



Thermo Cables





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 50% 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

AVANT GARDE

BDL, BEL

BHEL, BLW

BOROUGE

BPCL

CLW, CMRL, CSL

DLW, DMW

DLRL, DMRL

DMRC

DESEIN LTD

DGMS, DVC

DRDO, DRDL

EGA

ENGINEERS INDIA LTD

FICHTNER CONSULTING

GRSE, GSPC

GOA SHIPYARD

HINDUSTAN SHIPYARD

HPCL, HAL, HMRL

IOCL, ICF, ISRO

JACOB'S H & G

KNPC, KUWAIT

KOC, KUWAIT

L & T

MATERIAL ORGANISATION - KARWAR

MATERIAL ORGANISATION - MUMBAI

MATERIAL ORGANISATION - VIZAG

MECON, MCF

MN DASTUR & CO.

MAZGOAN DOCK LIMITED

MUMBAI PORT TRUST

NPCIL, NSTL, NTPC

ONGC

PDIL, PGCIL

PDO OMAN, PETRONAS

QATAR PETROLEUM

RCF

SAIL

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
- LV Power & Control Cables
- Thermocouple Cables
- Fire Resistant Cables
- Railway Cables
- Naval Application Cables
- Marine / Shipboard Cables
- Pressure Tight (PT) Cables
- Renewable Energy Cables
- High Temperature Cables
- Material Handling Cables
- Foundation Fieldbus Cables
- Special Application (LFH) Cables
- Co-Axial Cables (RG Series)
- VFD Cables
- Cathodic Protection Cables

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:
ANSI MC 96.1, BS-6346, BS-5467, BS-7919, BS-7629, BS-6387, BS-7846, BS-5308-I & II, BSEN 50288-7, DEF-02 526, DEF-02 527, EED 50-12, 50-13, IEC-60502-I, IEC-60189-I & II, IEC-60228, IEC-60092 350 353 376, IEC-60584-I & III, IEC-60331, IS-8784, IS-613, IS-694, IS-1554-I, IS-7098-I, IS-9968-I, JSS-51034, JSS-51038, MIL-C-17, MIL-DTL-22759/86A, MIL-DTL-22759/87A, MIL-DTL-27500H, MIL-DTL-24640C, MIL-DTL-24643C, UL-1581, UL-758, VDE-0815, VDE-0816, VG-95218 60-66 etc.

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





Naval Application Cables

On Board Indian Naval Ships and Crafts Cables

For use on onboard Surface Ships, Submarines and Crafts for Power, Lighting, Control, Communication and Instrumentation. Used in Fuel and Lubrication Oils, Hydraulic Fluids and Water Surfaces.

Standards	: EED-50-12-Thin Walled, Insulated, Electron Beam Cross Linked Irradiated Electric Cables EED-50-13-Fire Survival, High Temperature Zone, Fire Retardant Halogen Free Sheathed Electron Beam Cross Linked
Construction	: Single Core, Multi Core, Multi Pair & Triad Cables, Unscreened / Individually Screened or Collectively Screened
Voltage Grade	: 440 V AC, 600 V AC and 1800 V AC (for Single Core Cables)
Conductor	: Circular Electroplated, Annealed Tinned Flexible (Class V) Copper Conductor conformity to IEC-60228
Temperature Range	: - 65° C to 120° C (EED-50-12 Cables) - 30° C to 120° C (EED-50-13 Cables)
Insulation	: Electron Beam Cross Linked Polyolefin compound (EPR / EPDM LFH) / Silicone Rubber
Screening	: Annealed Tinned Copper / GI Wire Braids
Outer Sheath	: Electron Beam Cross Linked Polyolefin Compound (EVA / EMA / EEA LFH)
Protective Barrier	: Fibre Glass Braid / Lacquer Mica glass tape to meet the Fire Performance (applicable for EED-50-13 Cables)

Special Navy Cables

VG 95218 Part 61- 66 – Power Navy Cables, Light Power Navy Cables, Telecommunication Navy Cables, Light Telecommunication Navy Cables.

Construction	: Multi Core Cables, Multi Pair Cables Unscreened or Individually Screened or Collectively Screened (Optional GI braided armoured) Limited Fire Hazard Sheathed
Conductor	: Circular Annealed Bare Copper conductor
Insulation	: EPR / HEPR as per relevant spec
Screening	: Annealed Tinned Copper Braid, Individually Screened or Collectively Screened as per relevant spec
Outer Sheath	: LFH Elastomeric Thermoset Compound
Temperature Range	: - 30° C to + 90° C
Application	: For use on board surface ships and crafts and power, control, lighting, submarines for communication and instrumentation circuits



Marine / Shipboard Cables

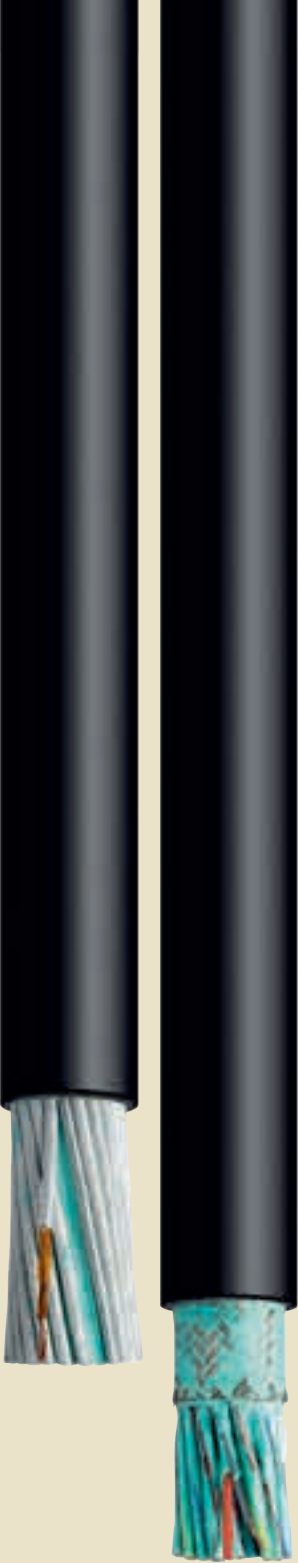
DEF STAN 02-526 (NES 526) and DEF STAN 02-527 (NES 527)

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

Construction	: Single Core, Multi Core, Multi Pair & Triad, Unscreened or Individually Screened or Collectively Screened, Limited Fire Hazardous Sheathed Cables
Voltage Grade	: 440 V AC
Conductor	: Circular Electroplated, Annealed Tinned Copper
Temperature Range	: - 30° C to + 105° C
Insulation	: Dual layer of Gp5 and LFH Material / Silicone Rubber
Screening	: Annealed Tinned Copper Braid
Outer Sheath	: LFH Elastomeric Compound
Protective Barrier	: Glass Braid/Lacquer, Mica Glass Tape to meet the fire performance applicable for DEF STAN 02-527 (NES 527)

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

Construction	: Single Core, Multi Core, Single, Multi Pair, Multi Triad and Quad Screened & Unscreened, Armoured & Unarmoured
Voltage Grade	: 150 V / 250 V and 600 V / 1000 V 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
Outer Sheath	: SHF1 / SHF2 / SH / SF
Braid Armouring	: Bare Copper / Tinned Copper / GI Wire Braid with >90% coverage MIL W-22759 / 32-35 & 41-46 and MIL STD-2223



Pressure Tight (PT) Cables

Power, Control & Signal Cables, Halogen Free and Flame Retardant, Fire Survival with low smoke generation and low toxic properties of insulation & sheath. These cables are suitable and designed to withstand radial and axial pressure up to 10 to 72 bar pressure.

Specification	: EED 57-03 & EED 57-04
Construction	: Single Core, Multi Core, Multi Pair, Unscreened, Individually Screened & Collectively Screened
Voltage Grade	: 600 V AC to 1000 V AC
Conductor	: Circular electrolytic bare copper (Class 2)
Temperature Range	: - 30° C to +120° C
Insulation	: Special halogen free and fire retardant with low smoke generation and low toxic properties with E-beam curing process
Screening	: Annealed tinned copper braid
Outer Sheath	: Special halogen free and fire retardant with low smoke generation and low toxic properties with E-beam curing process
Water Blocking Compound/Tape	: Provided to withstand pressure requirement
Application	: Used in Submarines for Power, Control, Lighting and Communication and Instrumentation circuits

UL/CSA Listed High Temperature Aerospace & Missile Wires & Cables

High Temperature Cables are used in areas where both working temperature and ambient temperatures are too high. They are made with a wide range of conductors, insulating materials and screening materials depending on the temperatures and conditions under which the cable has to perform.

Construction	: Single Core high temperature hook-up wires & Multi Core / Multi Pair, Screened / Unscreened and Armoured / Braided Cables
Voltage Grade	: 250 V AC, 600 V AC & 1000 V AC (Rating as per MIL-16878, VDE, DIN, ANSI)
Insulation Materials	: PTFE / FEP / PFA / PEEK / ETFE / XL-ETFE / Silicone Rubber / Varnished Fibre Glass Braid

Electron Beam Cross Linked ETFE (XL-ETFE), a type of Thermoset Insulation, provides excellent fluid / oil / moisture resistance also creates increased stability at higher temperatures. Wires and Cables conforming to MIL-W-22759/32-35 & 41-46 and MIL-STD-2223.



Foundation Fieldbus Cables

These Cables are meant for bi-directional communications protocol used for communications among field devices and to the control system. Installed in many process applications such as refining, petrochemicals, power generation, even in food & beverage, pharmaceuticals and nuclear applications.

Voltage Grade	: 300 V / 600 V
Conductor	: Plain/Tinned Annealed Copper (up to 120° C) Silver Plated Annealed Copper (up to 200° C) Nickel Plated Annealed Copper (up to 260° C)
Range	: 22 AWG / 18 AWG / 16 AWG / 14 AWG
Insulation	: Solid Polyethylene / XLPE / PFA for temp. > 150° C
Screening	: Individual and / or overall with following options - Aluminum Mylar / Copper Tape with Tinned Copper Drain Wire - Braided with Bare or Tinned or Nickel Plated or Silver Plated Copper
Inner Sheath	: PVC / HR PVC / FR PVC / FRLS PVC / ZHFR / LSF / FEP / PFA
Armouring	: Round Galvanized Steel Wire / Flat Strip / Steel Wire Braid
Outer Sheath	: PVC / HR PVC / FR PVC / FRLS PVC / ZHFR / LSF / FEP / PFA with Plain Orange Jacket or with strip for easy identification and Blue jacket available for Intrinsically Safe applications
Standards	: Cable specification Foundation Fieldbus FF-844 H1, Cable design based on EN 50288-7 / BS-5308 Part 1, IEC-60332 Electrical properties: FF-844 H1 and IEC-61158-2, Type A
Our FF Cable Features	: Excellent Electrical Characteristics Low Capacitance (for long runs) RoHs compliant and CE marked

Special Application (LFH) Cables

Power, Control & Signal Cables, Limited Fire Hazard Insulation & Sheath materials with halogen free, fire retardant with low smoke generation and low toxic properties.

Specification	: Def Stan 61-12 (PT-18 & PT-31)
Construction	: Multi Core, Multi Pair, Composite Cables, Unscreened, Individually Screened & Collectively Screened
Voltage Grade	: 600 V
Conductor	: Circular electroplated & annealed tinned copper
Temperature Range	: - 50° C to +120° C
Insulation	: Special Halogen free and fire retardant with low smoke generation and low toxic properties with E-beam curing process
Screening	: Annealed tinned copper braid
Outer Sheath	: Special halogen free and fire retardant with low smoke generation and low toxic properties with E-beam curing process
Application	: Used in defence especially in Radar & Missile launching system for Power, Control, Lighting and Communication and Instrumentation circuits



Co-Axial Cables (RG Series)

Radio Frequency or Signal Transmission Cables, Polyethylene Dielectric Insulation & Sheath material with Halogen Free, Fire Retardant with low smoke generation and low toxic properties.

Specification	: Def Stan 02-512 (PT-5) & customer specification
Construction	: Single Core, Multi Core Cables, Unscreened Collectively Screened
Primary Conductor	: ABC / ATC / SPC & special conductors like CCS (Copper Clad Steel) etc
Temperature Range	: - 30° C to +120° C
Insulation	: Polyethylene / FEP Dielectric Compound
Outer Conductor	: Aluminium Mylar Tape / Annealed Tinned / Bare Copper Braid if applicable
Outer Sheath	: Special halogen free and fire retardant with low smoke generation and low toxic properties with E-beam curing process
Type of Cables	: RG 11, RG 213, RG 188 etc.
Application	: For use of VHF (Very High Frequency) signal transmission

VFD Cables

VFD cables are used to connect the VFD drive to the variable frequency motors, drives precisely controls the speed and torque of the motors. During this operation of controlling the motor by changing the frequency there is every chance of lot of noise getting generated, induced voltage and sudden spikes generation and intense electric field around the conductor which can be suppressed with special design.

Construction	: Metallic layer over the core/cable will reduce the noise/strong electric field around the core / earthing of all spikes generated during the operation.
Voltage Grade	: Up to 1800 / 3300 V AC
Conductor	: Circular electrolytic bare copper / tinned copper (stranded / flexible)
Insulation	: XLPE or EPR or HEPR
Screening	: Combination of copper tape and copper wire braid or double layer of copper tape and concentric braiding
Outer Sheath	: PVC / ZHFR / SHF1 / SHF2
Application	: This construction of metallic layer over the core/cable will reduce the noise / strong electric field around the core / earthing of all spikes generated during the operation.

Cathodic Protection Cables

For added protection against corrosive gases and brackish water, a PVDF fluoropolymer insulation covered by an HMWPE jacket can be used. Polyvinylidene difluoride (PVDF) inner layer has exceptional chemical resistance when present in chlorine, sulfuric acid and hydrochloric acid. High molecular weight polyethylene (HMWPE) exhibits superior dielectric and tensile strength and protection and can withstand considerable abuse during installation.

Used for underground DC power supply feeder to cathodic protection systems for pipelines, storage tanks, and other buried or submerged structures

Construction/Range	: Single Core up to 95 Sq mm
Voltage Grade	: Up to 1000 V
Conductor	: Bare Copper / Tinned Copper Standard / Flexible Conductor
Primary Insulation	: PVDF Fluoropolymer / ECTFE (Halar)
Outer Sheath	: High molecular weight polyethylene (HMWPE)



Certificates



CERTIFICATE OF CONFORMITY

Product No.: 123456789
Certificate No.: 123456789
Issue Date: 12/01/2021
Valid Until: 12/01/2022

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, 46, 48 & 50, Phase - C, 204, Industrial Estate, Hyderabad - 500 052, Telangana
2) Plot No. G-1, G-2 (A & B), G-3 (A&B) & G-10, Green Industrial Park, Jaidhar, 500 021, Mahabubnagar District, Telangana.

have been assessed with respect to the requirements laid down in points 2 of Annex (2) of Council Directive 2014/53/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.

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

Signature: [Signature]
Manager - Project Assurance

Price and terms:
Amount: INR 25,000/-

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

Signature: [Signature]
Manager - Project Assurance



National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

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

for its facilities at

G-1 G-2 & G-3 GREEN INDUSTRIAL PARK, JAIIDHAR, MAHABUBNAGAR, TELANGANA, INDIA

In the field of:

TESTING

Certificate Number: 123456789
Issue Date: 12/01/2021
Valid Until: 12/01/2022

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

Scope of Accreditation: [Scope]

Name of Legal Entity: Thermo Cables Limited

Signed for and on behalf of NABL:

[Signature]
N. Vasanthakumari
Chief Executive Officer

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

Signature: [Signature]
Manager - Project Assurance



Indian Register of Shipping

Place: Mumbai
Date: 24 Aug 2020
Certificate No.: 123456789

Works Approval Certificate for Manufacturer of Electrical Cables

This is to certify that, based on the existing manufacturing facilities and satisfactory results of Manufacturer and Quality Control procedures by our Surveyors, the status of

M/s. Thermo Cables Limited
G-1, G-2, G-3, G-4, G-5, G-6, G-7, G-8, G-9, G-10, Green Industrial Park, Jaidhar, 500 021, Mahabubnagar District, Telangana, India

is being retained in the list of approved manufacturers of electrical cables to be used on ships.

Manufacturing Standards: See Annexure - I
Conditions of Approval: See Annexure - I
Validity: This certificate is valid until 24th August 2022
Annual Surprising Due: See Annexure - I

PRINCE PANDURANG
PRINCIPAL SURVEYOR

For Principal Surveyor of Issue of this Certificate:
Health of this Approval Certificate to 24th August 2022

Price and terms:
Amount: INR 25,000/-

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

Signature: [Signature]
Manager - Project Assurance



LR

Type Approval Certificate

This is to certify that the underlisted product has 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, Nagappa Road, Paraguru, Hyderabad, Telangana, 500012, India
Place of Production	Thermo Cables Limited
Place of Production	Thermo Cables Limited
Type	Power Cable
Description	100% Insulated Impregnated Cable
Trade Name	Refer to the Appendix for details
Application	Power supply for power distribution system
Specified Standard	IS 1563:2016, IS 1564:2016, IS 1565:2016, IS 1566:2016, IS 1567:2016, IS 1568:2016, IS 1569:2016, IS 1570:2016, IS 1571:2016, IS 1572:2016, IS 1573:2016, IS 1574:2016, IS 1575:2016, IS 1576:2016, IS 1577:2016, IS 1578:2016, IS 1579:2016, IS 1580:2016, IS 1581:2016, IS 1582:2016, IS 1583:2016, IS 1584:2016, IS 1585:2016, IS 1586:2016, IS 1587:2016, IS 1588:2016, IS 1589:2016, IS 1590:2016, IS 1591:2016, IS 1592:2016, IS 1593:2016, IS 1594:2016, IS 1595:2016, IS 1596:2016, IS 1597:2016, IS 1598:2016, IS 1599:2016, IS 1600:2016, IS 1601:2016, IS 1602:2016, IS 1603:2016, IS 1604:2016, IS 1605:2016, IS 1606:2016, IS 1607:2016, IS 1608:2016, IS 1609:2016, IS 1610:2016, IS 1611:2016, IS 1612:2016, IS 1613:2016, IS 1614:2016, IS 1615:2016, IS 1616:2016, IS 1617:2016, IS 1618:2016, IS 1619:2016, IS 1620:2016, IS 1621:2016, IS 1622:2016, IS 1623:2016, IS 1624:2016, IS 1625:2016, IS 1626:2016, IS 1627:2016, IS 1628:2016, IS 1629:2016, IS 1630:2016, IS 1631:2016, IS 1632:2016, 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Response	Percentage
Doing a good job	65%
Not doing a good job	25%
Unsure	10%

المجلة العربية للعلوم والتقنية، المجلد 1، العدد 1، 2002

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Abu Dhabi Company for Onshore Petroleum Operations Ltd.(ADCO)

SHAW-WALKER
an Equal Opportunity and
Affirmative Action Employer
Minorities, Women
Veterans, Disabled

Major Approvals

[illegible][illegible][illegible]

Accolades

[illegible]



Chennai Metro Rail Limited

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

Date: 18.12.2013

To Whomever It May Concern

This is to certify that M/s. Thomas Cablex Ltd - Hyderabad has supplied the following Cablex/Power Cables for / Cable Power & Control Cables to M/s. Chennai Metro Rail Limited project through M/s. Value Indicators for Phase 1 and Phase 2 lots of Overhead and Underground Stations for the below referred purchase orders.

Sl. No	Purchase Order	Date	Value in INR	Cable Type	Project
1	1200012391	05.07.10	14,84,000	75/375 Cables	SRM-UG-02 & SRM-UG-03
2	1200010901	06.10.10	80,54,273	75 Cables	MMB-09 - UG
3	1200010904	25.04.10	89,84,613	75/375 Cables	MMB-08 - UG
4	1200010603	03.05.10	6,13,54,063	120/375 Cables	MMB-08 - UG
5	1200010877	20.08.10	4,45,75,000	75/375 Cables	MMB-10 - UG
6	1200011090	06.09.10	25,84,017	75/375 Cables	SRM-UG-02 & SRM-UG-03
7	1200011903	25.05.10	6,70,980	75/2 Cables	MMB-10 - Over
8	1200040300	23.08.12	2,71,90,400	75/3 / 75 Cables	MMB-12 - Over
9	1200040705	06.08.12	27,90,652	75 Cables	MMB-12 - Over
10	1200040201	06.07.12	25,84,000	75 Cables	MMB-12 - Over

M/s. Thomas Cablex have supported in meeting our project schedule by supplying Cables within the stipulated delivery period. The Cables are in operation and the performance of the cables is found to be satisfactory.

Thanking you,
for Chennai Metro Rail Ltd



Authorized Signatory

CMRL Depot, Adina Building, Panambur High Road, Egmore, Chennai - 600 017.
Phone : 02200040 Fax : 02270000
E-mail : chennai@chennai.cmril.co.in Website : www.chennai.cmril.co.in


Ministry of Defence
Defence Headquarters
 To,
 M/s. Thermo Cable Ltd
 Plot No. D-44, 45, 46, 47 & 50, Phase-V,
 IDA Jodhpur, Hyderabad.
 Telangana, India
 Pin- 500025
 Phone : 080-23495268

request the followings
(if) was request the followings
very urgent to work
Magnum Dock Hydrocables Limited
 (Formerly known as Magnum Dock Limited)
 28 Road of India Corporation
 Chennai 60, Chennai, TN
 Southport Road, Madurai, Madurai - 625 014
 Tel: 91(22) 2376 3000
 Fax: 91(22) 2373 9158
 E-mail: souththom@magdock.com
 Plot No. GRACyD L, Calicut
 Date: 16/11/2021

Appreciation Letter to M/s. Thermo Cable Ltd, Hyderabad

MEX, had a urgent requirement of special cable for Ball Loss Hole Traversing System (BLHTS) navigation system, which was not available India. The tender for this cable was floated and only M/s. Thermo Cable Ltd, has offered the supply of cable meeting the stipulated special requirements.

The PO for supply of this cable was placed at M/s. Thermo Cable Ltd, on 28 Sep 21. As per PO terms and conditions, the cable contractual delivery was 28 weeks from the placement of PO to 24 Nov 21.

However, the trials of BLHTS were scheduled in the first week of November. In order to complete these trials as per delivery schedule to Indian Navy, MEX, requested M/s. Thermo Cable Ltd, to supply this special cable within 28 weeks in lieu of 28 weeks as per PO which was agreed by M/s. Thermo Cable Ltd.

MEX, and Indian Navy representatives had regular interaction with the following executives of M/s. Thermo Cable Ltd, for early completion of the order and mutual conflict resolutions. Those executives have made the special efforts at their ends to expedite the production of the cables.

1. Mr. Srivatsava Rao, President (Marketing)
 2. Mr. Manish Kumar, Sr. GM(Marketing)
 3. Mr. Vidyavagat R. DGM (Development)

MEX, management highly appreciates all the efforts and commitments shown by M/s. Thermo Cable Ltd, for supplying the critical cable before schedule and extending timely support to MEX.


 (Shri V. Shalithore)
 GM(Design)

JSW Steel Ltd

Head Office: 1st Floor,
JSW Steel, Kalyan Nagar,
Chennai - 600 076
Phone : +91 44 265 00 00
Fax : +91 44 265 00 00
E-mail : jsw@jsw.co.in

JSW Steel Ltd

To Whom So Ever It May concern

This is to certify that M/s. Thyssen Corrosion Control, Hyderabad is one of our supplier for CRD Application, Composite Fibre/ FRP Cable used in steel reinforcing works.

M/s. Thyssen Corrosion Ltd. had supplied 200 & 400 mm of RCX 2500 mm x 150 mm & 90X3 50g, 100X3 50g Composite Cable with one for CRD Application for our SRS-01 CR Project against the POs:

1) V20K/M00073/CAP/E/4700049224 Dated 04/02/2017 - 04549
2) 1200/P00023/CAP/C/4700007394 Dated 04/01/2018 - 04549

Supplied Unstapled CRD Cables have been successfully installed. Transfer CRD August 2017 & July 2018. The performance of the steel satisfactory w/o dips.

Steel manufactured & delivered to site as per the Purchase order within the delivery schedule & quality requirements. Their performance for our Projects has been satisfactory as on date.

For Steel Division,


Signature
(Seal)

CC To:
Thyssen Corrosion Ltd,
28, Neelganga Bldg,
Hyderabad - 501 002

Regional Office - 1st Floor,
Steel City Complex,
Ramesh Nagar, Mumbai - 400 016
Phone : +91 22 426 44 00



Hitachi Energy India Limited
560058 Bangalore, IN

TO,
THERMO CABLES LIMITED
Marikuppala (Dist.)
Plot No. G7, G2(A), Green Industrial
JACCHERLA
TANDIANAGANA - 509031
India

BUSINESS
CBL quotation
FROM
Apurva Asha Near
PHONE DIRECT
041-267870734
E-MAIL
apurvasha@gmail.com/hitachienergy.com
DOCUMENT ID

DATE
2022-09-30

REFERENCE NO.
PGGA/Dep61

Sub : REF PO Number: 511908340 dated 27-09-2021

Dear Sir/Madam

With reference to above subject we have procured following PO material from M/s Thermo Cables Ltd, Hyderabad for KPCCL-CRP project for Kadra, Kodasalli, Almatli dam power house.

Type of Cable	Item	Qty (Meters)	PO No	PO Date	Invoice Number & Date
ZHFRLS (Zero Halogen FRLS Sheathed)	4CX0.05SG MM	11,000	51191308340	27-09-2021	111000111392
	7CX1.05SG MM	10,000			211-20-2021
	7CX1.05SG MM	8,200			21000111410
	4CX1.05SG MM	1,000			29-10-2021
Armored Cable	2PXC1.05SG M	2,000			31000011411
	1WC2.05SG M	7,000			29-10-2021

M/s Thermo Cables Limited, Hyderabad supplied all the above material with necessary approval & inspection. Performance of supplied cables are satisfactory till date.

Yours sincerely,



Apurva Asha
SCM MANAGER PGGA (Systems, Communications and Services)

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

Registered and Corporate Office:
8th Floor, Bengaluru Tower, 15A/16
Kodigumma Main Road, Bengaluru - 560 001
Phone: 080-68475700, 080-22241880
www.hitachienergy.com

Local Address:
M&S E & S, Panna Peranna Industrial Estate,
560009 Bangalore



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 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 Hot Air 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 - 2 Nos Cold Bend Cold Impact Test Set - 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 4 Nos - 1 MΩ to 100 GΩ Million Mega Ohm Meter 2 Nos - 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 2 Nos - 0 to 180 gms Electronic Weighing Machine - 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 - 0 to 1 Metre Steel Test Mandrel Set 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

Testing Equipment



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

London Office
☎ +44 7798771519

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), G 9 (A & B) & G 10
Green Industrial Park

Jadcherla, Mahabubnagar - 509 301

Telangana, India

Baroda 8367449977
Bengaluru 9341002070
Chennai 9094539439
Delhi 9313438322
Hyderabad 9396745763
Kolkata 9339336204
Mumbai 9320643117
Pune 7709011059

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