No	Description	Quantity
1.	Stress Control Sleeve (FSC)	3 Pcs. ✓
2.	Non-Tracking Sleeve (NTR)	3 Pcs. ✓
3.	Cable Breakout	1 Pcs. ✓
4.	Lug Seals	3 Pcs. ✓
5.	Skirts	As per Chart ✓
6.	Armour Support Ring	1 Pcs. ✓
7.	Armour Clamp	1 Pcs. ✓
8.	Screen Earth Braid	3 Pcs. ✓
9.	Binding wire for Screen	3 Bcs. R.O/S
10.	Earth Braid	1 Pcs. ✓
11.	Binding wire	2 Pcs. R.O/S
12.	Solder wire	1 Pcs. R.O/S
13.	Rubber Mastix	1 Pcs. ✓
14.	Cotton Tape	1 Pcs. ✓
15.	Stress Control Mastix for Screen	3 Pcs. ✓
16.	Silicon Grease	1 Pcs. ✓
17.	Adhesive strip	3 Pcs. ✓
18.	PVC Tape	1 Pcs. ✓
19.	Abrasive Tape	3 Pcs. ✓
20.	Aluminium Lugs	3 Pcs. ✓
21.	Cleaning Kit	2 Pcs. ✓
22.	Installation instruction & Packing List	1 Pcs. ✓

APPROVED
 Subject to the condition that you are not absolved of the responsibility of Correctness of materials.
 Chief Engineer (Project-II)
 NBPDCL



CUSTOMER	M/s Cabcon India Limited
PROJECT	Development of Distribution Infrastructure at Purnea Electric Supply Circle (Purnea and Kathar Districts) of Bihar under Revamped Reforms-Based and Result-Limited Distribution Sector Scheme against NIT No.: 33/PR/NBPDCL/2022
CLIENT	North Bihar Power Distribution Company Limited
NOA NO.	For Supply:- NB/P-II/RDSS/Tender/25/2022 -19 dated 06.03.2023 For Erection:- NB/P-II/RDSS/Tender/25/2022 -20 dated 06.03.2023
SUPPLIER	Frontier technologies Pvt. Ltd. (Gurgaon)
Material Description	11 KV (E) 3Core Outdoor & Indoor Termination Kits for XLPE (A) Cable
Prepared By :-	Kuldeep Saini
Signature & Date	Approved By :- A. Saigal Signature & Date

Dimensions & Skirts

System Voltage	Indoor		Outdoor	
	Length (min) mm	No of Skirts	Length (min) mm	No of Skirts
6.6kV to 11kV (E)	300	Nil	450	2

Note :- Dimension C According to length of Connector barrel

Note: - Dwg as per Type Test IS-13573:2011 Part II



GENERAL ARRANGEMENT DRAWING
 DWG No : 2022
 Evt. No. : 00
 Dtd: 29.04.2023
 Page 1 of 1

11 KV (E) Straight Joint For 3 Core 35 to 400 Sq.mm XLPE Armoured Cable

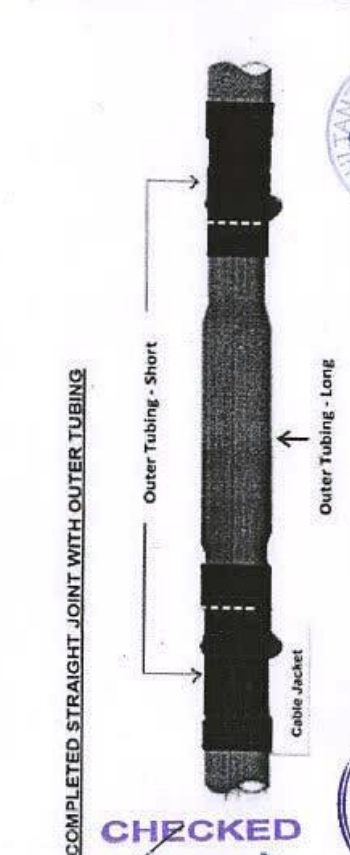
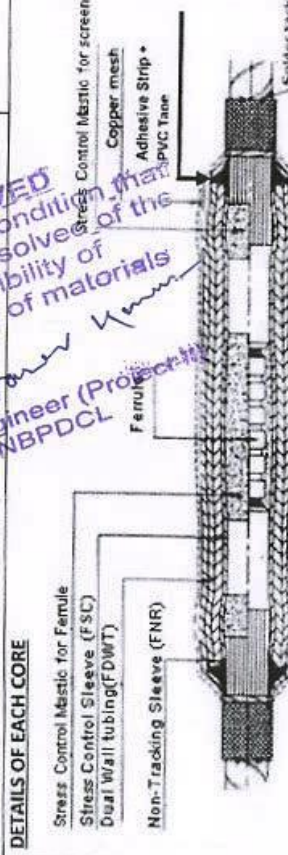
Sr. No	Description	Quantity
1.	Aluminum Ferrules	3 Pcs.
2.	Stress Control Mastic for Ferrules	6 Pcs.
3.	Stress Control Mastic for Screen	6 Pcs.
4.	Stress Control Sleeve (FSC)	3 Pcs.
5.	Non-Tracking Sleeve (FNR)	3 Pcs.
6.	Dual Wall Tubing (FDWT)	3 Pcs.
7.	Copper Mesh	3 Pcs.
8.	Binding-wire for Screen	6 Pcs.
9.	Solder wire	2 Pc.
10.	Outer Tubing (FFM)	3 Pcs.
11.	Silicon Grease	2 Pcs.
12.	Abrasive Tape	6 Pcs.
13.	Cleaning Kit	3 Pcs.
14.	PVC Tape	1 Pc.
15.	Screen Earth Braid	3 Pcs.
16.	Armour Support Ring	2 Pcs.
17.	Armour Clamp	2 Pcs.
18.	Armour earth Braid	1 pc.
19.	Adhesive Strip	6 Pcs.
20.	Binding Wire	4 Pcs.
21.	Cotton Tape	2 Pcs.
22.	GI Armour Mesh	2 Pcs.
23.	Rubber Mastic	2 Pcs.
24.	Installation Instruction & Packing List	1 Pc.

CUSTOMER	M/s Cabcon India Limited
PROJECT	Development of Distribution Infrastructure at Purnea Electric Supply Circle (Purnea and Kaimai Districts) of Bihar under Revamped Reforms-Based and Result-Linked Distribution Sector Scheme against MIT No : 33/PR/NBPDCL/2022
CLIENT	North Bihar Power Distribution Company Limited
NOA NO.	For Supply: - NB/P-II/RDSS/Tender/25/2022 -19 dated 06.03.2023 For Erection: - NB/P-II/RDSS/Tender/25/2022 -20 dated 06.03.2023
SUPPLIER	Frontier Technologies Pvt Ltd. Gurgaon
NAME OF EQUIPMENT	11 KV (E) 3 core St. Th. Jointing Kits for XLPE(3) Cable

Prepared By :- Kulddeep Saini
 Signature & Date
 Approved By :- A. Saigal
 Signature & Date

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 subject to the condition that you are not absolve of the responsibility of materials correctness of materials

Chief Engineer (Project) NBPDCL



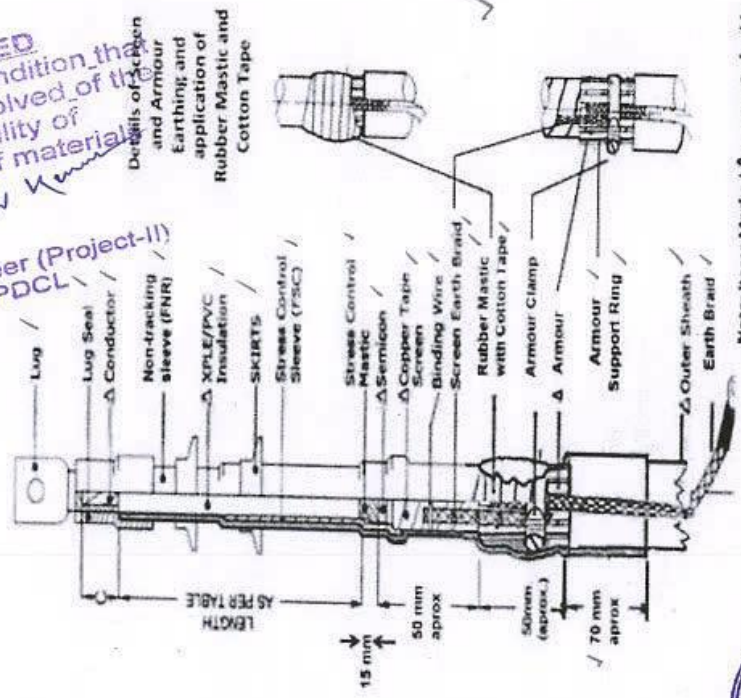
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 AEE(P-II) EEE(P-II) ESE(P-II)



Note: Dwg as per Type Test IS-13573/2011 Part II

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Ravi Kumar
Chief Engineer (Project-II)
NBPDC



System Voltage	Dimension & Skirts	
	Indoor	Outdoor
66kV	Length (mm) 350	No. of Skirts per phase 2
11 kV	Length (mm) 450	No. of Skirts per phase 2



Note:- Dwg as per Type Test IS-13573/2011 Part II

GTP No.
23-24/13

GENERAL ARRANGEMENT DRAWING

11 kV (E) Single 35 To 1000 Sq.mm Core Outdoor & Indoor Termination Kits for XLPE Screened (A) UG Cable

DWG No : 1501
Rvn. No. : 01
Dtd: 29.04.2023
Page 1 of 1

PACKING LIST

Sr. No.	Description	Quantity
1.	Stress Control Sleeve (FSC)	1 Pc. ✓
2.	Non-Tracking Sleeve (FNR)	1 Pc. ✓
3.	Lug Seals	1 Pc. ✓
4.	Skirts	As per chart ✓
5.	Armour Support Ring	1 Pc. ✓
6.	Roll Spring / Armour Clamp	2 Pcs/1 Pc. ✓
7.	Screen Earth Braid	1 Pc. ✓
8.	Binding wire for Screen	3 Pcs. ✓
9.	Earth Braid	1 Pc. ✓
10.	Binding wire	2 Pc. ✓
11.	Solder wire	1 Pc. ✓
12.	Rubber Mastic	1 Pc. ✓
13.	Cotton Tape	1 Pc. ✓
14.	Stress Control Mastic for Screen	1 Pc. ✓
15.	Silicon Grease	1 Pc. ✓
16.	Adhesive strip	1 Pc. ✓
17.	PVC Tape	1 Pc. ✓
18.	Abrasive Tape	1 Pc. ✓
19.	Lugs - AI, Crimping Type	1 Pc. ✓
20.	Cleaning Kit	1 Pc. ✓
21.	Installation Instruction & Packing List	1 Pc. ✓

CHECKED
AEE(P-II) ✓
EEE(P-II) ✓
ESE(P-II) ✓

CUSTOMER M/s Cabcon India Limited

PROJECT Development of Distribution Infrastructure at Purnea Electric Supply Circle (Purnea and Kathar Districts) of Bihar under Revamped Reforms-Based and Result-Linked, Distribution Sector Scheme against NIT No : 33/PR/NBPDC/2022.

CLIENT North Bihar Power Distribution Company Limited

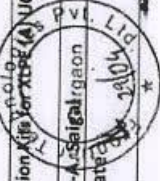
NOA NO. For Supply: - NB/P-II/RDSS/Tender/25/2022 -19 dated 06.03.2023
For Erection:- NB/P-II/RDSS/Tender/25/2022 -20 dated 06.03.2023

SUPPLIER Frontier Technologies Pvt Ltd. Gurgaon

MATERIAL DESCRIPTION 11 kV (E) Single core Outdoor & Indoor Termination Kit for XLPE (A) UG Cable

Prepared By :- Kuldeep Saini
Signature & Date

Approved By :- A. Saigal
Signature & Date



265

1264

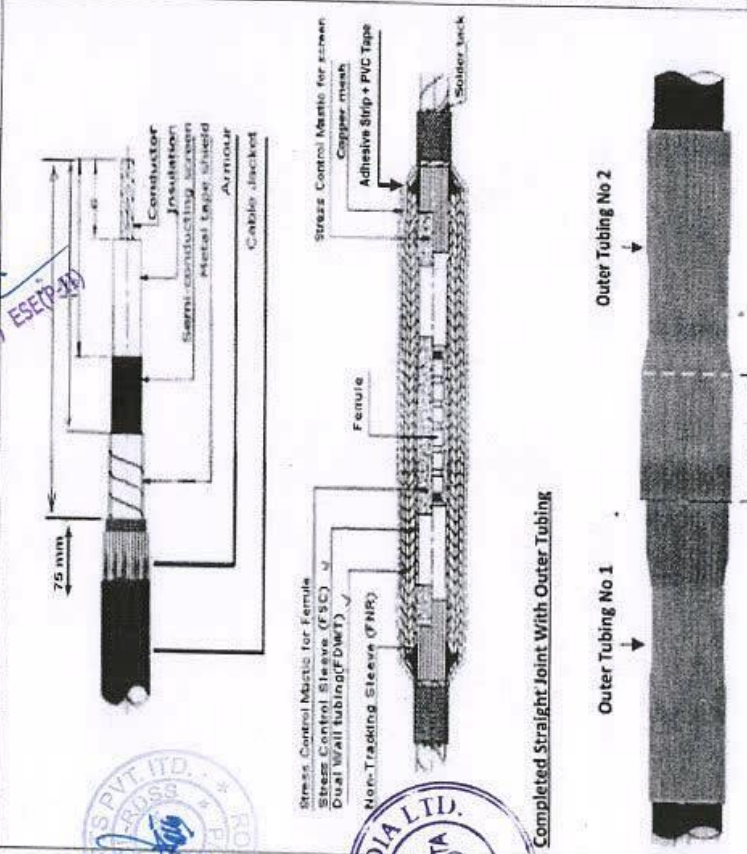
GENERAL ARRANGEMENT DRAWING
11 KV (E) Single Core 35 To 1000 Sq.mm St. Th. Jointing Kits for XLPE Screened (A) UG Cable

FRONTEC
 FRONTIER TECHNOLOGIES PVT. LTD.
 GTP No. 23-24/13

DWG No : 20010
 Rvn. No : 00
 Dtd: 29.04.2023
 Page 1 of 1

PACKING LIST

Sr. No	Description	35 to 400 Sq.mm	500 To 1000 Sq.mm	Quantity
1	Ferrules	1 pc.	1 pc.	1 pc.
2	Stress Control Mastic for Ferrule	2 pcs.	3 pcs.	3 pcs.
3	Stress Control Sleeves (FSC)	1 pc.	1 pc.	1 pc.
4	Non-Tracking Sleeves (FNR)	4 pcs.	4 pcs.	4 pcs.
5	Adhesive Strip	1 pc.	2 pcs.	2 pcs.
6	Dual Wall Tubing	1 pc.	1 pc.	1 pc.
7	Stress Control Mastic for Screen	1 pc.	1 pc.	1 pc.
8	Screen Earth Braid	1 pc.	1 pc.	1 pc.
9	Copper Mesh	1 pc.	1 pc.	1 pc.
10	Solder Wire	3 pcs.	3 pcs.	3 pcs.
11	Binding Wire for Screen	2 pcs.	2 pcs.	2 pcs.
12	Armour Support Ring	2 pcs.	2 pcs.	2 pcs.
13	Armour Clamp	1 pc.	1 pc.	1 pc.
14	Copper Armour Mesh	1 pc.	1 pc.	1 pc.
15	Earth Braid	2 pcs.	2 pcs.	2 pcs.
16	Binding Wire	1 pc.	1 pc.	1 pc.
17	HS Outer Sleeve	1 pc.	1 pc.	1 pc.
18	Silicone Grease	2 pcs.	2 pcs.	2 pcs.
19	Abrasive Tape	1 pc.	1 pc.	1 pc.
20	PVC Tape	2 pcs.	2 pcs.	2 pcs.
21	Rubber Mastic	1 pc.	1 pc.	1 pc.
22	Cotton Tape	1 pc.	1 pc.	1 pc.
23	Cleaning Tissue	2 pcs.	2 pcs.	2 pcs.
24	Installation Instruction & Packing list	1 Set.	1 Set.	1 Set.



CUSTOMER	M/s Cabcon India Limited
PROJECT	Development of Distribution Infrastructure at Purnea Electric Supply Circle (Purnea and Kather Districts) of Bihar under Revamped Reforms-Based and Result-Linked, Distribution Sector Scheme against NIT No : 33/PR/NRPDCL/2022
CLIENT	North Bihar Power Distribution Company Limited
NOA NO.	For Supply:- NB/P-II/RDSS/Tender/25/2022 -19 dated 06.03.2023 For Erection:- NB/P-II/RDSS/Tender/25/2022 -20 dated 06.03.2023
SUPPLIER	Frontier Technologies Pvt Ltd. Gurgaon
MATERIAL DESCRIPTION	11 KV (E) Single core St. Th. Jointing Kits for XLPE (A) UG Cable
Prepared By :-	Kuldeep Saini
Signature & Date	<i>[Signature]</i> 25/04/23
Approved By :-	Signature & Date

Cable Stripping Dimensions

Cable Sizes	"L1" mm	"L2" mm	"L3" mm	"C"	Max Ferrule Length mm
1 x 35 - 95	190	140	130	Half of ferrule length + 5 mm	60
1 x 120 - 185	200	160	150		105
1 x 240 - 400	220	180	170		125
1 x 500 - 1000	290	240	225		200

CHECKED




AEE(P-II) EEE(P-II) ESE(P-II)



APPROVED

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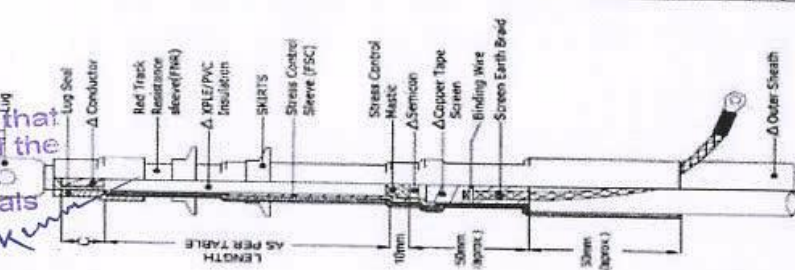
Chief Engineer (Project-II) NRPDCL

 FRONTIER TECHNOLOGIES PVT. LTD.	APPROVED Subject to the condition that you are not absolved of the responsibility of correctness of materials  Chief Engineer (Project-II) NBPDCL CHECKED  AEE(P-II) EEE(P-II) ESE(P-II)	GTP No. 23-24/13	GENERAL ARRANGEMENT DRAWING 11 kV (E) Single Core 35 to 400 Sq.mm Outdoor & Indoor Termination Kits for XLPE AB Cable	DWG No :1501 Rvn.No. :01 Dtd: 29.04.2023 Page 1 of 1
PACKING LIST (Material for 3 Cores packed in each carton)				
Sr. No.	Description	Quantity		
1.	Stress Control Sleeve (FSC)	3 Pcs.		
2.	Non-Tracking Sleeve (FNR)	3 Pcs.		
3.	Lug Seals	3 Pcs.		
4.	Skirts (Only for Outdoor)	As per Chart		
5.	Screen Earth Braid	3 Pcs.		
6.	Stress Control Mastic for Screen	3 Pcs.		
7.	Silicon Grease	1 Pc.		
8.	Abrasive Tape	3 Pcs.		
9.	Binding wire for Screen	3 Pcs.		
10.	Cleaning KIT	2 Pcs.		
11.	Solder wire	1 Pc.		
12.	Installation instruction & Packing List	1 Pc.		
13.	PVC Tape	1 Pc.		
14.	Adhesive strip	3 Pcs.		
15.	Lugs - Al. Crimping Type	3 Pcs.		

CUSTOMER	M/s Cabcon India Limited
PROJECT	Development of Distribution Infrastructure at Purnea Electric Supply Circle (Purnea and Kathar Districts) of Bihar under Revamped Reforms-Based and Result-Linked, Distribution Sector Scheme against NIT No : 33/PR/NBPDCL/2022
CLIENT	North Bihar Power Distribution Company Limited
NOA NO.	For Supply:- NB/P-II/RDSS/Tender/25/2022 -19 dated 06.03.2023 For Erection:- NB/P-II/RDSS/Tender/25/2022 - 20 dated 06.03.2023
SUPPLIER	Frontier Technologies Pvt Ltd. Gurgaon
MATERIAL DESCRIPTION	11 kV (E) Single core Outdoor & Indoor Termination Kits for XLPE AB Cable


Prepared By :- Kuldeep Saini	Approved By :- A. Saigal
Signature & Date	Signature & Date


System Voltage	Dimension & Skirts	
	Indoor	Outdoor
6.6 KV to 11 KV	Length in mm.(min) 300 No. of Skirts Per Phase Nil	Length in mm.(min) 450 No. of Skirts Per Phase 2



Note:- 1. Dimension C according to length of connector barrel

2. Items marked Δ are parts of cable.





Note:- Dwg as per Type Test IS-13573/2011 Part II



FRONTIER TECHNOLOGIES PVT. LTD.

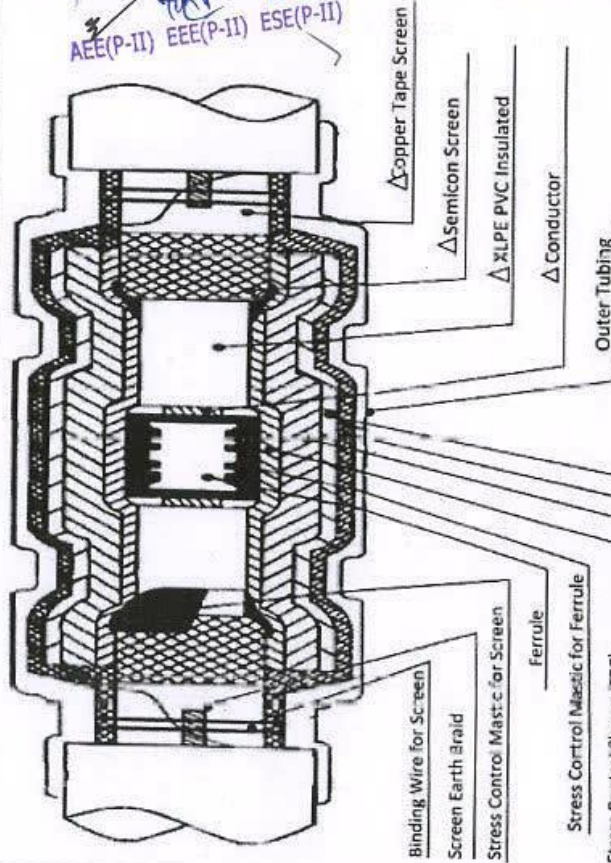
GTP No.

23-24/13

GENERAL ARRANGEMENT DRAWING

11 kV (E) XLPE Straight Joint For 1 Core 35 - 400 Sq. mm XLPE AB Cable

DWG No : 1503
Rvn. No. 01
Dtd: 29.05.2023
Page 1 of 1



Checked by: [Signature] AEE(P-II) EEE(P-II) ESE(P-II)

PACKING LIST

(Material for 3 Cores packed in each carton)

Sr. No.	Description	Quantity
1.	Aluminium Ferrules	3 Pcs
2.	Stress Control Mastic for Ferrules	6 Pcs
3.	Stress Control Mastic for Screen	6 Pcs
4.	Stress Control Sleeve (FSC)	3 Pcs
5.	Non-Tracking Sleeve (FNR)	3 Pcs
6.	Dual Wall Tubing (FVWT)	3 Pcs
7.	Copper Mesh	3 Pcs
8.	Binding wire for Screen	3 Pcs
9.	Solder wire	1 Pcs
10.	Outer Tubing	3 Pcs
11.	Silicon Grease	2 Pcs
12.	Abrasive Tape	6 Pcs
13.	Cleaning Kit	3 Pcs
14.	PVC Tape	1 Pcs
15.	Screen Earth Braid	3 Pcs
16.	Adhesive Strips	2 pcs
17.	Installation Instruction & Packing List	1 Pcs

APPROVED
Subject to the condition that you are not absolved of the responsibility of the correctness of materials
This Engineer (Project) NBPDCI

CHECKED

CUSTOMER	M/s Cabcon India Limited
PROJECT	Development of Distribution Infrastructure at Purnea Electric Supply Circle (Purnea and Kadirhat Districts) of Bihar under Revamped Reforms-Based and Result-Linked, Distribution Sector scheme against NIT No : 33/PR/NBPDCI/2022
CLIENT	North Bihar Power Distribution Company Limited
NOA NO.	For Supply: - NB/P-II/RDSS/Tender/25/2022-19 dated 06.03.2023 For Erection: - NB/F-II/RDSS/Tender/25/2022-20 dated 06.03.2023
SUPPLIER	Frontier Technologies Pvt Ltd. Gurgaon
MATERIAL DESCRIPTION	11 kV (E) ST. Th. Jointing Kits for 1 Core XLPE AB Cable
Prepared By :-	Kuldeep Salni
Signature & Date	[Signature] 24/05/23
Approved By :-	[Signature] Saigal
Signature & Date	[Signature] Gurgaon

Conductor Size in Sq. mm.	Lf (Max.)	L (Min.)
35-95	60 mm.	500 mm.
120-185	105 mm.	550 mm.
240-400	120 mm.	600 mm.
500-630	175 mm.	600 mm.

Note :- Lf = Length of Ferrule
L = Overall Length of Joint

Note: Item marked Δ are parts of cable.



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