



Thermo Cables



Mining Cable Solutions



Global Expert In Speciality Cables Manufacturing

Thermo Cables is a recognized and preferred brand across various industries including Oil & Gas, Railways, Navy, Defence, Renewable Energy, Nuclear Power, Process Industries, Power etc, exporting 60% of products.

Established in 1990, it is a leading manufacturer of various types of speciality cables. Thermo Cables is a part of Thermo Group - a multi-product & multi-service organization with other group companies:
Thermopads: A specialist in Commercial, Domestic and Industrial Heating
Thermosystems: An EPC company in the field of Fuel Oil Handling Systems, Fire Detection Protection Systems etc.



Major Approvals

ADNOC - OFFSHORE
ADNOC - ONSHORE
ALBA
AP GENCO
AP TRANSCO
ARO DRILLING
AVANT GARDE
BALTIC CHEMICAL PLANT
BAPCO ENERGIES
BDL, BEL, BEML, BHEL, BLW
BOROUGE, BPCL
CLW, CMRL, CSL
DESEIN LTD, DGMS, DVC
DLW, DMDE & DMW
DLRL, DMRL & DMRC
DOLPHIN ENERGY
DRDO - ASL & DRDL
DUBAI WORLD
EGA
ENGINEERS INDIA LTD
ENOC
EXPRO
FICHTNER CONSULTING
GRSE, GSPC
GOA SHIPYARD
HALLIBURTON
HINDUSTAN SHIPYARD
HPCL, HAL, HMRL
INTERNATIONAL MARITIME INDUSTRIES
IOCL, ICF, ISRO
JACOB'S H & G
KNPC - KUWAIT
KOC - KUWAIT
LAMPRELL
L & T
MATERIAL ORGANISATION - KARWAR
MATERIAL ORGANISATION - MUMBAI
MATERIAL ORGANISATION - VIZAG
MECON, MCF
MN DASTUR & CO.
MAZGOAN DOCK LIMITED
MUMBAI PORT TRUST
NMDC ENERGY
NORTH OIL
NPCIL, NSTL, NTPC
ONGC
ORLEN
OXY
PDIL
PGCIL
PDO OMAN, PETRONAS
PETROPERU
QATAR ENERGY, QATAR PETROLEUM
RCF
SABIC
SAIL
SAIPEM
SAPURA ENERGY
SHELL, SONATRACH
TATA CONSULTING ENGINEERS
TECNIMONT ICB LTD
TOYO ENGINEERING INDIA LTD
THYSSENKRUPP

Stringent quality requirements, global standards of precision and increasingly demanding customers are the order of the day. Thermo Cables, sensitive to this reality, designs, manufactures and supplies a wide range of cables to satisfy customers' specifications and requirements.

Product Range

- Instrumentation Cables
- Power, Control & Earthing Cables
- Thermocouple Cables
- Fire Resistant Cables
- High Temperature Cables
- Foundation Fieldbus Cables
- Special Application (LFH) Cables
- Renewable Energy Cables
- Naval Application Cables
- Marine/Shipboard Cables
- Pressure Tight (PT) Cables
- Railway Cables
- Material Handling Cables
- Type-P Cables
- VFD Cables
- Co-Axial Cables (RG Series)
- ESP Cables
- Downhole (TEC) Cables
- Custom Wiring & Cable Harnesses
 - Railway
 - Defence
 - Wind
- IV Coupler & Jumper Cable Assembly
- Cable Systems

Why Us

- Leading & reputed manufacturer of Specialty Cables
- One stop solution for all Low Voltage Cables
- Serving satisfied customers since 30 years across 60+ countries
- In-house wire drawing, compounding, Electron beaming and testing facilities
- Quick response time and offer submission in less than 24 hours

Quality & Reliability

- An ISO 9001: 2015 certified company with proven track record of delivering quality products
- NABL accredited full-fledged in-house testing laboratory
- Environment, Occupational Health and Safety Systems adhering to ISO 14001:2015, 45001:2018
- 15% of power consumption sourced through in-house generated renewable energy

Standards

- Cables designed and manufactured conforming to various National and International Standards

General Cables: ANSI MC 96.1, BS-6346, BS-5467, BS-7629, BS-6387, BS-7846, BS-5308-I & II, BS- 50288-7, IEC-60502-I, IEC-60189-I & II, IEC-60228, IEC-60584-I & III, IEC-60331, IS-8784, IS-613, IS-694, IS-1554-I, IS-7098-I, BS 16246, BS 7211.

Railway Cables: ELRS-0019 REV-4, CLW-0458 ALT-E, CLW-0459 ALT-C, EDTS - 132 REV - C, EDPS - 179, EDPS - 304, EN - 50264 - 3 - 1 & 2, EN - 50306 - 1, 2, 3 & 4, EN - 50382 - 1 & 2, EN - 45545 - 2, IEC 61156 - 6.

Navy & Marine Cables: EED 50-12 REV-3, EED 50-13 REV-2, DEF STAN 61-12 PART 18, DEF STAN 61-12 PART 31, DEF STAN 02-526, DEF STAN 02-527, MIL - DTL-24640C, MIL - DTL 24643C, IEC 60092 - 350, 353, 376 & 360, BS 6883, BS 7917, IS 9968 Part - I, IS 6380, EN 50525 - 2 - 11-12-21-22-41-42, EN 50618.

Mining Cables: IS 14494, **Co-Axial Cables:** MIL - DTL - 17H,

High Temperature / Aerospace Cables: JSS 51034, 51038, SAE-AS 22759 / 32A, 34B, 41B, 43B, 44A, 45A, 80D, 83E, 84E, 85E, 86E, 87E, 88E, 89E, 90D, 91D, 92D, ANSI / NEMA - WC - 27500

Valuable Assets

- Over 3,00,000 sq ft of infrastructure facilities with latest technology
- 1000+ dedicated & high performing workforce
- Experienced & professional leadership team
- Offers technical support in cable selection through SAP





Marine / Shipboard Cables

DEF STAN 02-526 (NES 526) and DEF STAN 02-527 (NES 527)

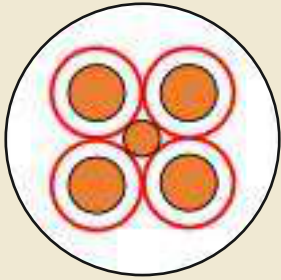
For use on onboard surface ships and crafts for power, control, lighting and communication and instrumentation circuits with or without fire survival characteristics.

Standards	: NES 526 - Dual layer Insulated, Electron Beam Cross linked irradiated Electric cables NES 527 - Fire Survival, High Temperature, Fire Retardant Halogen Free Sheathed Electron Beam Cross Linked Irradiated Electric cables
Construction	: Single Core, Multi Core, Multi Pair & Triad, Unscreened or Individually Screened or Collectively Screened.
Voltage Grade	: 440 V AC
Conductor	: Circular Electroplated, Annealed Tinned Copper
Temperature Range	: - 30° C to + 105° C
Insulation	: Dual Layer Electron Beam Cross linked irradiated materials / Silicone Rubber
Screening	: Annealed Tinned Copper Braid
Outer Sheath	: Electron Beam Cross linked irradiated LFH Compound
Protective Barrier	: Glass Braid/Lacquer, Mica Glass Tape to meet the fire performance applicable for DEF STAN 02-527 (NES 527) cables.

IEC 60092-350, 353, 360 & 376, BS-6883, BS-7917

For use in shipboard & offshore application at marine environment and use for Power, Control, Instrumentation and Communication with or without fire survival characteristics.

Standards	: IEC 60092-350 - Construction & Test methods of Power, Control and Instrumentation cables. IEC 60092-353 - Power Cables for rated voltage of 0.6 / 1 KV, 1.8 / 3 KV. IEC 60092-376 - Control & Instrumentation Cables for rated voltage of 150 V / 250 V. IEC 60092-360 - Insulating and sheathing properties materials for shipboard and offshore cables. BS 6883 - Elastomeric insulated Cables for fixed wiring in ships & offshore units. BS 7917 - Elastomeric insulated fire resistant (Limited Circuit Integrity) Cables for fixed wiring in ships & offshore units.
Construction	: Single Core, Multi Core, Single Pair, Multi Pair, Multi Triad and Quad Screened & Unscreened, Armoured & Unarmoured
Voltage Grade	: 150 V / 250 V AC, 0.6 / 1.0 KV and 1.8 / 3.0 KV AC
Conductor	: Electroplated Annealed Bare / Tinned Copper of various classes
Temperature Range	: -15° C to 95° C
Insulation	: XLPE / EPR / HEPR, HF 90 / S 95
Screening	: Al-Mylar Tape along with Drain Wire / ABC or ATC Braiding
Inner Sheath	: SHF1 / SHF2 / SH / SF / SE
Braid Armour	: Copper (Bare or Tinned) / Copper alloy / GI Wire Braid with >90% coverage.
Outer Sheath	: SHF1 / SHF2 / SH / SF / SE



Mining Trailing Cable – FT-7

Elastomer Insulated Flexible Cable for Underground Mining Equipment

Specifies the technical requirements for Type FT-7 elastomer-insulated flexible trailing cables, primarily for use with reeling/unreeling machinery such as SDLs (Side Discharge Loaders) and LHDs (Load Haul Dumpers) in underground coal mines.

General Specifications

Standard	: IS 14494:2019 (with latest amendments).
Voltage Grade	: 1.1 kV (1100 Volts).
Application	: Heavy reeling duty in underground coal mines.
Conductor Material	: Power Cores, Pilot Core and Earth Core are Annealed tinned copper wires, conforming to Class 5 flexibility of IS 8130.
Core Identification	: Power cores identified by colored proofed tapes (Red, Yellow, Blue); Pilot core identified by colored proofed tape (Black).
BIS Marking & DGMS Approval	: Cables must be BIS marked and comply with relevant Directorate General of Mines Safety (DGMS) circulars.

Construction Details

The typical construction for a 5-core, FT-7 cable is as follows:

Power Cores	: 3 Cores
Pilot Core	: 1 Core
Earth Core	: 1 tinned copper conductor
Insulation	: Elastomer compound conforming to Type IE2 of IS 6380.
Core Screen	: Metallic screen (composite braid of tinned copper wires and synthetic cord/yarn) applied over insulation of each power and pilot core insulation.
Laidup	: As per IS 14494 (2019).
Sheath (Inner & Outer)	: Elastomer compound, Type SE3 & Heavy duty elastomeric compound, Type SE4 of IS 6380.
Reinforcement Tape (Over Inner Sheath)	: Reinforcement is permissible in the outer sheath.

Performance & Testing

Flexibility	: Designed for repeated, heavy reeling and un-reeling operations.
Tests	: The cable is subjected to various type and routine tests as per IS 14494 and DGMS guidelines, including physical, electrical, and mechanical tests (e.g., bending, insulation resistance, high voltage (Dielectric Strength)).
Marking	: The outer sheath shall have the manufacturer's name/trademark, voltage grade, type (FT-7), size, and year of manufacture printed or embossed at regular intervals.

THERMO CABLES LIMITED, TECHNICAL PARTICULARS

Sr. No.	Description	3C x 25 mm ² + 1C x 25 mm ² + 1C x 16 mm ²
1	Trade Name	THERMO CABLES
2	Voltage Grade	1100 Volts
3	Reference Standard	IS : 14494/2019
4	Cable Type	FT7
5	Conductor	
	a) Material to IS : 8130/1984	Annealed Tinned Copper
	b) Nom. Cross Sectional Area (mm ²)	
	i) Power Cores	25
	ii) Pilot Core	25
	iii) Earth Conductor	16
	c) Flexibility Class as per IS : 8130/84	Class 5
	d) Max. DC. Resistance at 20 °C (Ohm/Km)	
	i) Power Cores	0.795
	ii) Pilot Core	0.795
	iii) Earth Conductor	1.24
6	Insulation of Power & Pilot Core	
	a) Material to IS : 6380/84	Elastomer Compound Type IE-2
	b) Nominal / Minimum Thickness (mm.)	1.4/1.16
	c) A layer of coloured proofed tape applied over insulation	Yes {Please refer Sl.No. 7 below}
7	Identification of Power & Pilot Core	
	i) Screened Power Cores	By coloured proofed tape having colours Red, Yellow & Blue applied over insulation
	ii) Screened Pilot Core	By coloured proofed tape Black applied over insulation
8	Individual Core Screening of Power & Pilot Core	
	a) Material	Composite Braid of ATC Wires Bunches & Nylon Yarns
	b) Nom. Diameter of ATC Braid Wires (mm.)	0.3
	c) Conductance of Screen	The conductance of each screen shall not be less than 25 percent of that of the main conductor. However, the combined dc resistance of all screens at 20°C shall not be more than 1.15 miliohms per metre.
9	Laying Up	Three Screened Power Cores & One Screened Pilot Core laidup around a Bare Earth Conductor
10	Number of Cores	
	i) Screened Power Cores	3
	ii) Screened Pilot Core	1
	iii) Bare Earth Conductor	1
11	Sheath (Inner & Outer)	
	a) Material to IS : 6380/84	Elastomer Compound Type SE-3 & HD Elastomer Compound Type SE-4
	b) Colour	Black
	b) Inner / Outer Minimum Thickness (mm.)	2.0 / 2.20
12	Reinforcement Tape (Over Inner Sheath)	Reinforcement is permissible in the Outer Sheath
13	Overall Diameter(mm)	Max. 48.5

Note :

1) Following details shall be provided by printing on the outer sheath. The printing shall be provided at max. one metre interval throughout the cable length.

a) Voltage Grade i.e. 1.1 KV,

b) Year of Manufacturing,

c) Type of the Cable i.e. "FT-7"

d) Word "MINING" & "ELECTRIC",

e) BIS Certification Mark

2) Sequential length marking shall be provided by printing on the outer sheath.

3) Please note that we have offered FT7 Type cable as per IS: 14494/2019.

Product Certifications



CERTIFICATE OF CONFORMITY

Certificate No.: 0544598 Current Issue: 09 September, 2020 Validity: 15 September, 2025 to 15 September 2028

This is to certify that the product(s)

Power, Control, Instrumentation & Thermocouple Cables

with name and / or type designation(s) as detailed in page 2

manufactured by,
THERMO CABLES LTD.

- Site(s):
- 1) D-44, 45, 48, 49 & 50, Phase -V, IDA, Jeedimetla, Hyderabad - 500 055, Telangana
 - 2) Plot No. G-1, G-2 (A & B), G-9 (A&B) & G-10, Green Industrial Park, Jaddcherla- 509 303, Mahabubnagar District, Telangana.

have been assessed with respect to the requirements laid down in points 2 of Annex III of Council directive 2014/35/EU on electrical safety and found to comply. Further details of product and application/limitations, the certificate to be read in full. Reference to the part of this certificate which may lead to misinterpretation is not permissible.

Place and date:
Chennai, 09.09.2020

For the issuing office:
DNV Business Assistance India Pvt. Ltd.

For: Harish Sundararaman

Harish Sundararaman
Manager - Product Assurance

Each of signatories to this certificate agrees to accept the Certificate Agreement and under this Certificate holds:
DNV Business Assistance India Pvt. Ltd., 100A, 100B Road, Chennai - 600 005, India. Tel: +91 44 4386 8000 Fax: +91 44 4386 8000



TYPE APPROVAL CERTIFICATE

This is to certify:

that the Low Voltage Cable & the Electric Power Cable

with type designation(s)
RPOU (PC), RPOU (PC), XLPE (PC), XLPE (Non-PC)
RPOU, RPOU, XLPE (PC), XLPE (Non-PC)

issued to
Thermo Cables Ltd
Jedcherla, Telangana, India

is found to comply with
DNV rules for classification - ships, offshore units, and high speed and light craft

Application:
Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.
Rated voltage: 10/20KV, 6.6KV and 1.8KV
Temp. class (°C): 90

Product description
Type: RPOU (PC) / RPOU (PC)

Construction:
Conduits: Tinned, stranded copper class 2 or class 5
Core insulation: Mica tape + GFR / GFR
Ins. shielding: Al Mylar tape with drain wire
Overall shielding: Al Mylar tape with drain wire
Inner sheath: SHF2
Metal covering: Tinned copper or galvanized steel wire braid
Outer sheath: SHF2

Type: XLPE (PC) / XLPE (Non-PC)

Construction:
Conduits: Tinned, stranded copper class 2 or class 5
Core insulation: Mica tape + XLPE / XLPE
Ins. shielding: Al Mylar tape with drain wire
Overall shielding: Al Mylar tape with drain wire
Inner sheath: SHF1
Metal covering: Tinned copper or galvanized steel
Outer sheath: SHF1

Type: RPOU / RPOU

Construction:
Conduits: Tinned, stranded copper class 2 or class 5
Core insulation: Mica tape + GFR / GFR
Ins. shielding: Al Mylar tape with drain wire
Overall shielding: Al Mylar tape with drain wire
Inner sheath: SHF2
Metal covering: Tinned copper or galvanized steel wire braid
Outer sheath: SHF2

Type: XLPE (PC) / XLPE (Non-PC)

Construction:
Conduits: Tinned, stranded copper class 2 or class 5
Core insulation: Mica tape + XLPE / XLPE
Ins. shielding: Al Mylar tape with drain wire
Overall shielding: Al Mylar tape with drain wire
Inner sheath: SHF1
Metal covering: Tinned copper or galvanized steel
Outer sheath: SHF1

Issued at Hamburg on 2024-12-17

This Certificate is valid until 2029-12-16

DNV local unit: India CMC MDS

for DNV

Approved Engineer: Chaitanya Murali

This certificate is subject to terms and conditions contained in the applicable design code and/or other relevant standards.

DNV certifies that the product(s) described in this certificate has been tested in accordance with the requirements of DNV rules for classification - ships, offshore units, and high speed and light craft. The certificate is issued on the basis of the test results and the information provided by the manufacturer. The certificate is valid for the period of validity stated in the certificate. The certificate is issued on the basis of the test results and the information provided by the manufacturer. The certificate is valid for the period of validity stated in the certificate.

Form No. 10-2017 Revision 01-2017 Date of issue: 01-01-2017 Page 1 of 1



CERTIFICATE NUMBER: 24-007760-PSA
EFFECTIVE DATE: 26-Sep-2024
EXPIRY DATE: 19-Sep-2029
ABS TECHNICAL OFFICE: Singapore Engineering Services

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of the Bureau did, at the request of

THERMO CABLES LIMITED

located at

PLOT NO. G1,G2(A&B), G9/A, G9/B AND G10, GREEN INDUSTRIAL PARK, JADCHERLA, DIST. MAHABUBNAGAR, MAHABUBNAGAR, TELANGANA, India, 509301

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not involve unit certification or classification programs required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Cable
Model: LV Power & Control Cables and Instrumentation Cables
Endorsements:
Tier: 2 - PSA Issued

This Product Design Assessment (PDA) Certificate remains valid until 29-Sep-2029 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS vessels which exist or are under contract for construction as on previous to the effective date of the ABS Rules, and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau of Shipping
Certifying
Certifying Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industry or manufacturer's standards. It is issued solely for the use of ABS, its contractors, its clients or other authorized entities. Any significant changes to the dimensional product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1.4.4.3.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2019)

Certificate of Product Design Assessment Rev.3

Page 1



Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Thermo Cables Limited
Address	26, Majurajna Hills, Puttapet, Hyderabad, Telangana, 508002, India
Place of Production	Thermo Cables Limited D-44,45,48,49 & 50 Phase -C, IDA, Jeedimetla, Hyderabad, Telangana, 508003, India
Place of Production	Thermo Cables Limited G5, G2, IAMS, Green Industrial Park, Jedcherla, Mahabubnagar Dist., 509303, India
Type	Marine Cable
Description	BLPE Insulated Shipboard Cables
Trade Name	Refer to the Appendix for details
Application	Fixed wiring on ships and offshore installations
Specified Standard	Manufacturer's specification, IEC 60092-351, IEC 60092-352, IEC 60092-353, IEC 60092-354, IEC 60092-355, IEC 60092-356, IEC 60092-357, IEC 60092-358, IEC 60092-359, IEC 60092-360, IEC 60092-361, IEC 60092-362, IEC 60092-363, IEC 60092-364, IEC 60092-365, IEC 60092-366, IEC 60092-367, IEC 60092-368, IEC 60092-369, IEC 60092-370, IEC 60092-371, IEC 60092-372, IEC 60092-373, IEC 60092-374, IEC 60092-375, IEC 60092-376, IEC 60092-377, IEC 60092-378, IEC 60092-379, IEC 60092-380, IEC 60092-381, IEC 60092-382, IEC 60092-383, IEC 60092-384, IEC 60092-385, IEC 60092-386, IEC 60092-387, IEC 60092-388, IEC 60092-389, IEC 60092-390, IEC 60092-391, IEC 60092-392, IEC 60092-393, IEC 60092-394, IEC 60092-395, IEC 60092-396, IEC 60092-397, IEC 60092-398, IEC 60092-399, IEC 60092-400, IEC 60092-401, IEC 60092-402, IEC 60092-403, IEC 60092-404, IEC 60092-405, IEC 60092-406, IEC 60092-407, IEC 60092-408, IEC 60092-409, IEC 60092-410, IEC 60092-411, IEC 60092-412, IEC 60092-413, IEC 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International Approvals

شركة البترول الوطنية الكويتية
KNPC
A Subsidiary of Kuwait Petroleum Corporation

VENDORS & CONTRACTORS EVALUATION COMMITTEE

M/S. THERMO CABLES LTD.
PLOT NO. 01, 02 IN OMEN INDUSTRIAL PARK
JABERHILA, DIST. AL-HADITHAH - 509001
INDIA

DATE: 10th May 2021
REF: COM-2020-21-082
FILE NO: Y-4790

SUBJECT: VENDOR APPROVAL - RE-QUALIFICATION

GENTLEMEN,

REFERENCE TO YOUR PREVIOUS APPROVAL LETTER DATED 29/05/2020, YOUR COMPANY RE-QUALIFIED AS A VENDOR EFFECTIVE 29/05/2021 FOR THE SUPPLY OF THE FOLLOWING PRODUCT(S) FOR KNPC'S REQUIRE:

PRODUCT DESCRIPTION

TS 40 CABLE, INSTRUMENTS (INCLUDING THERMOCOUPLE WIRE & CABLE)

THE COMPANY (VENDOR) CODE ALLOCATED TO YOUR COMPANY IS 177128.

PLEASE ENSURE TO QUOTE THIS CODE AND ABOVE FILE NO. ON ALL YOUR FUTURE CORRESPONDENCE.

VERY TRULY YOURS,

BARBAR H. AL-QAHTANI
CHAIRMAN V & CEO

THIS LETTER SUPERSEDES OUR LETTER DATED 28th MAY 2018

NOTE: APPROVAL VALIDITY IS UP TO 28th MAY 2026 (APPROVED SINCE 28th MAY 2011)

REF #12376

PLEASE REFER OVERLEAF FOR INSTRUCTIONS

SAIPEM S.p.A.
Via Martiri di Carignano, 57
20121 San Donato Milanese
Milano - Italia

San Donato Milanese, 04/05/2021

THERMO CABLES LTD.
NAKULUNA HILLS # 18
80000 WINDWARD
INDIA

PROT. VM-2021-1146-PP

Kind attn: of the Legal Representative

SUBJECT: Qualification process for inclusion in Saipem Vendor List

We are pleased to inform you that your Company has successfully completed the qualification process in accordance with Saipem procedures.

The qualification stands for the supply of goods and/or services for the following commodity:

ME089020 - INSTRUMENT CABLES (ARMoured AND UNARMoured)

Please note that you have been registered in our Vendor Management Data Base with code 106023 that you are kindly requested to mention in all communication with Saipem.

Such registration shall not create or impose any obligation or liability on Saipem as well as it shall not ensure the involvement of your Company in future bids launched by Saipem.

The qualification has a 36 (thirty-six) month validity, and this qualification status will be monitored through feedback analysis and, if required, audit visits at your office and/or premises.

We kindly ask you to promptly inform us of any change of your Company organization by joining our website www.saipem.com and selecting "Qualification Management" area.

Should any serious facts concerning management, organization and assets occur (i.e. composition or arrangement of creditors, winding up orders, bankruptcy, etc.), the given qualification, subject to Saipem evaluation, could be revoked at any time since the date of the said event.

Best Regards,

SAIPEM S.p.A.
Procurement and Field Order Services
Pietro Gaudenzi

SAIPEM.COM

SAIPEM S.p.A.
Capitale sociale 0,001,000,000 € fully paid up
Exempted and Reserved Share Business Register
Milano n. 205954
Taxpayer's Code and VAT number 00000700007

ADNOC APPROVAL

Work/Product Groups

Number	Name	Status	Grade
320603	CABLES - LV POWER DISTRIBUTION	Pre-qualified	-
320612	CABLES - FIBER OPTICS	Pre-qualified	-
320618	CABLES - FOR INSTRUMENTS & CONTROL	Pre-qualified	-
320621	CABLES - FIRE RESISTANT	Pre-qualified	-
320627	CABLES FOR DOWNHOLE ELECTRIC SUBMERSIBLE PUMPS (ESP)	Pre-qualified	-

Contracts and Supply Chain Management Department

PROT. VM-2021-1146-PP

THERMO CABLES LTD.
NAKULUNA HILLS # 18
80000 WINDWARD
INDIA

SAIPEM S.p.A.
Via Martiri di Carignano, 57
20121 San Donato Milanese
Milano - Italia

San Donato Milanese, 04/05/2021

THERMO CABLES LTD.
NAKULUNA HILLS # 18
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Should any serious facts concerning management, organization and assets occur (i.e. composition or arrangement of creditors, winding up orders, bankruptcy, etc.), the given qualification, subject to Saipem evaluation, could be revoked at any time since the date of the said event.

Best Regards,

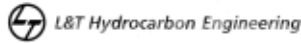
SAIPEM S.p.A.
Procurement and Field Order Services
Pietro Gaudenzi

SAIPEM.COM

SAIPEM S.p.A.
Capitale sociale 0,001,000,000 € fully paid up
Exempted and Reserved Share Business Register
Milano n. 205954
Taxpayer's Code and VAT number 00000700007

S.No	Customer	Vendor Code
1	ADNOC	20009092
2	Advance Petrochemical	201463
3	Aluminium Bahrain B.S.C. (ALBA)	7791
4	Borogue	000003394
5	Dolphin Energy Ltd	112792
6	Dry Docks	99393
7	Emirates National Oil Company (ENOC)	1001101538
8	ExxonMobil	PC-2024.091753
9	FARABI	9000403
10	GE	SQ-076734.2
11	KOCH Engineered Solutions	SPS000472
12	Kuwait National Petroleum Company (KNPC)	177128
13	Kuwait Oil Company (KOC)	30971
14	MAADEN	20230002
15	NEOM	S10764408
16	National Water Company (NWC)	40317
17	Petroleum Development Oman (PDO)	104158
18	Petronas	1125426A
19	PTT Exploration and Production Public Company Limited (PTTEP)	309104
20	Qatar Energy	309104
21	Qatar Fuel Additives Company Limited (QAFAC)	106712
22	Saudi Arabian Railway (SAR)	4895
23	Saudi Electricity Company	2012054
24	SIBUR	61293
25	TASNEE	S11312730

Accolades



L&T Hydrocarbon Engineering Limited
Unit 8, Durgam Cheruvu
L&T Knowledge City, 1st Floor, 2
M.M. Road, Hyderabad, Andhra Pradesh - 500 021
Egmont, India

Date: 29/03/2024

TO WHOM SO EVER MAY CONCERN

This is to certify that, M/s. Thermo Cables Ltd, having its Corporate Office at 28, Nagarjuna Hills, Punjagutta, Hyderabad-500082, Andhra Pradesh, INDIA has Manufactured and supplied us Foundation Fieldbus, Instrumentation & Control as follows:

PO NO	PROJECT	CABLE TYPE	SUPPLIED QTY
POUGFO/INST/FFCABLE/MG-05A	UGED POO-OMAN	Foundation Fieldbus	53.33 km
POUGFO/INST/Instrument/MG-080	UGED POO-OMAN	Instrumentation & Control	337.2 km
HM08-(78000-0493/IN/MVD NO.003) SDC 2 POO-OMAN	Instrumentation & Control		388.0 km

The Supplies were made on time and the Performance of the cables has so far been Satisfactory.

We appreciate the sincere effort and services rendered by the entire Thermo Cable Team during Execution in accomplishing the project requirements satisfactorily.

For L&T HYDROCARBON ENGINEERING LTD - OMAN BRANCH

[Signature]
Authorized Signatory



Chennai Metro Rail Limited
(A Joint Venture of Govt. of India and Govt. of Tamil Nadu)

Date: 11.04.2024

TO Whomsoever It May Concern

This is to certify that M/s. Thermo Cables Ltd - Hyderabad has supplied Fine Stranded/Plasma Sterilized Power & Control Cables To M/s. Chennai Metro Rail Limited project through M/s. Velux Limited for Phase 1 and Phase 1 Extension of Elevated Stations for vide below referred purchase orders.

Sr. No.	Purchase Order	PO Date	Value in INR	Cable Type	Project	Agreed quantity (kg)	Year of Completion/Installation
1	1180031477	20.08.18	4,46,75,007	FR/LS Cables	MMT 10 - Elevated	41,026	May 2019
2	1136031462	25.03.20	4,35,365	FR/LS Cables	MMT 10 - Elevated	1900	December 2020
3	1200844304	23.03.21	2,72,80,485	FR/LS Cables	MMT 12 - MHQ	29,014	February 2022
4	1180044795	28.08.21	17,90,651	FR Cables	MMT 12 - MHQ	8020	February 2022
5	1180044251	16.07.21	25,64,808	FR Cables	MMT 12 - MHQ	20085	December 2022

M/s. Thermo Cables have supported in meeting our project schedules by supplying Cables within the stipulated delivery period. The Cables are in operation for more than 2 years and the Performance of the Cables is found to be Satisfactory.

Thanking you,

For Chennai Metro Rail Ltd.

[Signature]
Authorized Signatory

METROS, Anna Salai, Nendran, Chennai - 600 035.

Email: chennai@metro-rail.com / Website: www.chennai-metro-rail.com

CIN: U60100TN000750C065996

Tel: +91 202 245 1001 / 1007 Fax: +91 202 245 1253 www.thermocables.com
Registered Office: L&T House, A.M. Road, Egmont Estate, Mumbai - 400 001, INDIA
A Public Limited Company of India. The First Year



Date: 24 June 2023

To Whomsoever It May Concern

Subject: Performance Letter for Supply of Cables

This is to certify that Thermo Cables Limited, having its registered office at 28, Nagarjuna Hills Punjagutta, Hyderabad, Telangana, India - 500082 has successfully supplied cables for our various projects over the past years.

Details of the major supply orders executed are as follows:

Project Name	Purchase Order No.	Year of Supply	Quantity Supplied	Description of Material Supplied
RAS MARKAZ CRUDE OIL PAK PROJECT - OTTCO	CPP-RM-PO-0137	2020-2023	305.51 KM	Instrumentation and Control Cables

Thermo Cables Limited has met all the technical and delivery requirements of the above projects and has demonstrated good performance in terms of quality, timely delivery, and support for Smooth Execution of the project.

We acknowledge their contribution and professionalism and wish them all the best in their future endeavors.

For and on behalf of

China Petroleum Pipeline Engineering Company Limited - Middle East

[Signature]
Liu Yan 尹爱强
Head of Procurement CPP MDE



Date: 29.03.2024

TO WHOM SO EVER MAY CONCERN

This is to certify that, M/s. Thermo Cables Ltd, having its Corporate Office at 28, Nagarjuna Hills, Punjagutta, Hyderabad-500082, Andhra Pradesh, INDIA has Manufactured and supplied us Foundation Fieldbus, FS Instrumentation & Control of 400 Km against our Purchase order PO/GC-16/058 For Kuwait oil Company NEW GC 16 Project.

The Supplies were made on time and the Performance of the cables has so far been Satisfactory.

We appreciate the sincere effort and services rendered by the entire Thermo Cable Team during Execution in accomplishing the project requirements satisfactorily.

For Alkhorayef Group Company

[Signature]
Authorized Signatory

Alkhorayef Group Company
P.O. Box 4000, Dammam, Saudi Arabia
T: +966 3 88000000 F: +966 3 88000000
E: info@alkhorayef.com.sa
www.alkhorayef.com.sa

NATIONAL CEMENT COMPANY LTD
Building The Nation

P. O. Box 22270 - 10000 NAWROS, PAF/AFGHAN, GIN, LUNDAVILL HILLS, OFF MOWBATA ROAD,
TEL: 0750 400 400, FAX: 0750 400 400, E-MAIL: ncc@ncc.com.pk and info@ncc.com.pk

Date: 25.02.2018

TO WHOM SO EVER IT MAY CONCERN

This is to certify that M/s. Thermo Cables Ltd, Hyderabad have supplied L.T Power, Control, Signal, Thermocouple and Composite Cables to our 3000 TPD Chlorination Unit at Merusohi, Email: Lohakotik Road, Kajladu County, KENYA vide our PO No. NCCL/PROUEML-EA1044/2014-2015 dated 9th November, 2015.

This PO contains supply of 13000 Mtrs. of 3.5 C X 300 Sq. mm alongside other type of Cables. We appreciate Thermo Cables efforts in executing this Order with quick deliveries to meet our Project Schedules. The Cables are in operation for more than 1 Years and the performance is found to be satisfactory.

for NATIONAL CEMENT COMPANY LTD.

[Signature]
Name: Lokesh Kumar
Designation: Commercial Director

MANUFACTURES OF ALL TYPES OF QUALITY PPC AND OPC CEMENT INCLUDING 32.5N & 42.5N AND SIMBA FRYING BLOCK.

HITACHI Inspire the Next

Date: - 20/03/2024

Subject: Letter of Appreciation to Thermo Cables Limited.

To, Thermo Cables Limited
Hyderabad.

Dear Thermo Cables Team,

We extend our sincere gratitude for the exceptional support provided during the period of 2022-2024. As a key partner, Thermo Cables Limited has played a pivotal role in the success of Hitachi Energy India Ltd., particularly in the manufacturing of different type of cables for GIS at our Vadodra facility.

Hitachi Energy India Limited is a global leader in power technologies, providing the most comprehensive grid portfolio across the entire value chain. Hitachi provides compact, reliable Gas Insulated Switchgear (GIS) with high end technology for which Thermo Cables is also an important stakeholder for the supply of Control, Instrumentation and GIS cables.

Your commitment to excellence, the consistent quality of your products and on-time supply has significantly contributed to the smooth functioning of our manufacturing processes. Thermo Cables Limited's dedication to delivering top-notch solutions aligns seamlessly with our standards at Hitachi.

As we reflect on the successes of the past year, we eagerly anticipate continuing and strengthening this successful partnership in the years ahead.

In recognition of Thermo Cables Limited's substantial contributions, we present this letter of appreciation.

Best wishes to Thermo Cables Limited for continued success.

Respectfully,

For Hitachi Energy India Limited, Vadodra
Formerly known as ABB Power Products and Systems India Ltd.

[Signature]
Category Manager

Hitachi Energy India Limited
(Formerly known as ABB Power Products and Systems India Limited)

Registered and Corporate Office:
Plot No. 10, Sector 10, Vadodra
Bhilai Road, Vadodra - 390005,
Gujarat, India
Phone: +91 79 22000000
Fax: +91 79 22000001
E-mail: info@hitachienergy.com

Customer Address:
Plot No. 10, Sector 10, Vadodra
Bhilai Road, Vadodra - 390005,
Gujarat, India
Phone: +91 79 22000000
Fax: +91 79 22000001
E-mail: info@hitachienergy.com



System Certifications

Bureau Veritas Certification



THERMO CABLES LIMITED

REGISTERED OFFICE: PLOT NO 28 NAGARJUNA HILLS, PUNJAGUTTA, HYDERABAD - 500052, TELANGANA, INDIA.

H.O & UNIT 1: D-44, 45, 48 TO 50, 52A PHASE - IV, JEEDEMETLA, HYDERABAD - 500 055, TELANGANA, INDIA.

This is a multi-site certificate, additional sites are indicated on the pages of the scope of certification.

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above Organisation has been audited and found to be in accordance with the requirements of the Management System Standards detailed below.

Standards

ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018

Scope of certification

DESIGN, MANUFACTURE AND DESPATCH OF POWER CABLES, CONTROL, INSTRUMENTATION, SIGNAL, THERMO COUPLE, FIRE SURVIVAL CABLES, ELASTOMER CABLES, HIGH TEMPERATURE CABLES, ELECTRON BEAM IRRADIATED CABLES AND SPECIAL CABLES FOR MARINE, DEFENCE, OIL EXPLORATION, SOLAR, WATER HANDLING AND WIND ENERGY APPLICATIONS, CUSTOMISED WIRING HARNESS FOR ROLLING STOCK, AUTOMOTIVE, AEROSPACE, SHIP BUILDING & WIND APPLICATIONS

Original cycle start date for ISO 9001: 13 January 2006
Original cycle start date for ISO 14001 & ISO 45001: 21 May 2021
Expiry date of previous cycle: 29 May 2024
Recertification Audit date: 17 April 2024
Recertification cycle start date: 21 June 2024

Subject to the continued satisfactory operation of the Organisation's Management System, this certificate is valid until: 29 May 2027

Certificate No. **IND-24-26689MU** Version: 1 Issue date: 21 June 2024

For certificate authenticity, click here: <https://certiftech.bureauveritas.com/>

Signed on behalf of BVCH SAS UK Branch
Agostinho N. MANASS
Director - CERTIFICATION, South Asia
Commodities, Industry & Facilities Division

Certification address: 30/Floor, 60, Prasad Street, London, E1 6NG, United Kingdom

Client: Bureau Veritas United Private Limited (Certification Bureau)
10, Sankar Reddy Street, Hyderabad, 500 004, India
Auditor (Lead): Mumbai - 400 005, India

Further certification regarding the scope of this certificate and the applicable performance requirements may be obtained by contacting the Organisation.

To check this certificate validity please call +91 20 6274 2886

Bureau Veritas Certification

Bureau Veritas Certification

THERMO CABLES LIMITED

Standards

ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018

Scope of certification

SITE	ADDRESS	SCOPE
H.O & UNIT 1 JEEDEMETLA	D-44, 45, 48 TO 50, 52A PHASE - IV, JEEDEMETLA, HYDERABAD - 500 055, TELANGANA, INDIA.	DESIGN, MANUFACTURE AND DESPATCH OF POWER CABLES, CONTROL, INSTRUMENTATION, SIGNAL, THERMO COUPLE, FIRE SURVIVAL CABLES, ELASTOMER, HIGH TEMPERATURE CABLES, ELECTRON BEAM IRRADIATED CABLES, SOLAR AND SPECIAL CABLES FOR MARINE, DEFENCE, OIL EXPLORATION, SOLAR, WATER HANDLING AND WIND ENERGY APPLICATIONS, CUSTOMISED WIRING HARNESS FOR ROLLING STOCK, AUTOMOTIVE, AEROSPACE, SHIP BUILDING AND WIND APPLICATIONS
UNIT 2 JADACHERLA	PLOT NO-01, G-04A, G-04B, G-04C, G-04D, G-04E, G-04F, G-04G, G-04H, G-04I, G-04J, G-04K, G-04L, G-04M, G-04N, G-04O, G-04P, G-04Q, G-04R, G-04S, G-04T, G-04U, G-04V, G-04W, G-04X, G-04Y, G-04Z, G-04AA, G-04AB, G-04AC, G-04AD, G-04AE, G-04AF, G-04AG, G-04AH, G-04AI, G-04AJ, G-04AK, G-04AL, G-04AM, G-04AN, G-04AO, G-04AP, G-04AQ, G-04AR, G-04AS, G-04AT, G-04AU, G-04AV, G-04AW, G-04AX, G-04AY, G-04AZ, G-04BA, G-04BB, G-04BC, G-04BD, G-04BE, G-04BF, G-04BG, G-04BH, G-04BI, G-04BJ, G-04BK, G-04BL, G-04BM, G-04BN, G-04BO, G-04BP, G-04BQ, G-04BR, G-04BS, G-04BT, G-04BU, G-04BV, G-04BW, G-04BX, G-04BY, G-04BZ, G-04CA, G-04CB, G-04CC, G-04CD, G-04CE, G-04CF, G-04CG, G-04CH, G-04CI, G-04CJ, G-04CK, G-04CL, G-04CM, G-04CN, G-04CO, G-04CP, G-04CQ, G-04CR, G-04CS, G-04CT, G-04CU, G-04CV, G-04CW, G-04CX, G-04CY, G-04CZ, G-04DA, G-04DB, G-04DC, G-04DD, G-04DE, G-04DF, G-04DG, G-04DH, G-04DI, G-04DJ, G-04DK, G-04DL, G-04DM, G-04DN, G-04DO, G-04DP, G-04DQ, G-04DR, G-04DS, G-04DT, G-04DU, G-04DV, G-04DW, G-04DX, G-04DY, G-04DZ, G-04EA, G-04EB, G-04EC, G-04ED, G-04EE, G-04EF, G-04EG, G-04EH, G-04EI, G-04EJ, G-04EK, G-04EL, G-04EM, G-04EN, G-04EO, G-04EP, G-04EQ, G-04ER, G-04ES, G-04ET, G-04EU, G-04EV, G-04EW, G-04EX, G-04EY, G-04EZ, G-04FA, G-04FB, G-04FC, G-04FD, G-04FE, G-04FF, G-04FG, G-04FH, G-04FI, G-04FJ, G-04FK, G-04FL, G-04FM, G-04FN, G-04FO, G-04FP, G-04FQ, G-04FR, G-04FS, G-04FT, G-04FU, G-04FV, G-04FW, G-04FX, G-04FY, G-04FZ, G-04GA, G-04GB, G-04GC, G-04GD, G-04GE, G-04GF, G-04GG, G-04GH, G-04GI, G-04GJ, G-04GK, G-04GL, G-04GM, G-04GN, G-04GO, G-04GP, G-04GQ, G-04GR, G-04GS, G-04GT, G-04GU, G-04GV, G-04GW, G-04GX, G-04GY, G-04GZ, G-04HA, G-04HB, G-04HC, G-04HD, G-04HE, G-04HF, G-04HG, G-04HH, G-04HI, G-04HJ, G-04HK, G-04HL, G-04HM, G-04HN, G-04HO, G-04HP, G-04HQ, G-04HR, G-04HS, G-04HT, G-04HU, G-04HV, G-04HW, G-04HX, G-04HY, G-04HZ, G-04IA, G-04IB, G-04IC, G-04ID, G-04IE, G-04IF, G-04IG, G-04IH, G-04II, G-04IJ, G-04IK, G-04IL, G-04IM, G-04IN, G-04IO, G-04IP, G-04IQ, G-04IR, G-04IS, G-04IT, G-04IU, G-04IV, G-04IW, G-04IX, G-04IY, G-04IZ, G-04JA, G-04JB, G-04JC, G-04JD, G-04JE, G-04JF, G-04JG, G-04JH, G-04JI, G-04JJ, G-04JK, G-04JL, G-04JM, G-04JN, G-04JO, G-04JP, G-04JQ, G-04JR, G-04JS, G-04JT, G-04JU, G-04JV, G-04JW, G-04JX, G-04JY, G-04JZ, G-04KA, G-04KB, G-04KC, G-04KD, G-04KE, G-04KF, G-04KG, G-04KH, G-04KI, G-04KJ, G-04KK, G-04KL, G-04KM, G-04KN, G-04KO, G-04KP, G-04KQ, G-04KR, G-04KS, G-04KT, G-04KU, G-04KV, G-04KW, G-04KX, G-04KY, G-04KZ, G-04LA, G-04LB, G-04LC, G-04LD, G-04LE, G-04LF, G-04LG, G-04LH, G-04LI, G-04LJ, G-04LK, G-04LL, G-04LM, G-04LN, G-04LO, G-04LP, G-04LQ, G-04LR, G-04LS, G-04LT, G-04LU, G-04LV, G-04LW, G-04LX, G-04LY, G-04LZ, G-04MA, G-04MB, G-04MC, G-04MD, G-04ME, G-04MF, G-04MG, G-04MH, G-04MI, G-04MJ, G-04MK, G-04ML, G-04MM, G-04MN, G-04MO, G-04MP, G-04MQ, G-04MR, G-04MS, G-04MT, G-04MU, G-04MV, G-04MW, G-04MX, G-04MY, G-04MZ, G-04NA, G-04NB, G-04NC, G-04ND, G-04NE, G-04NF, G-04NG, G-04NH, G-04NI, G-04NJ, G-04NK, G-04NL, G-04NM, G-04NN, G-04NO, G-04NP, G-04NQ, G-04NR, G-04NS, G-04NT, G-04NU, G-04NV, G-04NW, G-04NX, G-04NY, G-04NZ, G-04OA, G-04OB, G-04OC, G-04OD, G-04OE, G-04OF, G-04OG, G-04OH, G-04OI, G-04OJ, G-04OK, G-04OL, G-04OM, G-04ON, G-04OO, G-04OP, G-04OQ, G-04OR, G-04OS, G-04OT, G-04OU, G-04OV, G-04OW, G-04OX, G-04OY, G-04OZ, G-04PA, G-04PB, G-04PC, G-04PD, G-04PE, G-04PF, G-04PG, G-04PH, G-04PI, G-04PJ, G-04PK, G-04PL, G-04PM, G-04PN, G-04PO, G-04PP, G-04PQ, G-04PR, G-04PS, G-04PT, G-04PU, G-04PV, G-04PW, G-04PX, G-04PY, G-04PZ, G-04QA, G-04QB, G-04QC, G-04QD, G-04QE, G-04QF, G-04QG, G-04QH, G-04QI, G-04QJ, G-04QK, G-04QL, G-04QM, G-04QN, G-04QO, G-04QP, G-04QQ, G-04QR, G-04QS, G-04QT, G-04QU, G-04QV, G-04QW, G-04QX, G-04QY, G-04QZ, G-04RA, G-04RB, G-04RC, G-04RD, G-04RE, G-04RF, G-04RG, G-04RH, G-04RI, G-04RJ, G-04RK, G-04RL, G-04RM, G-04RN, G-04RO, G-04RP, G-04RQ, G-04RR, G-04RS, G-04RT, G-04RU, G-04RV, G-04RW, G-04RX, G-04RY, G-04RZ, G-04SA, G-04SB, G-04SC, G-04SD, G-04SE, G-04SF, G-04SG, G-04SH, G-04SI, G-04SJ, G-04SK, G-04SL, G-04SM, G-04SN, G-04SO, G-04SP, G-04SQ, G-04SR, G-04SS, G-04ST, G-04SU, G-04SV, G-04SW, G-04SX, G-04SY, G-04SZ, G-04TA, G-04TB, G-04TC, G-04TD, G-04TE, G-04TF, G-04TG, G-04TH, G-04TI, G-04TJ, G-04TK, G-04TL, G-04TM, G-04TN, G-04TO, G-04TP, G-04TQ, G-04TR, G-04TS, G-04TT, G-04TU, G-04TV, G-04TW, G-04TX, G-04TY, G-04TZ, G-04UA, G-04UB, G-04UC, G-04UD, G-04UE, G-04UF, G-04UG, G-04UH, G-04UI, G-04UJ, G-04UK, G-04UL, G-04UM, G-04UN, G-04UO, G-04UP, G-04UQ, G-04UR, G-04US, G-04UT, G-04UU, G-04UV, G-04UW, G-04UX, G-04UY, G-04UZ, G-04VA, G-04VB, G-04VC, G-04VD, G-04VE, G-04VF, G-04VG, G-04VH, G-04VI, G-04VJ, G-04VK, G-04VL, G-04VM, G-04VN, G-04VO, G-04VP, G-04VQ, G-04VR, G-04VS, G-04VT, G-04VU, G-04VV, G-04VW, G-04VX, G-04VY, G-04VZ, G-04WA, G-04WB, G-04WC, G-04WD, G-04WE, G-04WF, G-04WG, G-04WH, G-04WI, G-04WJ, G-04WK, G-04WL, G-04WM, G-04WN, G-04WO, G-04WP, G-04WQ, G-04WR, G-04WS, G-04WT, G-04WU, G-04WV, G-04WW, G-04WX, G-04WY, G-04WZ, G-04XA, G-04XB, G-04XC, G-04XD, G-04XE, G-04XF, G-04XG, G-04XH, G-04XI, G-04XJ, G-04XK, G-04XL, G-04XM, G-04XN, G-04XO, G-04XP, G-04XQ, G-04XR, G-04XS, G-04XT, G-04XU, G-04XV, G-04XW, G-04XX, G-04XY, G-04XZ, G-04YA, G-04YB, G-04YC, G-04YD, G-04YE, G-04YF, G-04YG, G-04YH, G-04YI, G-04YJ, G-04YK, G-04YL, G-04YM, G-04YN, G-04YO, G-04YP, G-04YQ, G-04YR, G-04YS, G-04YT, G-04YU, G-04YV, G-04YW, G-04YX, G-04YY, G-04YZ, G-04ZA, G-04ZB, G-04ZC, G-04ZD, G-04ZE, G-04ZF, G-04ZG, G-04ZH, G-04ZI, G-04ZJ, G-04ZK, G-04ZL, G-04ZM, G-04ZN, G-04ZO, G-04ZP, G-04ZQ, G-04ZR, G-04ZS, G-04ZT, G-04ZU, G-04ZV, G-04ZW, G-04ZX, G-04ZY, G-04ZZ	

Certificate No. **IND-24-26689MU** Version: 1 Issue date: 21 June 2024

For certificate authenticity, click here: <https://certiftech.bureauveritas.com/>

Signed on behalf of BVCH SAS UK Branch
Agostinho N. MANASS
Director - CERTIFICATION, South Asia
Commodities, Industry & Facilities Division

Certification address: 30/Floor, 60, Prasad Street, London, E1 6NG, United Kingdom

Client: Bureau Veritas United Private Limited (Certification Bureau)
10, Sankar Reddy Street, Hyderabad, 500 004, India
Auditor (Lead): Mumbai - 400 005, India

Further certification regarding the scope of this certificate and the applicable performance requirements may be obtained by contacting the Organisation.

To check this certificate validity please call +91 20 6274 2886

Bureau Veritas Certification

Bureau Veritas Certification

IRIS Certification

CERTIFICATE

Issued to:

Thermo Cables Limited
Plot No. 28, Nagarjuna Hills, Punjagutta, Hyderabad - 500052, Telangana, India

ISO 9001:2015

Thermo Cables Limited, Hyderabad, India, has been assessed and found to be in accordance with the requirements of the Management System Standards detailed below.

IRIS Certification®

Original cycle start date for ISO 9001: 13 January 2006
Original cycle start date for ISO 14001 & ISO 45001: 21 May 2021
Expiry date of previous cycle: 29 May 2024
Recertification Audit date: 17 April 2024
Recertification cycle start date: 21 June 2024

Subject to the continued satisfactory operation of the Organisation's Management System, this certificate is valid until: 29 May 2027

Certificate No. **IND-24-26689MU** Version: 1 Issue date: 21 June 2024

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Signed on behalf of BVCH SAS UK Branch
Agostinho N. MANASS
Director - CERTIFICATION, South Asia
Commodities, Industry & Facilities Division

Certification address: 30/Floor, 60, Prasad Street, London, E1 6NG, United Kingdom

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Bureau Veritas Certification

Bureau Veritas Certification

RCMA (HYD)

4/74 RCMA/HYD/2024-12 Date: 16 Oct 2024

Compliance for Airborne Application of Electrical, Flame Polymer Insulated Cross-Linked Modified EPDM Wire

Certificate No. LAATL2024

1. INTRODUCTION

The Electrical, Flame Polymer Insulated Cross-Linked Modified EPDM Wire with Cross-Linked Polymer Insulation, manufactured by Thermo Cables Limited, Hyderabad, India, has been assessed and found to be in accordance with the requirements of the Management System Standards detailed below.

2. SCOPE OF CERTIFICATION

Thermo Cables Limited, Hyderabad, India, has been assessed and found to be in accordance with the requirements of the Management System Standards detailed below.

3. BASIS OF CERTIFICATION AND APPLICABLE REQUIREMENTS

3.1 Applicable Documents

1. Technical Specification: IEC 60332-1-2:2013, Part 1, dated 2013-01-01.

2. Technical Specification: IEC 60332-1-2:2013, Part 2, dated 2013-01-01.

3. IEC 60332-1-2:2013, Part 3, dated 2013-01-01.

4. IEC 60332-1-2:2013, Part 4, dated 2013-01-01.

5. IEC 60332-1-2:2013, Part 5, dated 2013-01-01.

6. IEC 60332-1-2:2013, Part 6, dated 2013-01-01.

4. LIMITATIONS (Indication of test results not included)

5. CONDITIONS OF CERTIFICATION

5.1 This certificate is contingent upon the quality system, applied to the production, being in accordance with the requirements of the Management System Standards detailed below.

5.2 The certificate is valid until: 29 May 2027

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Infrastructure

Machinery

Name of the Machine	Name of the Machine	Name of the Machine - Range/LC
Rod Break Down Machine (9 Die) Rod Break Down Machine (11 Die) Rod Break Down Machine (13 Die) Skip Stranding Machine - 2 Nos Electroplating Tinning Machine - 2 Nos Multi Wire Drawing Machine 30 mm Multi Wire Drawing Machine 8 Wire - 2 Nos Fine Wire Drawing Machine - 4 Nos Mixing Machine 75 mm - 3 Nos Kneader Line - 2 Nos 75 L Kneader Ring Marker High Speed Core Rewinding - 4 Nos Taping Machine - 7 Nos Vertical Taping Machine - 6 Nos Horizontal Taping Machine - 12 Nos Single Twist Bunching Machine 400 Single Twist Bunching Machine Tandem Extrusion Line (Ø50 + 65/35 mm) Tandem Extruder Line (Ø80+ Ø100/Ø35) Tandem Extruder Line (Ø35+ Ø50/Ø35) Extruder Machine 20 mm Bi Color Extruder Machine 45 mm Extruder Machine 45 mm Bi Color Extruder Machine 65 mm - 9 Nos Extruder Machine 70 mm Extruder Machine 70/35 mm Extruder Machine 75 mm - 3 Nos Extruder Machine 80 mm - 4 Nos Extruder Machine 100 mm Core Rewinding Machine - 7 Nos Cooling Tower - 6 Nos GI Rewinding Machine - 20 Nos Ceramic Butt Welding Machine Butt Welding Machine - 15 Nos Electron Beam Accelerator - 2 Nos Pairing Machine - 4 Nos Pairing Back Twist Machine Laying Machine (7 Bobbins) Laying Machine (7 Bobbins) - Single Twist Laying Machine (13 Bobbins) Laying Machine (19 Bobbins) - 4 Nos Laying Machine (37 Bobbins) - 3 Nos Laying (42 Bobbin) Armouring Machine (30 Bobbin) - 2 Nos Armouring Machine (40 Bobbin) Armouring Machine (48 Bobbin) - 4 Nos Armouring Machine (72 Bobbin) Armouring Machine (96 Bobbin) Extruder Sheathing Machine 80 mm - 2 Nos Extruder Sheathing Machine 100 mm Cable Rewinding Machine - 5 Nos GI Rewinding Strip Machine - 2 Nos Off Line Annealer Nickel Plating - 2 Nos Pointing Machine - 2 Nos Fork Lift - 2 Nos Auto Clave HOIST 'A' - Skip HOIST 'B' - 54 Stranding HOIST 'P' - Stores HOIST 'C' - 7 B Laying HOIST 'E' - 13 Laying HOIST 'E' - 19 Laying - 2 Nos	HOIST 'E' - 19 B Laying - 2 Nos HOIST 'G' - 30 Armouring - 2 Nos HOIST 'G' - 30 B Armouring HOIST 'F' - 37 Laying HOIST 'F' - 37 B Laying - 2 Nos HOIST 'K' - 40 Armouring HOIST 'H' - 48 Armouring - 2 Nos HOIST 'H' - 48 B Armouring - 2 Nos HOIST 'J' - 72 B Armouring HOIST 'F' - 96 Armouring HOIST 'K' - HV Area HOIST 'L' - Drum Twister Area HOIST 'O' - RBD Area HOIST 'I' - Despatch - 2 Nos Chain Hoist 'A' - G I Rewinding - 2 Nos Chain Hoist 'C' - Simon Taping - 4 Nos High Speed Bunching Machine - 10 Nos Chiller - 2 Nos Chiller 5 TR Chiller 10 TR - 2 Nos Chiller 20 TR PVC Mixer High Speed Mixer 60 kg High Speed Mixer 120 kg High Speed Mixer 200 kg 16 A High Speed Braiding - 3 Nos 16 F High Speed Braiding - 2 Nos 24 High Speed Braiding - 2 Nos 24 A High Speed Braiding - 5 Nos 24 E High Speed Braiding - 4 Nos 24 F High Speed Braiding 48 High Speed Braiding 3 HP Air Compressor 10 HP Air Compressor - 3 Nos 15 HP Air Compressor 20 HP Air Compressor - 2 Nos 25 HP Air Compressor 100 HP Air Compressor - 3 Nos Brazing Machine - 4 Nos H V Testing - 3 Nos Drum Twister Machine 630 Single Twister Machine 7 Bobbin 800 Single Twister Machine 12 Bobbin 1250 Single Twister Machine 19 Bobbin DT 500 Buncher Machine Scissor Lift 2 ton Steam Boiler PVC Grinder Hydraulic Press PT Stranding & Taping Machine Silicone Rubber Mixing Machine 65/150 Two Stage Extruder (Compounding Line) 60 KVA UPS 80 KVA UPS - 2 Nos 100 KVA UPS 120 KVA UPS 160 KVA UPS 200 KVA UPS 250 KVA UPS - 2 Nos 320 KVA DG Set 365 KVA DG Set 600 KVA DG Set Inkjet Printers - 36 Nos Laser Printers - 4 Nos	Fourier Transmission infrared Spectrometer (FTIR) Profile Projector Digital Thermometer With Sensor - 2 Nos Hot Air Ageing Oven 6 Nos - Up to 250° C & 300° C Hot Set Oven Ozone Resistance Test Equipment Smoke Density Apparatus - 3 Nos Oxygen & Temperature index Apparatus - 2 Nos Flammability Tester - 3 Nos Cold Chamber Bend Cold Impact Test Set - 2 Nos 20° C to +25° C Hot Set Test Apparatus - 3 Nos Toxicity Index Test Equipment Halogen Acid Gas Emission Test Apparatus pH & Conductivity Test Equipment - 2 Nos - 0 to 14 pH Abrasion Resistatnce Tester - 2 Nos Electronic Tensile Tester - 3 Nos - 0 to 1000 N Dielectric Breakdown Tester & Leakage Current Tester High Frequency Spark Tester - 8 Nos - 0 to 15 KV AC Main Frequency Spark Tester - 2 Nos - 0 to 15 KV AC Digital Micro Ohm Meter 5 Nos - 1 mΩ to 19.999 kΩ (2 Nos.) & 1 mΩ to 1.9999 kΩ (1 No.) H V Tester 4 Nos - 0-5 / 10 KV Million Mega Ohm Meter 6 Nos - 1 MΩ to 100 GΩ, 1 MΩ to 50 TΩ & 2 MΩ to 20 GΩ Digital L C R Q Meter Thermal E M F Error Test Apparatus - 0 to 200 mV DC Digital M V Source Cum Meter - 0 to 199.9° C Digimatic Caliper - 0 to 300 mm Acid Gas Generation Apparatus 2 Nos Swedish Chimney Test Equipment Water Immersion Test Equipment - Up to 100° C 4 Cell Ageing Oven with Data Scanning Logger 2 Nos - 16 Channels Heating Oven - Up to 200° C Thermal Stability Test Apparatus Water Absorption Test Apparatus Gravimetric Electronic Balance Weighing Machine - 3 Nos 0 to 180 gms & 10 gms to 3 kgs Kelvin Bridge - 0-11 Ω Torsion Testing Machine (Digital Control Meter - Up to 99999 Count) Fire Survival Test Equipment Static Noise Rejection Ratio Meter - 60 to 100 dB H V Break Down Tester - 0 to 2.5 KV DC Transfer Impedance Tester Steel Rule & Test Mandrel Set 0 to 1 Metre Condition Chamber 2 Nos - 20° C to 40° C (Temp.) & 40 to 80 RH Insulation Resistance Tester - 0 to 1000 MΩ / 500 V Hydro Meter 4 Nos - 0.700 - 1.000 g / ml Digital Stop Watch 5 Nos - 0 - 24 hrs Mutual Capacitance Meter - 1.999 nF - 1999.9 nF Length Counter Meter - Up to 99999 mtr Tear Resistance Die Coating Thickness Measurement Meter Digital Multimeter 4 Nos - MΩ Inductance Decade Box - 10 mH - 10 H Capacitance Decade Box - 10 pF - 10 μF Wet & Dry Thermometer 2 Nos - 40° C to +50° C Glass Thermometer 05 Nos - 10° C to + 110° C & - 10° C to 250° C Thermometer 02 Nos - 195° C to 205° C Digital Anemo Meter - 0 - 45 m/s Digital Thermo Hygrometer 02 Nos - 0 to 95° C / 20 to 99% RH Senior Double Kelvin Bridge UV Radiation Test Apparatus Notch Propagation Tester (Analog) Water Bath (Size 120 cm X 90 cm X 60 cm) H V Probe Milimeter Abrasion Resistance Tester Dynamic Cut Through Tester Cable Analyzer Universal Testing Machine PC Based Crosstalk Attenuation & Impedance Meter Attenuation 0.1 to 20 dB, Cross talk (- 40 to 100 dB), Impedance 199.9Ω to 1.999kΩ Network Analyzer (AES) Fluke - DSX - 8000 Toxity Index Tester as per EN 45545-2 Step Load Tester Bending Torsion Tester Vibration Tester

