



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.

<b>Standards</b>	: 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
<b>Construction</b>	: Single Core, Multi Core, Multi Pair & Triad Cables, Unscreened / Individually Screened or Collectively Screened
<b>Voltage Grade</b>	: 440 V AC, 600 V AC and 1800 V AC (for Single Core Cables)
<b>Conductor</b>	: Circular Electroplated, Annealed Tinned Flexible (Class V) Copper Conductor conformity to IEC-60228
<b>Temperature Range</b>	: - 65° C to 120° C (EED-50-12 Cables) - 30° C to 120° C (EED-50-13 Cables)
<b>Insulation</b>	: Electron Beam Cross Linked Polyolefin compound (EPR / EPDM LFH) / Silicone Rubber
<b>Screening</b>	: Annealed Tinned Copper / GI Wire Braids
<b>Outer Sheath</b>	: Electron Beam Cross Linked Polyolefin Compound (EVA / EMA / EEA LFH)
<b>Protective Barrier</b>	: 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.

<b>Construction</b>	: Multi Core Cables, Multi Pair Cables Unscreened or Individually Screened or Collectively Screened (Optional GI braided armoured) Limited Fire Hazard Sheathed
<b>Conductor</b>	: Circular Annealed Bare Copper conductor
<b>Insulation</b>	: EPR / HEPR as per relevant spec
<b>Screening</b>	: Annealed Tinned Copper Braid, Individually Screened or Collectively Screened as per relevant spec
<b>Outer Sheath</b>	: LFH Elastomeric Thermoset Compound
<b>Temperature Range</b>	: - 30° C to + 90° C
<b>Application</b>	: 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.

<b>Construction</b>	: Single Core, Multi Core, Multi Pair & Triad, Unscreened or Individually Screened or Collectively Screened, Limited Fire Hazardous Sheathed Cables
<b>Voltage Grade</b>	: 440 V AC
<b>Conductor</b>	: Circular Electroplated, Annealed Tinned Copper
<b>Temperature Range</b>	: - 30° C to + 105° C
<b>Insulation</b>	: Dual layer of Gp5 and LFH Material / Silicone Rubber
<b>Screening</b>	: Annealed Tinned Copper Braid
<b>Outer Sheath</b>	: LFH Elastomeric Compound
<b>Protective Barrier</b>	: 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

<b>Construction</b>	: Single Core, Multi Core, Single, Multi Pair, Multi Triad and Quad Screened & Unscreened, Armoured & Unarmoured
<b>Voltage Grade</b>	: 150 V / 250 V and 600 V / 1000 V AC
<b>Conductor</b>	: Electroplated Annealed Bare / Tinned Copper of various classes
<b>Temperature Range</b>	: -15° C to 95° C
<b>Insulation</b>	: XLPE / EPR / HEPR, HF 90 / S 95
<b>Screening</b>	: Al-Mylar Tape along with Drain Wire / ABC or ATC Braiding
<b>Inner Sheath</b>	: SHF1 / SHF2 / SH / SF
<b>Outer Sheath</b>	: SHF1 / SHF2 / SH / SF
<b>Braid Armouring</b>	: 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.

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

<b>Construction</b>	: Single Core high temperature hook-up wires & Multi Core / Multi Pair, Screened / Unscreened and Armoured / Braided Cables
<b>Voltage Grade</b>	: 250 V AC, 600 V AC & 1000 V AC (Rating as per MIL-16878, VDE, DIN, ANSI)
<b>Insulation Materials</b>	: 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<sup>o</sup> C to +120<sup>o</sup> 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

**DNV**

## CERTIFICATE OF CONFORMITY

Certificate No.: 02426  
 Certificate Issue: 09 September 2010  
 Valid Until: 09 September 2011

This is to certify that the product(s)

### Power, Control, Instrumentation & Thermocouple Cables

with name and / or logo registration(s) as detailed in page 2

manufactured by:

### THERMO CABLES LTD.

(See page 2)

11 D-44, 45, 46, 49 & 50, Phase -C, 32A, Indira Park, Hyderabad - 500 052, Telangana  
 21 Plot No. G-1, G-2 (A & B), G-9 (A&B) & G-10, Green Industrial Park, Jaddihera- 500 321, Mahabubnagar District, Telangana.

have been assessed with respect to the requirements set 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.  
 Technical Director  
 Manager - Product Assurance

National Accreditation Board for Testing and Calibration Laboratories

### CERTIFICATE OF ACCREDITATION

**THERMO CABLES LIMITED, TESTING LABORATORY**

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, A & B, GREEN INDUSTRIAL PARK, JADDIHERA, MAHABUBNAGAR, TELANGANA, INDIA

for the field of

### TESTING

Certificate Number: TC-0001  
 Issue Date: 02/09/2011  
 Valid Until: 02/09/2012

This certificate remains valid for the scope of Accreditation as specified in the annexes subject to continued satisfactory compliance to the above standard & the national requirements of NABL. (Please see the scope of accreditation of this laboratory, on-site inspection & audit records on our website)

Scope of Legal Identity: Thermo Cables Limited  
 Signed for and on behalf of NABL  
 N. Venkateswara  
 Chief Executive Officer

**Indian Register of Shipping**

Place: Mumbai  
 Date: 24 Aug 2010  
 Certificate No.: 2009PAC004

### Works Approval Certificate for Manufacturers of Electrical Cables

This is to certify that, based on the existing manufacturing facilities and capabilities of the Manufacturer and Quality Control procedures by said Manufacturer, the issue of

**M/s. Thermo Cables Limited**  
 2 D-44, 45, 46 & 49, Phase - C, 32A, Indira Park, Hyderabad-500052, India  
 G-1, G-2, G-9 (A&B) Green Industrial Park, Jaddihera-500 321, Dist: Mahabubnagar(TS, India)

is being retained in the list of approved manufacturers of electrical cables to be used on ships fitted or intended to be fitted with ISG.

Manufacturing Standards: See Annexure - 1  
 Conditions of Approval: See Annexure - 1  
 Validity: This certificate is valid until 24<sup>th</sup> August 2012  
 Assessed by: See Annexure - 2

PRINCEP HANGRAH  
 PRINCIPAL SURVEYOR

For the U.S. Condition of Use of this Certificate, please refer to the Appendix (Appendix A) to the Certificate of Approval for ISG, 2010. This certificate also complies with the ISG Code of Practice for ISG, 2010.

**UL**

## Type Approval Certificate

This is to certify that the underlisted products have been tested with satisfactory results in accordance with the relevant requirements of the Underwriter's Register "Type Approval System".

**Manufacturer: Thermo Cables Limited**

**Address:** 26, Nagdevra Hill, Porwalgaon, Hyderabad, Telangana, 500052, India

**Place of Production:** Thermo Cables Limited  
 G-1, G-2, A & B, Green Industrial Park, Jaddihera, Mahabubnagar, Telangana, 500032, India

**Place of Production:** Thermo Cables Limited  
 G-1, G-2, A & B, Green Industrial Park, Jaddihera, Mahabubnagar (TS), 500032, India

**Type:** Power Cables

**Description:** A/B/C Insulated Impregnated Cables

**Trade Name:** Refer to the Appendix for details

**Application:** Power wiring for ships and offshore installations

**Specified Standard:** Manufacturer's specification  
 BS 6881:2005, BS 6882:2005, BS 6883:2005, BS 6884:2005, BS 6885:2005, BS 6886:2005, BS 6887:2005, BS 6888:2005, BS 6889:2005, BS 6890:2005, BS 6891:2005, BS 6892:2005, BS 6893:2005, BS 6894:2005, BS 6895:2005, BS 6896:2005, BS 6897:2005, BS 6898:2005, BS 6899:2005, BS 6900:2005, BS 6901:2005, BS 6902:2005, BS 6903:2005, BS 6904:2005, BS 6905:2005, BS 6906:2005, BS 6907:2005, BS 6908:2005, BS 6909:2005, BS 6910:2005, BS 6911:2005, BS 6912:2005, BS 6913:2005, BS 6914:2005, BS 6915:2005, BS 6916:2005, BS 6917:2005, BS 6918:2005, BS 6919:2005, BS 6920:2005, BS 6921:2005, BS 6922:2005, BS 6923:2005, BS 6924:2005, BS 6925:2005, BS 6926:2005, BS 6927:2005, BS 6928:2005, BS 6929:2005, BS 6930:2005, BS 6931:2005, BS 6932:2005, BS 6933:2005, BS 6934:2005, BS 6935:2005, BS 6936:2005, BS 6937:2005, BS 6938:2005, BS 6939:2005, BS 6940:2005, BS 6941:2005, BS 6942:2005, BS 6943:2005, BS 6944:2005, BS 6945:2005, BS 6946:2005, BS 6947:2005, BS 6948:2005, BS 6949:2005, BS 6950:2005, BS 6951:2005, BS 6952:2005, BS 6953:2005, BS 6954:2005, BS 6955:2005, BS 6956:2005, BS 6957:2005, BS 6958:2005, BS 6959:2005, BS 6960:2005, BS 6961:2005, BS 6962:2005, BS 6963:2005, BS 6964:2005, BS 6965:2005, BS 6966:2005, BS 6967:2005, BS 6968:2005, BS 6969:2005, BS 6970:2005, BS 6971:2005, BS 6972:2005, BS 6973:2005, BS 6974:2005, BS 6975:2005, BS 6976:2005, BS 6977:2005, BS 6978:2005, BS 6979:2005, BS 6980:2005, BS 6981:2005, BS 6982:2005, BS 6983:2005, BS 6984:2005, BS 6985:2005, BS 6986:2005, BS 6987:2005, BS 6988:2005, BS 6989:2005, BS 6990:2005, BS 6991:2005, BS 6992:2005, BS 6993:2005, BS 6994:2005, BS 6995:2005, BS 6996:2005, BS 6997:2005, BS 6998:2005, BS 6999:2005, BS 7000:2005, BS 7001:2005, BS 7002:2005, BS 7003:2005, BS 7004:2005, BS 7005:2005, BS 7006:2005, BS 7007:2005, BS 7008:2005, BS 7009:2005, BS 7010:2005, BS 7011:2005, BS 7012:2005, BS 7013:2005, BS 7014:2005, BS 7015:2005, BS 7016:2005, BS 7017:2005, BS 7018:2005, BS 7019:2005, BS 7020:2005, BS 7021:2005, BS 7022:2005, BS 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# Major Approvals

**REGISTRATION OF FIRM AS APPROVED SUPPLIER**

**Ref No. AN/SCM/VK/2020-21/000147** Date: 24 March 2021

To: **M/S. THIRMO CABLES LIMITED, NAGARJUNA HILLS, PANJAGUTTA, HYDERABAD-500 082, KARNATAKY DISTRICT, TELANGANA STATE.**

**SUB: REGISTRATION OF FIRM**

Ref: Your letter No. 01 dated 07 January 2021.

The firm is pleased to inform that M/S. THIRMO CABLES LIMITED, HYDERABAD-500 082 is now registered with AN, SCM as an approved supplier.

Registration No.	AN/SCM/VK/2020-21/000147
Date of Registration	23 March 2021
Registration Valid up to	23 March 2024
Category of Registration	Manufacturer
Number of existing individual units/branches	1
Category of Registration	Manufacturer
Number of existing individual units/branches	1

The Director of this Lab reserves the right to cancel your registration at any time unless you comply with any of the following grounds:

- Failure to observe, while tendering, the instructions given in tender form.
- Failure to comply in response to enquiries to tender or terms of bid/contract documents.
- Failure to execute the contract/supply orders satisfactorily.
- Non-compliance with the terms and conditions of the contract/supply orders.
- Any other grounds which in the opinion of the Director render retention undesirable.

By registering your firm as an approved supplier, you are not under any obligation to accept or supply orders to any person and every firm. Suppliers will be issued tenders up to the limit of procurement value at the discretion of the Director, AN.

Please inform any change in your contact details to the Director, AN.

Please acknowledge receipt.

Yours faithfully,  
Director, AN

**Maragon Dock Shipbuilders Limited**  
(Formerly known as Maragon Dock Limited)  
(A Govt of India Undertaking)  
CIN: U33200GJ1994PLC000270  
Bhadrala Road, Mangalore, Mangalore-575015,INDIA  
Certified ISO 9001:2015 For Shipbuilding Division

Purchasing Group HR & R Dept  
Tel Number: 022-22780603  
Fax Number: 022-22780602  
E-Mail: [maragon@maragon.co.in](mailto:maragon@maragon.co.in)

To: **M/S THIRMO CABLES LIMITED**  
28, NAGARJUNA HILLS,  
PANJAGUTTA, HYDERABAD-500082  
Telangana, India  
Tel No: +91 9448 4427042  
Fax No: +91 944 2330183  
E-Mail: [info@thirmocables.com](mailto:info@thirmocables.com)

Dear Sir,

Sub: Supplier Registration

1. Please refer to your application Ref. No. 01/2021 for Registration with M/s Maragon Dock Shipbuilders Limited as supplier.

2. We are pleased to inform you that, on the basis of documents/submission furnished by you to the application form, it has been decided to register your firm as an approved Supplier with effect from date of issue of this letter for the Material groups mentioned below up to the 23.03.2024.

MATERIAL GROUP	DESCRIPTION
010000	CABLES - ELECTRICAL

3. You may approach us at least 30 days prior to expiry of the registration for renewal. You may apply for renewal online on our website. Alternatively you may download the renewal form from WEB, website and submit the complete form with Enclosures. Please note that it shall be your responsibility to obtain license/permissions for re-validation of the registration.

4. The Registration Number allotted to you is 140024. This number should be quoted on all letters correspondence with MSL.

5. You may keep visiting our website for getting against our web-portal.

6. You are required to intimate us on changes, if any, in postal address, in the constitution of working of your firm, machinery, during the currency of registration, along with supporting documents for change of address.

7. The registration is subject to review on the basis of evaluation of your performance against orders placed on you. Finally the decision of Registrar's name from the list of registered suppliers may be taken by competent authority without any liability / financial / or reference on our part in the event of address.

Yours faithfully,  
Group Director, OMS, ISRO-IG

**MEMBER REGISTERED LABORATORY**  
AN/SCM

**Ref No. 0001/2020/0001/0001** Date: 16.06.2020

To: **M/S. THIRMO CABLES LTD, N. NAGARJUNA HILLS, PANJAGUTTA, HYDERABAD-500 082**

**SUB: REGISTRATION OF FIRM AS APPROVED SUPPLIER**

Ref: Your application letter No. 001, Dated: 24.03.2020

The firm is pleased to inform that you have been registered as an approved supplier as mentioned in the List of Firms as per shown given below:

- Registration No: 140004 & Date: 16.06.2020
- Date of Validity of Registration: 16.06.2020 to 16.06.2023
- Category of Registration: Manufacturer
- Number of existing individual units/branches: 1
- Category of Registration: Manufacturer
- Number of existing individual units/branches: 1

The Director of this Lab reserves the right to cancel your registration at any time unless you comply with any of the following grounds:

- Failure to observe, while tendering, the instructions given in tender form.
- Failure to comply in response to enquiries to tender or terms of bid/contract documents.
- Failure to execute the contract/supply orders satisfactorily.
- Non-compliance with the terms and conditions of the contract/supply orders.
- Any other grounds which in the opinion of the Director render retention undesirable.

By registering your firm as an approved supplier, you are not under any obligation to accept or supply orders to any person and every firm. Suppliers will be issued tenders up to the limit of procurement value at the discretion of the Director, AN.

Please inform any change in your contact details to the Director, AN.

Please acknowledge receipt.

Yours faithfully,  
Director, AN

**HINDUSTAN SHIPYARD LTD.**

**REGISTRATION CERTIFICATE**

1. Please refer your letter of application for Registration dated 20-07-2020 with M/s. Thermo Cables Limited.

2. We are pleased to inform that **M/S. THIRMO CABLES LIMITED, 28 Nagarjuna Hills, Panjagutta, Hyderabad-500082** after verification of their capability documents is now registered with AN, SCM as an approved supplier.

The details of registration are as follows:-

Registration No.	11220
Category of Registration (M/S/Pl/other)	Manufacturer
Number of existing individual units/branches	02
Category	A
Number of units	02, 15/04/2021 (01) 25/09/2021 (01)
Validity up to	23 May 2024

3. As Registered Firm with AN, you are allowed to bid for ISRO/Tender for procurement of cable up to the limit of value up to which M/s. Thermo Cables are registered with AN. The quality for ISRO/Tender for procurement of cable up to the limit of value up to which M/s. Thermo Cables are registered with AN. The quality for ISRO/Tender for procurement of cable up to the limit of value up to which M/s. Thermo Cables are registered with AN.

4. This Registration Certificate is valid up to **23 May 2024** and issued subject to the validity of Registration Certificate of M/s. Thermo Cables Limited, Hyderabad, dated: 11.02.2021.

Yours faithfully,  
Group Director, OMS, ISRO-IG

**Government of India**  
Department of Space  
Office of the Head OMS, ISRO-IG  
LPSC Campus, 80 Feet Road  
Bangalore - 560 016, INDIA  
Tel: 080-2523 2761 / 2523 2448  
Fax: 080-2523 2762

**ISRO**

Ref: AN/SCM/HR/REG/REG/2021/000147  
Date: 12, 2021

To: **M/s Thermo Cables Ltd, 28, Nagarjuna Hills, Panjagutta, Hyderabad-500 082, Tel: 944 8423200**

Sub: Enhancement of HT & LT Cable Manufacturers - Reg.

Ref: 1. LOI No. OMS/HR/REG/2021/000147-18-DL-12/06/2021  
2. EOI, Coimbatore I.D. 19/07/2021

This is with reference to the Expression of Interest received from you in response to notification issued above. Based on the verification of materials submitted with your Expression of Interest as attached and inspection at your manufacturing unit by the Department, your firm has been entered as an approved 'LT' Cables Manufacturer with effect from 01-10-2021.

This is for your kind information and records.

Yours faithfully,  
Group Director, OMS, ISRO-IG

**ENGINEERS' INDIA LIMITED**

**REGISTRATION OF FIRM AS APPROVED SUPPLIER**

Ref: 0001/2020/0001/0001  
Date: 27 October, 2020

To: **M/s Thermo Cables Ltd, 28, Nagarjuna Hills, Panjagutta, Hyderabad-500082, Telangana**

**Sub: Registration of firm as approved supplier**

Dear Sir,

We refer to your application for registration and are pleased to inform that your firm has been registered for the items as mentioned below:

Item description	Material Group
M/S Thermo Cables Ltd	All range
Cables (High Voltage) (HT) (PVC)	Type of insulation: PVC & XLPE
Cables (Control) (Low Voltage) (LV)	Type of insulation: PVC & XLPE
Thermo Cables Ltd (Cable)	All range
Signal Cable	All range

The Director of this Lab reserves the right to cancel your registration at any time unless you comply with any of the following grounds:

- Failure to observe, while tendering, the instructions given in tender form.
- Failure to comply in response to enquiries to tender or terms of bid/contract documents.
- Failure to execute the contract/supply orders satisfactorily.
- Non-compliance with the terms and conditions of the contract/supply orders.
- Any other grounds which in the opinion of the Director render retention undesirable.

By registering your firm as an approved supplier, you are not under any obligation to accept or supply orders to any person and every firm. Suppliers will be issued tenders up to the limit of procurement value at the discretion of the Director, AN.

Please inform any change in your contact details to the Director, AN.

Please acknowledge receipt.

Yours faithfully,  
Director, AN



# Infrastructure

## Machinery

## Testing Equipment

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



## OUR CUSTOMERS



# Thermo Cables Ltd

An ISO 9001, 14001 & 45001 Certified Company

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