# Thermo Cables



## Mining Cable Solutions

Since 1990, Thermo Cables Limited has engineered high performance, customized cable systems for the world's most demanding environments. 60% of our products are exported globally, serving as the strategic backbone for mission-critical sectors. With R & D expertise, unmatched financial strength and a strategic subsidiary in the Kingdom of Saudi Arabia (Thermo Cables Arabia Limited), we ensure project continuity for our partners worldwide.

**Thermo Group Ecosystem**

Thermo Cables: Global Expert in Speciality Cables Manufacturing.

Thermopads: Global Specialists in Commercial, Domestic and Industrial Heating Solutions.

Thermosystems: Turnkey EPC leaders in Fuel Oil Handling and Fire Protection Systems.



## Major Approvals

ADNOC - OFFSHORE
ADNOC - ONSHORE
ALBA
AP GENCO & 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
MAADEN
MATERIAL ORGANISATION - KARWAR
MATERIAL ORGANISATION - MUMBAI
MATERIAL ORGANISATION - VIZAG
MECON, MEW, 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
QAFAC, QCHEM
QATAR ENERGY, QATAR PETROLEUM
RCF
SABIC
SAIL, SAIPEM
SAPURA ENERGY
SAR
SHELL, SONATRACH
TATA CONSULTING ENGINEERS
TECNIMONT ICB LTD
TOYO ENGINEERING INDIA LTD
THYSSENKRUPP

Stringent quality retention on par with global standards of thorough precision, Thermo Cables is a name to reckon with in terms of meeting complete customer demand by producing and delivering a wide range of cables. Our commitment to quality, on-time delivery, and competitive pricing has earned us a strong reputation across the industry.

## Product Range

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

## Why Us

- Leading & reputed manufacturer of Speciality 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, BSEN- 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, IEC 60227, UL 13, UL 44, UL 83, UL 1277, UL 2250.

**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, IEEE 1580

**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, UL 13, UL 44, UL 1277, UL 2250.

## Valuable Assets

- Over 5,00,000 sq ft of infrastructure facilities with latest technology
- 2250+ 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)

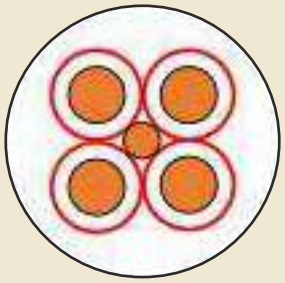
For use on board surface ships and crafts for power, control, lighting and communication and instrumentation circuits with or without fire survival characteristics.

| | | |
|---|---|---|
| **Standards** | : | NES 526 - Dual layer Insulated, Electron Beam Cross linked irradiated Electric cables<br>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** | : | $-30^0$ C to $+105^0$ C |
| **Insulation** | : | Dual Layer Electron Beam Cross linked irradiated materials / Silicon 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, NEK 606

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<br>IEC 60092-353 - Power Cables for rated voltage of 0.6 / 1 KV, 1.8 / 3 KV.<br>IEC 60092-376 - Control & Instrumentation Cables for rated voltage of 150 V / 250 V<br>IEC 60092-360 - Insulating and sheathing properties materials for shipboard and offshore cables<br>BS 6883 - Elastomeric insulated Cables for fixed wiring in ships & offshore nits<br>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** | : | $-15^0$ C to $95^0$ 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 / SW2 / SW4 / SHF2 / SHF2 (Mud Resistant) |
| **Braid Armour** | : | Copper (Bare or Tinned) / Copper Alloy (Bare or Tinned) / Aluminium Wire / Bronze Wire / GI Wire Braid with $>$90% coverage. |
| **Outer Sheath** | : | SHF1 / SHF2 / SH / SF / SW2 / SW4 / SHF2 / SHF2 (Mud Resistant) |



# 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 DGMSguidelines, 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 mm² + 1C x 25 mm² + 1C x 16 mm² |
|---|---|---|
| 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 (mm²) | |
| | 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


DNV

CERTIFICATE OF CONFORMITY

This is to certify that the product(s)

**Power, Control, Instrumentation & Thermocouple Cables**

manufactured by

**THERMO CABLES LTD.**


DNV

TYPE APPROVAL CERTIFICATE

Thermo Cables Ltd


ABS

CERTIFICATE OF

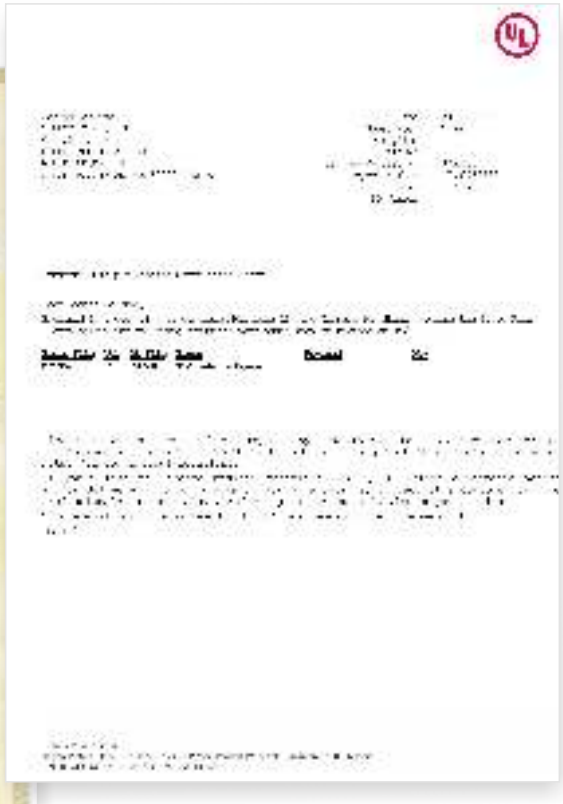
Product Design Assessment

THERMO CABLES LIMITED

PLOT NO. G1,G2(A&B), G9A, G9B AND G10, GREEN INDUSTRIAL PARK, JADCHERLA, DIST. MAHABUBNAGAR , MAHABUBNAGAR, TELANGANA, India, 509301

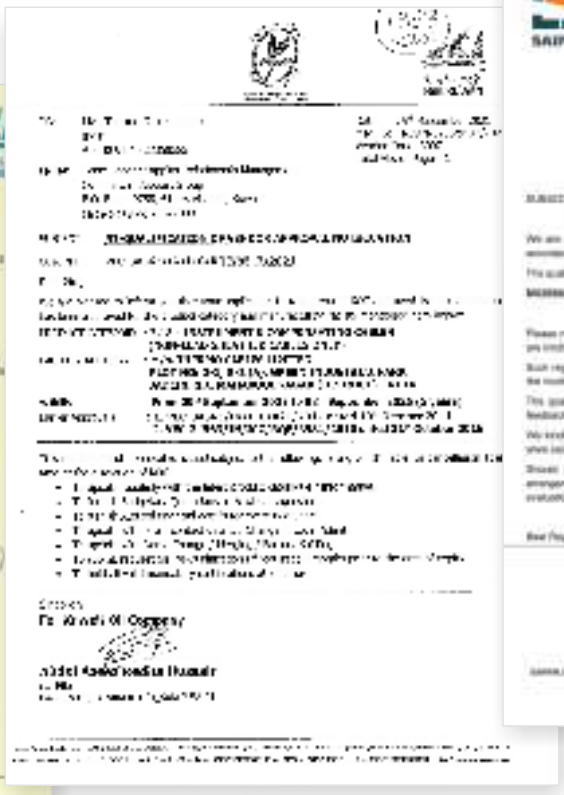

Type Approval Certificate


EAC


UL

# International Approvals

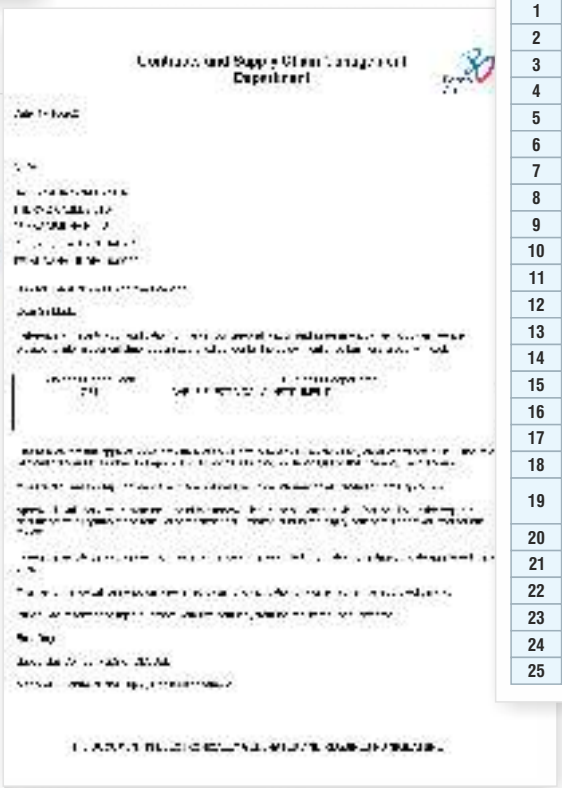




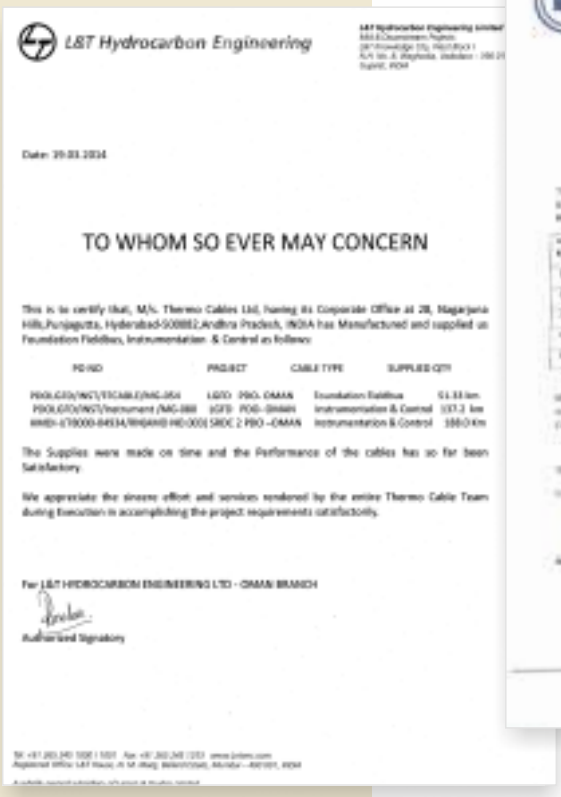






| S.No | Customer | Vendor Code |
|---|---|---|
| 1 | ADNOC | 20009092 |
| 2 | Advance Petrochemical | 201463 |
| 3 | Aluminium Bahrain B.S.C. (ALBA) | 7791 |
| 4 | Borogue | 000003394 |
| 5 | Dolphin Energy Ltd | 112792 |
| 6 | Dry Docks | 99393 |
| 7 | Emirates National Oil Company (ENOC) | 1001101538 |
| 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

Date: 20.03.2024

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 as Foundation Fieldbus, Instrumentation & Control as follows:

| PO NO | PROJECT | CABLE TYPE | SUPPLIED QTY |
|---|---|---|---|
| PSOL/LTO/WCT/TTCABLE/IMC-054 | LOTO PDO, OMAN | Foundation Fieldbus | 51.33 km |
| PSOL/LTO/WCT/Instrument /IMC-080 | LOTO PDO -SHAHIN | Instrumentation & Control | 137.2 km |
| 8MED-179000-84934/RHAMR HO-0001 | SROC 2 PDO –OMAN | Instrumentation & Control | 160.0 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

Authorised Signatory



Chennai Metro Rail Limited

(A Joint Venture of Govt. of India and Govt. of Tamil Nadu)

TO Whomsoever It May Concern

| Sl. No | Purchase Order | PO Date | Indent/ SR# | Cable Type | Project | Quantity supplied (Km./Nos.) | Year of manufacture/ installation |
|---|---|---|---|---|---|---|---|
| 1 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 2 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 3 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 4 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 5 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |

Thanking you,

For Chennai Metro Rail Ltd.

Authorised Signatory



NATIONAL CEMENT COMPANY LTD

Building The Nation

SIMBA CEMENT

Dated : 29.02.2020

TO WHOM SO EVER IT MAY CONCERN

This is to certify that M/s.Thermo Cables Ltd., Hyderabad have supplied LT Power, Control, Signal, Thermocouple and Composite Cables to our 3000 TPD Clinkerisation Unit at Hiroshi, Embl-Lukkiluk Road, Kajiado County, KENYA vide our PO No.NCCL/PRIJ/YML-DAD/0162014-2019 dated 9th November, 2015.

This PO consists supply of 15000 Mtrs of 3.5 C X 300 Sq mm alongwith other type of Cables.

We appreciate Thermo Cables effort 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.,

Name: Lokesh Kumar

Designation: Commercial Director

Seal



cpp

Date: 24 June 2025

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 PARK PROJECT - OTTCO | CPP-RM-PO-0117 | 2025/2025 | 806.31 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 Ras-al-Khaimah oil Park project.

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

For and on behalf of

China Petroleum Pipeline Engineering Company Limited - Middle East

Head of Procurement, CPP MEE

Address: 40th Floor, Addax Tower, Al Reem Island, Abu Dhabi, UAE



Abhivarya Group

Date: 13.03.2024

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 as Foundation Fieldbus, FF Instrumentation & Control of 40E line against our Purchase order PSOSC-LE/018 for Kuwait 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 Abhivaryaa Group Company

Authorised Signatory



HITACHI

Inspire the Next

Date : 30.03.2021

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 2020-2021. As it was previous 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 Vadodara facility.

Hitachi Energy India Limited is excited to enter in strategic partnership, providing the most comprehensive grid portfolio across the entire value chain. Hitachi provides compact, reliable, fast, Insulated Switchgear (GIS) with high end technology for which Thermo Cables is also an important stakeholder for the supplies of required, Instrumentation Shielded XLPE cables.

Your unique blend of 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.

Regards

For Hitachi Energy India Limited, Vadodara

Prasanth Thomas

Category Manager

Hitachi Energy India Limited

Registered and Corporate Office:

Factory Address:

Hitachi Energy

# System Certifications





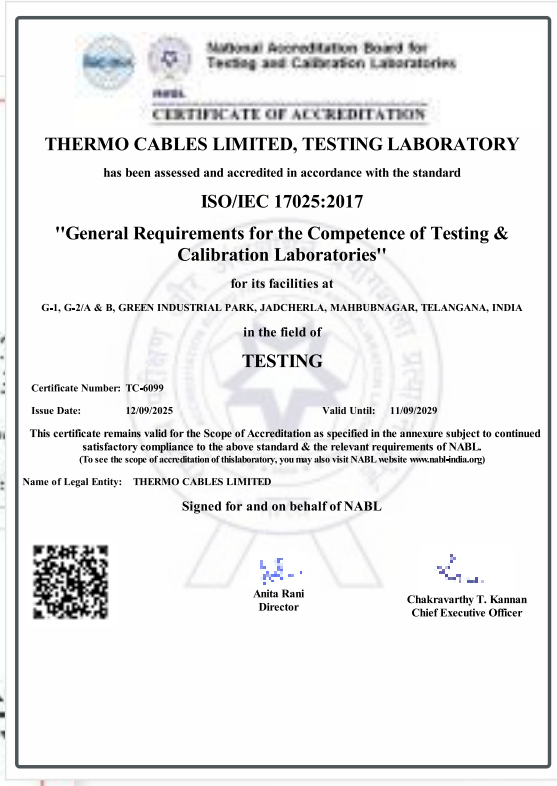












# Infrastructure

## Machinery

| Name of the Machine | Name of the Machine |
|---|---|
| Rod Break Down Machine (9 Die) | HOIST 'H' - 48 Armouring - 2 Nos |
| Rod Break Down Machine (11 Die) | HOIST 'H' - 48 B Armouring - 2 Nos |
| Rod Break Down Machine (13 Die) | HOIST 'J' - 72 B Armouring |
| Skip Stranding Machine - 2 Nos | HOIST 'F' - 96 Armouring |
| **Electroplating Tinning Machine - 2 Nos** | HOIST 'K' - HV Area |
| Multi Wire Drawing Machine 30 mm | HOIST 'L' - Drum Twister Area |
| Multi Wire Drawing Machine 8 Wire - 2 Nos | HOIST 'O' - RBD Area |
| Fine Wire Drawing Machine - 4 Nos | HOIST 'I' - Despatch - 2 Nos |
| Mixing Machine 75 mm - 3 Nos | HOIST - MMH Area - 6 Nos |
| **Kneader Line - 2 Nos** | Chain Hoist 'A' - G I Rewinding - 2 Nos |
| 75 L Kneader | Chain Hoist 'C' - Simon Taping - 4 Nos |
| Ring Marker | High Speed Bunching Machine - 10 Nos |
| High Speed Core Rewinding - 4 Nos | Chiller - 2 Nos |
| Taping Machine - 8 Nos | Chiller - 5 TR - 5 Nos |
| Vertical Taping Machine - 6 Nos | Chiller - 10 TR - 5 Nos |
| Horizontal Taping Machine - 12 Nos | Chiller - 20 TR |
| Single Twist Bunching Machine | PVC Mixer |
| 400 Single Twist Bunching Machine | High Speed Mixer 60 kg |
| Tandem Extrusion Line (Ø50 + 65 / 35 mm) | High Speed Mixer 120 kg |
| Tandem Extruder Line (Ø80+ Ø100 / Ø35) | High Speed Mixer 200 kg |
| Tandem Extruder Line (Ø35+ Ø50 / Ø35) | 16 A High Speed Braiding - 3 Nos |
| Extruder Machine 20 mm Bi Color | 16 F High Speed Braiding - 2 Nos |
| Extruder Machine 45 mm | 24 High Speed Braiding - 2 Nos |
| Extruder Machine 45 mm Bi Color | 24 A High Speed Braiding - 5 Nos |
| Extruder Machine 65 mm - 9 Nos | 24 E High Speed Braiding - 4 Nos |
| Extruder Machine 70 mm - 2 Nos | 24 F High Speed Braiding |
| Extruder Machine 70 / 35 mm | 48 High Speed Braiding |
| Extruder Machine 75 mm - 3 Nos | 3 HP Air Compressor |
| Extruder Machine 80 mm - 4 Nos | 10 HP Air Compressor - 3 Nos |
| Extruder Machine 100 mm | 15 HP Air Compressor |
| Extruder Machine 120 mm - 2 Nos | 20 HP Air Compressor - 2 Nos |
| Extruder Machine 150 mm | 25 HP Air Compressor |
| Foam Extruder Machine | 100 HP Air Compressor - 7 Nos |
| Core Rewinding Machine - 7 Nos | Brazing Machine - 4 Nos |
| Cooling Tower - 6 Nos | H V Testing - 3 Nos |
| High Speed GI Rewinding Machine - 27 Nos | Drum Twister Machine - 2 Nos |
| Ceramic Butt Welding Machine | 630 Single Twister Machine 7 Bobbin |
| Butt Welding Machine - 15 Nos | 800 Single Twister Machine 12 Bobbin |
| **Electron Beam Accelerator - 2 Nos** | 1250 Single Twister Machine 19 Bobbin |
| Pairing Machine - 4 Nos | 1050 Single Twister Machine |
| Pairing Back Twist Machine - 3 Nos | Pairing Back Twist Machine - 2 Nos |
| Laying Machine (7 Bobbins) | DT 500 & 800 Buncher Machine - 1 No & 5 Nos |
| Laying Machine (7 Bobbins) - Single Twist | Scissor Lift 2 ton |
| Laying Machine (13 Bobbins) | Steam Boiler |
| Laying Machine (19 Bobbins) - 4 Nos | PVC Grinder |
| Laying Machine (37 Bobbins) - 3 Nos | Hydraulic Press |
| Laying (42 Bobbin) | PT Stranding & Taping Machine |
| Armouring Machine (30 Bobbin) - 2 Nos | Vertical Taping Machine -18 Nos |
| Armouring Machine (40 Bobbin) | Silicon Rubber Mixing Machine |
| Armouring Machine (48 Bobbin) - 4 Nos | 65/150 Two Stage Extruder (Compounding Line) |
| Armouring Machine (72 Bobbin) - 2 Nos | 60 KVA UPS |
| Armouring Machine (96 Bobbin) | 80 KVA UPS - 2 Nos |
| Extruder Sheathing Machine 80 mm - 2 Nos | 100 KVA UPS |
| Extruder Sheathing Machine 100 mm | 120 KVA UPS |
| Cable Rewinding Machine - 5 Nos | 160 KVA UPS |
| GI Rewinding Strip Machine - 2 Nos | 200 KVA UPS |
| Off Line Annealer | 250 KVA UPS - 5 Nos |
| Nickel Plating - 2 Nos | 320 KVA DG Set |
| Pointing Machine - 2 Nos | 365 KVA DG Set |
| Fork Lift - 2 Nos | 600 KVA DG Set |
| Auto Clave | 1000 KVA DG Set |
| HOIST 'A' - Skip | Inkjet Printers - 36 Nos |
| HOIST 'B' - 54 Stranding | Laser Printers - 4 Nos |
| HOIST 'P' - Stores | EOT 15MT |
| HOIST 'C' - 7 B Laying | 80 / 50 Insulation Line (High Speed) |
| HOIST 'E' - 13 Laying | Rubber Compound Line |
| HOIST 'E' - 19 Laying - 2 Nos | Electro Tin Plating |
| HOIST 'E' - 19 B Laying - 2 Nos | Multi Wire Drawing Machine (16 wire) |
| HOIST 'G' - 30 Armouring - 2 Nos | 37 Bobbin Planetary Laying Machine |
| HOIST 'G' - 30 B Armouring | Interlock Armouring Machine |
| HOIST 'F' - 37 Laying | Induction Heating System |
| HOIST 'F' - 37 B Laying - 2 Nos | 3150 Cable Rewinding Machine |
| HOIST 'K' - 40 Armouring | |

## Testing Equipment

| Name of the Machine - Range/LC |
|---|
| Fourier Transmission infrared Spectrometer (FTIR) |
| Profile Projector |
| Digital Thermometer With Sensor - 2 Nos |
| Hot Air Ageing Oven |
| Hot Air Oven 6 Nos - Upto 250° C & 300° C |
| Hot Set Oven - 3 Nos |
| 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 -30° 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 Resistance 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 - Upto 100° C |
| 4 Cell Ageing Oven With Data Scanning Logger - 2 Nos - 16 Channels |
| Heating Oven - Upto 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 - Upto 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° 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 - Upto 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° to + 50° C |
| Glass Thermometer - 5 Nos - -10° C to + 110° C & -10° to 250° C |
| Thermometer - 2 Nos - 195° C to 205° C |
| Digital Anemo Meter - 0 -45 m/s |
| Digital Thermo Hygrometer - 2 Nos - 0 to 95° C / 20 to 99% RH |
| Senior Double Kelvin Bridge |
| UV Radiation Test Apparatus |
| Notch Propagation Tester (Analog) |
| Water Bath (Size 120cm X 90cm X 60cm) |
| H V Probe Milimeter |
| Abrasion Resistance Tester |
| Dynamic Cut Through Tester |
| Cable Analyzer |
| Universal Testing Machine |
| PC Based Crosstalk Attentuation & Impedance Meter - Attenuation 0.1 to 20 dB, Cross talk (-40 to 100 dB), Impedance 199.9 Ω to 1.999 kΩ |
| Network Analyzer (AESA) |
| Fluke - DSX - 8000 |
| Toxity Index Tester as per EN 45545-2 |
| Step Load Tester |
| Bending Torsion Tester |
| Vibration Tester |
| Fluorine Content Test Equipment |
| Thermal Endurance Test Ovens - 12 Nos |
| Cable Harness Testers - 2 Nos |
| Melt Flow Index Testers - 2 Nos |
| A.C High Voltage Tester 0-8KV - 3 Nos |
| High Temperature Oven upto 400° C - 2 Nos |
| Pull Force Tester |
| Micro Scope (Terminal Analyzer with Software) |
| DC milli Volt Drop Test Equipment |
| Variable mA Current Source Tester |
| DC-20MHz Dual Trace Oscilloscope |
| Conduit Flexing Tester |
| Digital Compression Tester - 2 Nos |
| Mooney Viscometer |
| Dust Particle Counter (Light House) |
| Bulk Density Test Apparatus |
| Digital Million Megohm Meter with Volume Resistivity |



## OUR CUSTOMERS

# Thermo Cables Ltd

An ISO 9001, 14001 & 45001 Certified Company


28, Nagarjuna Hills, Punjagutta, Hyderabad - 500 082
Telangana, India +91 40 44429292 +91 40 23350583

info@thermocables.com; exports@thermocables.com

Overseas Offices:

| | | |
|---|---|---|
| **Exports** | +91 9392860962 | ramdas@thermocables.com |
| **London** | +44 7798771519 | exports@thermocables.com |
| **Germany** | +49 (0) 15124124557 | exports@thermocables.com |

**Plant - I**
D - 44, 45, 48, 49 & 50
Phase V, IDA, Jeedimetla
Hyderabad - 500 055 Telangana, India
+91 40 23095058 / 7745 +91 40 23090661

**Plant - II**
G 1, G 2 (A, B & C), G 9 (A & B) & G 10
Green Industrial Park
Jadcherla, Mahabubnagar - 509 301
Telangana, India

| | | |
|---|---|---|
| **Baroda** | 9676375143 | baroda@thermocables.com |
| **Bengaluru** | 9341002070 | bangalore@thermocables.com |
| **Chennai** | 6309955521 | chennai@thermocables.com |
| **Delhi** | 9313438322 | salesnorth@thermocables.com |
| **Hyderabad** | 9394345566 | hydsales@thermocables.com |
| **Kolkata** | 9339336204 | kolkata@thermocables.com |
| **Mumbai** | 9320643117 | mumbai@thermocables.com |
| **Pune** | 7709011059 | pune@thermocables.com |

**www.thermocables.com**


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