



Thermo Cables



Mining Cable Solutions



Global Expert In Speciality Cables Manufacturing

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

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



Major Approvals

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

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

Product Range

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

Why Us

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

Quality & Reliability

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

Standards

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

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

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

Navy & Marine Cables: EED 50-12 REV-3, EED 50-13 REV-2, DEF STAN 61-12 PART 18, DEF STAN 61-12 PART 31, DEF STAN 02-526, DEF STAN 02-527, MIL - DTL-24640C, MIL - DTL 24643C, IEC 60092 - 350, 353, 376 & 360, BS 6883, BS 7917, VG - 95218 - 60 to 66 / VG 95218 Pt-28, IS 9968 Part - I, IS 6380, EN 50525 - 2-11-12-21-22-41-42, EN 50618.

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

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

Valuable Assets

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





Marine / Shipboard Cables

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

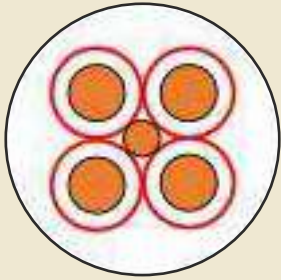
For use on onboard surface ships and crafts for power, control, lighting and communication and instrumentation circuits with or without fire survival characteristics.

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

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

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

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



Mining Trailing Cable – FT-7

Elastomer Insulated Flexible Cable for Underground Mining Equipment

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

General Specifications

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

Construction Details

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

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

Performance & Testing

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

THERMO CABLES LIMITED, TECHNICAL PARTICULARS

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

Note :

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

a) Voltage Grade i.e. 1.1 KV,

b) Year of Manufacturing,

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

d) Word "MINING" & "ELECTRIC",

e) BIS Certification Mark

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

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

ADNOC APPROVAL



Home

Work/Product Groups

Workflows

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Best Product Group

Local Workflows Group

Full Display

Default High

Rate

Attachments



Thermoseals Agency -
ADNOC

Work/Product Groups
✕

Number	Name	Status	Grade
320603	CABLES - LV POWER DISTRIBUTION	Pre-qualified	-
320613	CABLES - FIBER OPTICS	Pre-qualified	-
320618	CABLES - FOM INSTRUMENTS & CONTROL	Pre-qualified	-
320621	CABLES - FIRE RESISTANT	Pre-qualified	-
320627	CABLES FOR DOWNHOLE ELECTRIC SUBMERSIBLE PUMPS (ESP)	Pre-qualified	-

[illegible]

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

Accolades



L&T Hydrocarbon Engineering Limited
 And A Downstream Project
 L&T Knowledge City, Unit B-103
 A-7, No. 8, Hyderabad - 500 081
 Gujarat, India

Date: 30.03.2014

TO WHOM SO EVER MAY CONCERN

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

PO NO	PROJECT	CABLE TYPE	SUPPLIED QTY
PD01GFD/INST/FFCABLE/ANG-054	LGFD-POD-OMAN	Foundation Fieldbus	53.33 km
PD01GFD/INST/Instrument/MG-080	LGFD-POD-OMAN	Instrumentation & Control	137.2 km
HM01-(78000-0434)/RV/AVD MD.003	SRDC 2 POD-OMAN	Instrumentation & Control	188.0 km

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

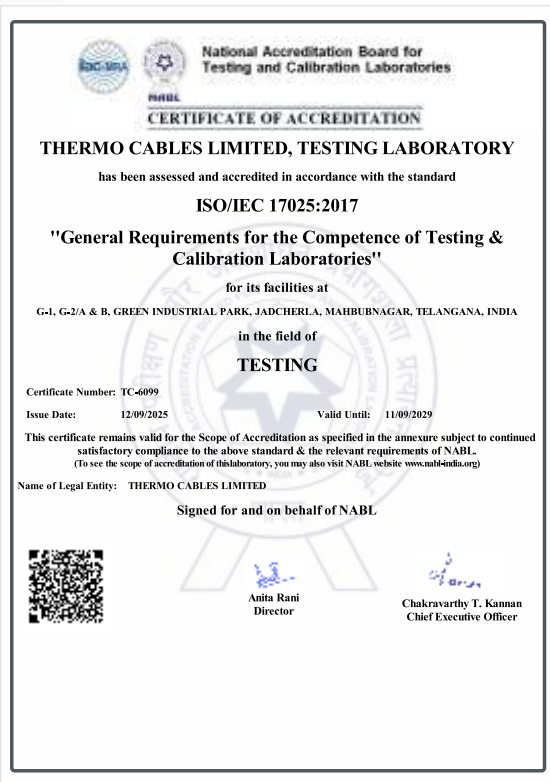
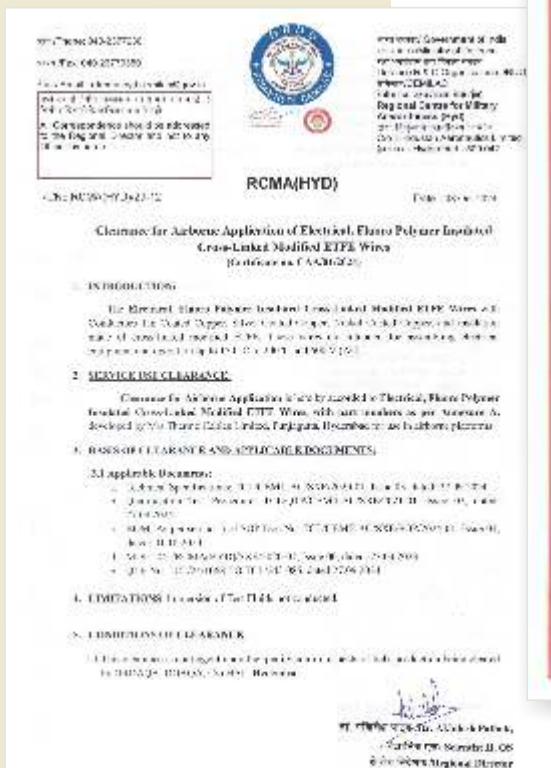
We appreciate the sincere effort and services rendered by the entire Thermo Cable Team during Execution in accomplishing the project requirements satisfactorily.

For L&T HYDROCARBON ENGINEERING LTD - OMAN BRANCH

[Signature]
 Authorized Signatory

Tel: +91 263 245 1001 / 1001 Fax: +91 263 245 1251 www.l&t.com
 Registered Office: L&T House, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 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1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 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System Certications



Infrastructure

Machinery

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



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Plant - I

D - 44, 45, 48, 49 & 50

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Plant - II

G 1, G 2 (A & B), G 9 (A & B) & G 10

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