

wIRE & CABLE INDIA

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TOP CABLE COMPANIES IN INDIA



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Oct., 2023

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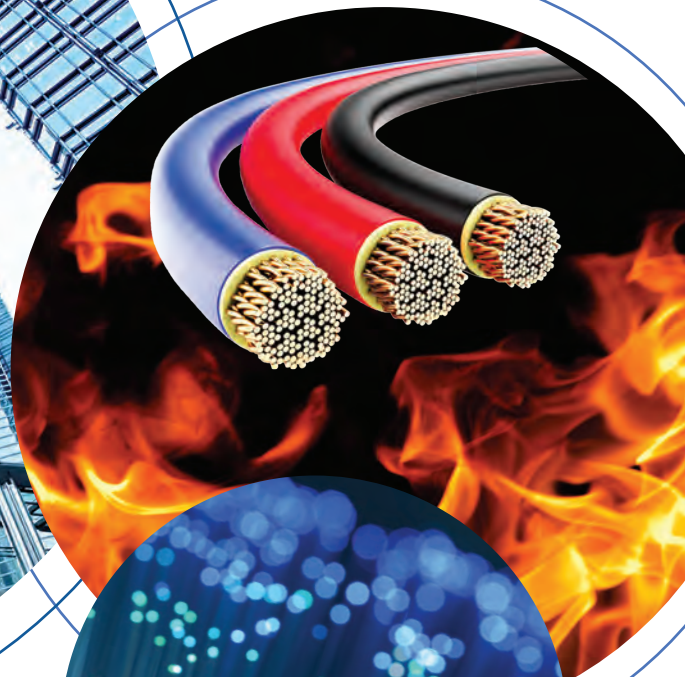
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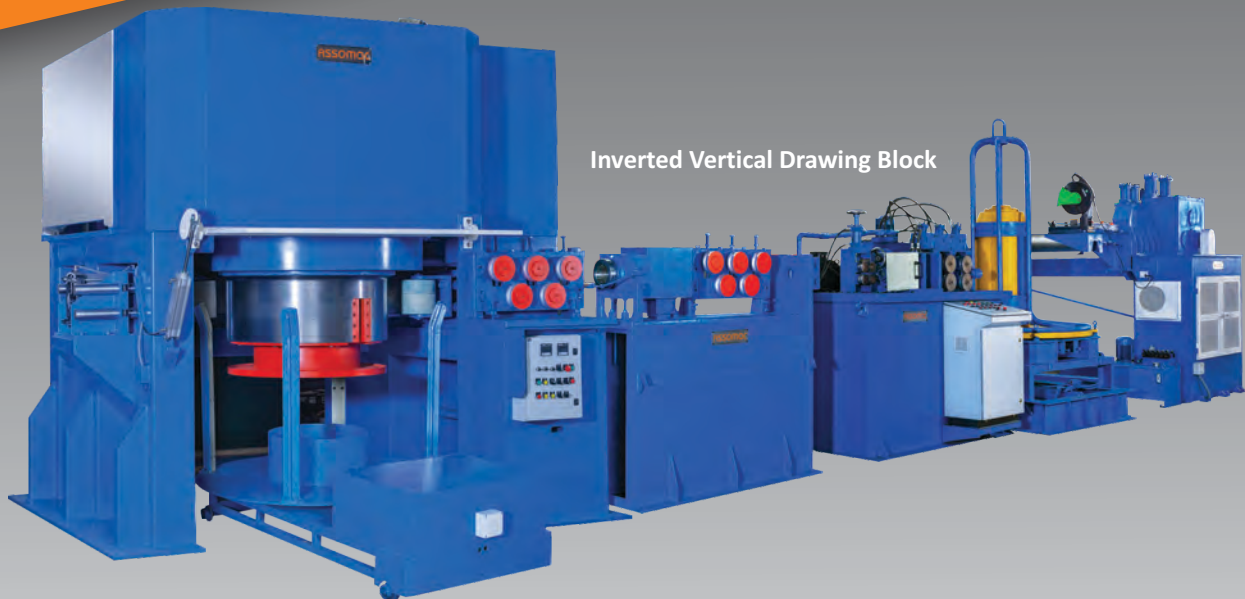


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- Inverted Drawing Blocks (IVD)
- Vertical and Horizontal Bull Blocks
- Rod Break Down Machines
- Wet Wire Drawing Machines
- Furnace-Wire Annealing, Patenting, Stress Reliving
- Tubular / Skip Stranding Machine
- Vertical Drop Coilers (VDC)
- Dead Block Coilers (DBC)
- Wire Spooling Lines - Multi / Single Wires
- Wire Flattening Mills / Shaped Wire Mills
- TIG Wire Straightening Cutting Machines with Embossing
- Welded Wire Mesh Lines For Mesh Rolls Or Mesh Panels

TURNKEY PROJECTS

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- Plants For Stainless Steel Wires
- Plants For Cold Ribbed Wires/Deformed Bars
- Plants For Tire Bead Wire (Bronzing Lines)
- Plants For Copper Coating and CO2 MIG / TIG / Saw Welding Wire

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Rigid Stranding Machines



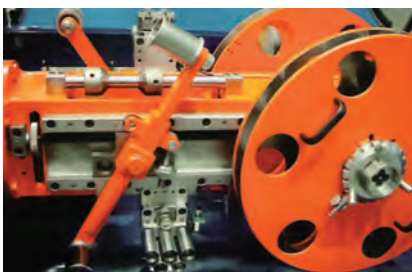
Rigid Stranding Machines



Drum Twister Machines



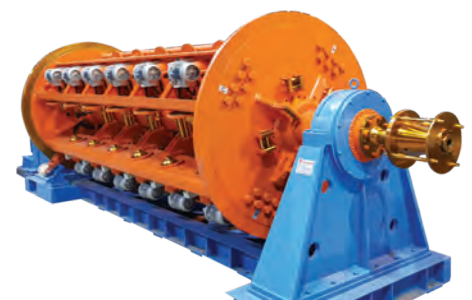
High Speed Semi Automatic
Core Rewinding Line



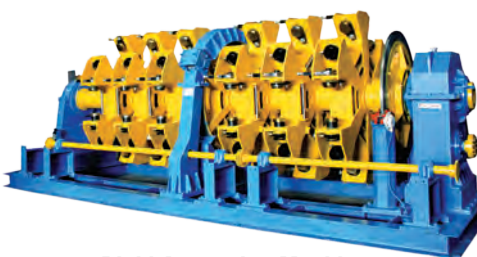
Taping Machines and Equipment



Rigid Armouring Machines



Rigid Armouring Machines



Rigid Armouring Machines



Heavy Duty Take up & Pay off stands



Rigid Armouring Machines

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WORLD CLASS EXTRUSION SYSTEMS

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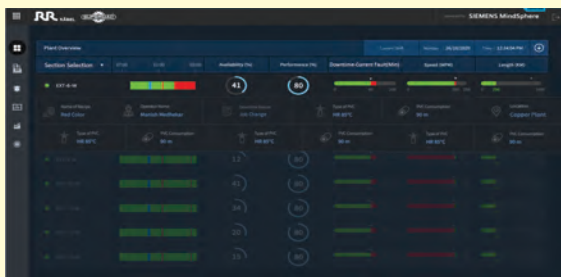
The company has three established and running units near New Delhi and we are adding another unit under our expansion program.

The state-of-the art facilities are equipped with international and indigenous machinery to carry out the process of manufacturing as per the customer's requirements.

Supermac has strategic partnership with German Company – M/S Scholz to cover CCV Lines, and Simpack USA for Coiling machines and Solutions.



High speed building wire line



IIOT Screen



Supermac CCV Line

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- Specialized Medical Tubing extrusion lines
- Proven Triple Extrusion Line for SIOPLAS (XLPE) Cables
- High speed Insulation Line and Sheathing Line for House Wiring & Control Cables and medical equipment sector.
- High output and best in class Insulation Line and Sheathing Line for Power Cables and Optical Fiber Cables..
- HCV Insulation and Sheathing Line
- Hybrid and Composite CCV Lines for both XLPE and Rubber.
- Rubber Extruders for Insulation and sheathing Materials.
- Silicone Extrusion Lines with Infrared Vulcanization System.
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- FTTH drop cable lines
- Fluoropolymer – FEP, PTFE/ETFE Lines
- Loose tube/Secondary coating lines for fiber optics
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- Capstan
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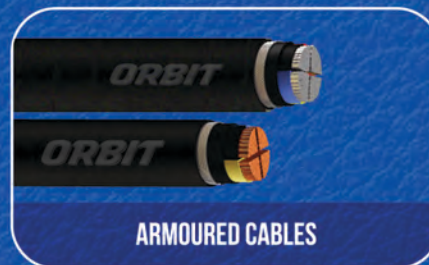
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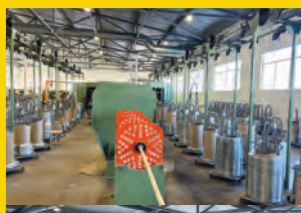
NEW

UNIFIED CONCEPT IN CABLE PRODUCTION TECHNOLOGY!

PRATECH experience inspiring manufacturer with unified concept. The innovative twisting systems which feature the combination of modular and multi purpose production lines has resulted in its high acceptance all over the globe from the USA to Germany, from Russia to India, due to performance capabilities.

A REASON FOR INTELLIGENT INVESTMENT

With the extraordinary line design and quality production, Pratech lines provide incomparable savings in space, time and production costs making investment worthy. Unified concept seeks to build flexible, versatile, and comprehensive step-by-step investment. The wide product and cross-section range, speeds, gives a competitive edge and many other benefits with distinctive advantage to producer.



THE UNIFIED
CONCEPT
IN SINGLE TWIST
STRANDER LINE OF
PRATECH.

MODULAR SYSTEM

- ✓ Tested
- ✓ Proven
- ✓ Approved

ALL IN ONE

ALMOST A
STANDALONE
PLANT

ADVANTAGE OF INTEGRATION WITH EXISTING LINES

UNIFIED CONCEPT, which is built with the combinations of SINGLE & SINGLE STRANDER and SINGLE & DOUBLE STRANDER, manages to be a point of attraction with its feature that it can be integrated individually or separately into existing lines in production with its modular capability.

Working with a world brand name in high-tech cable production investment..

Genetic Science in Cable Stranding DNA of PRATECH



WIDE PRODUCT SCALE & PRODUCTION LINES.

PRATECH manufactures highly efficient cable production lines that perform stranding, armoring, taping, and insulating operations for signal cables, energy cables, from the lowest cross-section to the highest cross-section cable. Pratech is the reliable and stable source of destination for the most efficient and stable lines.

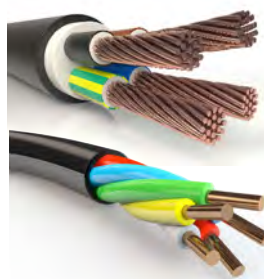
EMPHASIS ON MAXIMUM PRODUCTION EFFICIENCY.

PRATECH creates distinctive operations due to its outstanding production performances with its special solutions for every production line.

The Scope of Solutions of PRATECH

- Investment Consulting,
- Feasibility Reports,
- Establishment of Production Plants,
- Cable Production Systems,
- Special Engineering Solutions,
- Production Consultancy / Know-how,
- Capacity Enhancement Support,
- Commissioning,
- After Sales Support.

Top-Grade Results in Cable Production



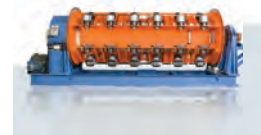
- Equipment compatible with production lines
- Higher and Reliable Production Speeds
- Patent Developments leading to lower production costs.



SINGLE & DOUBLE TWIST STRANDER



SINGLE TWIST STRANDER



RIGID STRANDER



BOW STRANDER



DRUM TWISTER



PLANETARY STRANDER



ROTATING CATERPILLAR



REWINDING



EXTRUDER



CONCENTRIC TAPING

Indian Representative: Systematik
E-mail ID: rn@tradexworldwide.in,
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CABLE PRODUCTION TECHNOLOGY

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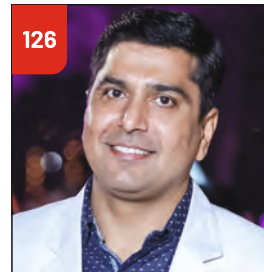
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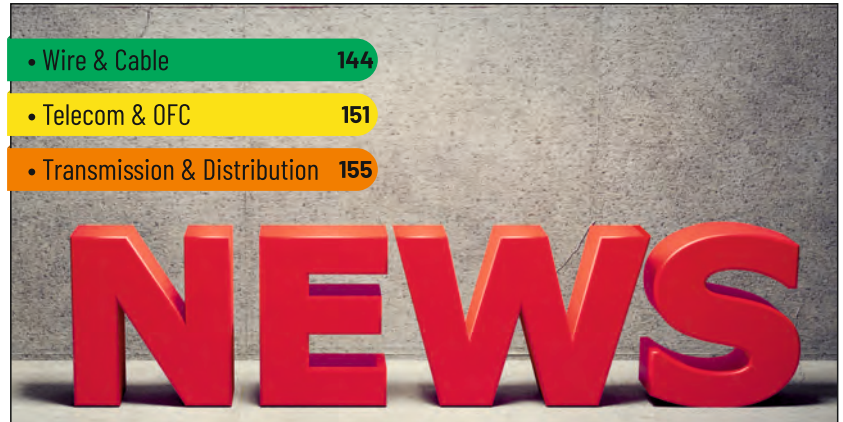
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TOP CABLE COMPANIES IN INDIA

A special issue containing information on India's leading wire and cable companies! For the purpose of presenting the business topography of the industry, Wire & Cable India magazine came up with its sixth edition of Top Cable Companies. Started in 2012, this year's 'Top Cable Companies 2022' list identifies the true leaders in the sector which are aiming to enhance their presence while demonstrating a gleaming growth potential. We present a structured analysis emphasising the key parameters of the listed companies apposite to their growth.

In the wire & cable industry, there have been manifold transformations, creating newer growth opportunities which are also driving the growth in other related sectors such as – telecom, power transmission & distribution, and so on.

Wires and cables, which are used everywhere, are regarded as the arteries of electrical systems. They are used for a wide range of purposes such as electricity, telecommunication, transmission & distribution networks, powering electronic devices, in addition to other industrial applications. Today, a wide variety of industries including the

defence, medical, telecom, networking, and power, are able to apply and use industry-specific wires and cables for their specific purposes.

Perhaps, the previous two to three decades have been the fastest-growing years in terms of infrastructure, which defines the growth in the wire & cable industry. Notably, the advancement in transmission & distribution and the demand from data centres and the telecom sector are some of the predominant factors which are expected to drive the further growth of the wire & cable sector.

Cable Fable: Growth Story of the Indian Market

We are entering into a new era of growing transport infrastructure with the PM GatiShakti National Master Plan (PMGS-NMP), which was launched in October 2021, and is aimed at strengthening the multimodal connectivity infrastructure to various economic zones. The PM GatiShakti is a transformative approach, being driven by 7 engines, namely, railways, roads, ports, waterways,

airports, mass transport, and logistics infrastructure. This vision will further scale up the growth in infrastructure and will further push the growth rate exponentially in the wire and cable sector in a big way.

Since the government is infusing significant investments in the expansion of power grid infrastructure, including smart grids and T&D network expansion, modernisation of the grid further augurs well for the sector. Also, there have been a growing number of underground cabling projects all around the country due to the sheer dearth of open spaces as well as the expansion of the metro railway which creates the demand for EHV & HV underground cables.

Going ahead, in our journey of becoming globally competent, it is imperative that we start talking about sustainable operations, and integrate newer technologies into our manufacturing systems. The future growth story in the sector would be foregrounded by new product launches, strong demand for optic fibre networks, and the ongoing expansion of the power grid & distribution network.

Capitalising Growth Opportunities

All these interesting developments present huge opportunities for the wire and cable sector in India. The cable companies are increasingly aligning themselves to the international quality and technology benchmark to produce wires and cables satisfying both domestic and global customers. Besides developing new technologies and bringing out product innovations, the companies are also planning expansion either organically or inorganically.

One of the largest manufacturers in the wires and cables industry in India, Polycab India Ltd. launched Etira wires for the economy segment and relaunched Polycab Green Wire with the benefit of 5-in-1 GreenShield Technology. Meanwhile, APAR Industries has also developed specialised OFC cables, tether cables, tactical cables, submarine pressure tight cables, and torpedo cables, for defence and shipyards. Sterlite Power Transmission Ltd. has developed new Lead Sheath EHV Cables, Fibre integrated Power Cables (FIPC), Co Extruded Duct Cables (CCD), and Low Loss Cables (HAC).

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The Indian Railways has an ambitious plan to electrify its entire network by 2023-24 which again paves way for the industry. KEC International established railway cables and conductors manufacturing unit at Vadodara, for a suite of products to cater to electrification of Indian Railways, in line with the modernisation and High-Speed Rail programs of the government.

BharatNet, which is the world's largest rural broadband project, was launched to provide broadband connectivity to all the 2.5 lakh gram panchayats across India. Through this vision, large-scale laying of optical fibre cables is being implemented to ensure last-mile connectivity across the nation. HFCL is one of the few companies in India that has completed the deployment of 7,843 km of OFC Network in Punjab and 7,733 km in Jharkhand for the BharatNet Phase II project and played a significant role in bringing broadband connectivity to 3,200 villages in Punjab and 1,789 villages in Jharkhand.

Driven by the ongoing telecom and 5G expansions, the telecom cable manufacturers are well positioned with their 5G-centric products and its optical fibre cables business. As per a report by Ventura Research, 5G rollout & continuing 4G expansion in remote areas, FTTH penetration, and BharatNet are expected to bring a growth opportunity worth INR 3 lakh crore in the OFC space. Owing to such developments, Birla Cable launched various types of Fibre-To-The Home (FTTH) cables and micro-optical fibre cables.

The country aims to achieve 175GW of renewable energy capacity by 2022, comprising 100GW of solar, 60GW of wind, 10GW of biomass power, and 5GW of small hydropower and this ambitious target can never be completed without the contribution of the wire & cable industry. Finolex Cables commenced construction of a plant for the manufacture of solar cables in Pune which will serve the renewable energy sector as well as the construction and automobile sectors.

The wire & cable industry sees tremendous opportunities and making all the right moves. KEI Industries is in the process of expanding the capacity for LT, HT, and EHV cables with an investment of around INR 800 crore, which will be made in Greenfield projects over four to five years. Besides catering to the domestic market, cable companies are also eyeing global expansion. In the recent past, STL acquired two companies in Italy namely Metallurgica Bresciana to expand the OFC manufacturing footprint in Europe and Optotec to widen their optical interconnect portfolio globally. An ambitious joint venture of Ram Ratna Group and Imperial Group, RR-Imperial Electricals

Ltd. is engaged in the manufacturing of enamelled copper wire and PVC insulated wire etc. and aims to be a leader on the horizon of Bangladesh's hugely potential electrical industry.

Competent Players in the Wire & Cable Sector

Wire & Cable India's Top Cable Companies in India, a biennial survey of wire and cable companies of India, is presented with a comprehensive report based on various key parameters. The sixth in the series is a detailed list of India's prominent wire and cable companies, as decided by **production, financials – turnover, net profit, growth rate** (in both turnover and net profit) & **net worth**. A composite score is calculated based on these five metrics equally, as one metric alone would present an inaccurate assessment. Further, the said parameters are the basis of our ranking calculation as these are objective and quantitative in nature. This year's report, the sixth edition – Top Cable Companies 2022 – by Wire & Cable India, examines the scale of the country's largest manufacturers in the sector.

The leading names are identified on the basis of the key metrics – which are focussed on sustaining and increasing their top & bottomline growth and have grown their businesses significantly with a forward-looking approach.

Disclaimer:

The data has been compiled either on the basis of inputs directly given by the companies or from the annual report that was available on the public domain. Wire & Cable India, at its best possible approach, attempted to accumulate data from the companies; however, some of the companies could not be included in the 'Top Cable Companies in India 2022 Special Feature' due to unavailability of information. Even if the Company takes every precaution to ensure that calculations and the content are both current and accurate; errors can occur. The financials are given in mn, i.e. million (10 million = 1 crore). Wire & Cable India takes no responsibility for any errors or omissions, or for the results obtained from the use of this information.

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HIGHER
INSULATION
RESISTANCE

MORE THAN
101%
CONDUCTIVITY

100%
ELECTROLYTIC
COPPER

Polycab India Limited

Connection Zindagi Ka



Year of establishment : 1968

Headquarter/Branch locations:

Headquarter : Mumbai, Maharashtra
Branches : 4 regional and 11 local offices across the country

Number of manufacturing facilities and locations:

23 manufacturing facilities spread over four locations across Gujarat, Maharashtra, Uttarakhand and Daman.

Wire and cables are manufactured in Halol, Gujarat and Daman.

Number of employees:

4,431 on roll & 7,337 on contract

Production capacity (Product wise):

2021-22

5.2 million kms of cables and wires

2020-21

4.1 million kms of cables and wires

Product portfolio and applications:

Wires: House wires, Green wires – HR-FR-LSH-LH, Industrial flexible wires, Speaker wires.

Cables: EHV cables, Fire survival cables, Optical Fibre Cables (OFC), Jelly filled telephone cables, High voltage cables, LAN cables, Power and control cables, Instrumentation cables, Co-axial cables, and Thermoplastic High Heat Resistant Nylon coated cable.

Diverse customer base across a wide range of industries including Chemicals, Energy, Metals, Technology, Consumer Durables, Oil & Gas, Telecom, Defence, Manufacturing, Real estate etc.

Financials:

Turnover : 2021-22: INR 122,038 mn
2020-21: INR 89,265 mn

Turnover for Cables : 2021-22: INR 106,953 mn
2020-21: INR 72,921 mn

Growth Rate (turnover) : 39%

Profit (EBITDA) : 2021-22: INR 12,626 mn
2020-21: INR 11,668 mn

Growth Rate (EBITDA) : 14%

Net Worth : INR 55,438 mn

Market

Capitalization : INR 353 bn

CSR activities undertaken:

- CSR expenditure was INR 192 mn spread over various activities.
- Education:
 - Development of academic institutions, which include renovating or building schools, development of Anganwadis, science and computer laboratories among others to ensure that India's children and youth are capable and empowered.
 - The Leadership Enrichment for Adolescence through Assessment & Development (LEAAD) program was organised to help build leadership qualities among students.
 - Contributed in the setting up of solar panels, computer, maths and science laboratories to cater to the educational needs of tribal boys.
- Women Empowerment: A three-year certification course in self-defence to train women in physical and mental preparedness. Also, the Company organised skill training courses such as beauty course and sewing classes.

Maillefer invites you to join us at Wire India 2022 in Mumbai 23rd - 25th November 2022



Come and see how we
connect the digital and
physical production worlds
in booth #F141



MAILLEFER

- Environmental preservation:
 - Preserving the environment around the areas of operation.
 - Good quality seedlings were distributed in 21 villages to help residents create their own gardens to source nutritious food. Around 6000 trees were planted.
 - Company's Environmental expenditure to preserve nature is INR 136 mn
 - Installed 14.20 MW renewable energy,
 - Reduced 15000 tonnes CO2 footprint,
 - More than 67 mn litres water recycled/reused
- Water and Sanitation: Construction of toilets and provided clean drinking water in Gadhmahuda, Chachariya and Govindpuri villages in Gujarat. Constructed four new check dams and renovated four in Rayankhand, Vavdi village in and Pandol village in Gujarat.
- Healthcare:
 - Mobile Medical Unit (MMUs) offer services such outdoor consultation, medicine supply, health counselling, and so on.
 - More than 8000 women have benefited from health camps focused on promoting breast cancer awareness. Special health camps for physically challenged people.
 - Support provided to Dr. Hedgewar Hospital, Aurangabad in setting up two General Wards of 25 beds each and mammography machine in the Radiology department.
 - Partnered with the Rotary Club, Calicut East, to jointly provide medical equipment to the newly opened paediatric ICU ward of the Government Hospital at Beach Road, Calicut.
 - Created a Blood Bank with Shree Halol Arogya Mandal.
- Rural development:
 - Held a session to create awareness on best farming practices, crop planning and care, mushroom farming, post-harvest management, product sales and marketing.
 - To facilitate villagers' access to various government schemes that have been instituted for their welfare.

New developments since 2021:

- Heavy Duty & Light Duty Cables verticals merged to unlock significant value.
- Created a focused vertical to penetrate emerging clusters in both semi-urban and rural India.
- Built presence in alternate channels such as e-commerce, modern trade, etc.
- Forayed into new several new geographies globally.

Product/brand launches since 2021:

- Etira wires for the economy segment.
- Relaunched Polycab Green Wire with a new product proposition which highlights the benefit of 5in1 GreenShield Technology.
- Super-Efficient ceiling fan in various wattages i.e 28W, 32W & 35W with BLDC technology

Market served (domestic/exports in %) and countries served:

Exports to 60+ countries

No. of EPC contracts undertaken/ongoing with respective locations:

The other segment, which largely represents the Company's EPC business and subsidiaries, clocked INR 2,943 mn in revenue, growing by 20 percent YoY with construction activities picking pace.

Market footprint:

- Dealers/Distributors: 4,600+
- Retail Outlets: 205,000+
- 22-24 percent share in the organised wires and cable market.

Future targets:

- With a clear goal of surpassing INR 200 billion in sales by FY26, Polycab is now focusing on diversification-led growth and enhancing brand recall across product categories.
- The Company aims to increase its direct presence in lower tier towns as well as new countries globally, while providing a diverse range of world-class products to its channel partners, enabling them to achieve long-term sustainable growth.
- Customer-centricity, digitalisation, and a sharper focus on environment, sustainability and governance aspects will continue to drive strategic decisions over the long term.

Details of joint ventures or details of the joint venture you are planning to set up with a firm in the near future:

The Group entered into agreement with Renuka Investments and Finance Limited (a wholly-owned subsidiary of Hindalco Industries Limited) for divesting 100 percent stake of Ryker Base Private Limited at a consideration of INR 1,778.92 mn.

Source: Annual Report

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KEI Industries Limited

The Power Behind the Power



Year of establishment : 1968

Headquarter/Branch locations:

Headquarter : New Delhi
Branches : 36 Offices

Number of manufacturing facilities and locations:

5 Units
Unit 1 : Bhiwadi, Rajasthan
Unit 2 : Rakholi, Silvassa (Dadra & Nagar Haveli and Daman and Diu)
Unit 3 : Pathredi, Alwar, Rajasthan
Unit 4 : Chopanki, Alwar, Rajasthan
Unit 5 : Chinchpada, Silvassa, (Dadra & Nagar Haveli and Daman and Diu)

Number of employees:

5478 (on Roll, off Roll, & Contractual/Temporary)

Production capacity (Product wise):

2021-22

EHV Cables: 900 Kms
HT Cables: 10,400 Kms
LT Power, control, instrumentation, rubber, communication & other cables: 1,42,700 Kms
Winding, Flexibles & House Wires: 13,32,000 Kms
Stainless Steel Wires: 9,000 MT

2020-21

EHV Cables: 900 Kms
HT Cables: 11,100 Kms
LT Power and other cables: 116,600 Kms
Winding, Flexibles & House Wires: 11,17,000 Kms
Stainless Steel Wires: 7,200 MT

Actual production in the last 2 years (Product wise):

2021-22: The Company's capacity utilization for Cables, Housing/Winding wires and Stainless Steel wires stood at 76%, 59%, and 84% respectively.

2020-21: The Company's capacity utilization for Cables, Housing/Winding wires and Stainless Steel wires stood at 59%, 61%, and 85% respectively as against 76%, 68%, and 91% respectively in 2019-20.

Product portfolio and applications:

EHV Cables (up to 400 kV), HT Cables, LT Cables, Control Cables, Instrumentation Cables, Marine & Offshore Cables, Solar Cables, Stainless Steel Wires, Winding Wires, House Wires, Single Core/Multi Core Flexible Cables, Rubber Cables, Fire Survival/Resistant Cables, Communication Cables, and Thermocouple Cables.

Financials:

Turnover : 2021-22: INR 57,265.51 mn
2020-21: INR 41,814.88 mn

Growth Rate (turnover) : 36.95%

Turnover for Cables & Wires : 2021-22: INR 51,226.84 mn
2020-21: INR 35,742.11 mn

Turnover for Stainless Steel Wire Products : 2021-22: INR 2,259.37 mn
2020-21: INR 1,416.53 mn

Profit (EBITDA) : 2021-22: INR 6,040 mn
2020-21: INR 4,760 mn

Growth Rate (EBITDA) : 27%

Net Worth : INR 21,353.20 mn

CSR activities undertaken:

- Women and Child Welfare: The "VatsalyaGram" program, in collaboration with welfare organization Param Shakti Peeth. It is being undertaken in a 52-acre campus in Vrindavan (Uttar Pradesh).
- Education: The Company extended support to 'The Kalptaru Society'. This enabled children from the underprivileged background in Uttar Pradesh to continue their education. Also, the Company partnered with Bharat Lok Shiksha

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Parishad to support schools (Ekal Vidyalaya) in 227 villages in Garhwal region of Uttarakhand.

- **Hunger and Poverty Eradication:** Partnered with SOS Children's Villages of India to implement the Family Strengthening program. Under this, support was extended to 258 marginalised and disadvantaged children belonging to the most vulnerable families of Girdharipura and Mundiya Ramsar, Rajasthan. Around 6,25,000 meals were supported by KEI during the year under 'Food for Life' program of ISKCON, Dwarka, New Delhi.
- **Healthcare:** Supported the construction of a 500-bed pediatric hospital under the Tirumala Tirupati Devasthanam project in Chittoor, Andhra Pradesh.
- The company participated in Mahakumbh 2021, held at Haridwar, Uttar Pradesh. The objective was to facilitate the pilgrimage and also support the state government in clean and green Kumbh. We also connected responsibly with over 9.1 million pilgrims.

New developments since 2021:

- Added 25,400 kms to cables, 2,15,000 kms to House Wires/Winding Wire and 1,800 MT to Stainless Steel Wire manufacturing capacity during FY 2021-22.
- Expansion of Flexible and House wire in Silvassa.
- Winding wire division has been shifted at new location in HT plant to add the production capacity from 150 MT CU consumption/month to 225 MT CU consumption/month by adding 08 nos. of tapping machine and one annealing furnace.
- XLPE Compounding plant (Buss-make) was installed for LT-XLPE grade insulated compound.
- X-RAY 8000 NXT & LASER 2030 XY with ECOCONTROL 1000 of SIKORA make installed on rubber CCV lines to improve the quality of product, optimize the materials consumption & reduce the scrape.
- Niehoff make 08 wire – Multi wire drawing machine has been added in Pathredi plant to enhance the cu wire drawing capacity for control/instrumentation cable.
- New high-speed 19 wire double twist stranding machine from Setic was installed & commissioned successfully in Pathredi plant to enhance the capacity of conductors.
- Added 32 Wires multi wire drawing machine in Chinchpada with additional bunches.
- Installed new machines for AB & LT cables in Chinchpada plant. So, the Company can now

also make AB & LT cables in the Chinchpada plant also.

- On line taping & sintering machine of 6 heads installed in Bhiwadi plant to enhance the capacity of poly winding wires (WW).
- To enhance the production capacity 100 MT/Month of SS wire, 10 nos. of Wet wire drawing machines) and 02 Multi dry block machines have been added in SS wire division Bhiwadi.

Product/brand launches since 2021:

- **Special Cable Development**
 - LT Coaxial Cable 3.5C240 SQMM.
 - Light Reflective Rubber Cable 3CX300+2CX150+1CX50.
 - Rubber Cable 3CX35+3CX10 (33kV).
 - EHV 400kV, 1C x 2500 Sq.mm Enameled copper cable.
 - Non Magnetic Double SS Tape 220kV 1C x 2000 Sq.mm cable.
 - Stainless Steel Tape corrugation & Double Brass Tape 132kV 1C x630 SQMM.
 - 3CX300 SQMM 66KV(E) along with optical fiber.
 - 1Cx630 SQMM 110kV with optical fibre in Metal tube.
- Flexible aluminium cables, aluminium FS cables, fire rated cables, ceramified silicone FS wires, cables suitable for -60°C, and solar cables.
- Rubber compounds: Developed and modified compounds chemically as per European Standards for special applications as per Indian market's requirements.
- Introduced embedded OFC for EHV cables as well as FRLS jacket for EHV cables.
- Developed FR HDPE jacketed cables.
- Developed Non Magnetic Stainless Steel corrugated sheath.
- For the South African market, developed Bi-Color jacketed MV Cables.
- Developed Round Compact 1200sq.mm Aluminum- Conductor.
- Individual sheathed Triplex Cable for Australian market developed.
- Developed and manufactured 400 kv Cables.
- Nano dies introduced for Round Compact Conductor.
- New Packing developed, which is cost effective & replacing wood as packing material.

Market served (domestic/exports in %) and countries served:

In FY22, exports amounted to 10% off total sales. Exports made to 50+ countries across the world;

including subsidiary in Australia and associate in South Africa, overseas marketing/project offices in Dubai, Gambia, and Nepal.

No. of EPC contracts undertaken/ongoing with respective locations:

The EPC sales stood at 7% of the overall sales. EPC Projects Segment (excluding cables) contributed a turnover of INR 3780 million as compared to INR 4660 million in FY 2020-21.

Market footprint:

- Dealers/Distributors: 1800+
- 22 depots and 36 Marketing Offices across India

Future targets:

- The future goal is to achieve 50% of revenue from the retail segment in the next 2-3 years by growing it at 30-35% per annum. In line with this objective, the Company is strengthening the business enablers including mapping retailers, expansion of distribution network, and enhancing the brand connect.
- Strategic investments are being made to capture

the unfolding opportunities. The Company is in the process of expanding the capacity for LT, HT, and EHV cables with an investment of around INR 800 crore, which will be made in Greenfield projects over four to five years.

- The Company seeks to enter the FMEG sector once their retail segment reaches about 50% of the total sales.
- In parallel, debottlenecking projects and efficiency improvements are continuous focus areas. Meanwhile, sufficient capacity exists to meet the increased demand for products in FY2022-23 and 2023-24.
- Focus on growing distribution network to strengthen KEI's pan India presence as well as enhance the international presence.

Details of joint ventures or details of the joint venture you are planning to set up with a firm in the near future:

Technological collaboration with Switzerland-based Brugg Kabel AG

Source: Annual Report

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Sterlite Technologies Limited

Beyond Tomorrow



Year of establishment : 1988

Headquarter/Branch locations:

Headquarter : Pune, Maharashtra
Overseas Offices : Australia, Belgium, Brazil, China, Columbia, France, Germany, Italy, Ivory Coast, Malaysia, Netherlands, Philippines, Russia, SEA, South Africa, Singapore, Spain, Sweden, UAE, UK, USA

Number of manufacturing facilities and locations:

8 Plant Locations
Optical Fiber : 2 in Aurangabad, Maharashtra
1 in China
Fiber Optic Cables, OPGW Cables Optical Interconnect : 1 in Silvassa, India
2 in Italy
1 in Brazil
Copper Telecom Cables & Structured Data Cables and Optical Interconnect : 1 in Dadra, India

Number of employees:

3000+

Production capacity (Product wise):

Optical Fiber : 50 million fkm
Optical Fiber Cables : 34 million fkm

Product portfolio and applications:

Optical fibre, Fiber optic Cables, OPGW Cables Optical Interconnect, Copper Telecom Cables & Structured Data Cables and Optical Interconnect

Financials:

Turnover : 2021-22: INR 57,540 mn
2020-21: INR 48,250 mn
Growth Rate (turnover) : 19%

Profit (EBITDA) : 2021-22: INR 5,940 mn
2020-21: INR 8,540 mn

Growth Rate (EBITDA) : (-) 30%

CSR activities undertaken:

- Promoting Gender Equality in Rural Maharashtra: Through the 'Jeewan Jyoti programme', STL has helped 800+ women in becoming financially independent by providing them with vocational skilling, leadership training, management, and micro-financing linkages as well as access to self-help groups. Over the years, the programme has been providing women across 100+ villages in Velhe, Bhor, and Haveli districts with a holistic system, which supports transportation facilities and a crèche that has enabled them to lead the change they want to see. Around 5000+ lives are benefitted and INR 1.2 crore has been disbursed through micro-financial linkages.
- Tech-led Education: During the pandemic, the digital empowerment initiative in Pune ensured that internet platforms were fully utilised to access essential learning opportunities, and even equip individuals with livelihood opportunities. Across Aurangabad, Nandurbar, and Silvassa, the Company's digital equaliser and improved learning programme ensured that children from rural areas and marginalised communities do not fall out of the education system. Community classes in a safe environment were held for students that did not have digital devices. In regions like Nandurbar, learning resource centres, and door-to-door awareness sessions have enabled the inclusion of toddlers and children into the education system. 2100+ teachers were also trained on how to leverage digital learning techniques. STEM learning and digital content in vernacular mediums further helped ensure equitable learning opportunities for children. About 110,000+ lives were benefitted and 200+ villages were covered across three districts. Thus, 1100+ individuals were digitally empowered.
- Ensuring Last-Mile Access to Quality Healthcare: Throughout the pandemic, the Company continued to offer quality healthcare facilities and oxygen supply to rural areas and hospitals, respectively. In addition, they also realigned on-going programmes to offer COVID-



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- **BS 7211** electric cables having low emission of smoke and corrosive gases when affected by fire.
- **BS 6231** Single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring.
- **IEC 60227** Series PVC Insulated Cables
- **IEC 60245** Series Rubber Insulated Cables and many more



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19-related treatments, teleconsultations, doorstep testing, vaccinations as well as anytime, anywhere access to a doctor through 24/7 teleconsultation services. This hybrid healthcare model helped promote teleconsultations in remote rural areas. Specialised camps were organised on cardio-metabolic disorders, eye care, nutrition, women's health, rapid testing, and much more. As an outcome, 230,000+ lives were impacted through hybrid healthcare interventions and 1200+ villages were covered across five districts. Also, 900,000+ lives were benefitted through COVID-19 interventions and 30,000+ teleconsultations were done.

- **Climate Action:** Through convergence with the Government of Maharashtra, a holistic water programme has been designed that not only ensures surface and groundwater replenishment and rainwater harvesting but also educates the masses on the judicious use of water. To ensure sustainability, women-led self-help groups are formed and trained to maintain the structures built and redeveloped. Through funding from the government, sustainable agricultural practices like micro-irrigation are being promoted to avoid flood irrigation and provide residents with access to clean drinking water. Thus, 1.4+ million cu m of water was replenished, 1,01,000+ lives were benefitted, and 5,200+ households were provided with access to clean drinking water. Also, 85 water storage structures were built and redeveloped, 169,000 plantations were done, and 79 hectares of land was brought under micro-irrigation.

New developments since 2021:

- In the optical networking business, STL acquired two companies in Italy namely Metallurgica Bresciana to expand the OFC manufacturing footprint in Europe and Optotec to widen their optical interconnect portfolio globally. In addition, the Company invested in expanding installed OF capacity to about 50 million fkm and OFC capacity to 34 million fkm.
- The company reached more than 20% market share in Europe and took the attach rate from 3% to 11% for Optical Interconnect business.
- In the global services business, the Company acquired IDS to offer network services for data centres across Europe and Clearcomm to enable fibre roll-out in the UK. As a result of these moves, the company closed the year with an open order book of INR 1,000 crores in the region with several leading telcos and Altnets aligning with the vision.
- The company got multi-million dollar orders for optical fibre cables in the North American market and became a partner in RDOF to bring gigabit

broadband services to 18 US states besides creating ripples in the Latin American market.

- The efforts towards R&D grew at tremendous scale in FY22 with patent portfolio (filed + granted) going up to 733. The company also earned their first 5G deployment patent granted in the U.S.
- To further the R&D capabilities, established one-of-a-kind Centre of Excellence and innovation centre for 5G in India. This 5G innovation lab will provide the required resources to enable the testing and optimisation of 5G products in a real 5G radio environment.
- In the Software and Access solutions business, the Company invested in Elitecore within network software and ASOCS in the field of CU and DU in RAN systems. These strategic investments enhanced the ability to target a higher wallet share of the investments made by existing customers as well as add new ones. Going forward, the Company has identified major strategic levers to propel the F growth. These levers would be backed by prudent capital management and strong global leadership for each of the business units.
- The Company announced partnership with Netomnia, a wholesale fibre network operator in the UK to support their plans to deploy ultrafast full-fibre broadband in multiple cities by 2023.
- STL partnered with Facebook Connectivity to design and develop 4G and 5G radio products and successfully completed a proof-of-concept (PoC) with Chunghwa Telecom.
- Company's people practices earned it the Great Place to Work certification for the third year in a row and it was also voted the Best Organization for Women by The Economic Times.
- The year brought great glory as it completed two major projects of national importance – Mahanet and Navy Communications Network.
- Entered multi-year supply contracts for fibre optic cables and optical interconnect products with two of the leading Tier-1 telcos and became a partner for a large-scale, inter-capital fibre network build project in Western Australia.

Product/brand launches since 2021:

- The cornerstone was the launch of Accellus, flagship solution for 5G-ready, open and programmable networks. The year was foundational for the business as multiple products under Accellus Solution became market ready.
- Announced the general availability of our indoor small cells - Garuda, programmable FTTX (pFTTx), and WiFi6 access point.
- Also launched a series of macro radios called Firebird and did the Minimum Viable Product

SPECIAL FEATURE

(MVP) release for RAN Intelligent Controller (RIC).

Market served (domestic/exports in %) and countries served:

- Supplying 34 million fkm across five continents and 60+ countries.
- The bygone financial year saw close to 50% of annual revenue coming from focus markets of North America and Europe – a clear indicator of our global success.
- Brought gigabit broadband services to 18 US states besides creating ripples in the Latin American market.
- Gained significant market share (20%+) in Europe

Market footprint:

Presence in over 100 countries

Future targets:

- The Company intends to capitalise and continue to focus on expanding the market share in the

global optical fibre cable market, particularly in their focus markets of India, North America, and Europe. In this connection, the Company intends to continue our fibre capacity augmentation programmes, through both Greenfield and Brownfield investments.

- STL intends to increase its market share by continuing to foster deep engagement with key customer accounts besides cross-selling additional products in the comprehensive end-to-end products portfolio. As part of fostering deep customer engagement, they will continue to partner with existing customers on R&D efforts to develop new products and revenue streams.
- With the intent to further leveraging their existing customer relationships with key telecom companies, the Company will focus on building their optical interconnect portfolio for hyperscalers and data centres to gain new customers. In this pursuit, in addition to the in-house R&D development initiatives, they may augment their capabilities through inorganic initiatives, to expand the product offerings and access to new customers across the globe.

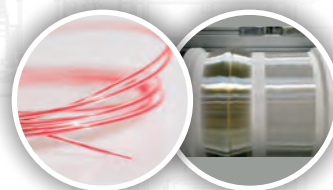


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- Looking ahead, the Company is working towards increasing the share in the telecom and cloud segments and are expanding in Europe, the Middle East, and America.
- Paving the way for sustainable networks, the company targets to be emission free by 2030 on the back of environment positive actions like Net Zero emissions, water positivity goals, Zero Waste to Landfill certifications, and sustainable sourcing.

Details of joint ventures or details of the joint venture you are planning to set up with a firm in the near future:

- Sterlite Condu spar Industrial Ltd – a (50:50 joint venture between Sterlite Technologies UK Ventures Limited and Condu spar Conductores Eletricos Limited)
- Metis Eduventures Private Limited - (Upto 31 October 2021).

Source: Annual Report

Havells India Limited

Wires that don't catch Fire



Year of establishment : 1971

Headquarter/Branch locations:

Headquarter : Noida, Uttar Pradesh
Branches : 35 Branch Offices

Number of manufacturing facilities and locations:

Research Centers : 3
Manufacturing Plants : 14

Number of employees:

5970 (On Roll) & 5182 (contractual)

Product portfolio and applications:

Cables (Power & Flexible), Switchgears, Lighting and Fixtures, Electrical Consumer Durables (ECD), Lloyd Consumers, Motors, Pump & Water Purifiers, Personal Grooming Products

Financials:

Turnover : 2021-22: INR 138,890 mn
2020-21: INR 104,280 mn

Turnover : 2021-22: INR 46,427.7 mn
(Cables) 2020-21: INR 31,801.7 mn

Growth Rate (turnover) : 33.17%

Profit (EBITDA) : 2021-22: INR 17,580 mn
2020-21: INR 15,650 mn

Growth Rate (EBITDA) : 12.7%

Net Worth : INR 59,890 mn

CSR activities undertaken:

- Havells spent INR 237 mn in various CSR activities.
- Havells has planted 15 lakh + trees in Bhopal, Alwar and Neemrana. It has entered into an MoU with Madhya Pradesh's Van Vikas Vigam Limited till 2027.
- In association with the Government of Rajasthan, it has developed an eight-bed state-of-the-art modern ICU ward in Alwar, Rajasthan.
- The QRG Foundation provides transport and related services for the distribution of dry food rations (wheat and rice) to over 400 government schools, directly benefiting 7 lakhs students in Alwar, supported by the Rajasthan government and school authorities.
- The company partnered with Aga Khan Trust for Culture (AKTC) to support the building of Humayun's Tomb Interpretation Centre and the restoration of Sabz Burj monument.
- Climate strategy and action: The company ensures low carbon footprint and carbon intensity of products in manufacturing and usage. CO2 emission intensity reduction from FY15-16 as baseline was 56%.
- Circular economy and waste management: The company promotes responsible end of life disposal of their product and services by

following '5Rs' – reduce, reuse, recycle, recover and residual management; strive for zero waste to landfill. Total water recycled was 69.2 million cubic metres.

- Human rights and CSR: The company contributes to the upliftment of the society and upholding human rights as per the UN Declaration of Human Rights.

New developments since 2021:

- Set up of one new factory
- 233 new designs approved
- Capex: The company's total capital expenditure primarily directed towards enhancing infrastructure and capabilities during the year was INR 2560 mn.
- The company commissioned the most advanced robotic manufacturing plant in Ghiloth, Rajasthan, in line with the 'Make in India' vision. This is a washing machine manufacturing plant with the capacity to produce 3 lakhs units/ annum. Manufacturing Execution System (MES) has been installed to monitor the production

cycle in real time, improving operations and saving time.

- In endeavor to reach <10k population towns , a new Rural Retail initiative was started called Havells UTSAV exclusive store, wherein a pilot of 50+ stores was completed in FY 2021-22, with a target of 1,000 stores by FY 2022-23.
- Under Rural Vistaar initiative, Havells India is now the most penetrated FMEG brand in rural markets through the presence of rural distributors in 3,000 towns under POP strata of 10k-50K, covering 40k+ retail points.
- 40 New SKUs Launched in Domestic Appliances in FY 2021-22
- Establish Lloyd as a 'mass premium brand'.
- Havells has been one of the first companies to get ISI license for HFFR cables. Over the period, it has expanded its range to include Solar, Telecom and CCTV cables.

Product/brand launches since 2021:

- Signia L1 smart touch, launched with both the smart WiFi communication feature and soft



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- TPE Compounds
- ZHFR Compounds
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- Nitrile (NBR) PVC Blends
- Reprocess PVC/HD Tape
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Plant 3 - Sector 17, Bahadurgarh (SS Polymers)

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SPECIAL FEATURE

touch operation with reduced noise, marks a new benchmark of connectivity and ease of operation in switches.

- Launched new range of air conditioners, refrigerators, geyser, air purifier, heaters, and mixer grinders.

Market served (domestic/exports in %) and countries served:

60+ countries served

Market footprint:

- Dealers: 14,000
- Retailers: 2.05 lakhs

Future targets:

- Improving brand reach across multiple channels;
- Continuing investments in R&D for developing innovative and quality products;
- Extending product line and diversifying portfolio;
- Penetrating newer markets, especially in the semi-urban and rural regions;
- Tie-ups with multi-brand outlets, regional retailers, and modern formats;
- Incorporating digital technologies in all aspects of the business to create enhanced value for all stakeholders;
- Investing and nurturing in building business for tomorrow.

Source: Annual Report

RR Kabel Limited

Akalmand Bano, Sahi Chuno



Year of establishment : 1995

Headquarter/Branch locations:

Headquarter : Mumbai, Maharashtra
Branches & Warehouses : Vadodara, Kolkata, Indore, Coimbatore, Delhi, Lucknow, Varanasi, Guwahati, Jaipur, Bhubaneshwar, Vijayawada, Bhiwandi, Ernakulam, Ahmedabad, Pune, Sonipat, Haridwar, etc

Number of manufacturing facilities and locations:

5 Units
Wires & Cables : 2 units
FMEG : 3 units

Number of employees:

4,000+

Production capacity (Product wise):

Cable & Wire	: 50,00,000 CKM
FMEG:	
Ceiling Fans	: 36,00,000
Lighting	: 75,00,000
Other Fans	: 30,000
Total	: 1,11,30,000

*Capacity is as on 31.03.2022

Actual production in the last 2 years (Product wise):

Currently, RR Kabel is operating at more than 90% of the installed capacity.

Financials:

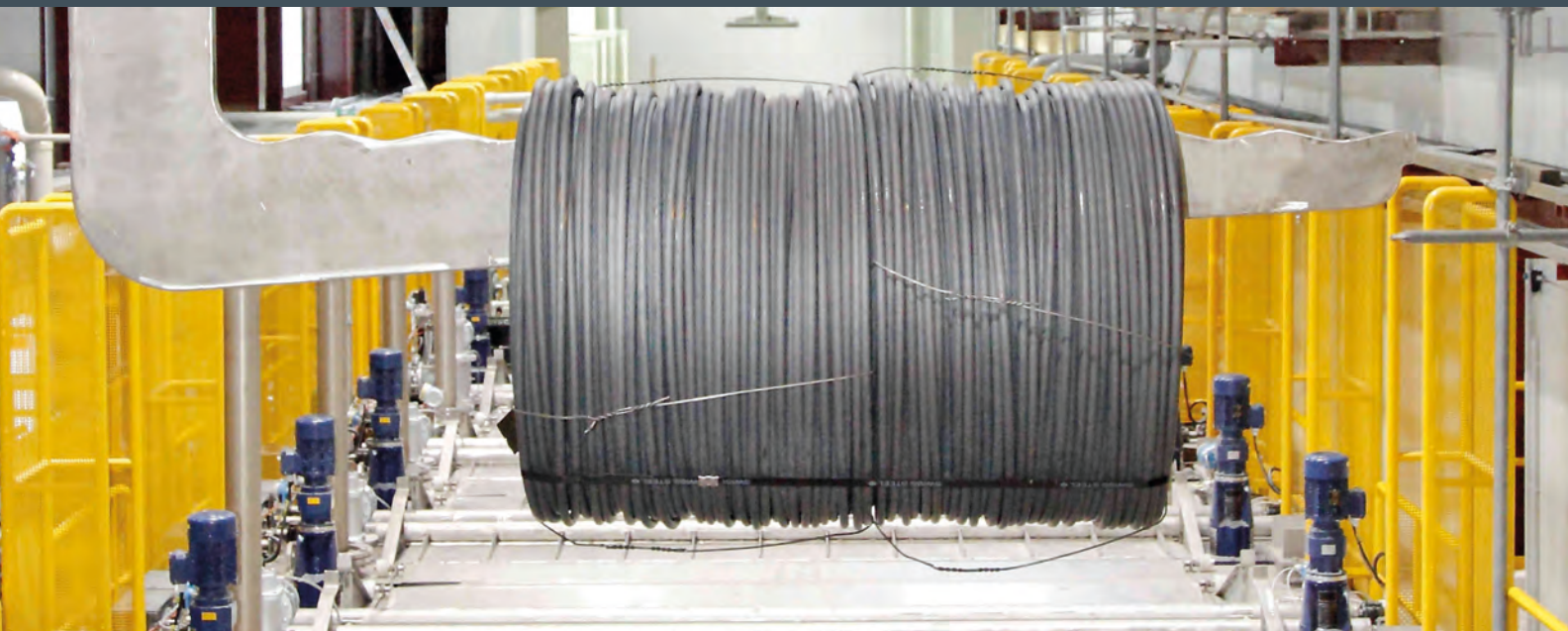
Turnover	: 2021-22: INR 44,322.2 mn 2020-21: INR 27,459.4 mn
Growth Rate (turnover)	: 61%
Growth Rate (EBITDA)	: 39%
Net Worth	: INR 10,458.6 mn

CSR activities undertaken:

- The company's CSR initiatives are focused towards education, health care, rural development, and women empowerment. The company spent INR 330 lakhs during FY 21-22.

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- **High quality treatment**
- **Optimized use of chemicals and energy**
- **Low operating and investment costs**
- **Minimal environmental impact**

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SPECIAL FEATURE

Market served (domestic/exports in %) and countries served:

Exports: 23% of the total turnover to 90+ countries

Market footprint:

- Dealers/Distributors: Approx 25,000

- Retailers: Approx 1,50,000

Details of joint ventures or details of the joint venture you are planning to set up with a firm in the near future:

Joint venture company name: RR-Imperial Electricals Limited, Bangladesh, engaged in the manufacturing of enamelled copper wire and PVC insulated wire etc.

Finolex Cables Limited

Behtar ElectriKAL ke liye!



Year of establishment : 1958

Headquarter/Branch locations:

Headquarter : Pune, Maharashtra

Number of manufacturing facilities and locations:

5 Manufacturing Sites at Roorkee, Uttarakhand; Urse, Pune; Pimpri, Pune; Verna, Goa; Ponda, Goa.

Number of employees:

1,589

Actual production in the last 2 years (Product wise):

2021-22:

Electrical Cables : 48,166 MT
Communication Cables - Metal-based : 5,961 MT
Communication Cables - Optic fiber cables : 1,472,435 FKM

2020-21:

Electrical Cables : 52,248 MT

Communication Cables -

Metal-based : 6,457 MT

Communication Cables - Optic

fiber cables : 1,233,952 FKM

Product portfolio and applications:

- Electrical Cables:
 - 1100V PVC insulated cables (for Electrification of industrial establishments, used by construction industry, electrical panel wiring and consumer electrical goods)
 - Motor winding PVC insulated cables (Submersible pumps and electrical motors)
 - Automotive/battery cables (Wiring harness for the automobile industry and battery cables for various applications)
 - UPS cables (for providing power from the UPS to the computer / appliances in the networking environment)
 - Heavy-duty, underground, low voltage, power and control cables (Connection to the user point from the main supply of power)
 - Heavy-duty, underground, high voltage, power cable (Intra-city power distribution network)
 - Elevator cables (For use by the elevator industry)
 - Solar cables (Specially insulated cables for use in solar parks)
- Communication Cables
 - Optic fiber cables (Networks requiring high-speed transfer of large bandwidth for voice image and data transmission)
 - Optic fiber (The principal raw material for optic fiber cables)
 - Coaxial cables (Cable TV network solutions, microwave communications, mobile towers)
 - Local area network (LAN) cables (Indoor and outdoor networking, voice and data transmission, broadband usage)

CARTONBOX

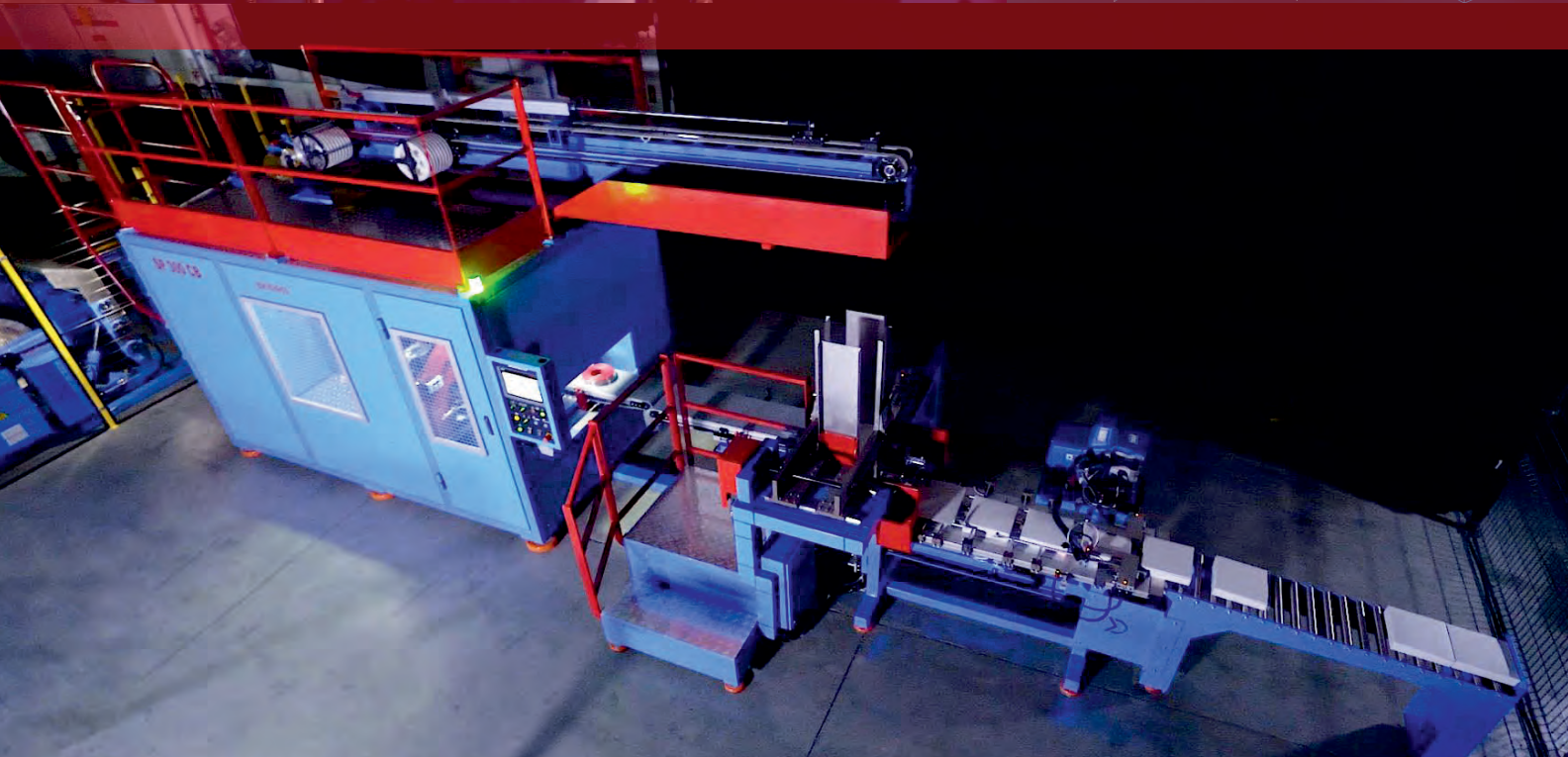
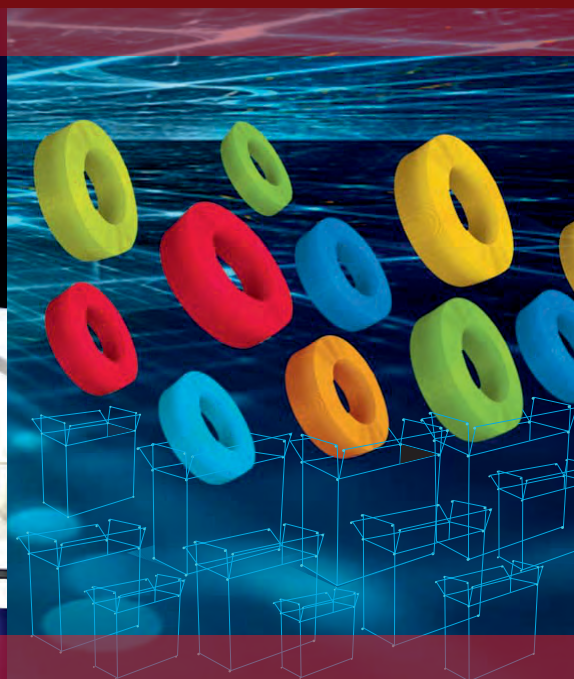
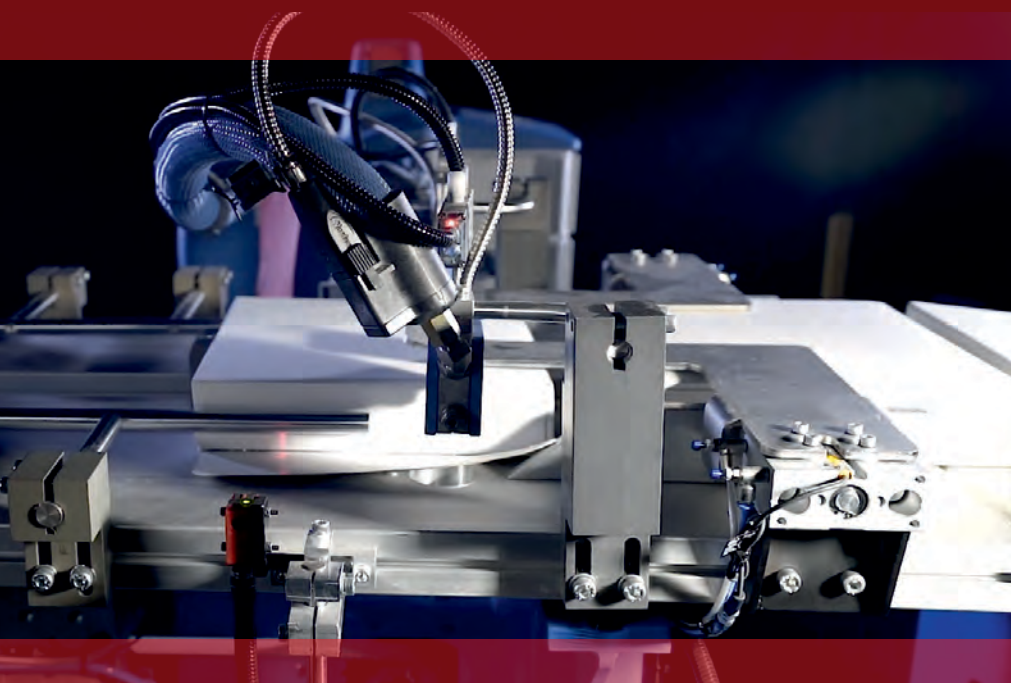
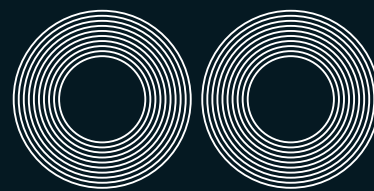
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- CCTV cables (For a better quality of CCTV images)
- Speaker cables (Broadcasting applications in buildings and electronic goods)
- Jelly-filled telephone cables (JFTCs)(Telephone line connections to exchanges and users)
- PE insulated telephone cables (Telephone instrument connections to EPABX)
- V-SAT cables (For connecting V-SAT dish to a base station)

- Copper Rods
 - CCC rods of 8mm in diameter (For manufacturing copper-based cables)
- Apart from Wires and Cables, the company also manufactures Conduits & Fittings, Lighting Products, Water Heaters, Switchgears and Accessories.

Financials:

Turnover : 2021-22: INR 37,681 mn
2020-21: INR 28,451 mn

Turnover : 2021-22: INR 31,932 mn
(Electrical Cables) 2020-21: INR 23,099 mn

Turnover : 2021-22: INR 3,797 mn
(Communication Cables) 2020-21: INR 3,215 mn

Growth Rate (turnover) : 36.1%

Profit (EBITDA) : 2021-22: INR 5,669 mn
2020-21: INR 4,318 mn

Growth Rate (EBITDA) : 31.28%

Net Worth : INR 32,638 mn

CSR activities undertaken:

- INR 85.3 mn was spent in CSR activities. Education, healthcare, women empowerment, and environment protection form the most important focus areas.
 - Donation to Agricultural Development Trust, Pune
 - Donation to Maharaja Jagat Singh Medical Relief Society
 - Donation to ABMM Maheshwari Relief Foundation – Mumbai
 - Donation to IIME - International Institute of Management & Entrepreneurship – Jaipur
 - Free OPD Medical centre in Khandala, Pune

through Sadhu Vaswani Mission

- Project for helping Diabetic and needy children
- Medical Ambulance for below poverty line people
- Helping children of farmer who had committed suicide due to droughts through Snehawan
- Partnered with reputed NGOs to assist farmers' children during severe floods and drought;
- Contributed to Agriculture and Education Development for Research and AI Engineering in agriculture to increase mechanisation and product development for local farming needs;
- Provided assistance to a non-profit research organisation in the field of research and social welfare for the benefit of the society;
- Contributed to Augment Health Care Infrastructure for various community healthcare institutions;
- Extended medical care and facilities to children suffering from H-1B diabetes;
- Provided ambulance and medical equipment for emergency medical care of unprivileged people;
- Supported in betterment of school and classroom infrastructure across schools in various states;
- Donated patient transport ambulance to Sadhu Vaswani, a mission free health clinic at Lonavala, Maharashtra and neighbouring villages;
- Donated sonography machine and computerized radiography X-ray machine for the marginalised masses.

New developments since 2021:

- Commenced construction of a plant for the manufacture of solar cables in Pune which will serve the renewable energy sector as well as construction and automobile sectors.
- Installing a new line to make tinned copper and foray into instrumentation cables, which will also strengthen backward integration.
- For growing channel partner reach, Lucrative incentive schemes backed by ambitious targets were launched during the year which showed excellent outcomes.
- Expanded retail coverage from 90,000 to 1,50,000 touchpoints; Received encouraging response received from the semi-urban and rural areas.
- Stepped up the digital marketing and social media campaigns to reach out to our target audiences and deliver a unique experience.
- Received the 'e4m Pride of India - The Best of Bharat' Award, 2022 to celebrate and honour the brands built in Bharat for Bharat. This award is

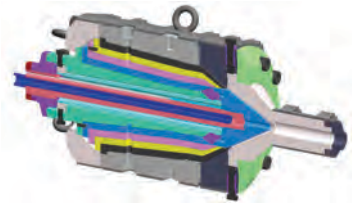
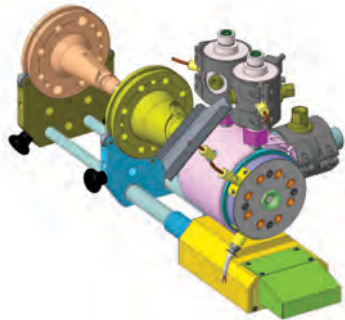
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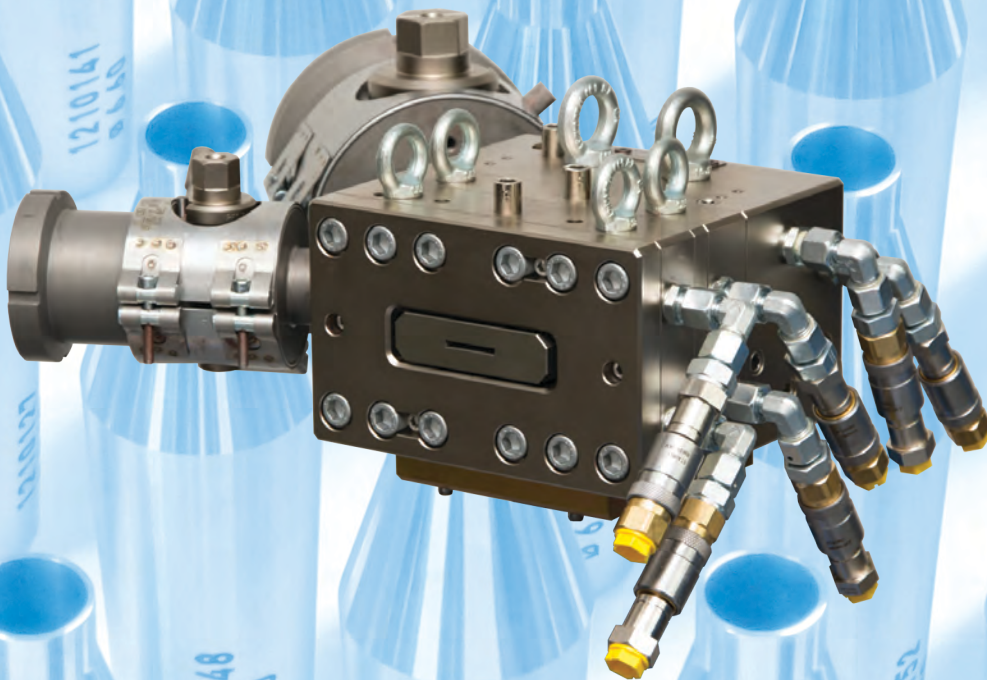
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Crossheads for Power Cable



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Email: navin@arunavindia.in | www.arunavindia.in | Mr. Navin Agarwal

SPECIAL FEATURE

given to brands that have demonstrated leadership, strategic accomplishments, creativity, and constant innovation in their product, processes, and marketing practices.

- **FINOLEX Documentary:** During the year, the History TV18 & CNBC channel developed and aired a 22-minute documentary on 'The Finolex Story' that was broadcasted across the TV18 network. This program took the viewers through the inception and history of Finolex Group and its growth plans for the coming years.
- Received the 'Maha brands of Maharashtra' Award, in recognition of our contribution to providing impetus to the growth and industrialisation of Maharashtra.

Product/brand launches since 2021:

- Forayed into the room heater category with a range of six high-performance aesthetically designed variants.
- Launched decorative ceiling fans in the premium and popular segments
- Added a plethora of products to innovative LED lighting range

Market served (domestic/exports in %) and countries served:

Exports: INR 276 mn

Market footprint:

- 22 percent Market Share in the organised wires industry
- Depots: 26
- Channel Partners: 5,000
- Retailers: 150,000 across 773 districts of India

Future targets:

- Capex plan of Rs. 200 Crores over the next year
- The company plans to penetrate further into the markets and enhancing presence across newer territories.
- It is focussed on expanding its capacities and investing in backward integration to cater to the evolving customer requirements and further diversify its business.
- Moving forward, Finolex strives to de-risk its business and generate higher revenues from consumer electrical products.

Details of joint ventures or details of the joint venture you are planning to set up with a firm in the near future:

- Finolex J-Power Systems Ltd (FJPSL)
- Corning Finolex Optical Fibre Pvt. Ltd.(CFOFPL)

Source: Annual Report

Sterlite Power Transmission Limited

Empowering Humanity by Addressing the Toughest Challenges of Energy Delivery



Year of establishment : 2000

Headquarter/Branch locations:

Headquarter : Gurugram, Haryana
Branches : Mumbai, Hyderabad, Bangalore and Kolkata

Number of manufacturing facilities and locations:

4 Units (1 for Cable & 3 for Conductor/OPGW)

Number of employees:

570

Production capacity (Product wise):

2021-22

MV & EHV : ~3000 km

2020-21

MV & EHV : ~3000 km

Actual production in the last 2 years (Product wise):

2021-22

MV : 1500 km

EHV : 850 km

ACCC[®] CONDUCTOR

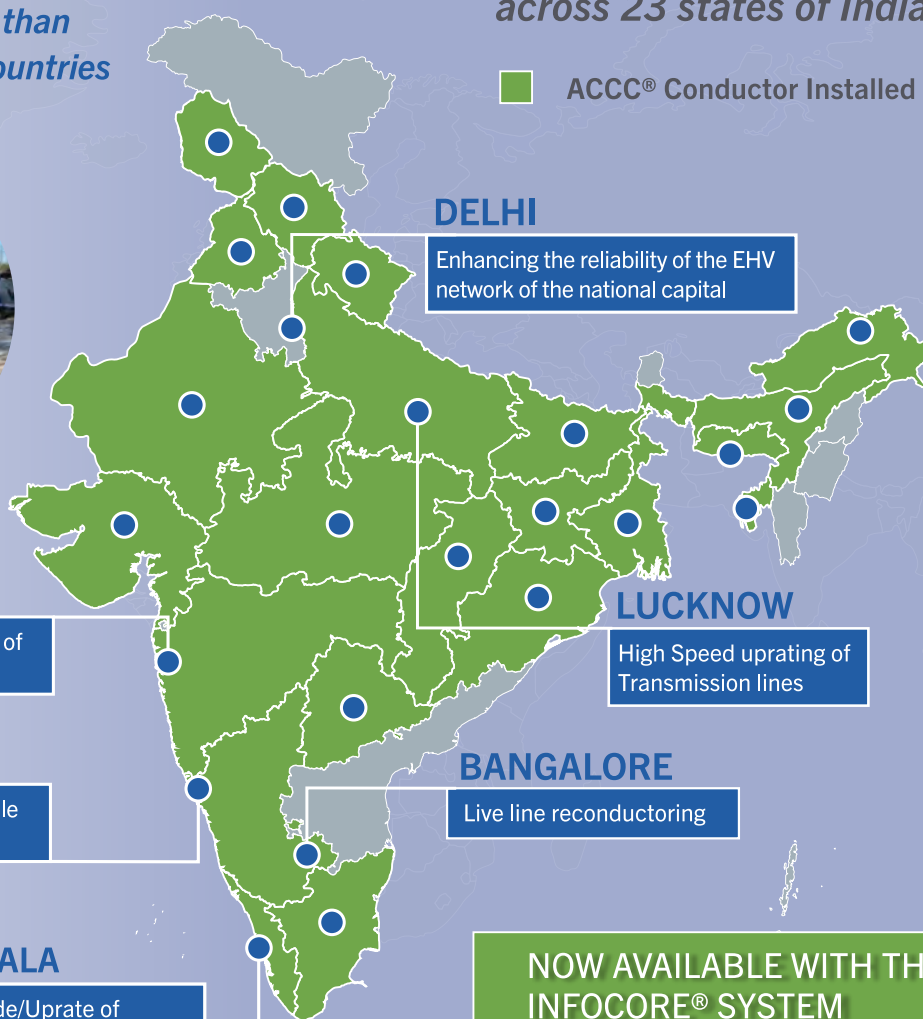
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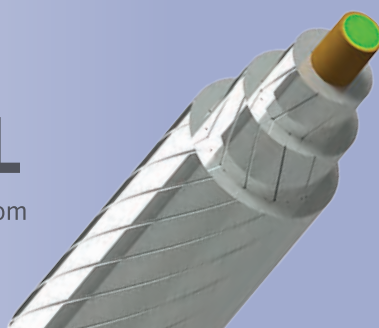


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2020-21

MV	: ~750 km
EHV	: 350 km

Product portfolio and applications:

MV & EHV Cable

Financials:

Turnover	: 2021-22: INR 37,970 mn 2020-21: INR 29,340 mn
----------	--

Growth Rate (turnover)	: 29.41%
---------------------------	----------

Profit (EBITDA)	: 2021-22: INR 3,650 mn 2020-21: INR 5,900 mn
-----------------	--

Growth Rate (EBITDA)	: -38%
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Net Worth	: INR 19,620 mn
-----------	-----------------

CSR activities undertaken:

- Sterlite EdIndia Foundation: Sterlite EdIndia Foundation is a not-for-profit organization incubated by Sterlite Power & its group companies. It was established with the mission to improve quality of education in public education system at scale by leveraging digital technology to create innovative solutions. Acknowledging the fact that there are existing barriers to integrate technology within the public education system in India, EdIndia spearheads initiatives like Project Pragyan and Nirnay that capitalize on modern digital tools, data analytics, smart classrooms as well as training of teachers for better classroom engagement and improved teaching-learning process.
- Having partnered with state education departments of Rajasthan, Tripura and Uttarakhand as well as district education departments of Mumbai, Aurangabad and Thane in Maharashtra, EdIndia has been running projects around teachers' training, vernacular online resources creation and awareness of data utilization for decision making, since 2012. These programs now impact more than 40 lakh students and supports over 2 lakh teachers of 40,000+ schools across four states in India. Especially during COVID pandemic, EdIndia has reached out to more than 1.8 lakh teachers to support them in facing

challenge of online education by training them about digital tools as well as teaching methods to be used during this phase.

New developments since 2021:

- 220kV PQ Test Completed successfully.
- Lead sheathing facility added at Cable Plant.
- 220kV Lead cable successfully type tested at CPRI.
- Order worth 200 Crs booked for lead cables across all EHV Voltage segment (66 kV to 220 kV).
- Major order bagged from MH for 220kV Cu CAS Cable (40 KM) on a turnkey basis.
- First EHV Cable system order of MP govt., won by us for Bhopal Metro RSS & Bhopal Smart City Projects.

Product/brand launches since 2021:

New Cable developed - Lead Sheath EHV Cable, Fibre integrated Power Cable (FIPC), Co Extruded Duct Cable (CCD), Low Loss Cable (HAC)

Market served (domestic/exports in %) and countries served:

For Cables:
Domestic: 90%
Exports: 10%

No. of EPC contracts undertaken/ongoing with respective locations:

220kV: MSETCL Shendra (~INR 100 Cr) & Nxtra Data Center
132kV: OPTCL Smart City (100 km/INR 200 Cr), UPPTCL (~90 km/INR 80 Cr), KSEB (~50KM/INR 45 Cr), MPPTCL (50 km/INR 80 Cr), Torrent (20 km/INR 25 Cr)

Market footprint:

Since the Company is dealing in MV & EHV Cables, we work on a B2B basis.

Future targets:

Develop 400kV Cable & HVDC Cable.

Details of joint ventures or details of the joint venture you are planning to set up with a firm in the near future:

Partnership with Taihan Cable Solution, Korea for EHV.



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- 3 Core flat cables



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✉ Info@rajnandinimetal.com & ashok@rajnandinimetal.com

📞 +91-7496982921, Landline: +91 1284 264194, 264196, 264197, 264198



Universal Cables Limited

Creating Milestones



Year of establishment : 1962

Headquarter/Branch locations:

Headquarter : Satna, Madhya Pradesh
Branches : 18 branch offices in India
1 in Dhaka, Bangladesh for undertaking EPC projects.

Number of manufacturing facilities and locations:

Unit 1 : Satna, Madhya Pradesh
Unit 2 : Verna, Goa

Number of employees:

926

Product portfolio and applications:

- XLPE Cables
 - Extra High Voltage Cables
 - Medium Voltage Cable
 - Low Voltage Cables
 - Aerial Bunched Cables
- PVC Cables
 - Power and Control Cable
 - Winding Wire and Flat Motor Leads
- Elastomeric Cables
 - Elastomeric Cables

Financials:

Turnover : 2021-22: INR 18,135.39 mn
2020-21: INR 12,806.65 mn

Growth Rate

(turnover) : 41.61%

Profit (EBITDA) : 2021-22: INR 1,424.03 mn
2020-21: INR 1,042.97 mn

Growth Rate (EBITDA) : 36.53%

Net Worth : INR 5620.87 mn
(Tangible net worth)

CSR activities undertaken:

- CSR Spend was INR 7.40 mn during the financial year.
- Covid Relief measures: Health Care including preventive Health Care and Disaster Management.
- Development of Medical Facilities, Repairing and Maintenance of Hospital Building, Fixtures, Equipments and other General Operational Expenses at M.P. Birla Hospital.
- Rural Development: Repairing/ Construction of connecting Road and Side Shoulders, Site Development including leveling & dressing of open land and Tree Plantation in Ghoordang Village near Bela Panchayat.
- Education and Employment enhancing vocational skill development especially among children, women, elderly and the differently abled and livelihood enhancement projects.
- Distribution of Artificial Limbs for disabled persons.
- Environment Sustainability: Tree Plantation & Development work at Amrit Park.
- Animal Welfare: Construction of Cow Shed at Dayodaya Pashu Sewa Kendra.
- Empowerment of physically challenged persons;
- Training to promote Rural Sports and Nationally recognised Sports.
- Upgradation of Aanganwadi Centre, Ambedkar School, Village : Kripalpur to promote education.

New developments since 2021:

- The Company has successfully completed the Type Test of very specialised 1 x 2500 Sq mm Enameled Copper Conductor 400kV EHV cable at world renowned Testing Laboratory-



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Solutions rather than Machines

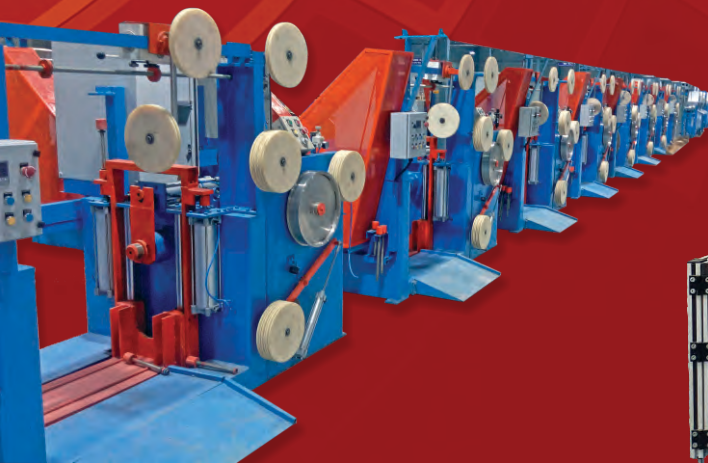
Machine & Controls is a pioneer in optical cable machine manufacturing for the past two decades in India. The ISO 9001 certified company has a client base world wide from MSMEs to MNCs. We believe in consistent and quality performance over the years with innovation and R&D in all possible machines to serve our customers better. Machine & Controls use a judicious mix of European and Indian components to curate a synchronised package that delivers performance at par or better than European offerings at a much economical price.

As part of our diversification plans we have ventured into new domain such as EPC contracts for OFC, FRP UV and thermal plant and have succeeded in providing enhanced solutions and delivered more than the promised performance.

Quality products are our strength and we believe in Solutions rather than machines

We Specialise in

- FRP Manufacturing Line
- Thermal, UV
- Complete range of OFC Manufacturing Machines
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- Technological Consultancy OF Cable Manufacturing & FRP
- Online Support for commissioning



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CESI/IPH, Germany as well as at renowned domestic test laboratory i.e. Central Power Research Institute.

- In the HV and MV segment, the Company commands a sizeable market share with widest range of cables in HV and MV segment. The capacity expansion project accomplished in financial year 2020-21 further strengthened its market share.
- In the LV segment, the Company has accelerated further expansion in manufacturing capacity of LV segment in phased manner which is expected to pass through a rising growth curve to meet the need for infrastructural development.
- Installed all new machines duly configured and equipped with state-of-the-art technology for ensuring optimised productivity and energy efficient performance.
- Optimised operational efficiency of existing 2 MW Solar Power Plant installed last year thereby increasing the ratio of Solar Energy in total energy consumption from 29.8% to 30.5%.
- In addition to 2 MW Capacity Roof Top Solar Power Plant installed in previous (2020-21), the Company has installed another Roof Top Solar Plant of 500 KW capacity at its Goa Unit during this year (2021-22).
- Identification and sourcing of new and alternate materials for ensuring quality improvement and cost competitiveness.
- Diversification and wider product range to address emerging market opportunities.
- Developed following new varieties of Cables & Capacitors:
 - Elastomer insulated turbine cables for wind energy applications.
 - E-beam cross linked elastomer insulated short loop cables for ABB drive panels.
 - Made three major improvements in capacitor design namely Fuse less Capacitor (645 KVAR/17.32 kV), IP 54 Enclosure for Capacitor banks and APFC Panel for temperature rise test.

Product/brand launches since 2021:

- During the year under review, the Company has manufactured and supplied at commercial scale 400kV EHV cables which is the highest voltage segment for underground cables in India.

Market served (domestic/exports in %) and countries served:

The company has national and international presence. It has been successful in penetrating into European & South American Market in EHV cable

segment besides the neighbouring countries such as Bangladesh Sri Lanka etc. The revenue from exports for Company stood at INR 1044.43 mn during the year.

No. of EPC contracts undertaken/ongoing with respective locations:

- The Company has opened a branch office in Dhaka (Bangladesh) for undertaking EPC projects in the country.
- Vindhya Telelinks Limited, an associate company is engaged in the business of Engineering, Procurement and Construction (EPC) business.

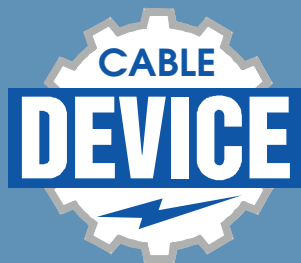
Future targets:

- Universal Cables expects to complete the ongoing 400kV Cable project during the financial year 2022-23 and hopeful of receiving further turnkey orders from Government utilities which will help in building reasonable strong credential in this niche segment.
- In line with expected demand growth in EHV Cable segment, the Company envisages further capacity augmentation and modernisation armed with the latest technologies of its manufacturing facility which is expected to be on stream by the first quarter of financial year 2023-24.
- The Company will continue to invest in new technologies in phases in tandem with demand growth for its overall business transformation.

Details of joint ventures or details of the joint venture you are planning to set up with a firm in the near future:

- Joint Ventures (Joint Arrangements): Birla Furukawa Fibre Optic Private Limited (BFFOPL)
- Associate Company: Vindhya Telelinks Limited (VTL)
- Joint Venture of an Associate Company: Birla Visabeira Private Limited (BVPL)
- Wholly owned Subsidiaries of an Associate Company:
 - August Agents Limited (AAL)
 - Insilco Agents Limited (IAL)
 - Laneseda Agents Limited (LAL)
- The Company also has a foreign collaboration. It had entered into a Manufacturing Technical Collaboration Agreement with NKT GmbH & Co. KG, Germany on 9th August, 2018 for 400 kV Extra High Voltage XLPE Underground Cables, which continues to remain in force.

Source: Annual Report



Resistance Annealing Machine



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Induction Pre-Heater



Extra High Speed

High Speed

Vindhya Telelinks Limited

Journey Towards Digital Future



Year of establishment : 1983

Headquarter/Branch locations:

Registered Office : Rewa, Madhya Pradesh
Corporate Office : New Delhi
Branches : Ahmedabad, Bangalore,
Chennai, Goa, Mumbai,
Hyderabad, Kolkata

Number of manufacturing facilities and locations:

Unit : Rewa, Madhya Pradesh

Number of employees:

1511

Product portfolio and applications:

- Fibre Optic Cables: Central-tube Unarmoured Cable, Multi-tube Single Sheath Unarmoured Cable, Central-tube Steel Tape Armoured Cable, Multi-tube Single Sheath Armoured Cable, Dielectric Rodent Protected Cable, Multi-tube Steel Wire Armoured Cable, Multi-tube FRP Rod Armoured Cable, Multi-tube Ribbon Type Cable, All Di-electric, Self Supporting Aerial Cable, Hybrid (Optical & Copper) Under Ground Armoured Cable, Drop Cable, etc.
- Copper Cables: Foam Skin / Solid PE Insulated Jelly Filled Telephone Cable, Self Supporting Aerial (Figure 8 Type) Telephone Cable, Underground Jelly Filled Quad Cable, Signaling Cable, Jumper Wire, Electroplated Tinned Copper Wire, etc.
- Solar PV Cables

- Power Cable: LT Aerial Bunched Cable, Instrumentation Cable 1, Instrumentation Cable 2, Control Cable, PVC Insulated Industrial Cable (Unsheathed), PVC Insulated Industrial Cable (Sheathed).
- Telecom Fibre Accessories

Financials:

Turnover : 2021-22: INR 13,239.49 mn
2020-21: INR 15,020.55 mn

Turnover for Cable : 2021-22: INR 5,602.47 mn
2020-21: INR 4,819.28 mn

Growth Rate (turnover) : (-)11.86%

Growth Rate (cable turnover) : 16.25%

Profit (EBITDA)* : 2021-22: INR 1,910.61 mn
2020-21: INR 2,338.68 mn
**Standalone Amount*

Growth Rate (EBITDA) : (-)18.3%

Net Worth : INR 9,383.55 mn

CSR activities undertaken:

- CSR spend was INR 18.255 mn. As a part of its initiative under Corporate Social Responsibility (CSR), the Company has undertaken CSR projects and programmes in the areas of
 - Animal welfare;
 - Promoting healthcare including preventive healthcare and sanitation facilities;
 - Ensuring environmental sustainability;
 - Disaster management, including relief and rehabilitation activities in and around the local/nearby area(s) where the Company operates.

New developments since 2021:

- The Company's Electron Beam Irradiation facility (E-Beam cable facility) which helps to cross link the Polymer jacket of the cables have

been successfully stabilized and is now operating at par optimum capacity level and delivering superior products conforming to national and international standards for a variety of applications.

- The Company has approved a Technology Cooperation Agreement with Huber + Suhner AG, Switzerland ("H+S") for the exclusive license on the licensed patents, the licensed trademarks and right to use the licenses know-how/technology to manufacture and sale of globally renowned RADOX® families cables in India by making use of H+S business processes to Indian Railways, its allied companies and also for the Metro and high speed railway projects (Rolling Stock Industry) application, etc. The said Agreement will enlarge Company's E-Beam cable products range to meet the ever increasing demand in Railway infrastructure projects which is likely to open new frontier of growth opportunities.
- Company's expertise in successfully manufacturing specialty communication cables for rugged field applications has come in very

handy and it helped the Company to achieve good results despite the challenges posed by the Pandemic during the first quarter of the financial year 2021-22.

- The Company's IP-1 optical fibre cable infrastructure is today recognised for best in class network quality, delivery standards and fully conforms to the highest uptime requirement stipulation in the telecom space.

Market served (domestic/exports in %) and countries served:

- Domestic Sales: INR 12,589.20 mn
- Exports / Overseas Sales: INR 650.29 mn
- The Company continues to make concerted efforts to boost export turnover as a strategy in the new geopolitical scenario.

No. of EPC contracts undertaken/ongoing with respective locations:

- The Company's Revenue from EPC Contracting/Turnkey Services in the EPC business segment – INR 8,594.01 mn

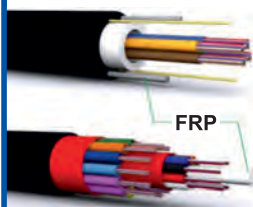


FRP & EAA COATED STEEL WIRE

EAA COATED STEEL WIRE



FRP (Fiber Reinforcement Plastic)



FRP (Fiber Reinforcement Plastic)



FRP (Fiber Reinforcement Plastic)



FRP (Fiber Reinforcement Plastic)



FIBER FRP Rod is manufactured using latest and precise technology with fiber and high heat resistant, proprietary resin system. **FIBER** technology allows higher glass content and higher heat resistant product, leading to higher LASE values and longer life. It is available in various coatings including, EAA and HDPE, which allows easy handling and adhesion with jacketing material. Hard coating provides a very smooth surface suitable for standard loose tube cables .

FIBER FRP Rod is available from 0.50 mm to 6.0 mm diameter in increment of 0.1 mm with very close dimensional tolerances. It has an added advantage of low bend radius with high torsional strength. It is most suited for loose tube, uni-tube, aerial drop cable, ADSS cable, slotted core, ribbon cable & is typically used as central or peripheral reinforcement in fiber optic cables. The product is capable to handle very high production speeds and longer cable lengths Long continuous standard lengths FRP rod, up to 100 Kms per Spool, improves productivity at the factory floor.

FIBER TELELINK PVT. LTD.

Khasra No-718, Subhanpur, Khekra, District-Baghat- 250101 (U.P.)
Mobile No - 9811078882, Ph:- 8744023303, mkt@fibercable.in, www.fibercable.in

SPECIAL FEATURE

- EPC Locations: Company has a pan India presence and executing Infrastructure projects in more than 15 states and Union Territories of India including J&K, Himachal Pradesh, Punjab, Haryana, Delhi NCR, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Andhra Pradesh, Tamil Nadu, Telangana, Bihar, Jharkhand, Orissa and Arunachal Pradesh.
- The Company's EPC division is well positioned to execute large ticket(s) turnkey projects across the business verticals like, Telecommunications, Defence, Water including Jal Jeevan Mission/Rural Water supply, Power sub-transmission and distribution, Gas pipeline including city gas distribution infrastructure projects and other allied verticals.
- Under the Company's IP -1 License for creating the complete optical fibre cable network, various telecom operators have been relying upon

network created by the Company with gradual expansion to enlarge coverage in new geographies in India based on increased demand for shared passive infrastructure from the telecom operators and other service providers.

Future targets:

- The Company has planned for further increase in the capacity of E-Beam Cable facility to cater to the increased business demands in all the user segments like solar energy, railways, ship building and the new technology segments.

Details of joint ventures or details of the joint venture you are planning to set up with a firm in the near future:

1 Joint Venture - Birla Visabeira Pvt. Limited

Source: Annual Report

Birla Cable Limited

Innovation for Sustainability



Year of establishment : 1992

Headquarter/Branch locations:

Headquarter : Rewa, Madhya Pradesh
 Branches : Mumbai, New Delhi, Ahmedabad, Chennai, Bangalore, Goa, Hyderabad, and Kolkata.
 Subsidiary : Dubai, UAE

Number of manufacturing facilities and locations:

Unit 1 : Rewa, Madhya Pradesh

Number of employees:

265

Actual production in the last 2 years (Product wise):

2021-22:

Copper : 507,000 Boxes
 OFC : 36.24 Lakh Cabled fibre kms

2020-21:

Copper : 380,000 Boxes
 OFC : 20.37 Lakh Cabled fibre kms

Product portfolio and applications:

- Optical Fibre Cables: Central-tube Unarmoured Cable; Multi-tube Single Sheath Unarmoured Cable; Multi-tube Double Sheath Unarmoured Cable; Multi-tube Double Layer Unarmoured Cable; Central-tube Steel Tape Armoured Cable; Multi-tube Single Sheath Armoured Cable; Multi-tube Double Sheath Armoured Cable; Dielectric Rodent Protected Cable; Multi-tube Steel Wire Armoured Cable; Multi-tube FRP Rod Armoured Cable; Multi-tube Ribbon Type Cable; All Di-electric Self Supporting Aerial Cable; Single-tube Figure-8 Type Aerial Cable; Multi-tube Figure-8 Type Aerial Cable; Hybrid (Optical & Copper) Underground Armoured Cable; Drop Cable; Indoor Drop Cable; Central-

tube Micro Cable; Multi-tube Micro Cable; Interconnect Cable; Breakout Tight Buffered Unarmoured Cable; Fan out Tight Buffered Unarmoured Cable; and Fibre to Antenna.

- Copper Structured Lan Cables: 4 Pair UTP CAT 5e Cable; 4 Pair FTP CAT 5e Cable; 4 Pair SFTP CAT 5e Cable; Hybrid 4 Pair CAT 5e with 2 F Cable; 4 Pair CAT 5e armoured LSZH Cable; 4 Pair UTP CAT 6 Cable; 2/4Pair CAT 5e Drop Cable - Single Sheath; 2/4Pair CAT 5e Drop Cable - Double Sheath; 2/4Pair Data Communication Cable; Switchboard Cables (Screened/Unscreened); Automobile Wires
- Telecom Accessories: Copper Patchcords; Fibre Patchcords; Fibre Pigtailes; Fibre Management Series – Rackmount; Fibre Management Series – Wall mount; and FOSC – 400.

Financials:

Turnover : 2021-22: INR 5,381.4 mn
2020-21: INR 3,303.6 mn

Growth Rate (turnover) : 63%

Profit (EBITDA) : 2021-22: INR 461.5 mn
2020-21: INR 270 mn




Growth Rate (EBITDA) : 41.5%

Net Worth : INR 1,792.2 mn
as on 31.03.2022

Market Capitalization : INR 3,934.5 mn
as on 31.03.2022

CSR activities undertaken:

- Contribution to Gaushala (Cow Ranch) at Rewa, Madhya Pradesh.
- Operation and Maintenance of Open Gymnasium (Gym) equipment installed at Rewa, Madhya Pradesh.
- Operation and Maintenance services of a Fire Tender being operated at Udyog Vihar Industrial Area, Rewa, Madhya Pradesh and its surrounding areas.






Ddev Plastiks Industries Limited
Kkalpana Industries (India) Limited
for bigger, brighter & better future here we are, in our new avatar

A leading polymer compound manufacturer in India with a global focus, providing solutions to all your needs.

Manufacturing
India: Daman, Kolkata, Silvassa, Surangi

Warehouse
Istanbul



PRODUCT RANGE FOR CABLES

- PVC Compounds
- HFFR Compounds
- Sioplas Compounds (36 KV)
- XLPE Compounds (69 KV)
- Semi Conducting Compounds (69 KV)
- PE Insulation & Jacketing Compounds

Energising Lives Through Speciality Compounds

Head Office:
2B, Pretoria Street, Kolkata - 700 071
Tel: +91-33-22823744 / 45 / 8818, Fax: +91-33-22823739, Email: kolkata@kkalpana.co.in

Sales & Marketing Office:
106, Laxmi Plaza, Laxmi Industrial Estate, New Link Road, Andheri (W), Mumbai - 400 053
Tel: +91-22-67021470 / 71 / 72, Fax: +91-22-67021473, E-Mail: mumbai@kkalpana.co.in

**Ddev (Kkalpana) Products are
RoHS & Reach Compliant**



TR - XLPE
XL - HFFR
PV Cables

Ddev Plastiks Industries Limited
www.ddevgroup.in

Kkalpana Industries (India) Limited
www.kkalpanagroup.com

SPECIAL FEATURE

- Expenditure by way of donation/ contribution for Corona virus medication and other medical equipments for treatment of COVID-19 patients.
- Development of Medical Facilities, Repairing and Maintenance of Hospital Building, Fixtures, Equipment and other General Operational Expenses at M.P. Birla Hospital, Satna, Madhya Pradesh.

New developments since 2021:

Various types of Fibre-To-The Home (FTTH) Cables, Micro Optical Fibre Cables

Product/brand launches since 2021:

High Fibre count Micro Module Cables, Speciality EPFU / CFU Cables, Drop Cables, etc

Market served (domestic/exports in %) and countries served:

Domestic: 61%
Exports: 39%

Future targets:

- Optical Fibre Cables: 80 Lakh Cabled Fibre kms
- Structured Copper LAN Cables: 10 Lakh Boxes

Apar Industries Limited

Tomorrow's Solutions Today



Year of establishment : 1958

Headquarter/Branch locations:

Headquarter : Mumbai, Maharashtra
Registered Office : Vadodara, Gujarat
Branches : Delhi, Kolkata, Chennai,
Bengaluru, Hyderabad,
Vadodara, and Pune

Number of manufacturing facilities and locations:

9 units at Umbergaon, Khatalwad, Rabale, Silvaasa, Athola, Lapanga, Jharsuguda, and Sharjah

Number of employees:

1,530

Production capacity (Product wise):

Power Cables : 186,000 km
OFC Cable : 180,000 km

Oil : 542,000 KL
Conductor : 194,560 MT

Actual production in the last 2 years (Product wise):

Power Cables : 162,643 km
OFC Cable : 123,651 km
Oil : 458,350 KL
Conductor : 107,463 MT

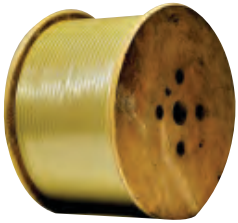
Product portfolio and applications:

- Cables: LV/MV/HV XLPE power cables (upto 66 kV for power distribution); building and flexible house wires & cables; elastomeric cables for flexible applications; e-beam irradiated cables for railways, shipping & renewables; optic fibre cables for telecommunication; speciality hybrid cables for defence applications; and medium voltage covered conductor for overhead applications.
- Speciality Oils, under the POWEROIL brand: Transformer oil; White & pharmaceutical oils; Industrial & process oils; industrial lubricants automotive lubricants & solutions; petroleum jelly; and natural ester transformer oil.
- Conductors: Aluminium conductor composite core (ACCC®); best in HTLS category; Optical ground wire (OPGW); copper railway conductor; continuously transposed conductors (CTC); and turnkey solutions



INDIA'S MOST TRUSTED ALUMINIUM & COPPER WINDING WIRES

Our Product Range



Aluminium Fiber Glass



Aluminum Bus Bar



Paper Covered Round & Rectangular Flats, Strip Copper & Aluminium



Enamelled Rectangular Flat & Wire - Copper & Aluminium



VMI Manufacturing setup at Bhiwadi



A

4 Plants across the India

B

World Class Manufacturing Setup

C

One of India's Largest Aluminum Enamelled Wire Producing Company

D

35+ Years of Experience



Financials:

Turnover : 2021-22: INR 93,200 mn
2020-21: INR 63,880 mn

**This is consolidated financial figures for the entire business of APAR Industries, including its cable division.*

Growth Rate
(turnover) : 46%

Profit (EBITDA) : 2021-22: INR 5,740 mn
2020-21: INR 4,380 mn

Growth Rate
(EBITDA) : 36%

Net Worth : INR 17,150 mn

Market : INR 52,000 mn
Capitalization (as on 24-08-22)

CSR activities undertaken:

The CSR activities of the Company mainly aim at Principle of Trusteeship, by serving the community through programmes and projects having focus on:

- Healthcare and upliftment of weaker sections of society.
- Education and medical.
- Environmental sustainability and rural development.
- Welfare of under privilege and destitute children, including girl children.
- Empowerment of physically/mentally challenged and underprivileged children, adults, and providing free education.
- Restoration and re-building efforts post cyclone.
- Mid-Day Meal.

New developments since 2021:

- Cables:
 - Commissioned 2.5 MeV e-beam line, over and above existing 3 e-beam facilities.
 - JV with Clean Max Rudra Private Limited for solar hybrid power generation facilities in Gujarat.
 - Cables factory Undergoing commissioning of 2 CCV lines.
 - Highest 18 UL approvals achieved and US orders for cables.
- Oil: Saudi Aramco Base Oil Company – Luberef has signed a memorandum of understanding (MoU) with APAR.
- Conductors: Agreement with Hindalco for sourcing molten metal.

Product/brand launches since 2021:

- APAR Cables Solutions:
 - 18 UL approvals for the US market.
 - Specialised OFC cables, tether cables, tactical cables, submarine pressure tight cables, torpedo cables, for defence and shipyards.
 - Complete cable harness for locomotives & railway coaches.
 - Earthing kits for rolling stock, PA system cable harness.
 - Complete integrated harness for electric buses, and EV - 2 & 3 wheelers.
 - EV chargers.
 - Solar jumpers and moulded harness with inline fuse.
 - Wires, cables & harnesses for automotives.
 - Re-launched best-in-class APAR Anushakti house wire (powered by e-beam technology, melt-resistant, 50 years life).
 - Sonu Sood signed as brand ambassador.
 - One of the largest exporters, a leader in CATV/ broadband fibre optic cables for the US & other global markets.
- Conductor:
 - Copper conductor for Railways and Optical Ground Wire.
 - (OPGW) & CTC for transformer industry.
 - Supplies to all top 25 global turnkey operators and leading utilities.

Market served (domestic/exports in %) and countries served:

140+ countries

Top 10 export countries for group: USA, Bangladesh, UAE, Australia, Brazil, Nepal, Ecuador, Turkey, Iraq, and South Africa.

No. of EPC contracts undertaken/ongoing with respective locations:

100+ conductor turnkey solutions

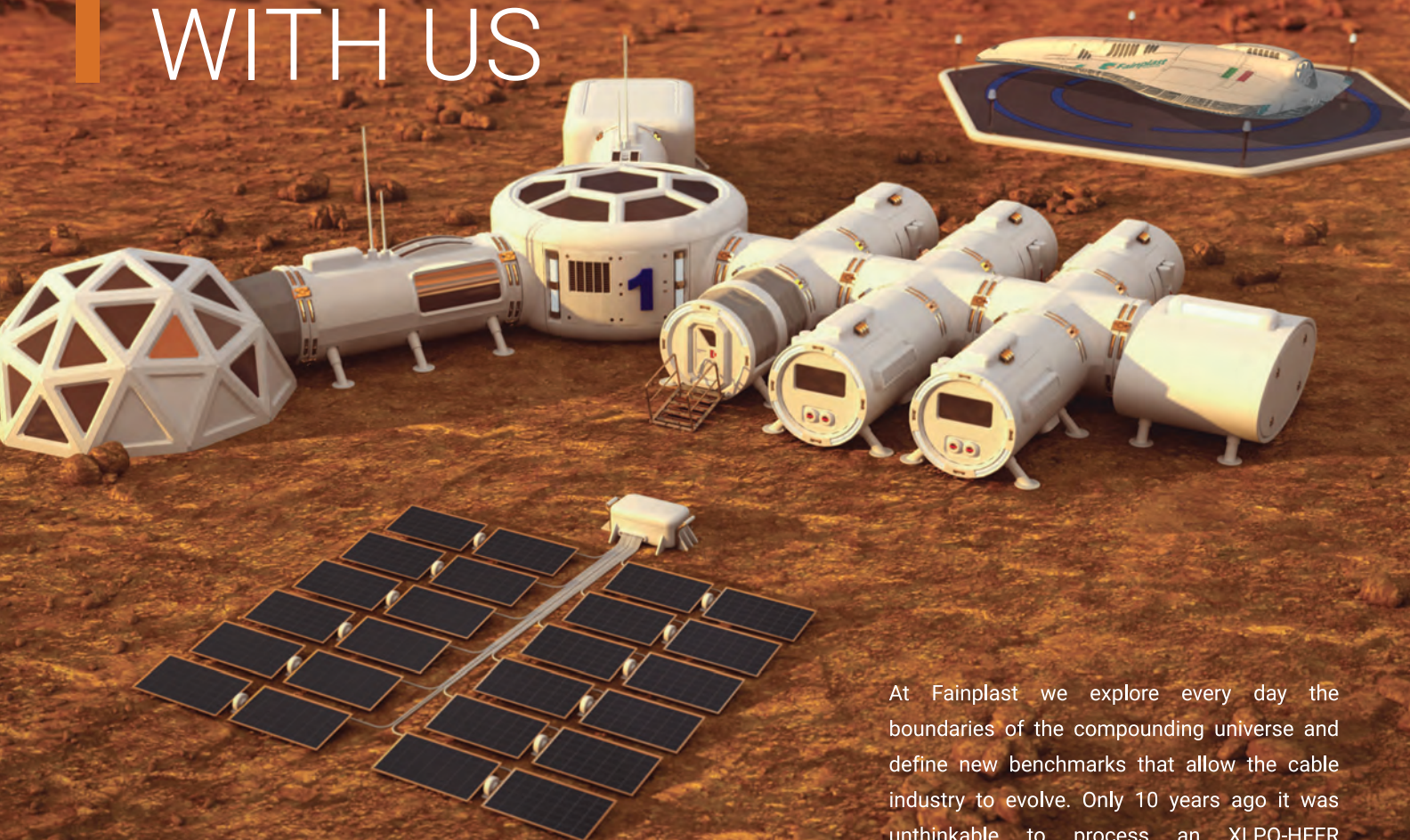
Future targets:

Expand the LDC business.

Details of joint ventures or details of the joint venture you are planning to set up with a firm in the near future:

JV with Clean Max Rudra Private Limited for the purpose of establishing and developing wind and solar hybrid power generation facilities in the state of Gujarat.

IMAGINE YOUR FUTURE WITH US



“We explore every day
the boundaries
of the compounding
universe”

At Fainplast we explore every day the boundaries of the compounding universe and define new benchmarks that allow the cable industry to evolve. Only 10 years ago it was unthinkable to process an XLPO-HFFR insulation without having the right equipment and strong knowhow. Today our customers, even those less experienced, benefit from easy and fast processing materials, and avoid most of the problems of a reactive extrusion without any specific investment.

Besides our crosslinkables, we deliver PVC, HFFR, PE and PP compounds worldwide. We have the most complete range of materials for cables. **Imagine your future with us.**

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www.fainplast.com



Fainplast Srl
Zona Ind.le Campolungo II Fase
63100 Ascoli Piceno - Italy

POLYOLEFIN AND PVC COMPOUNDS FOR CABLES

Gupta Power Infrastructure Limited

Powering a Smarter Tomorrow



Year of establishment : 1961

Headquarter/Branch locations:

Headquarter : Bhubaneswar, Odisha
Registered Office : Kolkata, West Bengal
Branches : New Delhi, Chandigarh, Uttar Pradesh, Rajasthan, Punjab, Telangana, Chennai, Madhya Pradesh, Coimbatore, and Madurai.

Number of manufacturing facilities and locations:

Unit 1 : Khurda, Odisha
Unit 2 : Gummidipoondi, Tamil Nadu
Unit 3 : Kashipur, Uttarakhand
Unit 4 : Halol, Gujarat

Number of employees:
2,000+

Product portfolio and applications:

- Cables: LV PVC/XLPE Power & Control Cable; EHV Power Cable up to & including 132kV with Al Corrugation; LV/MV Aerial Bundled Cable up to 33kV; Specialized Cables for Solar/Wind Power; Instrumentation Cable; Railway Signaling Cable as per RDSO specification; Fire Survival Cable; Thermocouple Extension / Compensating Cable; Switchboard Cables; House Wires/Flexible Cable; Mining Cable; Airfield Lighting Cable up to 5kV; Building Wire as per UL standard (USE/XHHW); Medium Voltage Covered Conductor (Mvcc) up to 33kV; and Contact Wire & Catenary Wires for Indian Railway.
- LED Lighting: Indoor Lighting; Retail Lighting; Outdoor Lighting; Warehouse Lighting;

Healthcare Lighting; Corporate Campus Lighting; Façade Lighting; Residential Lighting; Landscape Lighting, etc.

- Smart Conductors: Overhead Conductor (AAC/AAAC/ACSR); Overhead Smart Conductors (HTLS: ACCC/STACIR/TACSR/ACSS/GAP etc.)
- Optical Fibre Cables: Duct Cables, Armored Cables; ADSS Cables; Aerial Cables; Hybrid Cables; CATV Cables; FTTH Cables; and Indoor Cables.
- Wire Rods: Aluminium and Alloys as per AA 1000, 5000, 6000, 8000.

Financials:

Turnover : 2021-22: INR 37,050 mn

CSR activities undertaken:

- Gupta Power has allotted funds to JRG Education Trust registered under the Indian Trust Act for regulating, developing, conducting, and progressing weaker section of the society with relation to low economic groups.
- The Company is currently working to support:
 - Computer & Accessories
 - Plantation & Environmental Awareness
 - Safe & Clean Water
 - Sports & Cultural Activities
 - Scholarship/Financial assistance to EWS/SC/ST students.

No. of EPC contracts undertaken/ongoing with respective locations:

- The motto of Gupta Power – EPC wing is to offer holistic solutions to Power Infrastructure Projects which includes conceptualizing, panning, designing, engineering, Procurement, Erection, testing & commissioning. The Company has already served PGCIL for their 132kV transmission lines and OPTCL, TSTRANSCO & MSETCL for their 132kV & 220kV lines, and substation.
- Gupta Power has also served the Government of Odisha under OPTCL towards strengthening of distribution system for 120 nos AIS & GIS 33/11 kV substations & lines. Now, we are executing various projects on 132 kV, 220 kV, and 400 kV transmission lines & substation, underground cabling, and distribution projects for OPTCL, WBSEDCL, BSPTCL, PGCIL, GETCO, APTRANSCO, TSTRANSCO, REC



what your fibers can count on



meet us at
wire India, Mumbai
november 23-25
booth #C131



Increasing data capacities in optical signal transmission require ever-smaller cable diameters and higher fiber density at the same time. With Rosendahl machinery, you are well equipped to meet the requirements of tomorrow with a lot more benefits on top.

We offer **complete FOC manufacturing solutions**, from fiber to finished cable, as well as individual solutions for the individual process steps of fiber optical cable production.

ROSENDAHL NEXTROM. made in europe

rosendahlnextrom.com

SPECIAL FEATURE

Leh-Kargil, Haryana, UPPTCL & MSETCL.

- With the growing need to address uninterrupted power supply & uprating of existing infra transmission capacity, GPIL is already designing, manufacturing, supplying, & installing all types of HTLS conductors (ACCC (CARBON Composite Core), STACIR, ACSS, GAP) on voltage levels up to 400kV.

We have also completed our project with ACCC HTLS conductor in OPTCL Odisha, PSPTCL, Punjab, and BPC, Bhutan, and currently executing near about 1000 km of HTLS work under BSPTCL, UPPTCL, and MPPTCL on Turnkey basis. Also, the Company has completed the reconductoring of HTLS GAP conductor in 400 kV in PGCIL.

HFCL Limited



Year of establishment : 1987

Headquarter/Branch locations:

Registered Office : Solan, Himachal Pradesh
Corporate Office : New Delhi

Number of manufacturing facilities and locations:

Unit 1 : Hyderabad, Telangana
Unit 2 : Verna, Goa
Unit 3 : Chennai, Tamil Nadu
Unit 4 : Hosur, Tamil Nadu
Unit 5 : Solan, Himachal Pradesh

Number of employees:

3,400+ Employees, 1,890+ Engineers

Production capacity (Product wise):

Optical Fibre
Cable : 23.95 mn fkm
Optic Fibre : 10 mn fkm
FTTH Cables : 690k ckm
IGFR : 2,700 MT
FRP Rods : 504k km
ARP Rod : 660k km

Product portfolio and applications:

- Optical Fibre and Cables - Optic Fibre, Micro Cable, Micro Module Cable, Aerial Cable, Armoured Cable, Unarmoured Cable, FTTH Cable, Passive connectivity solutions.
- Telecom Equipment- Indoor & Outdoor Wi-Fi 5 and 6 Access Points Ethernet L2/L3 Switches, Point to point Unlicensed band radios, Cloud based Network management system.
- Electronics- Electro Optical Devices, Electronic Fuses, VMS and Video Analytics, High-Capacity Radio Relay/

Financials:

Turnover : 2021-22: INR 47,700 mn
2020-21: INR 44,590 mn

Growth Rate (turnover) : 7%

Profit (EBITDA) : 2021-22: INR 6,930 mn
2020-21: INR 5,860 mn

Growth Rate (EBITDA) : 18.45%

Net Worth : INR 28,180 mn

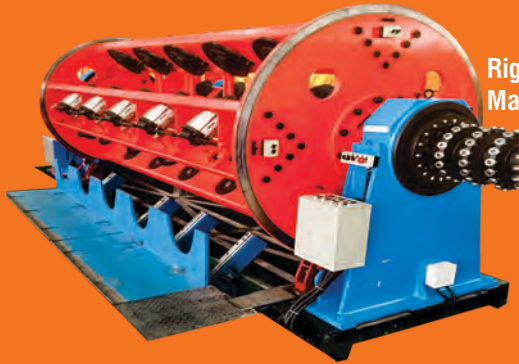
CSR activities undertaken:

- The Company has spent an amount of INR 62.1 mn towards its various CSR activities.
- Healthcare:
 - The HFCL Social Services Society carries out preventive health care initiatives in collaboration with HelpAge India and Wockhardt Foundation by running Mobile Medical Units.
 - The Company started procuring Oxygen Concentrators and Oxygen Cylinders and supplying across various parts in India.
 - HFCL distributed survival kits and food items

The Complete Wire & Cable Machinery Solution



Skip Stranding
Machine



Rigid Stranding
Machine



Armouring
Machine



Drum Twister



Auto Loading
Machine



Double Twist
Buncher



With its presence for over 40 years in supply of machinery to the wire and cable sector the India-based **Sarvasv Group** has primarily been known to infuse its machinery with innovations so as to take care of a client's minutest needs. **SARVASV** with time has earned the reputation of being the most reliable supplier and partner for supply of machinery for Wire and Cable Manufacturing. It has manufacturing units that are equipped with the most sophisticated and modern machinery and equipments, which is complemented by highly qualified team of professionals who are always striving hard to improve on the already attained success. It has also been exporting its machines to various countries across the globe like Middle East, UAE, Bangladesh, Nepal, Iran, Africa, Europe and Australia.

Our Product Range & Services

- High Speed Skip Stranders (Al, Cu, Steel and Insulated Cores)
- Skip Laying Machine for AB Cables
- Rigid Stranding Machine. (Steel, Al and Cu)
- Rigid Stranding Machines With Batch Loading (Steel, Al and Cu)
- Armouring Machine.
- Core laying Up Machine.
- Armouring Cum Laying Machine. (Multi Purpose)
- Special Planetary Stranders I Anti Torsion Machines
- Double Twist Bunching Machines
- Drum Twister for LT /HT Power Cables
- Extrusion and Sheathing Lines. (PVC and XLPE)
- Dual Automatic Spoolerfor Rod Break Down Machine (Al and Cu)
- Rewinding Lines, Take Up Units, Payoff Units and Catterpillar Units
- Taping Solution for PVC, Copper & Steel
- High Speed Tubular Stranding Machine Upto 36 Wires (Al, Cu and Steel Ropes)

Sarvasv Machinery and Equipments Pvt. Ltd.

Regd. & Corp. Office: B-200, Okhla Industrial Area, Phase-1, New Delhi-110020, INDIA

Factory: B-194B/195, RIICO Industrial Area, Kahrani, Bhiwadi Ext, Rajasthan-301019, INDIA

Phone: + 91-11-66401582 / 83

Mobile: + 91 9871163831

Email: info@sarvasv.com • varun@sarvasv.com

Website: www.sarvasv.com



Scan for more Info

to meet the day-to-day food and hygiene needs of the underprivileged community in and around Solan, Himachal Pradesh and Sardarshahar, Rajasthan.

- Education:
 - HFCL collaborated with Extra Marks Education Foundation on a smart class education initiative that is benefitting over 10,000 students from Sardarshahar (Rajasthan), Ghaziabad and Ghazipur (Uttar Pradesh).
 - In association with Hari Prem Society, HFCL is imparting computer training to underprivileged youth in Ghazipur (Uttar Pradesh).
 - By joining hands with Samarpan Foundation, HFCL delivers basic education and nutritious meals to the street children in Delhi
 - HFCL also offers grants for education and sports training to students from the marginalized sections of the society.
- Energy Management:
 - Energy Conservation: To reduce electricity consumption, HFCL has replaced all traditional lights with LEDs across the organisation. The Company has turned its workplace into an energy-efficient one by using natural light for illumination.
 - Sustainable Energy Sourcing: HFCL mainly uses solar charging for its Base Transceiver Station (BTS) sites in Left-Wing Extremism (LWE) projects, avoiding the use of diesel generators for backup power supply for the BTS and microwave radios.
 - The Company manufactures Optical Fibre, Optical Fibre Cables (OFC) with various type of designs and always take care of environmental concerns and endeavour to reduce carbon footprint generation, while designing cables by selecting raw material which meets compliance obligations.
- Water Management:
 - Water is continuously recycled in both Goa and Hyderabad manufacturing facilities through an efficient and effluent recycling process, reducing fresh water consumption. In addition, the Company operates a 15 KL/day and 30 KL/day Sewage Treatment Plants (STP) that recycles waste water for gardening purposes both at Hyderabad and Goa Plant respectively.
- Every year, the Company observes CSR Week from January 25 to January 31, visiting various NGOs or institutions with employees with a motto of 'Smile with someone and let someone smile'.

New developments since 2021:

- HFCL has been working constantly to reduce the diameter of optical fibre cables to maximise resource utilisation. During the year, the Company reduced diameters by 15%, resulting in higher fibre count cables and a 25% reduction in cable weight as well. As a result, the cables are compact, light, and easy to handle.
- The Company has established two new wholly owned subsidiaries in Texas and Amsterdam - HFCL Inc., a company registered in the State of Texas, in the United States and HFCL B.V., a private limited company registered in Amsterdam, in the sovereign state of the Netherlands
- HFCL is one of the few companies in India that has completed the deployment of 7,843 km of OFC Network in Punjab and 7,733 km in Jharkhand for the BharatNet Phase II project and has played a significant role in bringing broadband connectivity to 3,200 villages in Punjab and 1,789 villages in Jharkhand.
- The Company formed strategic partnerships with various global accredited names such as Wipro, O-RAN Alliance, CommAgility, Aprecomm, BigCat Wireless, Nivetti Systems, VVDN Technologies, Metanoia, Capgemini Engineering, NXP, IP Infusion.

Product/brand launches since 2021:

- 50 new products launched
- Various products are in testing phase and are expected to start producing revenue soon. Some of the products under development include 5G RAN products, Wi-Fi 7 access points, Cell Site Routers, DU/CU Aggregation Routers, Home Mesh Router, Passive optical network (PON) products, Small Cell for 5G, etc.

Market served (domestic/exports in %) and countries served:

Supplies OFC to almost all major telecom service providers in India and also exports to more than 30 countries. The export revenue of the Company increased significantly to INR 3630 mn in FY22 from INR 2010 mn in the previous year with 80% YoY growth.

No. of EPC contracts undertaken/ongoing with respective locations:

Market footprint:

- As one of the largest infrastructure providers in South East Asia, HFCL recognised the potential of European markets and formed strategic

alliances with local players in these regions to provide EPC services for OFC / FTTH rollout.

- From 27% products and 73% EPC projects in FY21, the Company has moved towards 43% products and 57% EPC projects in FY22.

Market footprint:

30+ Countries serviced

Future targets:

- The Company aspires to advance India's 5G transition through infrastructure development and product innovation, leveraging its own R&D capabilities, collaborating with global technology leaders and supply of locally manufactured products across the world.
- The Company is geared up to capitalise on ambitious projects launched by honourable Prime Minister of India to strengthen the nation's broadband connectivity and fibre footprint.
- While focussing on long-term business growth, the Company is committed to environmental

sustainability, social well-being and ethical business practises.

- During FY22, HFCL decided to expand its Optical Fibre and Optical Fibre Cable manufacturing capacities. The expansion is to be completed by FY24 with an overall capital outlay of INR 550 crores.
- GreenField Capacity Expansion: HFCL is also setting up a dedicated facility for its defence equipment which will be in line with – 'Make in India'.

Details of joint ventures or details of the joint venture you are planning to set up with a firm in the near future:

- The company has two associates
 - Nimpaa Telecommunications Private Limited - Associate w.e.f. June 14, 2021
 - BigCat Wireless Private Limited - Associate w.e.f. November 12, 2021.

Source: Annual Report



CROSSLINKING OF PE AND HFFR USING UV



- Low cost of equipment
- Low energy consumption. Only 20KW
- Inexpensive cost of compound with long shelf life
- No need For extensive modification of production Facility
- Ease of processing and cleaning
- Extrusion of PE/HFFR with no pre-crosslinking issues
- High draw down = reduced material consumption
- Postproduction operations could be done immediately
- Able to manufacture Crosslinked cables
 - Crosslinked MV
 - Crosslinked LV
 - Crosslinked HFFR
 - Low cost highly mineral Filled Crosslinked PE cables as a replacement For PVC



Heetu Chemicals and Alkalies Ltd
305 Konark Shram
Tardeo Rd, Mumbai-400 034
sales@heetu.co.in
Tel +91 9967484848

KEC International Limited

Building Infrastructure for the World of Tomorrow



Year of establishment : 1945

Headquarter/Branch locations:

Headquarter : Mumbai, Maharashtra
Branches : Bengaluru, Chennai,
Gurugram, Hyderabad,
Kolkata, Pune, Vadodara

Number of manufacturing facilities and locations:

Unit 1 : Vadodara, Gujarat
Unit 2 : Mysore, Karnataka

Number of employees:

9,114

Production capacity (Product wise):

Power Cables : 40,000 km per annum
Instrumentation
Cables : 3,600 km per annum
Optical Fibre
Cables : 8 lakh fibre km per annum
Copper Telecom
Cables : 6 lakh conductor km
per annum
Catenary
Conductors : 2,040 MTPA
Contact wire : 3,240 MTPA

Product portfolio and applications:

- Power Cables: Extra High Voltage (66 kV to 220

kV); High Voltage (3.3 kV to 33 kV); and Low Voltage (up to 1.1 kV)

- Control & Instrumentation Cables: Control Cables (1.1 kV) and Instrumentation Cables (up to 1.1 kV)
- Railway Cables & Conductors: Contact and Catenary Wires; Cu-Ag Contact Wire; Railway Signalling Cables; Quad Cables; Cables for Metro Rail & Tunnelling projects; Dropper, Jumper & Feeder wires; and Earthing Conductors (AEC, BEC, and ACSR)
- Telecom Cables: Optic Fibre Cables / ADSS Cables / PIJF Cables; LSZH Sheathed Cables; and CATV Cables
- Special Cables: Solar Cables; CPR Compliant FR Cables; 110°C FR Cables; Lead Sheathed LT Power and Instrumentation Cables; Nylon Sheathed Termite Resistant Cables; Hybrid Cables; Mining Cables; Cathodic Protection Cables; Concentric Cables; and Submersible Cables.

Financials:

Turnover : 2021-22: INR 15,240 mn
2020-21: INR 10,620 mn

Growth Rate
(turnover) : 44%

Net Worth : INR 36,200 mn

Market : INR 97,420 mn
Capitalization (as on March 31, 2022)

CSR activities undertaken:

- Swayam Health: Vocational skills training for entry level job roles in healthcare industry.
- Swayam Drive: Two-wheeler riding training to secure employment as a delivery executive.
- Swayam Skills: Skills training for micro-entrepreneurs to support their income-generating skills or trades.
- Swayam Digital: Vocational training on digital

17 YEARS OF TRUST
AND EXCELLENCE



Product Range:

- ZHFR Compound
- PVC Compound
- PVC Master Batches
- Chlorinated Paraffin Wax

Product Specialty

- Zero Halogen Fire Retardant Compound - ZHFR
- Chlorinated Paraffin Wax - CPW
- Fire Retardant Low Smoke - FRLS
- Heat Resistance Fire Resistance up to 110°C - HRFR
- Fire Resistance - FR
- Thermo Plastic Rubber Compound - TPR
- ROHS PVC UV Master Batches
- Super Black, Jet Black, White,
- Red, Blue, Green, Yellow, Pink, Orange, Gray & Brown

Application of

ZHFR Compound

- House Wires, Insulation & Sheathing / Jacketing Welding Cables

PVC Compound

- Control & Penal Wires, Data & Telephone Cables, House Wires, Welding Cables
- Automotive & Solar Cable up to -50°C to 120°C

Chlorinated Paraffin Wax

- PVC leather Cloth, Wire & Cables, Automobile & Lubrication, Plastic & Rubber, Construction & Paints.

PVC Master Batches

- UV Protected & FR Color Master Batches, Low dosage, High dispersion, ROHS Compliances.

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23 - 25 November
Bombay Exhibition Centre
Goregaon - East, Mumbai.



Konnark Polymer Private Limited
Complete Solution for the PVC Populace.

Registered Office:

3, Salasar Commercial Center, Fatak Road,
Bhayander (E), Mumbai-401105.
Customer Care: +91-9702078201 / 9322268201 / 9377406410
Email: konnark_pvc111@yahoo.co.in

Works:

- Survey - 374/1/2/3, Kanadi Road, Village Kharadpada, Silvassa - 396235 (DNH & DD) .
- Plot No. E-27, GIDC, Vilyat, Bharuch - 392012 (Gujrat)

Warehouse: Ahmedabad

New Product
ZHFR & TPE
Compound

skills such as Hardware, Networking, Digital Marketing, Data Entry Operator, etc.

- Swayam Construction: Vocational skills training for entry level jobs in high demand infrastructure sectors, for roles such as Construction worker, Electrician, Mason, Carpenter, Scaffolder, Rigger, Welder, etc.
- Pehlay Akshar Schooling: Functional English classes imparted to children through various offline and online modes (TV-DD Program, A-Story-A-Day Campaign, YouTube, etc.).
- Pehlay Akshar Training - Capacity building of government school teachers and helping them create 'Magic Classrooms' – safe learning environment for school children and effective classes.
- Heritage: Upliftment and revival of sites, which are of historical significance.

New developments since 2021:

- The Cables business delivered a quantum leap in revenue during the year and achieved a growth of 44% along with significant improvement in profitability, on the back of higher sales in Power cables and Railway cables segment and increased efficiency in manufacturing and procurement.
- Achieved 100% growth in Railway cable orders in FY22.
- Delivered a growth of 45% in LT cable segment in FY22 as compared to FY21.
- Exported cables and cabling solutions to 35 countries across the globe, including 7 new countries.
- Established Railway Cables and Conductors manufacturing unit at Vadodara, for a suite of products to cater to electrification of Indian Railways, in line with modernization and High-Speed Rail programs of Govt of India.
- Diversified its client base and successfully executed prestigious projects for major Metro Rail applications and tunnel electrification & ventilation projects.
- Partnered with premier EPC companies and bespoke industries for projects in sectors such as Steel, Oil & Gas, Cement, and Tyres.
- Increased penetration in the EHV segment through several prestigious orders, including an order for supplying 220 kV EHV cables for a data centre.
- Continued thrust on new product development and developed new products for the Railway segment.

- Developed and commercialised Type2 All Dielectric Self Support (ADSS) which are used for laying of OFC cables on power lines.
- Commercialised a wide range of cables, which include new varieties of contact wires, catenary conductors, feeder, jumper, and dropper wires, railway OFC cables, and Quad cables for Railway applications.
- Launched Hybrid cables and commenced supplies to utilities.
- Received approval for manufacturing LV & MV multicore mining cables and signalling power cables.
- In-house R&D centres in Vadodara & Mysuru manufacturing facility received recognition from Department of Scientific & Industrial Research (DSIR), Ministry of Science & Technology, Government of India.
- Established state-of-the-art Customer Experience Centre in Vadodara to facilitate customer interface including inspections.
- Vadodara manufacturing facility presented with an award in Engineering category at the India Manufacturing Excellence Awards 2021, recognising our superior manufacturing capabilities.

Product/brand launches since 2021:

- RPG CABLES is now rebranded as ASIAN CABLES.
- Contact & Catenary conductors, Signalling cables, Quad cables, Contact wire, Dropper, Jumper & Feeder wires, OFC cables, Earthing conductors, Hybrid cables, Type2 All Dielectric Self Support (ADSS), and 220 kV 2,500 sq mm EHV cable.

Market served (domestic/exports in %) and countries served:

- Domestic: 90%
- Exports: 10% (35 countries)

No. of EPC contracts undertaken/ongoing with respective locations:

12 ongoing underground cabling EPC contracts in domestic and international locations

Market footprint:

- Dealers / Channel Partners
 - Domestic: 40+
 - International: 10

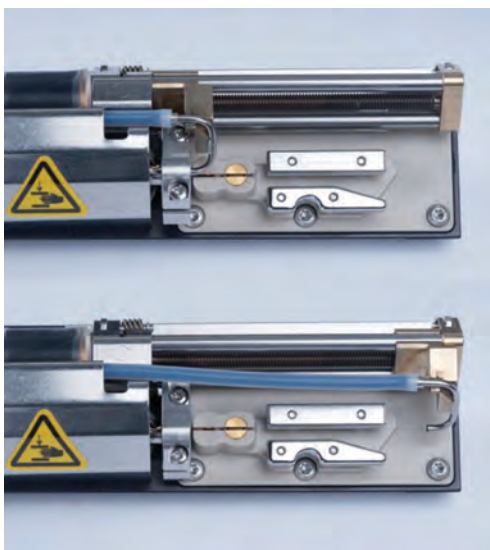


**Stop Cleaning!
Start Coding!**



Marking with Leibinger CIJ / Continuous Inkjet printers using SEALTRONIC technology eliminate inefficiency in production

- ✓ 100% protection against ink drying out
- ✓ No Daily Print head cleaning required
- ✓ No costly production interruptions
- ✓ Highest printing speeds up to 1000 meter per min
- ✓ Longest Service Intervals
- ✓ 24 Months Warranty – Highest in Industry
- ✓ Reducing Solvent consumption by 35%-40%



SEALTRONIC – Nozzle Technology ensures Trouble Free Start-up every time

Shut down process

The ink return line, or gutter, is automatically retracted into the nozzle when the printer is switched off, creating a hermetically sealed, air tight circuit.
100 % protection against clogged nozzles!

Startup phase

With the nozzle seal in place, the ink stream remains pressurized. The ink gutter moves into its open position and within seconds, the system is ready to print.

Corporate Office:

INDOMAX

NKB House, S. 98, Plot no. 14, Bhusari Colony,
Nr. Royal Enfield showroom,

Kothrud, Pune - 411 038.

Mobile No.: +91 91460 66164

Email: sales@indomax.in

Website: www.indomax.in

V-Guard Industries Limited

Bring Home a Better Tomorrow



Year of establishment : 1996

Headquarter/Branch locations:

Headquarter : Kochi, Kerala
Branches : 32 Branch Offices

Number of manufacturing facilities and locations:

9 Units Located at Coimbatore, Tamil Nadu; Perundurai, Tamil Nadu; Kashipur, Uttarakhand; Kala Amb; Himachal Pradesh; Rangpo, Sikkim; Mamring, Sikkim; Haridwar, Uttarakhand; Pantnagar, Uttarakhand and Roorkee, Uttarakhand. Wiring and Cables are manufactured at Coimbatore and Kashipur units.

Number of employees:

2,477

Product portfolio and applications:

- Wires & Cables: House Wiring, Speaker Cables, Flame Retardant Flexible Cables, Flame Retardant Low Smoke (FRLS) & Flame Retardant Low Halogen (FRLH) Flexible Cables, Service Cables, Round Cables, Coaxial Cables, LAN Cables, Telephone Cables, Flat Submersible Cables, and CCTV Cables
- Electronics: Stabilizers, Inverters, Batteries, Solar Power System
- Electrical: Switchgears, Modular Switches, Pumps

- Consumer durables: Solar & Electric Water Heaters, Fans, Air Coolers, Kitchen Appliances

Financials:

Turnover : 2021-22: INR 34,747 mn
2020-21: INR 26,990 mn

Growth Rate (turnover) : 28.74%

Profit (EBITDA) : 2021-22: INR 3,321.4 mn
2020-21: INR 3,065 mn

Growth Rate (EBITDA) : 8.4%

Net Worth : INR 14,025 mn

CSR activities undertaken:

- Healthcare:
 - COVID-19 Relief Measures - Included robust support to government hospitals, health institutions and the people at large, by providing ventilators, bio-medical equipment, PPE kits, masks, gloves and supportive medicine, among other essentials. Also, undertook a massive community vaccination drive across India during the year.
 - Ambulances for Rural Population - Provided ambulances to Nagaland, Kerala, and Himachal Pradesh with the aim of enabling emergency medical attention for rural people.
 - Disability Care Project - Implemented a comprehensive community-based disability care project during the year by providing corrective surgeries, aid and appliances.
- Education & Skill Development:
 - Smartphones for Remote Learning - Provided children from the disadvantaged sections of the society with Smartphones to facilitate their education in amid the pandemic-triggered lockdowns.
 - School Support Program - Government schools in Jammu, Uttarakhand, Karnataka, UP, Maharashtra, and Kerala were supported by the project, which involved construction of various facilities.

– Tarang Skill Development Project - Provided youth with training in the electrical sector, and facilitating their placement. This youth skill development project is a residential skill development program, under which classroom training and on-the-job training is given to unemployed youth in the electrical and electromechanical sectors.

– Navdharshan - Provide quality school education, along with therapeutic support and vocational training, to children.

- Environment Conservation: Initiated several awareness programs during the year in Odisha, Bengal and Rajasthan. Also, the Company conducted tree plantation drives in these states. In Delhi, an air purification device was installed to support the state's efforts to minimize air pollution.

New developments since 2021:

- The Company's Electricals segment grew by 32.6% during FY 22 and contributed 45.9% to total revenue.

- Project Disha was commissioned to drive a structured approach for penetrating existing territories (extraction) and expanding into new ones (expansion).
- During the year, V-Guard completed the Phase 1 off Project Neev, aimed at strengthening some of the fundamental pillars of sales and marketing function.
- Rishta Program, Pragati Program, VIP V-Guard Instore Promoter Program, Retail Universe Mapping (RUM) were multiple programs which saw considerable progress in a way where the company made growth trajectory to implement transformation.
- Smart investments were made during the year for brand building and increasing shift towards digital marketing.
- A dedicated and focused team was created, who collaborated cohesively across units to drive Manufacturing Excellence (ME) agenda for faster adoption of ME principles during the year.
- V-Guard was recognized in the Forbes Asia's Best Under A Billion 2021 List. The Company won the



ANDHRA MACHINE INDUSTRIES

An ISO 9001:2015 Company

Leading Manufacturer of Wire Drawing Machinery for Non-ferrous Wires (Aluminium & Aluminium Alloys, Copper & Special Alloys) with Spoolers, Coilers & Other Accessories.

- Wire Drawing Machines for Copper & Aluminium.
 - Rigid Stranders.
 - Skip Stranders.
 - Tubular Stranders.
 - Rewinders.
 - Other Accessories.

44 Years of Engineering Expertise in CABLE & CONDUCTOR MACHINERY



Rod Break Down Machine Two Wire Line



Skip Stranding Machine



Coiler



Pointing & Threading Machine



Spooler

Address:
D-14, Phase-IV (Extn.) I.D.A.,
Jeedimetla Hyderabad-500 055

Phone: 040 - 2319 4742, 2309 4180

Mobile: +91 94411 09771

E-mail: amind789@gmail.com,
dsuryanarayana@gmail.com

Ambition Box Best Places to Work in India 2021 in the Mid-Sized Companies category. Kashipur Factory of WCD won the Par Excellence and Excellence Awards at the 46th International Convention on Quality Control Circles (ICQCC-2021).

- The first plant as part of the VCPL subsidiary has recently started operations with manufacturing of stabilizers and Digital UPS in Pantnagar, Uttarakhand, and commercialized the unit in March 2022.
- Performed cost optimization activities in running models by: efficient thermal management, synchronized relay switching technology, transformer design optimization, and packaging design optimization.
- Initiated development of BOM and change management system through Product Life Cycle Management Platform.
- Introduced on-grid solar system.

Product/brand launches since 2021:

- The company launched a total of 377 new SKUs during the year to expand their product portfolio to address the needs of neo customers.
- The Company formed V-Guard Consumer Products Limited (VCPL), as wholly-owned subsidiary, for focusing more on manufacturing and development activities and achieving manufacturing excellence.
- VCPL is engaged in the business of manufacturing and selling of various electronics, electricals and consumer durables. All manufacturing units planned by the Company in respect of various product categories will be set up under VCPL. In-house PVC development to meet the Termite & Rodent repellent house wiring cables.
- Developed ROHS (Restriction of Hazardous Substances) technology and Halogen Free Flame Retardant (HFFR) in house wiring cables.
- Introduction of Outdoor wires & fixed installation segment.
- Launched various consumer durables like Sol SMART series of Solar Power System, Modular solar water heaters, the unbreakable PC lid-

equipped AG754 plus series of mixer grinders, AquaSmart + Pump, the Enviro-32 fan, Envibe 12D4 Router UPS, New Cooktops (Matteo 2B, 3D), Water Purifiers, Kitchen Hoods.

Market footprint:

- Retail Channel Partners: 50,000+

Future targets:

- The focus will be on investments in capacity augmentation, along with growing the national presence, to harness the opportunities ahead for which the company plans to invest INR 200 crores in capacity augmentation over next three fiscal years.
- By second quarter of FY23, the company targets to start the production of inverters too.
- By second quarter of FY23, the company is expecting several new products to begin flowing in the fast charging battery technology space across the Stabilizers, UPS and even Consumer Durables product categories and the company is hopeful of the sample battery pack being delivered to them for testing and evaluation.
- There will also be the major focus on improving the portfolio as well as the competitiveness in terms of aesthetics, efficiency, cost, and margins.

Details of joint ventures or details of the joint venture you are planning to set up with a firm in the near future:

- In December 2021, the Company announced the strategic acquisition of Simon Electric Private Limited (SEPL) from SIMON, SA. This will provide the Company the access to product capabilities in premium and super premium ranges and also a ready manufacturing facility which will bring cost competitiveness.
- As on March 31, 2022, the Company's investment in Guts Electro – Mech Ltd., which is engaged in the business of manufacture and supply of MCB & RCCB, continues at 74%.

Source: Annual Report



MEDIUM VOLTAGE RUBBER INSULATION COMPOUNDS

EKOPREN® compounds for medium voltage insulation are compliant for 6-95kV applications and they are

available with lead or lead free. Choose our rubber insulation compounds for a fast and smooth extrusion process.

CHOOSE YOUR EFFICIENCY.

Paramount Communications Limited

Expanding Horizons Delivering Growth



Year of establishment : 1994

Headquarter/Branch locations:

Headquarter : New Delhi

Number of manufacturing facilities and locations:

Unit 1 : Alwar, Rajasthan
Unit 2 : Rewari, Haryana

Number of employees:

254

Product portfolio and applications:

- Power Cables: Low Tension (LT) and High Tension (HT) Power Cables; LT and HT Aerial Bunch Cables; Control Cables; and Instrumentation Cables
- Railway Cables: Signalling Cables; Railway Power Cables; and Axle Counter Cables
- Telecom Cables: Optical Fiber Cables (OFC); Fiber to the Home (FTTH) Cables; Jelly Filled Telephone Cables (JFTC); and CATV Cables
- Domestic Wires & Cables: Building Wires; Submersible Cables; Multi-Core Cables; and Coaxial & LAN Cables
- Special Products: PTFE and Thermocouple Cables; Fire Survival Cables; and Solar Cables
- Specialized Turnkey Services: Telecom Consultancy and Turnkey; Power and Railway Turnkey Projects; and Specialized Projects: OPGW & Submarine Cables Installation & Repair

Financials:

Turnover : 2021-22: INR 5,809 mn
2020-21: INR 5,190 mn

Growth Rate (turnover) : 12%

Profit (EBITDA) : 2021-22: INR 241.6 mn
2020-21: INR 192.2 mn

Growth Rate (EBITDA) : 25.7%

Net Worth : INR 2,017.4 mn

Market

Capitalization : INR 1,893.3 mn

CSR activities undertaken:

- The Company has focused on several corporate social responsibility programmes like Empowering Children and Women, Promoting Health & Sanitation, and Nurturing.
- Communities and COVID-19 vaccination drives.

New developments since 2021:

- New Approval for cable manufacturing up to 66kV as per IS 7098: Part 3.

Market served (domestic/exports in %) and countries served:

Australia, Bangladesh, Chile, Ghana, Iraq, Libya, Myanmar, Nepal, Nigeria, Qatar, Sri Lanka, Singapore, Spain, Tanzania, UAE, UK, USA, and Zambia.

Market footprint:

- Dealers: 153
- Distributors: 102
- Retailers: 415
- 1500+ counters across India

Future targets:

To leverage our domestic market position with pre-qualification credentials, expansion of export markets, and focus on fast growing real estate market in India.



Ambient Curable Crosslinkable Compounds for Specialty Wire and Cable

Innovative and high performance compounds developed with our partners

Ready to use on standard extrusion line

Energy efficient process

Quickly achieve versatility in cable design

Main Markets: Smart Mobility, Alternative Energy, Building & Constructions, Oil & Gas

Our brands: **Cogegum® XLPO-HFFR**, **Polidienne® XLPO**, **Polidan® XLPE**

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padanaplast.com
A Finproject Company



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EXCELLENCE IN COMPOUNDING

Dynamic Cables Limited

Promoting Value Engineering



Year of establishment : 1986

Headquarter/Branch locations:

Headquarter : Jaipur, Rajasthan
Branches : Delhi, Mumbai, Chennai, Bengaluru, Vadodara, Kolkata, and Hyderabad

Number of manufacturing facilities and locations:

2 Units at Jaipur, Rajasthan
1 Unit at Reengus, Rajasthan

Production capacity (Product wise):

Unit 1: 3510 km/month
Unit 2: 45550 km/month
Unit 3: 1410 km/month

Product portfolio and applications:

- LT Polyvinyl Chloride (PVC) and Crosslinked Polyethylene (XLPE) Power & Control Cables, HT & LT Crosslinked Polyethylene (XLPE) Aerial Bunched Cables, XLPE UG Power Cables, ALL Aluminium Conductors (AAC), ALL Aluminium Alloy Conductors (AAC), Aluminium Conductor Steel Reinforced (ACSR) Conductors & Bare Copper Conductors and PVC Insulated, Underground, Screened/Unscreened, Armoured/Unarmoured/DST Armoured Power Cables, Single Core/Multi Core Signalling, Telecom Screened/Unscreened, /Armoured/Unarmoured Quad Cables for Railways Indoor/Outdoor Signalling use and Medium Voltage Covered Conductor (MVCC).

- LV Power Cables, Power Cables, Copper Control Cables, Mining Cables, Flat Cables, LV Aerial Bunched Cables, MV Aerial Bunched Cables, Flexible Multi Core Cables, Solar Cables, EV Charging Cables, Medium Voltage Covered Conductor (MVCC), ALL Aluminium Conductors (AAC), ALL Aluminium Alloy Conductors (AAC), Aluminium Conductor Steel Reinforced (ACSR) Conductors & Bare Copper Conductors.

Financials:

Turnover : 2021-22: INR 5,635.64 mn
2020-21: INR 3,421.11 mn

Growth Rate (turnover) : 64.73%

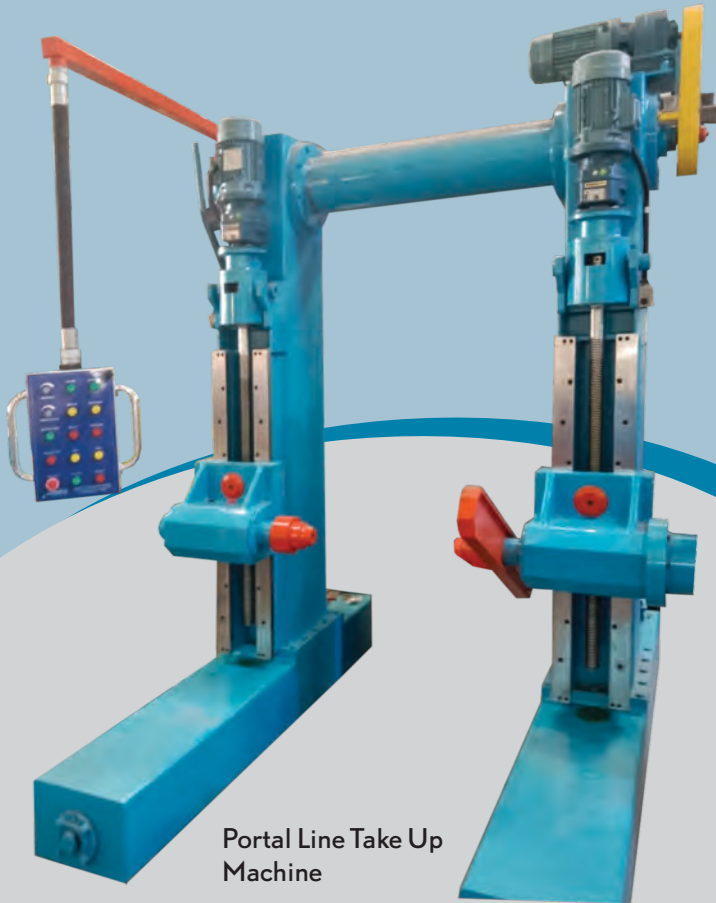
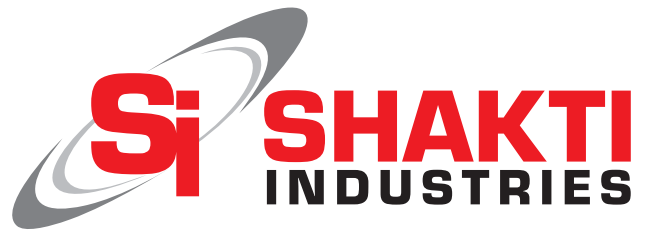
Profit (EBITDA) : 2021-22: INR 598.40 mn
2020-21: INR 256.28 mn

Growth Rate (EBITDA) : 133.5%

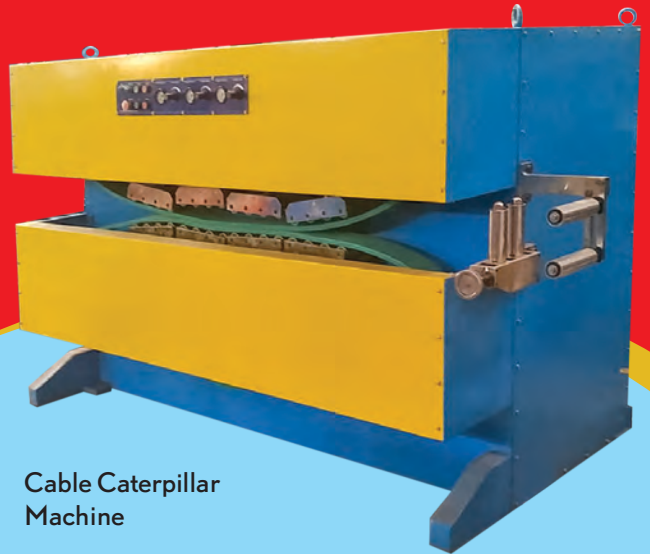
Net Worth : INR 1,476.21 mn

CSR activities undertaken:

- Promoting education:
 - Construction of School Blocks, Classrooms, and Toilets: Projects implemented through Round Table India, a trust working to aid and organise activities having the objects of relief to the poor, handicapped and the under privileged, education, medical relief or advancement of other objects of general public utility & a motto of freedom through education.
 - Construction of School and Hostel Facility: Projects implemented through Vandan Institute of Rehabilitation & Research, an institute working for mentally retarded, autism, cerebral palsy, hearing handicapped & multiple disability by training the students through special education, vocational training, music therapy, Reiki, computer training, and concept training.
 - Providing assets to schools: Project implemented directly by the company.
- Ensuring environmental sustainability: CSR Initiatives at different locations for environment sustainability were implemented by the company.
- Promoting healthcare: The initiatives to promote healthcare were implemented directly by the company.



Portal Line Take Up Machine



Cable Caterpillar Machine

Established with the aim of achieving towering standards in the market, Shakti Industries has been engaged in the manufacturing of Wire or Cable Machines and Associated Spare Parts. With our excellent range of cables and panels, we have been able to cater to electrical, automobile and construction industries.

Our domain expertise lies in custom-design, technical solution and manufacturing. We make use of good quality raw materials, latest technique and modern machines for manufacturing Industrial Cable Extrusion Machines. Our state-of-the-art infrastructure enables us to boost production in terms of quality as well as quantity. We have a well contented clientele that comprises Shikhar cables (Nepal), Veto Switch Gears and Cables Pvt. Ltd. (Utrakhand), Elmeck Cables (Delhi) and Golden Cables (Coimbatore).

Under the mentorship of Mr. Satish Gandhi , we have improved drastically which has further allowed us to garner a loyal client base. Our team possesses expertise in wire and cable machineries and offers customers with the best.

FEATURES:

- ✓ Best Quality
- ✓ High Performance
- ✓ Easy to Use
- ✓ It makes work easier



Extruder Machine

Address:

B-11 / 3A, Jhilmil Industrial Area, Delhi-110095

Email: shaktiindustries2009@gmail.com

Website: www.shaktiextrudersindia.com/

SPECIAL FEATURE

New developments since 2021:

- Registration with a few Indian leading companies.
- Enhanced presence in the eastern region.
- Purchased corrugation line for 66kV is under process.
- A dedicated MVCC line is also under process.

Product/brand launches since 2021:

- MVCC
- 66kV Cables

Market served (domestic/exports in %) and countries served:

Domestic: 89%

Export: 11%

Countries Served for Exports: 42 Countries

No. of EPC contracts undertaken/ongoing with respective locations:

There are about 100 EPC contracts which are undertaken and are ongoing.

Market footprint:

Number of Dealer/Distributors/Retail outlets (Domestic & International) are being nominated and tied-up.

Future targets:

- The order booking target in FY 2022-23 is set to be INR 1200 cr.
- Also, the Company intends to achieve the sales of INR 800 Cr in the FY 23.
- The Company also plans to attain the certifications like BASEC, UL APPROVAL, and other important approvals.

Details of joint ventures or details of the joint venture you are planning to set up with a firm in the near future:

- Discussions on pre-bid tie-ups with some reputed EPC contractors in India are being worked out.
- Also, the Company is under discussions for some JV with a Leading Cable manufacturer for their Indian and overseas projects.

Chandresh Cables Limited: Avocab

Safe Rakhega, Mast Chalega



Year of establishment : 1988

Headquarter/Branch locations:

Headquarter : Ahmedabad, Gujarat
Branches : Mumbai, Delhi, Chennai, Bengaluru, Hyderabad, Vadodara, Pune, and Surat

Number of manufacturing facilities and locations:

3 Units in Gujarat

Number of employees:

400

Production capacity (Product wise):

Power Cables : 12,000 km
Control & Instrumentation Cables : 15,000 km
Flexibles : 15 Lakhs Meters

Actual production in the last 2 years (Product wise):

Running at 100%

Product portfolio and applications:

Electrical Power Cables (up to 22kV); Control & Instrumentation Cables; House Wires; Solar Cables; Flexible Cables; Flat Cables; Copper Conductors; Fire Survival Cables; Paper Insulated Copper Conductors; Copper Strips; and PV Ribbons.

A Trusted Name In Cables

Empire[®]
CABLES

AN ISO 9001 : 2000 CERTIFIED COMPANY

ACRAB CAB
Wires & Cables

Total Cables
Solutions



PRODUCT RANGE:

- Power & Control Cables (Aluminium/Copper Conductor/Armoured Unarmoured Cables)
- FR / FRLS / PVC Cables. (HT & LT Cable)
- House Wiring / Multicore
- Flexible / Industrial Cables,
- Hook-up Wires.
- 3 Core Flat Submersible Cables.
- Telecommunication Cables.
- Co-axial / Instrumentation/ Computer Cables.
- Aerial Bunched Cables.
- TRS / TRS Braided / Welding Cables.
- CCTV / Cat-5 / LAN Cables.
- Solar Cables.
- Moulded Plugs.
- All Kinds of Other Special Cables

PVC Insulated Industrial Wires & Cables

Aerial Bunch Cable ABC upto 11 Kv.



Mfg. By:

EMPIRE CABLE INDUSTRIES PVT. LTD.

115, Phase - II, Badli Industrial Area, Delhi - 110042

Tel. : 011-27854325 | Mob. : 9990047711, 9810047711

Mktd. By:

RAGHAV CABLES PVT. LTD.

1853, Surya Bazar, Bhagirath Palace, Delhi-6

Tel. : 011-2386 8832, 2386 7957, 2387 4632

Dubai Off.:

POWER EMPIRE WIRES & CABLES TRADING COMPANY LLC

Shop No. 13/1, Al Jaziri Building, Al Nakhal Street, Deira, DUBAI (U.A.E.)

Tel.: +971 - 582524031, 585870199 | M.: +91 98116 47711

**DEALERS DISTRIBUTORS
ENQUIRY SOLICITED**

SPECIAL FEATURE

Financials:

Turnover : 2021-22: INR 5,500 mn
2020-21: INR 4,000 mn

Growth Rate (turnover) : 37%

Growth Rate (EBITDA) : 8%

CSR activities undertaken:

- The Company is actively involved in various social initiatives including the development of hospitals during COVID-19 and donation of oxygen machines.
- Chandresh Foundation is involved in helping the poor and aged through our various activities and interventions.

New developments since 2021:

- Initiated manufacturing of cables up to 66kV.

- Started manufacturing of copper products like PICC, Copper Strips, and PV Ribbons.

Product/brand launches since 2021:

AVOCAB Branded FRLSZH Wires, Customized Circuit Integrity Cables, and Copper Products.

Market served (domestic/exports in %) and countries served:

Domestic: 80%

Exports: 20% (Including Africa, the Middle East, and South East Asian Countries)

Market footprint:

More than 100 dealers pan India

Future targets:

Clock revenues of INR 1000 Cr and have a retail presence in more than 1000 outlets.

Cords Cable Industries Limited

Providing Quality Products and Services to the Customers in Time



Year of establishment : 1991

Headquarter/Branch locations:

Headquarter : New Delhi
Branches : Mumbai, Hyderabad, Chennai, Kolkata, Bangalore, Ahmedabad, Chandigarh, and Indore

Number of manufacturing facilities and locations:

2 Units in Alwar, Rajasthan

Number of employees:

530

Production capacity (Product wise):

2021-22

Plant 1 & 2 : 65,000 km

2020-21

Plant 1 & 2 : 60,000 km

Actual production in the last 2 years (Product wise):

2021-22:

Capacity
Utilization : 73%
Sales Breakup -
C&I : 74%;
Power : 26%

2020-21:

Capacity
Utilization : 55%
Sales Breakup -
C&I : 78%;
Power : 22%

Product portfolio and applications:

LV Power, Control, Instrumentation, Flexible wires & cables, Specialised Thermocouple Heat Resistant and Fire Survival cables, Railway Signalling, Balise Cables, and Other Specialised Cables

Financials:

Turnover : 2021-22: INR 4,379.92 mn
2020-21: INR 3,233.70 mn

Growth Rate (turnover) : 35%

Profit (EBITDA) : 2021-22: INR 382.14 mn
2020-21: INR 347.31 mn

Growth Rate (EBITDA) : 10.03%

Net Worth : INR 1,520.73 mn

Market Capitalization : INR 920 mn
(as on 11.11.2022)

CSR activities undertaken:

- Sansthanam Abhay Daanam Upliftment of Bird and Animal life for ensuring environmental sustainability, ecological balance, protection of flora and fauna, animal welfare agro forestry.
- Artificial Limbs (Rotarry Viklang Kendra) for promoting health care.

New developments since 2021:

- Expansion in Power cable capacity.
- Development of Quad cable for railway signalling sector.
- Specialised cables for Metro Railway.

Product/brand launches since 2021:

Quad cable and Balise cable for Railway protection system.

Market served (domestic/exports in %) and countries served:

Domestic: 80%

Export: 20%

Export markets are Middle East countries, European countries, and African Countries.

Market footprint:

- Dealers / Distributors:
 - Domestic: 20
 - International: 5

Future targets:

To increase top line substantially by adding new products, market segments, and capacity expansion.



SANT ENGINEERING INDUSTRIES

Power Cable Machineries

Manufacturers & Exporters of all types

Plastic & Cable MACHINES

Housing Wire Machineries



SANT ENGINEERING INDUSTRIES founded in the year 1966 by Mr Krishan Lal Malhotra is the leading Manufacturer and Exporter of all types of Plastic and Cable Machinery worldwide and is committed to fostering Excellence in this field.

We have the pleasure to introduce ourselves as one of the leading manufacturers and exporters of all type Plastics & Cable machine of wide ranging sizes / specifications in India having experience of our six decades. Our company strategy is to give lot of emphases on Customer satisfaction, quality control & also in co-operation innovation / technological, advancement in plant & machinery. We dedicated in energy saving / cost economic, Customer Services & environment friendly techniques.

Our expertise in following areas :

- High speed Insulation line and Sheathing line for House Wiring, Multicores Flat / Round & Control Cables.
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RR Kabel: Safe Wiring Paves Way for a Safer Home



Mr. Shreegopal Kabra, MD & Group President, RR Global

Home is probably the only place where we feel the safest. But do you know that we are surrounded by dangers even there? Wrapped with meters of wire, our home is unfortunately a place where accidents are most likely to occur. The often-hidden stream of wires that enables all our necessities and makes our lives comfortable can bring with it the risk of potentially fatal accidents and illnesses. That is why it is important to use the right kind of wires for our homes. But, what exactly is the right wire?

Mr. Shreegopal Kabra, MD & Group President, RR Global, in his recent speech at the 7th edition of The Economic Times Infra Focus Summit and Awards 2022, shed light on the impact of the wires' quality on overall electrical safety.

Talking about the kinds of wires that are generally used, Mr. Kabra said, "Flexible wires, used as house wires, are made from halogenated polymers such as PVC and not flame retardant. In the fire, these release large amounts of smoke and halogens that are extremely toxic. Even the FRS wires are made from PVC and emit toxic smoke."

Mr. Shreegopal Kabra, MD & Group President, RR Global, explained in detail about fire safety and the role of quality wiring at the Economic Times Infra Focus Summit and Awards 2022. RR Kabel, a strong proponent of fire safety, focusses on creating awareness around the use of quality wires with its campaigns and initiatives.

He further mentioned that of all the fire accidents, about 70 percent are electrical, and out of these electrical fire accidents, about 70-80 percent are due to faulty wires and cables. With urbanisation set to expand, issues of safety need to be addressed in old buildings as well as upcoming housing enclaves.

Low smoke zero halogen wires do not propagate flame & fire. Apart from residential and commercial properties, these cables are ideal for use in environments where reliability & safety is a norm. "Around 22 years ago, we brought low smoke zero halogen (LS0H) wires to the market but had to wait for 19 years to get BIS approval because BIS didn't have the testing facility back then," he said, adding, "In the UK, it is mandatory to use LS0H wires in all the buildings, restaurants and commercial complexes. Unfortunately, in India, neither architects nor contractors seem to bother."

Furthermore, Mr. Kabra explained the technical parameters of the fire-survival cables while appealing to manufacturers, dealers/distributors, and key stake- »



RR Kabel receives award under the Best Brand in Building Material Fittings category at the ET Infra Focus Summit Awards 2022.

holders that electrical safety should be a top consideration for all.

Last year, RR Kabel conducted the 'Wire ka Fire Test' contest with electricians across India. More than 800 electricians participated from all the regions across the states. The objective of the campaign was to create aware-



Shri Nitin Gadkari, Union Minister of Road, Transport and Highways was the Chief Guest at the event.

ness about RR Kabel's FIREX LS0H wires, and the fire-safety measures and to highlight the importance of taking precautions, especially during a fire outbreak.


RR Kabel is one of the leading wire and cable companies in the world. Over the years, the company has become the pioneer of wire design, technology, and applicability. ■

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Bekaert: Transformation Driven by the Megatrends



“

We believe in being closer to our markets and our customers...

This approach has helped us in various ways and has allowed us to be extremely agile and adapt quickly.

”

Bekaert is the global leader in steel wire transformation and coating technologies with a 140-year history of providing innovative products and solutions across diverse end markets. In addition to its strong core business activities based on steel wire solutions for industries including tire & automotive, energy & utilities, infrastructure & construction, basic materials, consumer goods, agriculture, and the equipment sector, Bekaert also focuses on a future 'beyond the core'. The group develops solutions made of other materials such as synthetics and other metals and wants to drive the transition toward new mobility, renewable energy, green construction, and smart solutions in general. Bekaert has its headquarters in Belgium. 27000 employees around the world serve customers in 130 countries. **Mr. Srikanth Chakravarthy, Vice President Global Strategy-RR, Managing Director India, Bekaert,** shares with Wire & Cable India magazine the insights on the Company's Bekaert's growth plans in India.



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25 GLORIOUS YEARS

Wire & Cable India: *How has been the journey so far for Bekaert in India?*

Srikanth Chakravarthy: Bekaert will be completing 25 years of presence in India next year. We were the first company in Steel Tire Cord to set up a manufacturing plant in Pune purely for the domestic market. With the support of our local presence and with continuous investments in manufacturing, plating lines as well as a Tech Centre, we have been able to distinguish ourselves in the market against the several other companies who are exporting tire cords to the Indian market.

The manufacturing facility was set up in 2000 after the land procurement in 1998 followed by our Technology Centre in 2010. There are only three centres in the world and we are proud to have our very own here in Pune. This showcases our dedicated focus on development

in the Indian market. We have a bright and motivated team who work closely in collaboration with our other centres in Belgium and China benefitting from global experience and providing solutions locally.

We've expanded our capacity severalfold over the past 2 decades and added other units as well. One of our plants is dedicated to producing high-carbon wire for automotive applications largely. We have another factory which makes high-quality steel fibres for concrete reinforcement with about 3/4th of the output being exported. The engineering division, which is focused on making our own machines, not only supports the needs of the Indian market but is a part of the global engineering solution. Our engineers also have installed and commissioned the equipment in Latin America, Europe, and other parts of the world. We have a strong talent pool of young people and good engineers.

In addition to products, Bekaert India is also expanding its contribution to the global Bekaert business through services in IT, Finance, Engineering, Technology, Legal, HR, etc. I think the future also looks quite exciting for us.

WCI: *How do you see the way forward for Bekaert India?*

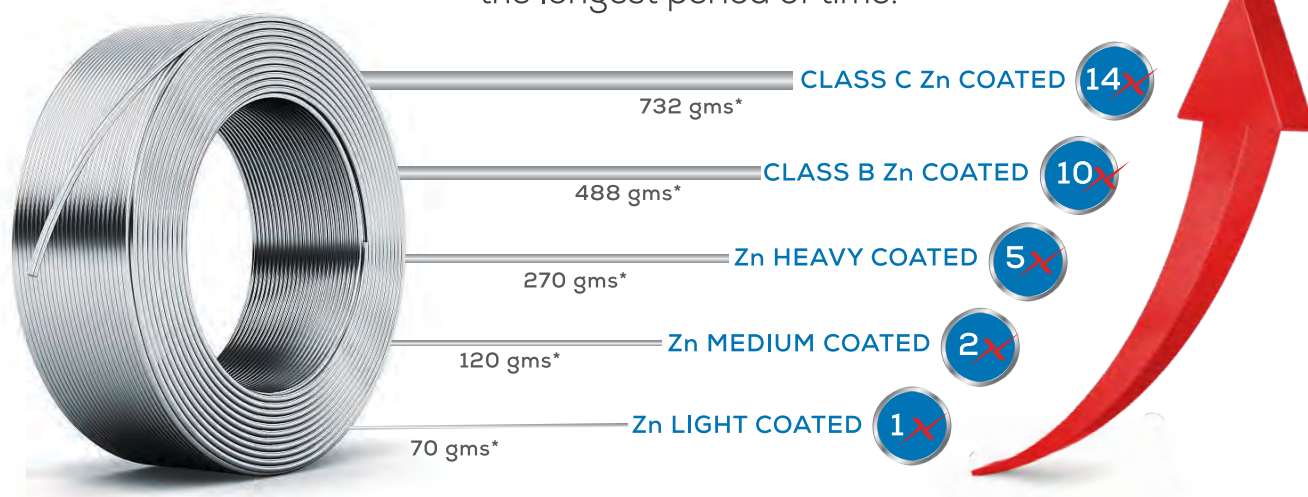
SC: We are catering to 50% of the total Indian demand and we have been consistently adding capacity to match the growth of the market. In the current era, we are witnessing flat or degrowth sentiments globally compared to a good amount of positive growth in India. Therefore, we plan to grow significantly in the coming years, and as a first step, we will be increasing our capacity by 50% within the next 18-24 months. The Indian market wants to reduce its dependency on imports and we have a strong demand from our customers to invest here and support



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*Figures mentioned are on average, actual coat weight differs as per wire sizes and standard specifications

25 GLORIOUS YEARS

their own growth plans by providing the best quality material with the highest service levels locally and mitigating several risks in the process for them. Over the next decade, we are clear that we will keep growing in line with the market and grow our market share further.

Going forward, the next decade clearly belongs to India as there is going to be consistent growth in the region. I am naturally excited about the opportunities. In terms of innovation, we work very closely with our customers, not only for solving today's problems but in anticipating what will be the challenge in the next 5-10 years. We drive down the needs from a market point of view and prepare well enough in terms of having the right technological solutions.

WCI: *How does Bekaert take care of your employees' welfare?*

SC: I wish to take my own example in this and along with Bekaert India I too have spent 25 years. I've had the opportunity to work in the areas of techno commercial, marketing and sales, technology, supply chain, account management, strategy and P&L responsibility. It also shows we are a company where people stay long enough because they can find professional enrichment and growth within the company. There are many people like me who have worked for a long time in the company simply because it's a great company to work for and also we see more of our Indian talent contribute to Bekaert globally. Over the last 25 years, we have maintained our commitment to being the best value creator for the market and this has not diminished during any of the years. As a consequence, we have over 50% market share in the Rubber reinforcement business.

'Diversity & inclusion' is natural in

India. We need to see this more in the people's demography in the industrial space. In terms of gender diversity, we have an opportunity to do more and we are taking affirmative action such as introducing policies and facilities that take into account the specific needs of women – whether they are single women, married or have children. Engaging with our female employees to understand what constraints they would face to being able to work in a manufacturing setup. We are looking to bring more women to the shop floor as well as management roles. Not just in HR (where we have the highest percentage) but also in technical, commercial, legal and engineering roles. We have increased the women workforce in our company by more than threefold in the last four years. We are still not where we want to be, but we believe that we're definitely on the right path with the right programs.

The safety program is a very important element of people care. We have something called BeCare in Bekaert, and this is a program that we started mainly with our employees. The Bradley curve shows that we move from being independent to interdependent, where we work and collaborate with each other to take care of each other. We have a lot of safety programs that are quite intense in the operational environment but we also take them beyond the operational environment. We cover all life-saving rules which are part of everybody's performance, criteria, and assessment. Our BeCare program extends to families and the community as well. The most important element in that is to have a leadership – the team that is able to walk the talk.

WCI: *How is Bekaert gearing up for addressing the Sustainability topic?*

SC: Environmental sustainability is a topic of high priority in Bekaert. We do have programs where we have sustainability initiatives focused on the product, and we recently got an award for BeCoFree, one of our technologies, which removes cobalt from the tire itself. Cobalt is used as an adhesion promoter but is not environmentally friendly. With this solution, we help the tire makers to eliminate it completely from the tire and we got an award for Innovation of the year at the Tire Technology conference, in Hannover, this year. Bekaert has about 1800 patents. Hence, we are constantly finding innovations that lead to more and more sustainable solutions.

Our manufacturing processes are all reviewed from a sustainability point of view. Since we make our own machines, we are designing our machines to also consume lesser energy and produce lesser noise & vibration. We're also developing processes that can reuse things and we want to remain a global industry leader in this regard.

WCI: *What is that which makes Bekaert's products stand apart?*

SC: Innovation, quality consistency, and the ability to co-create specific solutions for our customers are the hallmark of our products. We provide steel rein-





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- Pay-off & Take-up Systems for Patenting / Annealing Line
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- Dead Block Coilers
- Pay-offs for Wire Drawing Machine
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25 GLORIOUS YEARS



forcement for every tire that uses steel in its manufacturing, but we do not yet produce/sell bead wire in India. If you look at the tire cord reinforcement, we have solutions for two-wheeler and motorcycle tires, which is a very small market today, but there is a growing interest in that and we have solutions for that. We are also looking at the passenger car, right from the 12-inch tire to 19-20 inch tires and high-performance tires as well. Also, we have solutions for the truck, bus and off-the-road market. Additionally, we also import some products where necessary to cover segments like mining and OTR tires and rubber tracks.

Where we are different again is that we really go down into the application and see where it makes a difference at the segmented level, where the customer can enhance their performance. This comes out of a very close dialogue with our customers and understanding their needs very well at that level, and

then finding the right steel cord solutions that fulfill that particular purpose.

We also see that the Indian tire makers are increasingly exporting, and those market needs are different, like Europe and the USA even though they're different from each other. What works in the USA may not work as well in Europe and vice versa. So there too, we have an intense collaboration with our customers to find the right solutions

***WCI:** The Indian mindset is a cost-sensitive and demanding market. What can you say about this?*

SC: Firstly I believe the Indian market is a value-sensitive market. Cost competitiveness is an essential component in that, but does not completely define the value need. Cost is a matter of concern compared to some countries that offer more support to their industry. India is changing in this regard, but still, there is a difference. Energy is definitely a challenge. Recently,

power utilities announced the Fuel Adjustment Charges (FAC) in the state of Maharashtra were increased by 10 times. Things like these do affect our competitive ability. Nevertheless, I am assured that we will find a solution and we could be competitive with the right scale. We must realise that the Indian market is still much smaller for our business than the Chinese market. We don't have the advantage of scale like China. However, we are quite creative and resourceful. Thus, I believe we will find ways to overcome the challenge regarding competitiveness as we are all in this together. We will work with our suppliers very closely to participate in this.

Earlier, government legislation used to be a huge setback. Now, it is not like that anymore. One needs to be aware of how things work. In my understanding, digitalisation has made many processes much easier than before. We've recently received a certificate from the GST council for submitting our GST taxes on a timely basis and correctly. This shows that the government is quite proactive in terms of encouraging good business practices. Besides, we've also established a very healthy relationship with the Belgian consulate and the Belgian Embassy in India. They support us and help us with access to the right ministerial departments. They have a pro-business mindset. As a consequence, they strongly encourage investments in India.

All in all, I don't perceive any major challenges that could be roadblocks to growth. As a matter of fact, I believe that there are more opportunities and positivity than there are challenges.

WCI: *What are the learnings from the Pandemic that you can share?*

SC: For us, the biggest lesson from the COVID-19 pandemic is the fact that the nature of change can be quite dramatic. We need to build agility deep into our organisation. We may make three-year or five-year plans; however, that is based on certain assumptions about situations which can always change. We've seen how freight logistics had a huge impact on trade flows and in turn, market footprints which were based on export models suffered significantly.

Thus, we believe in being closer to our markets and our customers. We think that it is a sound strategy. Our approach is not just to build one

massive plant and supply it all over the world. As a global manufacturer or a regional manufacturer, you would like to have more certainty about the availability of products or raw materials so as to drive your growth. In my understanding, being closer to the customers has made us one of the most globally local companies. This approach has helped us in various ways and has allowed us to be extremely agile and adapt quickly. I think this will remain a perpetual outlook because we've come to know that changes can be extremely dramatic and consequential!

WCI: *What is the main takeaway you want to give to our readers?*

SC: I just want to reiterate that the footprint of Bekaert in India will grow. The Indian tire market can be assured to be supplied with the best quality of steel tire cords locally, in line with their future growth plans, by Bekaert.

In the coming future, we will leverage partnerships to support the growth of Bekaert not just in India, but in the global markets. We now associate with several Indian firms for various global needs, be it in engineering, IT, technology, or so on. We will look forward to synergies in that direction to get closer to different regions, explore new markets, and expand in existing markets for different requirements.



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Group Nirmal @50: Looking Back, Moving Forward

Group Nirmal has an expansive product range comprising over 100 SKUs of different products including galvanized and black steel wires, aluminum conductors, ribbed wires, welding electrodes, and hot rolled steel products. Excerpts of an interaction with Mr. Nirmal Saraf, Managing Director, Nirmal Group of Companies:



Mr. Nirmal Saraf, Managing Director, Nirmal Group of Companies

Group Nirmal is an established quality manufacturer of world-class steel wires with an annual capacity of 1,80,000 metric tonnes and a 1,200-crore turnover operating in 7 state-of-the-art manufacturing facilities. Our main products are steel wires, with a focus on galvanized & ungalvanized steel wires, aluminum conductors, pre-stressed concrete wires and more.

As a group, our vision is to be constantly innovative while striving to be greener and more sustainable while maintaining the highest ethical standards. We focus on being a value creator that promotes inclusive growth- not only for us but also for our suppliers, customers, business partners and our nation at large. Rooted in Kolkata, it is our aim to rekindle and reestablish West Bengal as the predominant manufacturer of steel and steel products. To achieve this, we aim to establish our brand “NIRMAL” by achieving overall excellence, innovating continually, manufacturing the best

quality goods at optimum cost & surpassing customers' delight.

Reminiscing the Business Journey

Our journey began in 1971 with Shri Ramautar Saraf at the helm. Fuelled by the spark to create the best quality steel products in West Bengal, he established a small wire drawing unit under the corporate entity Central Store Supplies (P) Ltd incorporated in 1942 by his late father Shri Jhabarmal Saraf. After many years of hard labour and facing multifarious challenges, he kept the flame alive, and in the year 1985 put up a steel wire galvanizing plant under the corporate entity Nirmal Wires Pvt. Ltd incorporated in 1981.

In a few years, we established a flourishing business in the steel products industry mainly steel wires and rolled products. The Company is now meeting customers' needs in over 40 countries around the globe.

Moving from one milestone to another, we have now expanded our product range to over 100 SKUs of different products including galvanized and black steel wires, aluminum conductors, ribbed wires, welding electrodes and hot rolled steel products. Some of our wires and their vast applications include- Wires for producing Umbrella Ribs, various types of springs, wires for earthing, wires of staying, armoring of cables, and concrete re-enforcement wires. These wires are used in transmission, distribution & generation of power, security & protection, fencing, general engineering, and automotive, amongst others.

In a bid to service the retail customer, a distribution network has been set up. This caters to a wide range of consumers in the agricultural sector and the individual household sector. The predominant products reaching this

sector are chain link fence, barbed wire and galvanized wire. The retail segment also caters to the small requirements of industrial consumers providing goods such as welding consumables wire nettings. These are available at our retail counters.

We stand out in the wire & cable industry as a holistic solutions provider. We don't just guarantee product quality; we guarantee extensive after-sales service, and a robust customer feedback collection system to further our customer-first commitment. Recognised as leading innovators, we customise and re-invent to meet customers' requirements, without letting sustainability suffer in all our production processes. A dedicated quality team works round-the-clock to ensure the immaculate quality of finished products, thereby being true to the group's vision of maximising value for all stakeholders. All these factors have enabled us to build customer loyalty and trust, reinforcing our motto of quality-first.

The Way Ahead

Moving ahead, some new products have been recently

developed – ASTM Class C and Class B Zinc Coated wires. Globally, companies with the ability to manufacture these wires can be counted on one's finger types. Future product offerings include aluminum clad wires, low relaxation prestressed concrete wires and patented steel wires. Our future plans include attaining raw material security by establishing long-term relationships with our raw material manufacturers and by backward integration.

India is on a mission to be 'AatmaNirbhar'. To contribute to this goal the wire and cable industry needs to work hard to develop and manufacture products to substitute imports. To gain global leadership we need to make our products and services competitive in cost and unparalleled in quality. This, in our opinion, is the road ahead for 'Make in India' and Make for the World. India has all the prerequisites to be a dominant force in the global supply chain of steel & steel products. The international economic conditions are conducive, and customers are receptive to Indian products. The harvest is ready, all we need to do is work hard to reap it and bring it back home!



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Mikrotek executing Greenfield Project, Eyeing Massive Five-Fold Increase



B. Kamal Babu, Managing Director, Mikrotek Machines Ltd.

“
We use Lean Six Sigma, IoT, and Industry 4.0 effectively to deliver all customer required products in the wire drawing process. Mikrotek is all about Wire Drawing Dies to Draw More along with Precision with Economy! All under one roof for the Wire Drawing Industry!
”

Established in the year 1993, Mikrotek is one of the top five manufacturers of wire drawing dies and die polishing equipment in the world. As an ISO 9001:2015 certified company, Mikrotek is continuously moving forward in its vision to supply dies that meet customers' expectations. Wire & Cable India recently interacted with **B. Kamal Babu, Managing Director**, **B. Anitha Kamal, Director**, and **R. Manjunatha, Sales Manager, Mikrotek Machines Ltd.** to know more about their recent developments and expansion plans.

Wire & Cable India: To start with, please tell us about Mikrotek, its product range, and the new developments of the company.

Kamal Babu: Mikrotek is a very ambitious company with highly focused business goals and is continuously working hard to achieve them. Our objective is “If any wire drawing company from any part of the world needs a Die, we should be able to reach them quickly.

Mikrotek has a wide range of products for the wire drawing industry. Our product range covers all types of Dies, Die making machines, reconditioning of Dies, consumables and even training and consultancy.

WCI: How do you strive to fulfill the customers' expectations? Also, tell us how Mikrotek is different from its peers.

KB: The objective of Mikrotek is to provide its customers the products as per their various needs. We collaborate with our customers so as to gather valuable insights into their requirements and applications. Thus, it will pave the way to 'DRAW MORE' wire, which is our motto. One of the key advantages of Mikrotek, compared to all other peers in this industry, is the fact that we are a manufacturer offering



PRODUCTION PROGRAMME

- Straight Line Wire Drawing Machine (SLM)
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- Rod Preparation Systems
- Wet Drawing Machines
- Rod Break Down Machines
- Stress Relieving & Strand Annealing Furnace
- Stranding Machines
- Vertical Drop Coilers
- Spool And Coil Take Ups.

TURN KEY PROJECTS

- Plant For Stainless Steel Wire
- Plant For P.C Wire
- Plant For Galvanised Wire
- Plant For ACSR Conductors
- Plant For Ribbed Wire
- Plant For Bead Wire
- Plant For Spring Steel Wire
- Plant For MIG Wire
- Plant For Brass Wire



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world class quality at a very attractive price fulfilling another tagline “**Precision with Economy**”! We customize our products as per the customer demands in different areas and segments i.e., soft-wire and hard-wire.

We have established good presence in all types of materials ranging stainless steel, steel alloys, tungsten, aluminum, copper, gold, silver, platinum, etc

WCI: *Process efficiency is important for any manufacturing industry and for consumables like Dies, it is really important to save on the running cost. How do you help the customers on that front?*

KB: We use Lean Six Sigma, IoT, and Industry 4.0 very effectively to deliver customer-friendly products. We also discuss the technicalities openly with our customers and derive what is best for them. We might be the only company in the world with its own Center for Excellence – MCX wherein we not only upskill our workforce but also train our customers in deploying best practices so that the Dies are used for optimum benefit.

WCI: *What kind of attention and effort does Mikrotek make in R&D and skill development?*

KB: Die manufacturing while it is a small segment within the entire wire & cable industry, it has a critical role to play and contribute. Realizing this, we started our own R&D division fifteen years ago. Our R&D division is headed by a home-grown expert with three fulltime engineers. Dies being the heart of wire drawing, our team continuously analyses the Dies performance and makes innovations and improvements to stretch the limits of quality and reliability! We carefully observe the trends in the wire industry and stay in sync accordingly - in our operations and products.

One of our fine achievements is our proprietary 'Solid Rock Technology'—where Diamonds are sintered combining Nano alloy metal powders. This very special process helps faster heat transfer by which our Dies retain size and geometry for a longer time combined with wire drawing at better speeds!

The new developments of the company in the Die making are using newer and harder materials for high wear resistance and faster heat transfer, which in terms give longer Die life and higher productivity for our customers. Our machines are also being upgraded with more automation for higher accuracies and shorter cycle times. We have now added Nano Dies, Profile Dies and a complete range of Extrusion tools thus offering our customer a full range of Die products all under one roof!



B. Anitha Kamal, Director, Mikrotek Machines Ltd.

WCI: *Could you tell us about the international presence of Mikrotek?*

Anitha Kamal: When it comes to international presence, I can say that Mikrotek is playing a leading role in terms of Quality, Cost, Delivery and Safety and improving the footprint of Indian companies across the world. Further, Mikrotek is rapidly establishing itself as one of the most preferred brands for its product range! We are present in the USA, Mexico, Canada, Middle East, Southeast Asia and Russian markets covering more than 35 countries. We are fast getting into newer markets where we are yet to be represented.

WCI: *What is the share of your domestic and overseas market? What kind of challenges did you face when enhancing your footprint?*

AK: Over the last few years, around 40 percent of our products are consumed in the domestic market and about 60 percent are exported. We are working on increasing our international market share to 70 percent while 30 percent would be earmarked for the domestic market.

WCI: *Please elaborate on your future plans. What message would you like to give to your customers and your peers in the market?*

AK: We are in the process of building a new Greenfield manufacturing facility. We aspire to be the biggest manufacturer of Dies globally. We call this our 5X program, wherein we will have a five-fold capacity to help expand our horizons and cater speedily!

Post-COVID-19 pandemic, we foresee many opportunities for Mikrotek. We have taken strategic steps to expand ourselves into the Middle East and the American markets.



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Going forward, we will be having at least two service centers in India catering to domestic and Southeast Asia, two centers in the USA region and one each in Europe and the Middle East. Besides this, we're also considering new developments in the market, such as CVD diamonds and Nano-based products. We would assess their success with our customers and adapt to the new technology accordingly.

To our customers – the wire & cable manufacturers, I would like to say that the Indian wire & cable industry has a lot of opportunities and we would go a long way together. To our peers, I would say that a huge market is open to all where everyone has a place.



R. Manjunatha, Sales Manager, Mikrotek Machines Ltd.

WCI: *Could you shed some light on the sales strategy at Mikrotek?*

R. Manjunatha: We consider ourselves not limited to a supply of products but also a solution provider. In addition to selling, our priority is also in providing good services to our customers. To fulfill that, we give them a trouble-free experience. Our strategy is to keep our customers happy. We, as a sales team, are travelling all over the world, visiting our customers, understanding their increasing expectations and together making improvements in processes and products towards win-win situations. All our salespersons are well-trained engineers with thorough process and product knowledge.

WCI: *What kind of challenges are the customers facing and what are their expectations?*

RM: In some cases, the end users require some additional knowledge on best use of the product. They also need some education on managing quality and productivity related issues. These are some of the challenges.

Expectations

They look to us for support in providing them the guidance on best use of the dies and also minor maintenance. Being experts in wire drawing dies, our customers also expect us to guide them in improving their process for better quality and productivity.

WCI: *Could you shed some light on the types of training you provide to your customers?*

RM: We provide various types of training

1. MCX (Mikrotek Center for Excellence):

a. To our customers:

To educate the workforce of our esteemed customers, Mikrotek offers the following certification courses through MCX (Mikrotek Center for Excellence) program.

i. Foundation course:

This is for the fresh technicians over a period of 3 weeks. Here the candidates are taught basics of Dies, Die making and Die maintenance. On completion these candidates are equipped with hands on experience and are **ready to use** resource for our customers

ii. Refresher Course:

This is aimed at technicians experienced and engaged in Die maintenance. The duration of this course is one week. Here these experienced technicians have their knowledge refreshed and also trained in the latest tools and techniques in Die maintenance. On completion these candidates come out with increased knowledge and higher awareness of latest trends and best practices for the benefit of our customer organizations.

We test and give them a certification at the end of both the above programs.

b. For in-house personnel:

Talking about skill development, it is normal in the Die making industry, to train individuals on one particular task or operation. However, at Mikrotek, you will find a majority of our people who can comfortably perform minimum three tasks in production operations. This gives management more flexibility in better utilization of manpower and increased job satisfaction to our employees.

2. Customer end

On request of our customers, we also visit and conduct small seminars in their workplace or factory to teach

them best practices of Die usage and maintenance. We introduce our new products and discuss scope for process and product improvements.

3. Symposiums

We conduct periodic seminars and Wire Symposiums to educate the workforce of our esteemed customers about our products and help them to choose the right product for themselves.

This is an initiative by Mikrotek providing a larger platform for the all-round benefit of Wire manufacturing customers and associated business and technology partners. Here we invite our customers and also spokespersons and industry experts from the lubricant, wire, and machine manufacturing sectors. We bring them to a common platform so that our customers can ask them questions directly and get their queries resolved. We are planning two symposiums in 2023.

WCI: India is an evolving market. What kind of evolution have you seen amongst the wire cable manufactur-

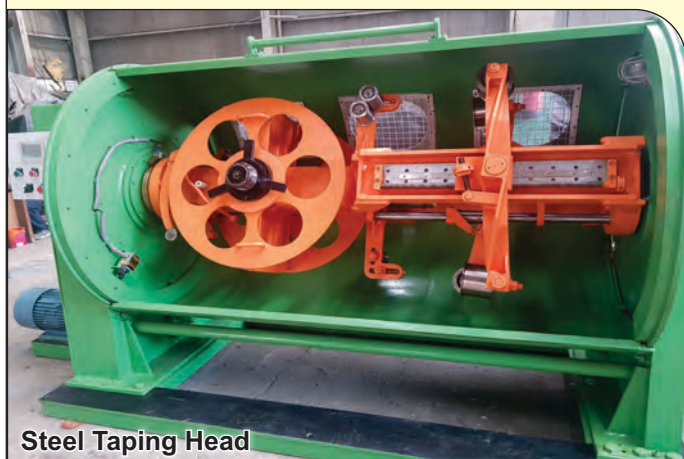
ers in India? And what evolution do you foresee in the coming time?

RM: The Indian market is fast catching up with world class quality as most OEMs are catering to global markets. This is giving an opportunity for the entire industry to upgrade themselves! There is a greater realization on the impact of human skill and well-established process to deliver fine quality. Mikrotek is investing hugely on educating the employees top to bottom on Lean, 5S, Kaizen for continuous improvements. Going forward we will consider competing for top Business Excellence recognitions!

Like every other area, our customers, the wire manufacturers, continuously become more quality conscious. The new generation engineers of our customers are open to education, innovation and under the guidance of their mentors thinking about efficiency and productivity. They quickly adapt to the suggestion of maintaining the quality of machines and utilizing the consumables very well. We will continue to educate our customers so that they adapt to a lean manufacturing system for a win-win situation. The developments happening around are very good for the Indian industry.



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Vidya Metal: Aiming to Expand Production Capacity by 2023



Mr. Abhinav Goyal, Director, Vidya Metal Mfg. Co. Pvt. Ltd.

“
Vidya Metal is the preferred supplier to major inverter & battery manufacturers (OEMs & Replacement), transformer manufacturers, Indian Railways, and major PSUs.
”

Vidya Metals is a part of VMI Group, which has been producing various copper products for the last 35 years. With its units at Jammu, Daman, Manesar, Bhiwadi and Pathredi, VMI Group has a team of highly experienced professionals with a strong work ethic. Vidya Metal Mfg. Co. Pvt. Ltd. (a part of VMI Group) has spread its wings in a diverse direction which include copper rods, copper wire, winding wires, copper strips & flats, fiberglass, foils, super enamelled wire and polycarbonate sheets, multiwall polycarbonate sheets, multicell panel sheets, etc. In an interview with Wire & Cable India, **Mr. Abhinav Goyal, Director, Vidya Metal Mfg. Co. Pvt. Ltd.**, talks about the interesting history of the company along with its product range.

Wire & Cable India: As Vidya Metal has to its credit a legacy spanning over four decades, kindly take us through the overview of the company, its specialisations, and the major milestones so far.

Abhinav Goyal: A part of VMI Group, Vidya Metal Mfg. Co. Pvt. Ltd., was established in 1991 for the production of Rods, DPC and Bus Bars in a state-of-the-art unit. In 1997, the company opened its first partnership unit in Daman to produce copper winding wires, Ess El Cables Co., to cater to the needs of customers in the western and southern states. We set up Alliance Copper Concepts Pvt. Ltd. in 2008 to deliver our customers the best quality products at the most reasonable prices from one of the most economically strategic locations - Jammu. In this unit, we started manufacturing copper winding wires, ranging between 8-SWG to 40-SWG. These wires are insulated with a variety of wire enamels, e.g.

polyester, modified polyester, polyesterimide (hermetic) and dual coat (Imide-amide).

In 2016, we inaugurated our first 'Aluminium Only' plant in Bhiwadi with a capacity of 1200 tonnes per annum. Today, we are producing 10000 tonnes per annum, aiming towards 12000 tonnes by 2023. We have, very quickly, diversified our portfolio into various products such as aluminium foils, paper covered strips, fibre glass insulated strips and enamelled wires and strips. We aim to become a one-stop-shop for the electrical industry. Our focus is on increasing our capex on R&D, exports and software integration in the next 2 years.

WCI: Describe the product portfolio of the company along with its distinct features and applications.

AG: Vidya Metal, under the brand VM Insulation, has spread its wings in a diverse direction. In a very short span of time, we became one of the

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GROWTH PLANS



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largest manufacturers of aluminium winding wire & strips for both industrial and automotive applications in the Indian electronic industry. In India, Vidya Metal is the preferred supplier to major inverter & battery manufacturers (OEMs & Replacement), transformer manufacturers, Indian Railways and to major PSUs along with applications such as cooler-fan & motors (AC/DC), compressors & pumps, generator & traction motors, power tools, and welding equipment.

We control all aspects of the production and logistic chain, thereby ensuring tailor-made solutions, JIT (just in time) delivery, and precision quality every time and these are the various features and benefits that attract our customers to us. We are an ISO-certified and UL-approved company.

WCI: Please shed light on the manufacturing and technological capabilities of the production facility. Are there any plans for undertaking capacity expansion?

AG: Vidya Metal became one of the first companies to catch the market trends and diversify its products into aluminium. Currently, our production capacity is 10,000 tonnes per annum,

and we aim to make it 12,000 by 2023. All its plants are certified with ISO 9001: 2015. To maintain strict quality standards, the company follows a series of methodologies such as 5S, TQM (Total Quality Management), 6 Sigma, Traceability, Production Part Approval Process, etc. Our lab testing equipment includes Inline Dimensional Tester, Inline Pin Hole Tester, Hot Air Oven, Cut through Tester, 3 KV DC Pin hole Tester and Tan Delta Tester.

WCI: As Vidya Metal is a prominent provider of enamelled winding wires, share your outlook on the different demand drivers and

market trends in this segment.

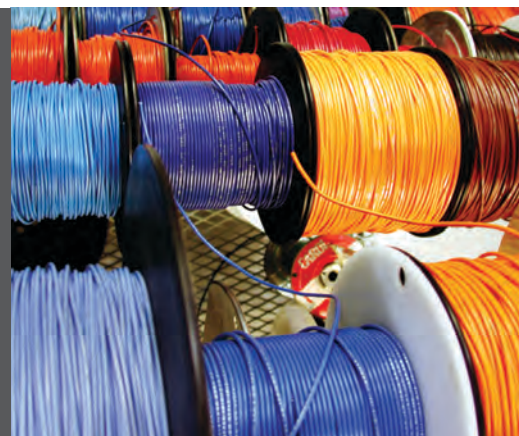
AG: There has been an increase in the demand for aluminium wires in India. With properties such as price, weldability, flexibility, conductivity, bending ability, and mechanical strength, aluminium is an important metal in the automotive, transformer, electrical and winding sectors. Other demand drivers include a rise in smart grid infrastructure, increasing use of submersible winding wires and growth of T&D infrastructure. I see a lot of growth as OEMs are ramping up their R&D to switch from copper to aluminium.

WCI: Could you please talk about the current market presence of Vidya Metal? Also, talk about your plans with respect to expanding your reach to newer markets.

AG: Collectively, we have four plants across India out of which our main plant is in Pathredi which is focused only on aluminium. With the help of its distributor network, the company is present in almost every part of India. We have exported our products to various countries such as Japan, Nepal, and Bhutan. In the near future, we are planning to expand our export potential and penetrate new markets.



VMI Manufacturing setup at Bhiwadi



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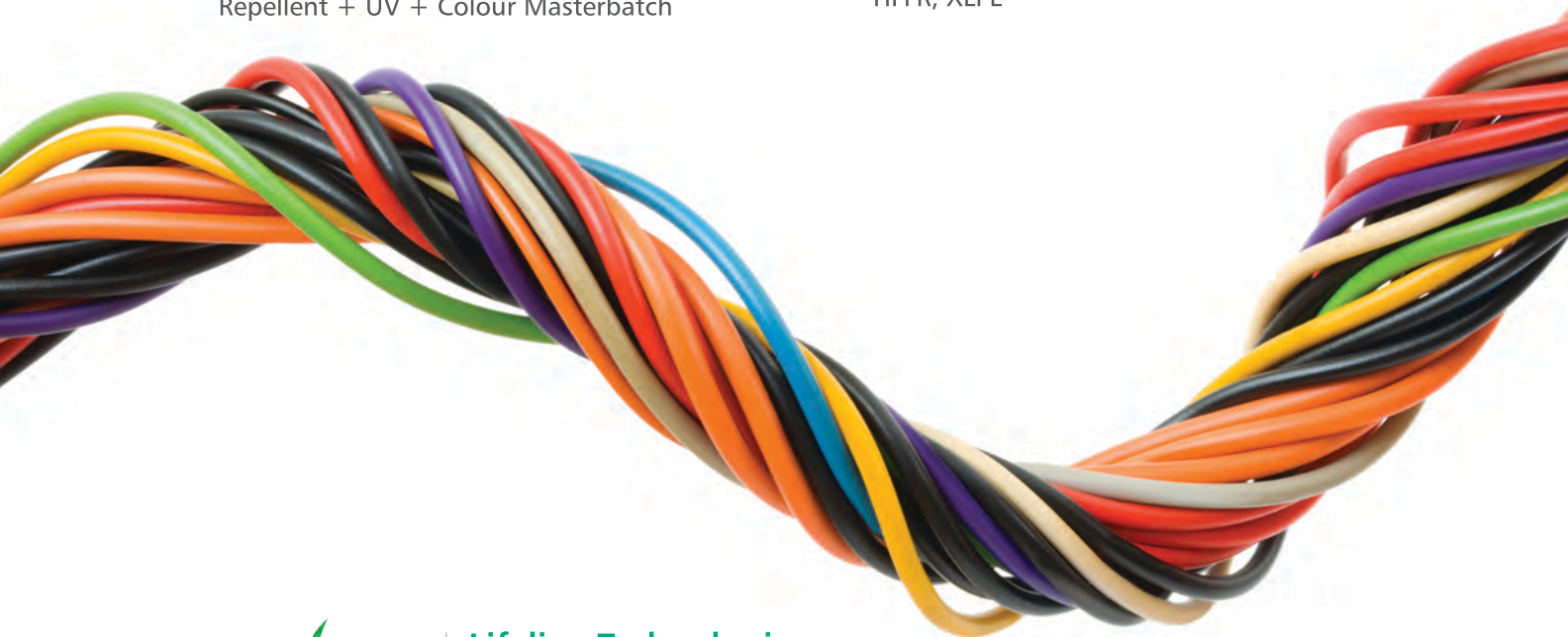
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ACIMAF: Taking Italian Craftsmanship to the Global Wire Industry



Mr. Ferruccio Bellina, President of ACIMAF and TKT Group S.p.A.

ACIMAF was founded in Brescia, Italy, in 1987 for the purpose of promoting the image of Italian technology in the field of machines and products for the wire and cable manufacturing industry. A member of ACIMAF, TKT Group has been operating in the wire manufacturing industry since 1945 and claims to be the only supplier in the world to provide an entire range of consumables for the wire drawing industry. In an interaction with Wire & Cable India, **Mr. Ferruccio Bellina, President of ACIMAF and TKT Group S.p.A.** shares details about ACIMAF and his company TKT.

“
Our future plan is to develop our presence in the markets, not only through direct sales from Italy but also by starting production... The Indian market is also one of the destinations which we are currently considering for expansion
”

Wire & Cable India: Please tell us about ACIMAF. Which are the main markets served by your member companies and what future do you foresee?

Ferruccio Bellina: Associazione Costruttori Italiani Macchine Per Filo (ACIMAF) was founded in 1987 to group all the main Italian companies in the wire & cable industry. Our association is very active in promoting expert knowledge of the sector all over the world. We have 72 member companies and most of these companies export more than 80 percent of their products. ACIMAF, together with the Italian Trade Agency (ITA), is participating in many international events.

We serve all over the world including Asia, Europe, North America, and South America, and cover every segment of wire & cable starting from the wire rod to the end products



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comprising all kinds of machinery and consumables. Last year, we improved the presence of Italian companies in different countries like Thailand, India, and Brazil, among others.

After the COVID-19 pandemic outbreak, we were not in the condition to travel and develop the business as usual. Today, we are facing other big problems such as energy costs, the Russia-Ukraine War closing some markets that were quite important for our members, and also the fact that some special parts in the machinery (electronic and electrical) are very difficult to find. I think we are going to face uncertain times and the companies will need to forecast future developments besides being really strong in their budget.

WCI: *Could you shed some light on your company TKT Group and its manufacturing facilities?*

FB: TKT Group has been active since 1945 in the wire drawing field. We are a small group of companies specialised in the consumables for the production of wires & cables. As they form a closely integrated operating unit, TKT Group is one of the few suppliers in the world that offers an entire range of consumables for the wire drawing industry. One of our companies, Tecnovo is specialised in all kinds of wire drawing lubricants including dry, solid, and wet. Another company, Koner is the producer of tungsten carbide dies. Tecnosider produces wire pulling-in-dogs, spiral brushes, wire straighteners, etc. We provide complete services to our customers for consumable products.

We have four production facilities. Three of them are located in Italy and one is in East Europe. We have a good capacity because we invested a lot in the past years to improve our production facilities and automatise our lines. We have been able to increase our capacity, keeping the energy cost at a relatively low level.

WCI: *Tell us more about your product range. How do you think your products are better than your peers in the market?*

FB: Speaking about wire drawing lubricants, we were the first to introduce borax-free products in the market. That was a very important step forward and we have been doing this for more than 10 years. Our products are very much experimented with and tested by all the main customers. It was also an important development for us because from January 1, 2023, the use of borax will be forbidden in Europe and only 0.3 percent will be permitted by the law. Otherwise, you have to mark your products with the advisory that the product causes cancer and infertility. Our plants are completely borax free, not only for our customers but also for our workers and employees. And I think this is something that put us on the top level of the wire drawing lubricant producers.

WCI: *TKT Group has a long history of serving the wire & cable industry for more than 75 years. Tell us the milestones of your company.*

FB: In 1945, we became the first company in Italy and one of the few in Europe to start the specialised production of wire drawing lubricant. Another milestone was when we started a new company to produce tungsten carbide dies. Putting together the deep knowledge of the wire drawing lubricant together with the dies is giving us a real advantage in terms of knowledge of the customer problems.

WCI: *What kind of presence does your company have globally?*

FB: Our Company exports around 85 percent of the turnover. And we export all over the world including the USA, New Zealand, India, and South America. The new developments are related to improving the lubricant capacity. In the die segment, we have developed new qualities that are working very well with micro powders, improving the hardness and tenacity. Moreover, we have developed a very smart system that allows us to recover the tungsten carbide completely. We are able to recycle tungsten carbide and sell it in the market – which is environment-friendly besides being cost-efficient.

WCI: *What are your future plans? Also, how do you look forward to the Indian market?*

FB: Our future plan is to develop our presence in the markets, not only through direct sales from Italy but also by starting production in certain markets that we have already identified, such as in Asia and North America.

We have established a good presence in the Indian market. In our understanding, it is a very interesting market and also one of the regions which we are currently considering and assessing for further expansion. We have a distributor with a warehouse in the country as well as several customers who have been using our products for years.

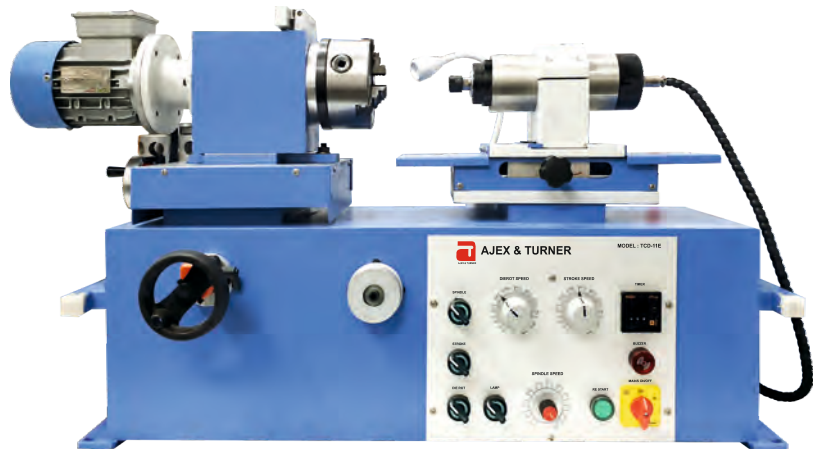
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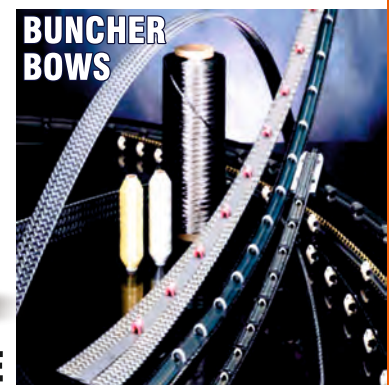
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Borouge: Providing Innovative Cable Material Solutions for Tomorrow's Digital Infrastructure



Mr. Jong William, Vice President of Energy and Infrastructure, Asia South, Borouge


Borouge has been serving customers in 50 countries worldwide since 1998 with its creative polyolefin solutions for a wide range of industries, including energy and infrastructure. It is a strategic partnership between Abu Dhabi National Oil Company (ADNOC) and Borealis, one of the world's leading providers of polyolefin solutions and base chemicals, employing over 3,100 people. Borouge deploys unique technologies that provide innovative and value creating polyolefin solutions for a wide range of applications, with a strong focus on the wire and cable portfolio. Since the launch of the 'Digital India' programme, a digital transformation has been underway to bridge the digital divide across the nation. This includes connecting rural areas with high-speed internet networks and advanced digital infrastructure. At the same time, fibre optic cable manufacturers are bracing themselves to meet the increase in demands brought about by fiberisation, 5G services and fibre-to-the home (FTTH) fixed broadband. In an interview with Wire & Cable India magazine, **Mr. Jong William, Vice President of Energy and Infrastructure, Asia South, Borouge**, shares the recent developments at Borouge, the outlook for fibre optic cables, and the company's plans for the Indian market.

“
Innovation is embedded in our DNA – we have over 1,000 active patents which allow us to offer innovative polyolefin solutions for the wire and cable industry.
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Wire & Cable India: *Can you share with our readers what are some of the recent developments at Borouge?*

Jong William: At Borouge, we are always looking at ways that we can enable everyday life and add value to the whole cable and wire value chain with our differentiated polyolefin solutions.

One of the new material innovations that Borouge and Borealis have brought to the fibre optic market is a low-shrinkage laser printing jacketing material. This new material allows fibre cable manufacturers to produce at higher line speeds with a lower wall thickness. At the same time, it ensures excellent adhesion resistance properties for printing identification.

We have also increased our production capacity for fibre optic jacketing to support our future-proofing efforts. We expect significant growth in the fibre optic cable market due to increasing investments committed to the fifth generation of cellular technology networks (5G) and installation of optical fibre from data centres to individual buildings or homes.

Borealis' acquisition of DYM Solutions, the South Korea-based manufacturer of compound materials for cables, also helps us to expand our production capacity for specialised Flame Retardant cable compounds and semiconductors for the power cables in our portfolio.

All of these recent developments allow us to better serve our customers in the Asia region.

WCI: *What is your outlook on the global fibre optic cable market?*

JW: After several years of low market demand for fibre optic cables, we foresee healthy global annual growth for the next four years. This growth is likely to be led by three main factors:

- **Fibre to the Home (FTTH):** FTTH has been gaining traction in Europe and the United States and remains integral for future demand. FTTH is a reliable access network method that delivers the highest possible Internet connection speed by using optical fibre directly into homes, buildings or offices. This will also apply in India as the BharatNet project is creating an extensive network infrastructure that provides broadband connectivity for homes and institutions in far-flung villages and areas. The BharatNet project is set to be the world's largest rural broadband connectivity programme using optical fibre.
- **Investments in 5G:** This will trigger demand for fibre optic cables as they are required to enhance network connectivity by facilitating millimetre wave frequencies with high-speed broadband connectivity. To give us a sense of the market opportunity, telecommunications giant Ericsson is expecting 5G subscriptions to reach 4.4 billion by the

end of 2027 from the forecasted 1 billion at the end of 2022.

- **Higher data consumption:** With the increasing usage of smart devices, an adaptation of advanced technologies, and businesses ensuring their online operations are uninterrupted 24/7, capital investments in data centres are likely to spur demand.

WCI: *What kind of trends do you foresee taking shape in the wire and cable sector?*

JW: The total cost of ownership (TCO) throughout the entire value chain will become more critical. TCO refers to the overall lifetime cost of manufacturing, installing and operating a solution or product.

Cable manufacturers want to use innovative solutions that provide a high level of efficiency and consistency with low scrap levels. Meanwhile, operators and owners of fibre optic networks are looking to streamline the installation process and reduce maintenance costs. It is critical for players in the entire value chain to work closely together to find solutions that focus on the entire cable system lifecycle and optimise the total cost of ownership. The Borouge jacketing materials are designed to provide the most optimal TCO for the entire value chain.

On a macro-economic level, we are likely to see inflation, commodity price levels and glass fibre shortages lifting the price levels of fibre optic cables. As a result, import duties or minimum local content requirements will likely be imposed, bringing about more supply chain and logistic issues. Therefore, it will become more important for cable industry players to 'think global, act local'. This means businesses will have to adapt their operations and offerings to stay relevant to the individual markets they serve, without losing an eye on the global trends.

It is undeniable that we are operating in a rapidly changing environment. Yet, Borouge remains confident that with our specialised solutions, coupled with our industry expertise, we can help our partners and clients to navigate these challenges and turn them into opportunities.

WCI: *Do you identify any differences between India and the global fibre optic market?*

JW: The fibre density in India is currently below the global average. Bearing that in mind, we are also witnessing a surge of investments in telecommunication, especially with 5G and fibre connection for the rural villages in India. The announcement of several large-scale projects in the pipeline will create more demand for fibre optic cables in the next few years.

Some of these key projects include:

- India's first 5G spectrum auction that concluded on 1 August 2022;

- The next phase of the BharatNet project which will see 360,000 rural villages being included under the Indian government's rural broadband connectivity programme; and
- Airtel Xstream Fibre's plan of expanding its reach of installed home broadband into India's 40 million households by 2025.

Based on forecasts, we can expect India's domestic fibre optic cable market to be the largest in the world after China and register double-digit growth from 2022 to 2025. Beyond establishing domestic market growth, the Indian cable manufacturers will look into expanding their international footprint with high-quality fibre optic cable solutions.

This is why we have identified India's fibre optic market as a strategic location for Borouge's subcontinent growth story. We will continue to extend dedicated commercial and technical support to this market to help develop enhanced solutions for our partners and stakeholders.

WCI: How do you keep yourself ahead of your peers in the industry?

JW: Our commitment to innovation and close collaboration with our partners and customers keep us ahead of the competition.

Innovation is embedded in our DNA – we have over 1,000 active patents which allow us to offer innovative polyolefin solutions for the wire and cable industry. Our state-of-the-art Innovation Centre, located in Abu Dhabi, focuses on developing new innovative polymer solutions for infrastructure, advanced packaging, energy, mobility, agriculture and healthcare sectors in close partnerships with Borouge's customers throughout the value chain. This ensures specific customer requirements are met.

The other secret ingredient to our success is the close collaborations with partners along the entire value chain. Our value-chain partnerships see some of the best minds in the wire and cable industry and at Borouge, come together to build value for our customers. The wire and cable industry is a customer-centric business, and only when we collaborate with one another, we can provide reliable, efficient wire and cable solutions for a sustainable tomorrow.

Mr. Jong William has over 25 years of experience across multiple disciplines in the petrochemical industry. He started his career at Borouge as regional sales manager for wire & cable, packaging and pipe, where he played an instrumental role in accelerating the expansion of the Sales team across Asia South to support Borouge's production growth.

Customizing Your Extrusion Needs

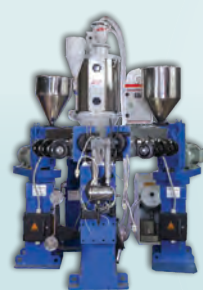


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- Optical Fiber Extrusion Line

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- Powder Applicator
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Screw & Barrel



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SEPL
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Near Mathura Road, Faridabad 121002
Email Id: info@saiextrumech.com

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(Sr. Sales & Marketing Executive)
+91 9560706506

Orbit Wires Looks at New Geographies for Business Expansion

One of the core purposes of the company is to build long-term relationships with people and organisations across the globe.



Orbit Group Of Companies is a renowned wiring and cabling solution partner, established in 1996. The Company has dominated the trade and engineering of wires and cables for over two decades with dynamic and pioneering technology. Orbit Wires India Pvt. Ltd. is envisioned to expand the business across geographies and increase its visibility among the end customers by enhancing its deliverables and setting benchmarks at every step of its journey.

Established in 1996, the company has extended its products and services to clients across the country with its timely deliveries and high-performing electric solutions for diverse applications. Orbit Wires offers house wiring, power cables, control cables, instrumentation cables, solar cables, welding cables, submersible flat cables, round cables & communication cables, and aims to be a one-stop enterprise that manufactures and sells a variety of wiring and cabling solutions for diverse applications.

With its manufacturing facility located in Gujarat, the company strives to be an innocuous company with safety as its precedence and aims to have zero accidents. It has proactively worked towards creating brand credibility and recognition by maintaining the industry standards of its

products. The company aspires to be one of the best cable manufacturers in the country and establishes its brand identity through quality product delivery at a competitive price.

“We, at Orbit, believe in inculcating and creating shared value. We look for the good of the Company and society at large. Our success Reflects on our capabilities to tend to the specific needs and requirements of our clients and high-quality products, Orbit Wires India Pvt. Ltd. is envisioned to pursue more geographies and increase visibility among the end customer by enhancing our deliverables and setting benchmarks at every step of our journey upwards,” says Mr. Amit Agarwal, Chairman, Orbit Wires India Pvt. Ltd.

“Orbit Wires India Pvt. Ltd. has worked towards finding new technologies and techniques that can improve the performance of the cables and wires. Our expert developers conduct extensive research followed by rigorous testing to design new and modern electric solutions for our clients. From fire retardant cables to PVC Cables specifically designed to work higher voltages certified under ISO 9001: 2008 IN 2010 and ISO 14001, Orbit Cables have exceeded expectations with their innovative designs that ensure high conductivity and safety,” he added. ■



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"With the long experience in this field as ex-Director at Cortinovis and later at Lesmo, I can say with the utmost confidence that while based in India, AEI equipment easily is comparable to the best European machines as their quality, workmanship and technology is second to none."

- Mr. Giovanni Cecchini



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Believing in Creating Long-Standing Partnerships in View of Innovations

NAVANK works synergistically with its OEM Partners for the designing and development of innovative solutions which could prove beneficial in terms of efficiency for the customers. Moving ahead, NAVANK would continue to identify and partner with such innovative companies. Excerpts of the interaction with Mr. Naval Singhal, Chief Business Officer & Director, NAVANK Holding BV:



Mr. Naval Singhal, Chief Business Officer & Director, NAVANK Holding BV

At NAVANK, our main focus has been on promoting superior raw materials (tapes and polymers) manufactured by our OEM Partners for the cable industry in the Indian market. Earlier this year, we established NAVANK Cable BV in the Netherlands (Europe), in the bid to promote our partners and their products/services in Europe and the US market as well.

Creating and Sustaining Long-Term Synergies

Additionally, we have partnered with Unitape, a UK-based ECCS tape manufacturer, offering an innovative tape containing CJB (controlled jacketed bonding) and has a huge

demand in the US market. In recent months, the demand outlook in the Indian market has also been picking up for this innovative product. In Q2FY22, we tied up with Bengaluru-based Chhaperia International Company, the largest and most renowned Indian manufacturer of Mica tapes, to promote their products in Europe. We have a longstanding partnership with Nantong Siber since 2013 for water-blocking tapes & yarns and now focusing on the power cable market as we already have more than 80 percent of the Indian market for FO communication cables.

Since 2009, Kemaite China has been our OEM partner, which is a Specialty Tape manufacturer (Cu/Al-on-Polymer-film) with their R&D team in Germany. There is a huge demand for Kemaite products in FOC, data cable, and now, we are entering the power cable market as well.

Partnership with Wanma

Since 2015, NAVANK has been OEM partner of Wanma China, the largest Cable Compound manufacturer in Asia. We are now focussing on specific Polymers like HDPE and XLPE for the communication cable and power cable market after capturing a large part of the Indian market for LSZH in the data cables and optical fibre cable, meeting

various international standards like UL1581, IEC60332, IEC60092, DIN72551, SAEJ1128, etc. In my understanding, the cable market has been expanding year by year, looking for innovations in cable design which our customers are focusing on. In 2022, there has been a lot of focus on solar & other UL cables; thereby, bringing a huge demand for Wanma's FR XLPE and Master-batches for the power cable market. Similarly, for the optical fibre industry, our customers have started focusing on exports to the US and UK markets as there has been a shift of manufacturing from China to India. This has generated a huge demand for steel armoured cables with a focus on jacket bonding. I think this trend will continue into 2023-24 as well.

Wanma started their HV project (XLPE 110 kV+) in 2009 and within a year, i.e., by 2010, they had filed two national invention patents. In the following year, the Company installed the Buss Compounds machine with a capacity to produce 20,000 T per year. By 2015, Wanma had started the production of 220 kV compounds and super-smooth semi-conductive compounds. By 2020, Wanma became the leader in the market and the largest manufacturer in Asia.

While there have been various kinds of innovations in the cable industry this year, it has also brought newer

challenges in the market. We have seen most of our customers which have been struggling with some of the regular products like HDPE and XLPE (110 kV/200 kV) due to supply chain issues with some of the largest polymer manufacturers from the USA as well as Europe. To overcome the issue of relying overtly on one supplier, we have started promoting HDPE and XLPE from Wanma. For this, we've been receiving a good response due to its high-quality material & large capacity plant. For cable manufacturers, Wanma will continue to work to optimize their supply chain with a lesser focus on only one supplier and with a wider outlook. The companies are already redistributing their sourcing to multiple vendors, both from abroad and locally.

The Way Ahead

There's been a major demand by



operators and cable laying companies for relatively smaller and thinner cables. Hence, we are working closely with all our partners to design and develop such products across our portfolio. Further ahead,

NAVANK will continue to identify and partner with Innovative Manufacturers so that NAVANK can offer cost-effective solutions and solve specific problems of telecom and power cable companies, globally.



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Italian Excellence in the Cable Industry Solutions for Medium Voltage Insulation

Mixer S.p.A. combines the quality of Italian excellence, where each single detail matters, with the passion for innovation. Closely collaborating with its customers, Mixer S.p.A. uses its acquired know-how and expertise to offer state-of-the-art technology and performance of compounds. Its product brand, EKOPREN® includes a wide variety of solutions for insulation, sheathing and bedding for the cable industry. The extent of the offer is clearly shown by the numerous applications including automotive, offshore, photovoltaic and mining, low and medium voltage. In particular, medium voltage cables provide an optimized and long-lasting service life in varying circumstances, resisting environmental exposure to water, oils, flame, ozone or UV, while maintaining the highest levels of electrical performance.

In this perspective, the maximized cleanliness and high quality of the insulation compounds are essential as well as a good match with the semi-conductive layer to grant electrical integrity. Mixer S.p.A. has a consolidated experience in providing these materials to the cable industry since the company has been producing blends based on EPDM and EPDM/PE for this purpose since 1996, and today has become one of the world's leading compounders for medium voltage insulation, with a dedicated line for these products.

Development of Lead-Free Products






More than ten years ago, Mixer's pioneering vision led it to conceive and promote fully lead-free products for medium voltage insulation, with an environmental-friendly approach, which allows achieving optimum insulating performances in compliance with the lead-free directive, - RoHS regulation - necessary to access the European market.

Today, Mixer's range of products for this market segment is comprehensive. The company's product offering includes hard or flexible products covering an operating voltage from 6 to 95 kV for single-core or multicore cables, with lead and lead-free versions. Mixer's EKOPREN® Medium Voltage grades are suitable for operating temperatures of 90°C and 105°C, in addition to being compliant with the international standards, UL 1072 and ICEA S-94-649-2013.

Rubber-Based, Medium-Voltage Compounds

In addition to the standard medium voltage insulation compounds, Mixer S.p.A. has developed a series of

EKOPREN® MEDIUM VOLTAGE INSULATION COMPOUNDS 6-95 kV

UP TO 20 kV	APPLICATION	TS MPa	EB %	DENSITY g/cm³	HARDNESS SHORE
EKOPREN® 3IS73L	HEPR	11	300	1,24	83 (A)
EKOPREN® 3IS75L 	HEPR	11	300	1,22	85 (A)
UP TO 35 kV	APPLICATION	TS MPa	EB %	DENSITY g/cm³	HARDNESS SHORE
EKOPREN® 3IS01I	EPR	9	200	1,20	68 (A)
EKOPREN® 3IS01S	EPR/FAST CURING	9	200	1,22	67 (A)
EKOPREN® 3IS03I 	EPR	9	200	1,16	70 (A)
EKOPREN® 3IS73F	HEPR	11	300	1,20	82 (A)
EKOPREN® 3IS75F 	HEPR	11	300	1,18	82 (A)
UP TO 69 kV	APPLICATION	TS MPa	EB %	DENSITY g/cm³	HARDNESS SHORE
EKOPREN® 3IS69I	HEPR	11	300	1,21	85 (A)
EKOPREN® 3IS74F	HEPR	11	300	1,18	82 (A)
EKOPREN® 3IS79F 	HEPR	11	300	1,19	85 (A)
UP TO 95 kV	APPLICATION	TS MPa	EB %	DENSITY g/cm³	HARDNESS SHORE
EKOPREN® 3IS72I	HEPR	11	200	1,17	80 (A)
 LEAD FREE					

compounds, driven by customers' needs, up to 65 kV, which can be processed in standard XLPE lines. This exceptional result allows all the companies manufacturing XLPE cables to produce rubber-based, medium-voltage cables, without refitting their machinery. Moreover, constant investment in its research and development has enabled Mixer S.p.A. to offer compounds for special applications such as downhole well pumps.

To provide a complete package for medium voltage applications, Mixer S.p.A. can also suggest a proper match with the semi-conductive shields, since the company has tested the compatibility and peelability of semi-conductive shields with EKOPREN® products.

TPV Technology for Medium-Voltage Insulation

The study & development of thermoplastic insulation based on TPV technology for medium voltage insulation epitomizes the mindset of continuous growth and innovation. In 2016, Mixer S.p.A. presented a paper introducing

this technology by A. Galanti, S. Dossi, A. Magri and C. Cardelli, titled, TPV based insulation for medium voltage applications, at IWCS 2016. The research on this new material continued exploring the relationship between the ultimate properties of the compounds and the microscopic structure. The results of this investigation are reported in the latest paper published by F. Ciardelli, S. Dossi, A. Galanti, A. Magri and S. Riolo, titled, Molecular evolution during dynamic vulcanization of polyolefin mixtures for lead-free thermoplastic vulcanized, at Polym Adv Technol. 2020.

Conclusion

Mixer S.p.A. contributes to the growth of the cable industry through cutting-edge and cost-efficient compounds. The company's technology, developed completely in-house, is focused on efficient and competitive solutions, which are the key elements of the company's portfolio. ■

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Doubling the Capacity of Strip Mills

The German machine-making company FUHR is well known for its competence in the field of cold rolling machines. The portfolio covers everything from pay-offs via rolling stands to inline measuring systems and take-ups. FUHR's specific strength are customised turnkey machines built from standardised approved modules.

There are only a handful of machine builders for cold rolling machines worldwide and amongst them FUHR is covering the widest range. Cross sections start from 0.1 mm² and end at 1000 mm². Materials are ferrous, non-ferrous and precious metals such as low carbon, high carbon and stainless steels, copper, aluminum and their alloys, gold, silver and titanium.

A specialty of FUHR is rolling mills for complex shaped wires, but also narrow strips from 2 mm to 30 mm width and 0.1 mm to 1.5 mm thickness are an important field.

Traditionally there are two different methods to produce narrow metal strips:

Slitting wide strip coils

Cold rolled strip coils in typical widths between 500 mm and 2000 mm are fed to longitudinal slitting lines. The slitter uses two sets of sharp



Rotary shear



Stack of slit strips

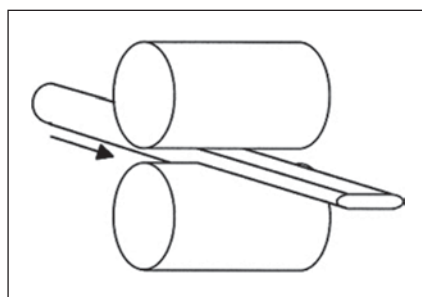
rotary blades where the width of the blades equals the width of the strips.

At the slitting line's exit the single strips are wound to tape style coils. The length of each coil is identical to the length of the initial wide strip coil.

The precision of the slitted strip is good, but the shearing process creates burrs even if the rotary blades are kept in good condition. Costly single strip edge trimming processes are required to smoothen the edges or create defined edge forms.

Rolling from wire

Hot rolled rod or drawn wires are the feedstock for the rolling process. Typically, a combination of 2Hi horizontal flattening stands and vertical edge rollers is used. The strip's edge form is defined by the edge rolls' groove design. The edges are smooth and free of burrs.



Strip rolling

The strips are layer wound on reels. Alternatively, coreless layer wound coils can be produced. Compared to the tape-style coils of slitting lines the length of strips rolled from the



Layer wound coil

wire is virtually endless and only limited by the take-up's capacity. This advantage has been the motivation for many strip rolling mill installations because the consumers of the strip are enabled to run their machines for many hours without interruption for coil change.

Combined rolling and slitting

The great advantage of rolling huge production lengths with defined burr-free edges as opposed by the higher productivity of slitting lines was FUHR's inspiration to develop a concept which combines the best of both processes where the wire is rolled to strip and finally slit into multiple strips.



Slitting the strip

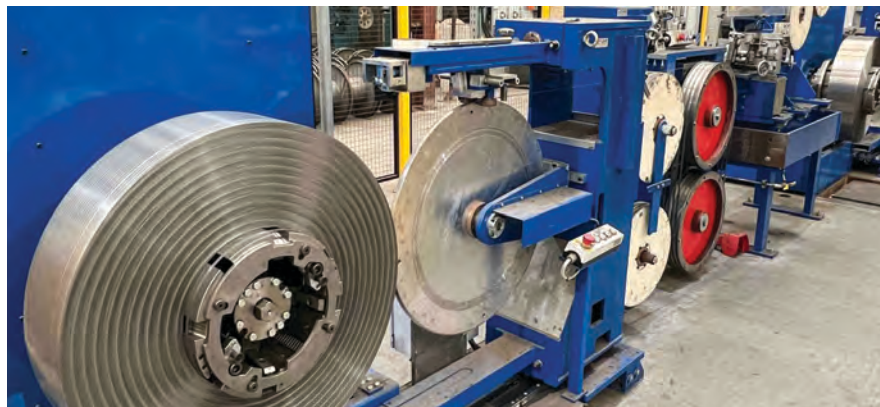
The development of this innovative process was supported by the German Federal Ministry for Economic Affairs and Energy. The most challenging part was the design of the shearing rolls and the selection of their material because the lifetime of the shears should be much higher than in classical slitting lines.

INDUSTRIAL APPLICATIONS

End of 2021 the first combined rolling and slitting line was installed by FUHR. It produces two aluminum strips of 3/8" width at thicknesses of 0.015" to 0.030" which are used for cable armoring. The line is fed with a 3/8" diameter hot rolled aluminum wire rod of the 5000-series. Compared to a single strip rolling mill, the duo strip mill doubles the production capacity while labour costs are constant, and the machine price and its space requirements are only 30 percent higher. Moreover, the energy costs per ton of produced strip are drastically reduced.

Future enhancements of the combined process

The first installation was a proof of concept which will now be deployed



Two strip coilers

to applications for different materials and end uses. Aluminum and Copper strips are used for example in the production of finned tubes for heat exchangers and for cable shielding. Copper strip is used for bus bars in photovoltaic modules. Strips from steel and stainless steel

are widely used in many industries.

The number of strips is not limited to two and can be enhanced.

FUHR is encouraging strip makers and end users to get in touch and discuss the feasibility of combined rolling and slitting for their product. ■



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DUPLAST® Develops Lead-Free Calcium Zinc Stabilizers for PVC Applications

Along with CAZN stabilizers, DUPLAST® has also developed PVC plasticizers, Speciality Carbon Black & PVC additives. The Company has a dedicated technology development centre for product development and process optimisation.



Calcium Zinc based stabilizers are a green replacement for lead-based stabilizers for all PVC applications. The combination of metal salts leads to effective stabilization in PVC processing stability and long-term stability.

DUPLAST®, in due course of time, has developed a speciality in CAZN stabilizers completely replacing lead in all aspects (process & long term stability). The CAZN stabilizers by DUPLAST® have the advantages of good heat stability and initial colouring property. They also have excellent processing performance and a wide processing range.

DUPLAST® has a range of plasticizers for all PVC applications. Carbon Black from DUPLAST® is specially formulated to suit PVC compounding. It is preblended with proprietary additives to give it better dispersion, colour and finish on cable.

DUPLAST® along with its group company ATHYS™ has developed range of FIRE RETARDANT and SMOKE SUPPRESSANT additives.

ATHYS™ has developed a range of Synthetic Aluminium Tri Hydrate suitable for ZHFR, FR & FRLS PVC compound at high filler loading also. The particle size of ATH and surface finish of the wire & cable is upto the mark against imported ones. Ground ATH from ATHYS™ has better thermal stability and good processing performance.

FIRE RETARDANT synergist SAT-07 is an antimony-based product, which has better or comparable performance in flame retardancy against Antimony Trioxide. It also has less smoke and costs less.

The company has set up a technology development centre, which is mainly responsible for the development of new products, improving the current manufacturing process, process optimization, quality control, as well as supervision of raw and auxiliary materials and finished products. To sum it up DUPLAST® and its group company ATHYS™ are technology driven company involved in development of additives for polymers resulting in better polymer compound performance and cost optimisation also.



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REGISTERED ADDRESS:
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New Delhi - 110019, INDIA

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Erocarb: Housing an Extensive Array of Customised & Standard Solutions for Cable Industry



Mr. Navin K. Agarwal, Managing Director, Arunav Technology & Systems Pvt. Ltd.

Through the years, Erocarb SA has ascertained the specific needs of the cable industry for which it brings various lines of equipment suited for specific industrial applications. Mr. Navin K. Agarwal, Managing Director, Arunav Technology & Systems Pvt. Ltd., Indian representative of Erocarb SA talks about the company's journey.

40+ Years of Experience in Cable & Tube Industry

Erocarb SA was founded in 1979 for the purpose of manufacturing state-of-art cable extrusion cross-heads with unparalleled quality and precision. We evolved hand-in-hand with the industry and set standards in manufacturing technology and product development. For over 40 years, Erocarb has been collaborating with the biggest names in the sector, such as Leoni, Prysmian, and Nexans. We are joyful and proud to announce a new chapter of the Erocarb story, wherein we have renovated our practices and policies, as well as is marked by our technological and organisational evolution.

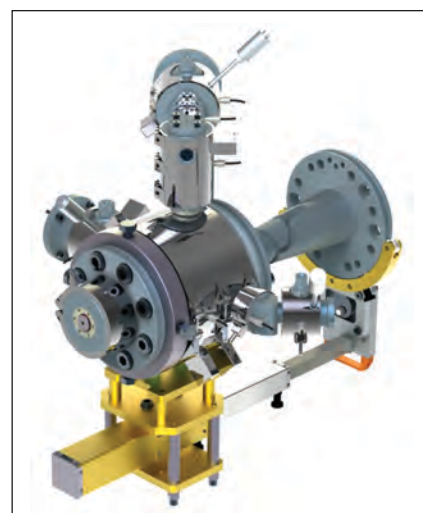
Leading Specialist for Non-Standard Projects and Extraordinary Products

Our customers value our engineering, research & development division, which in the past years, undertook all efforts to accomplish the most complicated projects and designs. Erocarb SA is considered to be the number one destination to get in touch with when all other suppliers of extrusion technologies dub a project impossible to accom-

plish. We boldly assert that our Research & Development is cost-effective and guarantees the productivity and reliability of our equipment.

Wide Range of products, Combinations & Applications

At Erocarb, apart from our customer-tailored solutions, we also offer a wide range of standardised products for all applications within the cable and medical industries. Over many years of development, we were able to identify the needs of our industry and offer various lines of equipment ideally adapted for each specific application in each





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- Plastic Pipes Extrusion Lines
- Medical Tubing Industry Extrusion Lines

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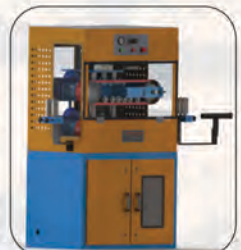
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- Manual Center Cross Heads : 10/15mm to 180/200mm
- Take Up & Pay Off : Din 500mm to Din 5250mm
- Cooling Trough : Single Pass & Multiple Pass
- Caterpillar : 1 Cylinder to Pneumatic Cylinder
- Capstan : Different sizes of Pulley & Diameter
- Screw & Barrel : 25mm to 175mm
- Tips & Dies : 0.40mm TO 200mm
- Toolings & Spare Parts, etc.



Extruders



Caterpillar



Portal Take UP



Portal Pay Off



Cross Heads



CCV Cross Head



Rubber Tube Head



Capstan



Cooling Trough



Toolings



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+91 - 9999599412, 9999489412

csdagar@yahoo.com, info@durgaengineering.in

www.durgaengineering.in, www.protomac.in

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sector. The application purposes of our cross-heads range from electricity to data cables, sanitary to medical tubes and our cross-heads for flat-ribbon cables are considered to be the best on the market. We are one of a handful of suppliers who offer efficient and productive physical foaming, multi-layer solutions, and colour-switching solutions for fluoro- and standard-polymers.

Production & Development in Switzerland

Our headquarters and factory are located in Switzerland. Our production, research and development are all done “in-house”. We guarantee the highest quality standards, which are expected from a “Made in Switzerland” product. Our cross-heads and equipment are CE-certified and we deliver to all regions across the globe.



N•E•W•S

Ravicab Cables Private Limited Acquires Leoni Cable Solutions

Ravicab Cables Private Limited announces the acquisition of Leoni Cable Solution India Private Limited (LCSI), Pune, a fully-owned subsidiary of Leoni AG. The acquisition is a win-win situation for both companies.

September 13, 2022

Ravicab Cables Private Limited announces the acquisition of Leoni Cable Solutions India Private Limited (LCSI), Pune, a fully-owned subsidiary of Leoni AG. The acquisition of LCSI by Ravicab provides an expansion in market reach, extension in the product range, and finds a perfect synergy with the growth aspirations of Ravicab. For the acquired business, this means a clear perspective for future development in terms of investment and growth. LCSI had a turnover of EUR 24.5 million in 2021.

With this acquisition, Ravicab Cables would have a strong foothold in the important project business in the western part of India. Ravicab with the acquisition of LCSI also has leverage in the speciality products business of renewable energy and railways. Ravicab has also inherited LCSI's processes and systems for manufacturing specialised cables and iconic brands like “Kerpen” and “Icon”.

Announcing this, Mr. Hemant K Mehta, Managing Director, Ravicab Cables Private Limited, said, “The agreement with Leoni AG to purchase the shares of Leoni Cable Solutions India Pvt. Ltd. (LCSI) is beneficial to all stakeholders and reflects Ravicab's strong aspiration to further strengthen its market position. It's a great opportunity for Ravicab to be able to acquire a unit set up with best-in-class infrastructure with best available machinery and major approvals in place to expand the business at high growth rates.”

“For the Wiring Cable Solution (WCS) units put up for sale due

Acquisition Announcement

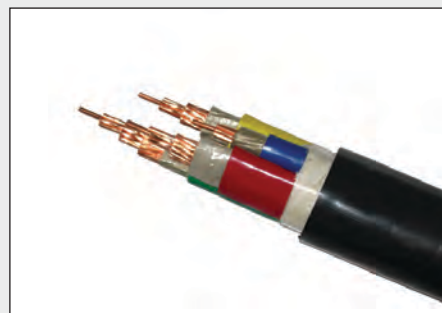
ravicab WIRING TECHNOLOGY + **LEONI** CABLE SOLUTIONS INDIA

Ravicab Cables Private Limited acquires Leoni Cable Solution India Private Limited (LCSI), Pune, a fully owned subsidiary of Leoni AG. This acquisition of LCSI by Ravicab provides an expansion in market reach, extension in Product range and finds a perfect synergy with the growth aspirations of Ravicab.

Ravicab has also acquired LCSI's processes and systems for manufacturing specialised cables.

to our strategic focus on the automotive industry, it has always been our goal to find investors, who want to strategically develop the products and services. I am confident that we have succeeded in doing so with Ravicab,” said Mr. Jerry Cummins, WCS Top Management, Leoni WCS. ■

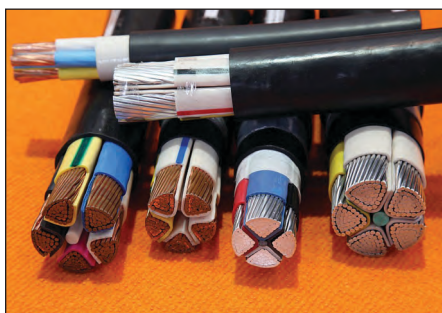
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Fiber Telelink: Aiming to Expand Capacities to Meet Export & Domestic Demands

*Fiber Telelink is a fiber optic company providing innovative solutions to its clients. Its product range includes aramid-reinforced plastic (ARP) rods and fiber-reinforced plastic (FRP) rods. In an interview with Wire & Cable India magazine, **Mr. Ravi Kumar Bansal, Director, Fiber Telelink Pvt. Ltd.** talks about the company's recent developments, capabilities, and future outlook.*



Mr. Ravi Kumar Bansal, Director,
Fiber Telelink Pvt. Ltd.

“
The optical fiber industry would be a leading light-house of India's technological growth.
”

Wire & Cable India: *Kindly take us through the overview of Fiber Telelink, its specialisations, and the vision behind establishing the company.*

Ravi Kumar Bansal: Founded in 2021, Fiber Telelink is really a young company, with world-class cutting-edge technology and international partners to create innovative solutions for different applications of FRP rods across optical fibers, construction, and the mining industry. Since, the demand for optical fiber cables has a notable surge in the telecom sector after 5G, cloud base services, the rise of IoT, and the digitilisation of payment gateways, demands for FRP rods have significantly increased for optical fibers in 2022. Some estimate that the market is expected to grow by 35.1 percent, from USD 66.54 billion in 2021 to USD 89.91 billion. By 2026, the market could reach around USD 227.54 billion.

WCI: *Could you please describe the product range of the company and the applications of the products? Kindly outline the raw material used in the production.*

RKB: At Fiber Telelink, we have a broad range of products. Apart from FRP rods, we have water-blocking tapes used to prevent longitudinal penetration of water into the cable core and impregnated glass fiber roving used for peripheral reinforcement of optical fibers. Parallely, we are working with European manufacturers for specialised compounds used in highly specialised fiber optic cables for critical medical usages like MRI cables, dental lighting, and surgical lighting.

WCI: *Please shed some light on the capabilities of Fiber Telelink in terms of – manufacturing and technologies used in the production. Also, share details about the infrastructure of the facility.*

RKB: Presently, in Thermal FRP, we have monthly capacity of around 20,000 km, both EAA-coated and uncoated from 0.5mm to 6mm. For EAA coated steel, the capacity is around 10,000 km monthly. We are continuously working to double the capacity in all product ranges. Our portfolio is largely driven by value-added products like flat FRP rods, water-blocking glass rovings and bio-based FRP rods from renewable

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Wire & Strips



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our belief - long term **Customer Relationship** over commercial decisions

special **Research & Development Unit** to foster technological advances in wire technology

Our Pay Off speed is higher than any other Manufacturer in India.

sources. We have a new state-of-the-art facility with a constructed area of 36000 sq ft.

WCI: *Kindly talk about the key features of the FRP rods and the market presence of the company. What are the challenges and opportunities in manufacturing FRP rods for the optical fiber segment?*

RKB: Fiber reinforced plastic (FRP) is a composite material made of a polymer matrix reinforced with fibers. FRP has some important features – it is non-conductive, has radar transparency, dimensional stability and corrosion resistance. Though being a young company, we have acquired a strong presence in a short time. Currently, we have currently 5 percent domestic market presence with 2-3 percent export exposure.

We are moving forward to increase the capacities to meet export and domestic demands. Every manufacturing segment has its own challenges but being continuously into the innovation of new products and reverse engineering, all challenges become opportunities for us. At Fiber Telelink, we are working like an open-source platform with customers and suppliers to understand the fast-growing industry demands.

WCI: *There has been a notable rise in demand for OFCs with initiatives like the BharatNet project; how do you see these trends propelling the growth of the company and of the FRP rods segment?*

RKB: According to the International Telecommunications Union (ITU), the latest ongoing capital investments related to fiber infrastructure are expected to total a staggering USD 144.2 billion between 2014 and 2019. One of the primary drivers for this immense capital investment into fiber infrastructure deployments comes out of thin air, in the form 5G

network. In India, only 35 percent of the towers in the country are fiberised while India manufactures 100 million FKM annually.

The optical fiber industry would be a leading lighthouse of India's technological growth. It is the only semiconductor-grade product that we completely own, and are able to manufacture across the value chain with our own IP. Though the BharatNet III project is under implementation, we are constantly working to fulfill the demands.

WCI: *What are the prominent trends with regard to market drivers and constraints in the global FRP rods market?*

RKB: India manufactures 100 million fiber km every year; hence, there is great potential for the FRP segment in the Indian telecom industry. Asia-Pacific is expected to dominate the market for fiber reinforced polymer (FRP) composites. Due to the high demand for applications from countries like China and India, the demand has been increasing.

In India, the electronics market witnessed a growth in demand, with market size increasing at a rapid growth rate. India's electronic goods exports fetched USD 11.11 billion in 2020-21. The growing market of electronics, appliances, FTTH, etc. in India and China may push the market growth further in Asia-Pacific.

One of the main constraints in FRP is the stringent regulations on the disposal of composites throughout the world. The other key challenge to the global fiber reinforced market growth is the service life of FRP. The composite durability and service life, whether in optical fibers, mining or medical, are determined by their purpose. The implementation of FRP might significantly reduce the amount of maintenance required and increase the life of cables. Such

factors may determine the concerned market growth.

In this increasingly urbanised and digitised world, engineers in telecommunications have found fiber reinforced polymer (FRP) composites to be the best material for their products.

The past 50 years have seen a rapid increase in rates of urbanisation across the world and the next 50 are expected to continue in a similar manner. As urbanisation requires telecommunications, and as the internet of things (IoT) is increasing its scope, it is forecasted that by 2035, there would be a trillion connected computers in the world. With these demands as well as the rollout of 5G, current networks will be insufficient.

It has been discovered that pultruded glass fiber can reduce attenuation of the high-frequency 5G signals, vastly improving existing lines of telecommunication. Additionally, new resins and process technology are growing to improve performance over traditional resins such as unsaturated polyester and vinyl ester. In the data and communication industry, this can mean higher line speeds without affecting other line properties like resistivity.

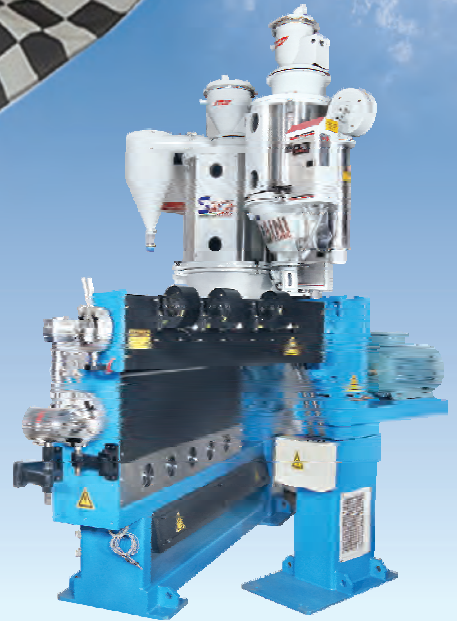
WCI: *Has there been any recent development at the company that you would like to share? What are the future plans of Fiber Telelink?*

RKB: Recently at Fiber Telelink, we got an opportunity to diversify further into the EV market. We have developed chargers for all the two-wheeler ranges and are now closely working with the manufacturers to get approvals as OEM. At Fiber Telelink, we look forward to expanding our presence across all verticals in fiber optic cable manufacturing by expanding our capabilities and product portfolio.



Take the Challenge with **SAINI ENGINEERING INDUSTRIES**

Founded in 1978, Saini Engineering Works is a prominent manufacturer and exporter of Cable Extrusion Lines and Thermoplastic Extrusion Machinery. An ISO certified company, it ensures that its product range meets the industry standards to maintain quality. The company's state-of-the-art infrastructure and in-house design unit are used for designing and fabricating a superior range of Cable Extrusion and Thermoplastic Extrusion Machinery.



Product Range :

- Extrusion Line for House Wire & Control Cables
- Insulation & Sheathing Lines for Power Cables & XLPE Cables
- Extruder for Dot Marking
- Secondary Coating (Skinning Extruder)
- Cross Heads
- Haul- Off Catter Pillar
- Dual Capstan
- Portal Type Take -Up & Pay Off's
- Fully & Semi -Auto Coiler's
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SAINI ENGINEERING INDUSTRIES

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www.sainiengineering.com

Empire Cables: Meeting the Vast Demands of the Customers Globally

The company reflects its mission of delivering good quality wires & cables, which justifies the 'We Care for You' motto for its customers. Excerpts of the interaction with Mr. Rajesh Aggarwal, Chairman, Empire Cable Industries Pvt. Ltd.:



*Mr. Rajesh Aggarwal, Chairman,
Empire Cable Industries Pvt. Ltd.*

Cables play an indispensable role in the electrical and electronic industries. They empower today's societies and thus, it is extremely important for a country to become self-reliant in the production of quality wires and cables. In India, the wire and cable market is expected to be driven by various factors such as the inclination towards renewable energy and the rollout of 5G and 6G technologies. Empire Cables is now having headquarters in the Middle East and Africa (MEA) region in order to represent 'Made-in-India' products globally.

Empire Cables is tapping this market growth by offering a multi-faceted range of wires and cables such as

XLPE cables, power cables, control cables, domestic wires and FRLS wires. Empire Cables has successfully completed 55 years of its operation and has established quality PVC wires & cables. Since 1970, it has established itself as a quality manufacturer with a complete range of low-tension cables, which are certified by the top accredited labs in India.

Safety & customer service is our primary concern. Our motto is 'We Care for You'. All our cables carry ISI certification marks. An ISO 9001:2015 and ISO 14001:2015 certified company, Empire Cables has been able to establish a sound network of distributors and dealers to ensure good pre and post-sales services to our valued customers at very good prices. Empire Cables export the same quality cables globally through our overseas head office in Dubai, which handles the export globally.

Empire Cables has strongly entrenched itself as a quality manufacturer of speciality electrical wires and cables for a variety of applications. Our broad manufacturing and design experience enable us to deliver products tailored to specific applications. Major sectors include agriculture, refineries, railways, power plants/transmission, automobiles, elevators and appliances. Our products are used

exclusively in different departments like Bharat Heavy Electricals Ltd., NHPC Ltd., NTPC Ltd., Power Grid Corporation of India Ltd., etc.

Quality Control Management

We aim to be a leader in the wire & cable industry by developing new product innovations that feature the best quality casting and have an international repute. The quality control team at Empire Cables has made it possible for the company to scale new avenues and heights. The rigorous quality control practices followed in our company have shaped our name as one of the most trusted wires & cables brands in India and abroad. The Company has a well-equipped modern laboratory with highly-qualified staff. The wires & cables are tested at every stage of production and supervised by well-qualified and experienced engineers to earn a reputation for quality, reliability, and durability. Thus, Empire Cables deliver the best quality products at the best prices so as to satisfy the customers which make Empire Cables the most trusted & reliable cable company amongst the customers.

New Development

Through this platform, we would like to announce that we will soon launch our wide variety of fans and a range of MCBs globally. ■

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- FR & FRLS Compounds
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- UV and Oil Resistant & UL Grade PVC
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◆ Shoe Grade Compounds

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Sarvasv Develops High-Speed Stranding Machines for Copper and Aluminum Wires



From L to R: Vinod Kapoor, Managing Director; Varun Kapoor, Director; Amit Kapoor Director and Sumit Kapoor Director, Sarvasv Machinery & Equipments Private Limited

In an interaction with Wire & Cable India magazine, **Mr. Varun Kapoor, Director, Sarvasv Machinery & Equipments Pvt. Ltd.**, shares the journey and recent developments at the Company.

Wire & Cable India: Tell us about your company.

Varun Kapoor: With its presence of over 40 years in the wire and cable industry, Sarvasv Machinery And Equipments Pvt. Ltd. is a well-established brand for manufacturing high-quality, robust rotating machines for the wire and cable industry. It has primarily been known to infuse its products with innovations so as to take care of a client's minutest needs.

With time, Sarvasv Group has earned the reputation of being one of the most reliable suppliers and partners for wires & cables manufacturing. They are the technological leader in rotating machinery manufacturing and have been working towards the goal of complete customer satisfaction ever since the day it started. It has manufacturing units that are equipped with the most sophisticated and modern machinery and equipment, which are complemented by a highly qualified team of professionals who are always striving hard to improve on the already attained success. A

dedicated quality assurance team ensures strict guideline adherence from the raw material stage to the final commissioning of machines; this has made Sarvasv reach heights. The Company has also been exporting its machines to about 20 countries across the globe.

WCI: Brief us on the product offerings for the wire & cable industry.

VK: Sarvasv specialises in a complete basket of rotating machines. All the products are designed and manufactured to cater to high output and productivity. Our product range consists of the following:

- Double Twist Bunchers
- Single Twist Bunchers
- Skip Stranders
- Skip Laying Machines
- Rigid Stranders with Batch Loading
- Armouring Machine with Batch Loading
- Drum Twisters for LV/MV/HV Cables
- Planetary Stranders

WCI: Throw some light on the USP of your products and services.

VK: The following are the USPs of our solutions:

- High Productivity,
- Low Maintenance, and
- Prompt and Efficient After-Sales Support.

WCI: Please share new developments at your company and any future plans.

VK: Sarvasv has always aimed, for being the best and most reliable partner and supplier for all rotating machine requirements of the Wire and Cable Industry. Each machine in our basket undergoes regular upgradation both mechanically and electrically with the goal of improving the efficiencies and productivity of the machines. We have recently developed and installed a



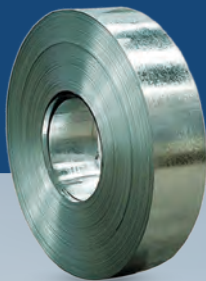
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We firmly believe in customer's delight by maintaining relationship with our ongoing customers & building up relationship with new business partners. We leave no stone unturned to cater all the needs & wants of our industry.

Our Product Range

- ACSR Core Wire & Strands
- Barbed Wire & Binding Wire
- Cable Armour Wire & Strips
- Cable Tape
- Crimping Wire
- Earth Wire
- Farming GI Wire
- General Engineering Purpose GI Wire
- Hard Drawn Steel Wire
- Music Spring Wire
- Rope Wire
- RQ/FQ Black & Galvanized
- Spring Steel Wire
- Shutter Wire
- Welded Wire Mesh

very high-speed production line for 19-wire stranding for copper/aluminium wires with a speed of up to 100 meters per minute line.

We have a robust order book, from our valued, Indian and international clients. We have started expansion at our Bhiwadi factory for increased capacity and continued innovation. The total covered area, after expansion, shall be about 100,000 sq ft.

WCI: *What opportunities do you look forward to in the wire & cable industry?*

VK: The cable and conductor industry is in a healthy growth trajectory. There is huge power sector and infrastructure-related plans in most part of India and other developing and under-developed countries. The present and future of the wire and cable industry look very bright.

Visit Stand M-91 at wire India 2022, Mumbai.

Durga Engineering Works to Exhibit its Extrusion Lines and Machinery in wire Mumbai

At wire Mumbai, Durga Engineering will demonstrate its latest developments in addition to the existing lines including high-speed extruders, cross-heads, screw, barrel & toolings.



Mr. Charan Dagar, Managing Director, Durga Engineering Works

Durga Engineering Works (Protomac Extrusion Pvt. Ltd.), established in 2006, is one of the leading manufacturers and exporters of extrusion plant & machinery, with longstanding expertise in the wire & cable, medical tubing, plastic profile, and rubber hose industries. The Company manufactures high-speed extrusion line from 30mm to 175mm for building wire (house wire), jelly fixed telecom cable, optical fibre cable, submersible cable, lift cable, flat cable, shaped cable,

control cable, power cable, HT cable, rubber cable, medical tubing, plastic profile, rubber hose, and so on.

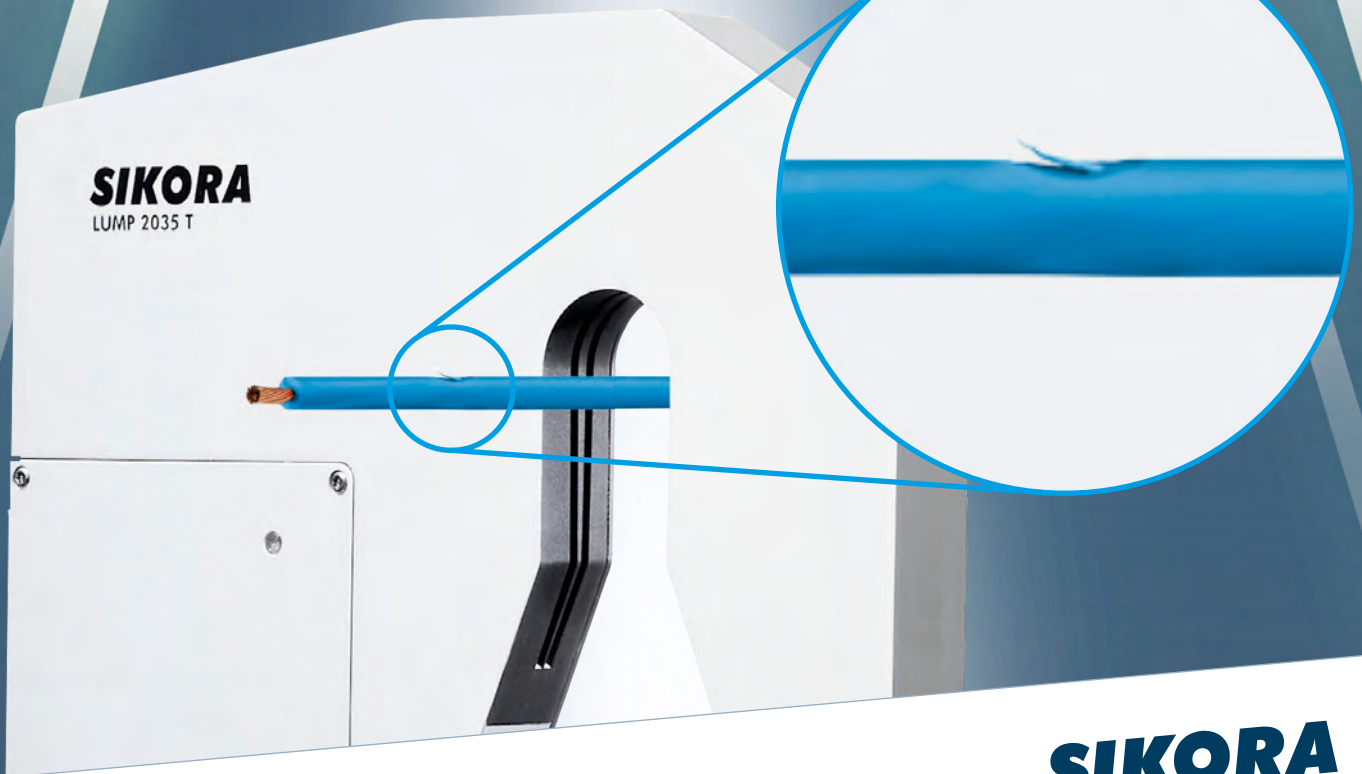
Product Range:

Extrusion Plant & Machinery: The Company offers single, double, and triple layer fully-automatic extrusion lines in various designs & ranges between 30mm to 175mm. The extrusion line involves many components including a complete set of extruders, pneumatic pay off, take up single & double spool, multipass tank, capstan, caterpillar, self centre head die centering head, dia gauge controller, air wiper, auto coiler, and tooling to ensure consistency, quality, and efficiency.

Extruders: The Company manufactures high-quality extruders from 30mm to 175mm for building wire, optical fibre cable, LT cable, HT cable, Sioplas line, CCV line, rubber CV line, and rubber hose line and so on.

Cross Heads: Manufactures & designs cross heads from (0.40mm to 200mm) diameter with single layer, multilayer (skin) & stripe (marking) for various types of compounds like PVC, HDPE, PP, PE, Nylon, Rubber, etc. In this, good quality of alloy steel is used to manufacture the cross head. DE cross head have applications in all type cables including

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Lump detection with unique double sensor technology
for extrusion and rewinding lines

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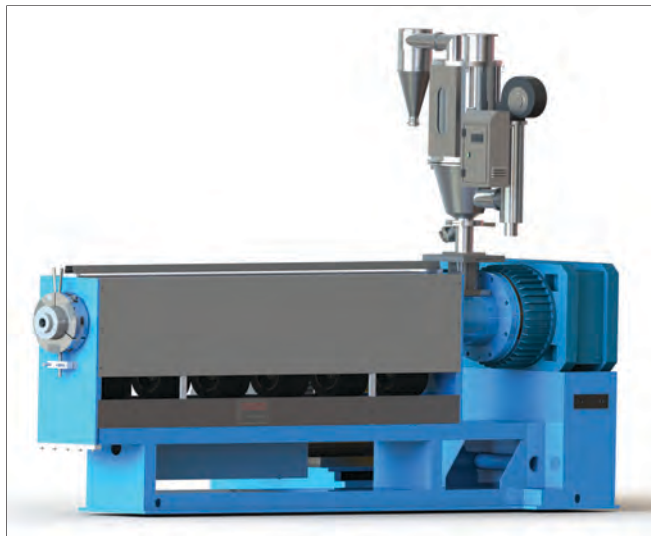
- 2-axis and 3-axis lump and neckdown detection
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- Easy to integrate into existing lines
- Elimination of "ghost faults"



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housing wiring, jelly fixed telecom cable, optical fibre cable, submersible cable, lift cable, flat cable, shaped cable, control cable, power cable, H.T cable, rubber cable, EPDM, XLPO, MVCC, CCV/SIOPLAS etc.

Screw & Barrel: The Company manufactures a wide range of Single Screw Barrel, Twin Parallel Screw Barrel, and Bimetallic Screw Barrel. The screw barrel range is manufactured under the standardised supervision of various software and modern technology.

Caterpillar & Capstan: The caterpillar is flexible enough cater to a wide range of applications and ensure the line speed stability. They are very reliable in long runs as well as with high pulling forces. We provide capstan in different sizes of pulley and diameter that vary as per the small & medium size of cables and line speed.

Take Up / Pay Off: We offer Take Up & Pay Off from bobbin size of 500mm to 5250mm and speed from 5mpm to 1000mpm. Our Take-Up and Pay Off Stands are designed portal type and column type, box type with wide range includes Conical Pay Off, Driven Pay Offs, Pneumatic Pay Off, Portal Pay Off -Take Up, and Dual Auto Change Over Take up.

Tooling & Spare Parts: Durga Engineering Works designs and manufactures tooling for fixed centre cross heads, die centre cross heads h.t. & ccv triple cross heads like tips, cross head tip, (nozzle) dies, skin tool, marking tool, cartridge (distributor), breaker plate, c-clamp, printing wheel, jelly needle, fibre guide, forming die, overlapping die with key, etc. Only high-quality of alloy steel is used in

the manufacturing of the tooling with diamond polish & mirror like finish for long life of tooling.

Cooling Trough: All types of cooling troughs material SS304, SS316, for extrusion line are manufactured by the Company. The different models of troughs are single pass section, multipass section with cold water section, and hot water + cold water section.

Key USP of the Company

The following are the key strengths of the production lines and services by the Company:

- Fully-automated CNC/VMC machine plant;
- Automatic screw cutting machine plant;
- Huge setup for production, fabrication, and assembly;
- Large area for stock inventory;
- Real-time delivery;
- Innovative technology;
- All the products are TC coated;
- Large output capacity;
- High-quality automation control;
- Low rejection & low maintenance;
- Reduced raw material consumption;
- Reduced setup time;
- Premium quality at best price.

New Development:

Durga Engineering has a largest setup of automatic screw cutting plant in India. Recently, the Company set up another separate assembly unit for machines in Faridabad. Using automatic CNC machines & technology ensures the quality of the products. All the components are engraved with their part numbers and the customers do not need to stock the inventory at their unit. Whenever there is a requirement, the Company dispatches the order to the customer within 24 hours.

Within its participation as one of the biggest exhibitors of wire & Tube Exhibition (Mumbai) with a 102 sq m premium stand space, Durga Engineering will showcase its latest and high-speed extruder machines, crossheads, screw, barrel, and toolings.

*Visit Stand E-17 at
wire India 2022, Mumbai.*



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15th Edition

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700
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The 4th edition of WUS is a pioneering thought leadership forum for the utilities, by the utilities, of the utilities.



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Hosted by Buyer Seller Meet

The 6th Reverse Buyer-Seller Meet is the biggest B2B meeting place for International Buyers to source electrical products and components, build partnerships and explore technological tie-ups in India.



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Kund Kund Polymers to Come Up with a New State-Of-The-Art Manufacturing Unit



Mr. Darpan Jain, Director, Kund Kund Polymers

In an interaction with Wire & Cable India magazine, Mr. Darpan Jain, Director, Kund Kund Polymers, talks about the product offerings of the Company.

Wire & Cable India: Tell us about your company.

Darpan Jain: Kund Kund Polymers (a unit of SCJ Group) is one of the leading manufacturers of premium masterbatches and has served a full spectrum of polymers and applications in the wire & cable industry for over 50 years.

The motto of Kund Kund Polymers is to sell its product with consistent quality & technical strength and aim to bring down the existing colouring cost of its customers by at least 3 percent. We have a comprehensive range of colour and additive masterbatches for all cable applications in global standards such as RAL, PANTONE, UL and BS.

The Company has state-of-the-art R&D and production facilities. With

our rich experience in the wire & cable industry needed for masterbatches, we can develop any specific customised colour and additive masterbatches in line with the industry's requirements. We have a special range for high-speed extrusion for household wire applications.

WCI: Brief us on the product offerings for the wire & cable industry.

DJ: Our product range for the wire & cable industry includes:

- Masterbatches with compliance to REACH, RoHS, RoHS 3 (phthalate free).
- PVC Masterbatches for all kinds of wire & cable applications like house wiring, control & instrumentation cables, signalling cables and power cables.
- Telecom Cable Masterbatches – PE Masterbatch, XLPE (Thermoset), and HDPE (railway

quad cable and telecom & instrumentation cable).

- TPE Nylon & PBT Masterbatches – special & optical fibre cable.
- ZFFR Masterbatch – insulation and sheathing.
- Solar Cable Masterbatch.
- Range of Additives Masterbatch such as Ultra Violet (UV) resistant, Anti-oxidant, Anti-rodent & Anti-termite Masterbatch for both PVC & PE Cables.
- UV Masterbatch is available in all polymers for insulation and sheathing.

WCI: Throw some light on the USP of your products and services.

DJ: Our group has a rich experience of over five decades in masterbatch manufacturing. We have a wide range of products. Our group makes masterbatch for 28 polymers. We can



say that nobody in the masterbatch industry understands the wire & cable sector better than SCJ.

With the efforts of our qualified and well-experienced team, the quality of our products is continuously maintained in production. Our infrastructure boosts a state-of-the-art laboratory as well as a plant that is equipped with the latest manufacturing technology.

WCI: Please share new developments at your company and any future plans.

DJ: We are keeping pace with all the major cable manufacturing compa-

nies in India and travelling to all the major exhibitions across the world to understand the new developments happening around the globe. Development is a continuous effort; we sell materials on technical strength and provide our customers value for money. We are planning to come up with a new state-of-the-art manufacturing unit very soon. We are also looking forward to replacing imports in small quantities at affordable prices.

WCI: What opportunities do you look forward to in the wire & cable industry?

DJ: With continuous stress on infrastructure and real estate business, there is also a need for a huge improvement in communication. The wire & cable sector looks forward to growth in this sector to reach further heights and technology improvements. Our well-equipped Research & Development team will meet the requirements and expectations of the industry. We are always close to our customers, with a marketing network covering all geographical locations across the nation.

Visit Stand L-81 at wire India 2022, Mumbai.

Victory Plant and Machinery to Exhibit its Production Lines at wire Mumbai 2022

Marking its presence at wire Mumbai 2022, Victory will showcase its range of stranding machines, wire drawing machines, in addition to the new additions to its portfolio for the wire & cable industry.



Mr. P G Sabu, CEO, Victory Plant and Machinery Pvt. Ltd.

Victory Plant and Machinery Pvt. Ltd. is recognised as a leading machinery manufacturer for the wire and cable industry with a history of more than 30 years. The manufacturing unit is located in Thane, Mumbai. Victory is renowned to provide excellent product quality, delivery and customer

support. Their continual development and unmatched customer service makes the Company one of the preferred suppliers for all the major cable manufacturers.

The Company has been continuously upgrading their facilities to improve the process quality, and to assist in faster machine building. Victory takes utmost care in each level of production, right from the sourcing of the material up to the machine building process.

The major products are – Drum Twister Lines, Planetary Stranders, Rigid Stranding Machines, Multi Wire Drawing Machines, Annealers, Rod Breakdown Machines, Bunchers, Bow-type Laying Up machines, Skip Stranders, Armouring Machines, and Tubular Stranders.

USP of products and services

The Company is known to provide high production and low-maintenance machines besides fast responses to any service requests of the clients. Immediate online support for anything related to automation can be provided, as the Company is equipped with an in-house automation division. Client specific requirements and new develop-



ments as per the needs of the customer is always the priority.

New Developments

Recently, Victory has developed planetary stranding machines for special-purpose cables, specifically for EV charging cables and battery cables. The machines have a precision tension control mechanism and timer belt transmission instead of conventional gear systems. These are maintenance free and are high production planetary machines. Unlike the conventional machines, it doesn't generate any operational noise.

Multi Wire Drawing Machines with annealer having line speed of 40 meters/second have also been developed by the Company. Additionally, the Company has been continuously upgrading the design to increase the productivity of the machines.

Opportunities to look forward to

Over the period of next ten years, the demand for electricity in India is expected to nearly double. The transmission and distribution sector is all set to remain in focus for quite some time. In addition, electric vehicles are expected to drive growth for cables and wires firms in a big way. The global wires and cables market is projected to grow from USD 200.23 billion in 2022 to USD 294.73 billion in 2029 thus providing better opportunities for both wire & cable manufacturers as well as machinery manufacturers.

At wire Mumbai 2022, Victory Plant and Machinery will present its range of machinery including the newly developed machines.

Visit Stand G-37 at wire India 2022, Mumbai.

Machine & Controls Launched Latest Colouring Line for Optical Fibre with Line Speed of 2500 m/min



Mr. Ashok Jain, Director, Machine & Controls

In an interaction with Wire & Cable India magazine, Mr. Ashok Jain, Director, Machine

& Controls, talks about the product portfolio for the wire & cable industry and the new developments.

Wire & Cable India: Tell us about your company.

Ashok Jain: Machine & Controls (M&C) is a pioneer in optical cable machine manufacturing for the past two decades in India. The ISO 9001-certified company has a clientele base worldwide from MSMEs to MNCs. We believe in consistent and quality performance over the years with innovation and R&D in all possible machine requirements to serve our customers better. M&C was founded in 2005 by an enthusiastic mechanical

engineer with more than 20 years of experience in the cable Industry. We specialise in optical fibre cable machinery, optical fibre cable FRP rods, data cable & LT cable machines including control cables machines.

Machine & Controls has a proven track record for execution of EPC contracts for OFC FRP & ARP rods and we are capable to execute turnkey projects for optical fibre cable manufacturing.

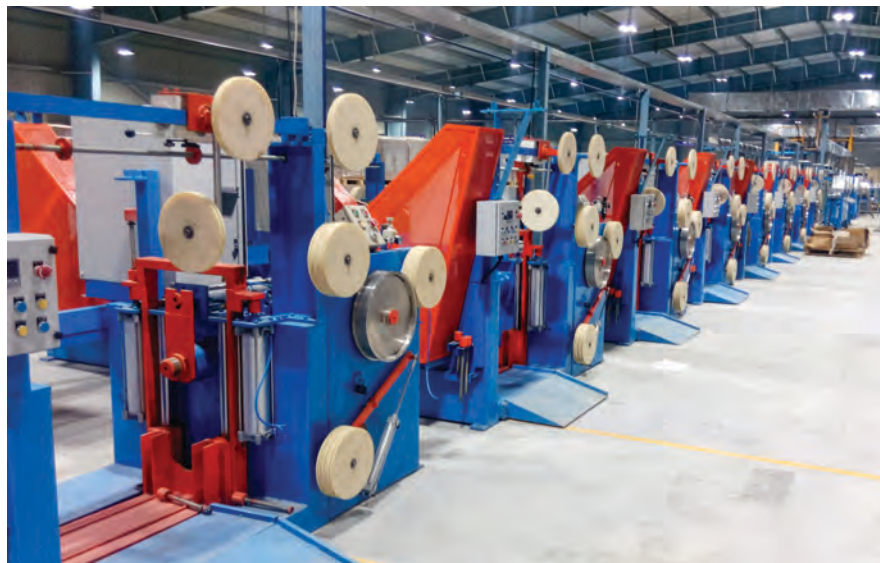
WCI: Brief us on the product offerings for the wire & cable industry.

AJ: We have developed & supplied various machines. Some of them are

manufactured in India for the first time. Our FRP manufacturing line with UV curing process is of excellent quality and productivity. We also specialize in:

- Colouring line
- Buffering line
- S-Z stranding line
- Sheathing line
- Rewinding line for loose tube
- Rewinding line for finished cable
- FTTH lines for OF cable
- Drop cable machines for OF cable
- Steel tape corrugators for OFC
- Aramid/Glass yarn server for OFC
- Mechanical test equipment for OFC
- Thermal FRP Rod manufacturing machines
- UV FRP Rod Manufacturing machines for OFC Rod
- High-speed insulation line for control & data cable
- Single twisting cabling machine
- Sheathing line for control and data cable

WCI: Throw some light on the USP of your products and services.

















AJ: Our USP is 'Solutions rather than machines'. Machine & Controls uses a judicious mix of European and Indian components to curate a synchronised package that delivers performance at par or better than European offerings at a more economical price. We specialize in providing machinery as well as technical consultancy with respect to manufacturing optical fibre cables and FRP. We believe in providing the right solutions to the problems of our customers rather than just selling

our products. We take pride in providing all kinds of solutions to the problems related to cable manufacturing in the field of optical fibre cable and FRP Rod, data, LT cable and data cable.

WCI: Please share new developments at your company and any future plans.

AJ: We have recently launched our latest colouring line for optical fibre with a line speed of 2500 m/min. M&C recently bagged 2 EPC

 TRIVENI POLYCHEM <i>Deals in Polymer Additives</i>			
Speciality Additives	Speciality Compounds	Major Products	
<ul style="list-style-type: none"> • Erucamide • Calcium Zinc Stabilizer • Lead Stabilizer • Expoxidized Soya Bean Oil • Impact Modifiers • Chlorinated Paraffin Wax • Oleamide • Processing Aids • Aluminium Tri Hydrate 	<ul style="list-style-type: none"> • Anti Static Agent • Calcium Carbonates • Anti Oxidant • Calcined Clays • Bisphenol-A • Antimony Tri Oxide • Polymer Processing Aids • Speciality Waxes • Lithomer 	<ul style="list-style-type: none"> • HFRR - Halogen Free Flame Retardant Compounds • XLPO - HFRR Crosslinked Halogen Free Flame Retardant Compounds • XL Elastomer - Crosslinked Elastomer Compounds 	<ul style="list-style-type: none"> • XLPE - Crosslinked Polyethylene Compounds for Wires and Cables • XLPE - Crosslinked Polyethylene Compounds for Pipes • Nylon 12, PVDF - Engineering Compounds
Representations			
 USA	 SPAIN	 South Korea	 INDIA
 USA	 SINGAPORE	 INDIA	 INDIA
		 USA	 INDIA
		 INDIA	 INDIA
		 ITALY	
Plot No. 25, KH No. 108/25 (GF), Khera Kalan, Indl. Area, Delhi-110082, India ☎ 9818332292 ✉ info@trivenipolychem.com 🌐 www.trivenipolychem.com			

contracts for building a fully functional and operating plant for FRP and ARP production. One of the FRP EPC contracts is executed and it is fully functional while the ARP project is under execution and hopefully, it would be completed and functional in near future.

M&C is the only EPC contractor among the cable & FRP rod machine manufacturer. We are looking for a broader customer base and planning to go into the global market. We look forward to ventur-

ing into new machinery with better efficiency and a higher benefit-cost ratio. At M&C, we work towards building a brighter future for the telecom and cable industry by strengthening its backbone and providing state-of-the-art machinery.

WCI: What opportunities do you look forward to for the wire & cable industry

AJ: As we are a leader in telecommunication cables and there is constant growth for digitalization, and data requirements, we feel that

the overall growth of the complete cable market will definitely help us to grow with our customers. We also want to increase our market share in the world market and want to encash opportunities from overseas markets and want to contribute to the growth of the world market. In the changed scenario post-COVID, we feel there is a huge opportunity in the global market for Indian manufacturers provided we offer an economical and right solution with quality machines.

Visit Stand A-37 at wire India 2022, Mumbai

Ajex & Turner to Showcase its Range of TW, Sector and Nano Dies

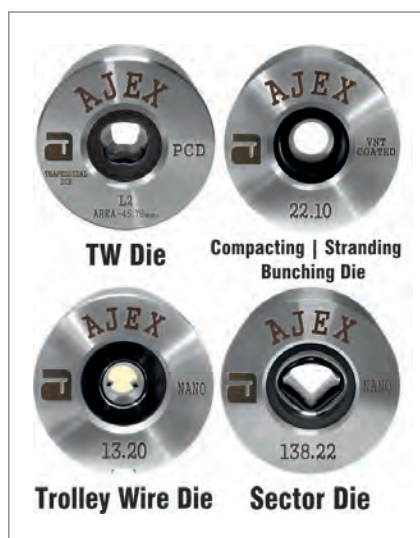
At wire India 2022, Ajex & Turner, along with Isinox Metaltec, would showcase its product portfolio for the wire & cable industry.

Ajex & Turner will be exhibiting the next-generation products at wire Mumbai 2022 including trolley wire die, sector die and nano die which are the fastest-growing products and are being used all over the world by all the leading cable manufacturers & conductors.

The Company would also showcase extrusion tips and dies used for all types of extrusion machines by renowned companies like Supermac Industries (India) Ltd., Rosendahl Nextrom and Maillefer among others. Ajex & Turner is a fast-growing technology-driven unit engaged in the manufacturing of wire drawing dies and die polishing/reconditioning machinery & their consumables.

Isinox Metaltec to Exhibit Special Types of Aluminium Alloys Wires

Isinox Metaltec Pvt. Ltd. is a leading



manufacturer of all special types of aluminium alloy wires. The Company would be showcasing all the products at wire Mumbai 2022. its products are used for nail insulation fasteners, electrical applications, mosquito wire mesh, fencing wire, braiding wire, welding wire, tea bag staple wire,



rivets, metalizing wire, high purity metalizing wire of BOP films, etc. Isinox Metaltec also manufactures FRP, EAA coated steel wire in all sizes and as per customer's requirements.

Visit Stand J-29 at wire India 2022, Mumbai

TROESTER Group to Exhibit at wire India 2022

TROESTER along with X-Compound will demonstrate their solutions for the cable industry at the wire India exhibition to be held from 23rd-25th November, 2022.

TROESTER GmbH & Co. KG, a worldwide leading manufacturer of complete extrusion systems for the cable industry, will exhibit at wire India 2022. The product range comprises CV lines for XLPE and rubber cables, silicone insulation lines, sheathing and insulation lines as well as the complete range of downstream equipment, like winders, caterpillars, capstans, and accumulators.

At wire India 2022, TROESTER will present information and new developments in the field of:

- CCV and VCV Lines for MV, HV and EHV Cables up to 1000 kV
- Rubber CV and CCV-Lines up to 35 kV
- Insulation and Sheathing Systems
- CV Tubes and components (e.g. variable Endseal TRENDSEAL)
- Silicone Insulation Lines with TRIOX Ovens
- Production Equipment for Submarine Cables

X-Compound, member of the TROESTER Group, is specialised in complete systems for the compounding of



plastics with the process steps conveying, melting, dispersing, mixing, and degassing. X-Compound will present:

- Kneader technology for the continuous compounding of HFFR (LSOH), PVC, XLPE, semi-conductive materials, and EPR/EPDM.

The TROESTER Group will present about new developments in the CV technology and market developments.

Visit Stand K54 (Hall 1) at wire India 2022, Mumbai



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Magnesium
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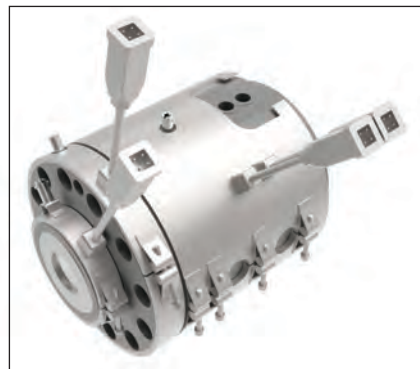
nanotcyl
Carbon Nanotubes

Maillefer to Exhibit at wire India 2022

At wire India, Maillefer Extrusion will demonstrate its latest LV technology solutions and highlight the local manufacturing facility serving the Indian market.

At wire India 2022, Maillefer Extrusion continues on its path toward digitalisation of manufacturing. Continuously pushing the boundaries of what is possible; the manufacturer has been developing its extrusion technology to new heights. The Company will showcase how the past three years' progress and development are changing the industry. The visitors will, as always, be greeted with innovation, exciting technology, and smart solutions.

The Company will showcase its latest low voltage technology solutions and introduce the local manufacturing facility serving the Indian market with components made in India. The visitors will also learn about the CV line solutions and technologies for power cables (MV, HV & EHV). A high-speed secondary coating line OEL40 will be presented for fiber optic cable producers. Additionally, the Company will also introduce several demos and present the cable samples.



Visit Stand F-141 at wire India 2022, Mumbai

NEWS

IEEMA Designates Rohit Pathak as its President

At the recently held 75th AGM, IEEMA announced the selection of Mr. Rohit Pathak, who serves as the CEO of Hindalco Industries as the President for 2022-23.

September 28, 2022

The Indian Electrical & Electronics Manufacturers' Association (IEEMA) has onboarded Mr. Rohit Pathak as its new President for the year 2022-23. Mr. Pathak, CEO of Birla Copper (Hindalco Industries Ltd.), has succeeded Mr. Vipul Ray, MD, Elmex Controls Pvt. Ltd. as the President of IEEMA.

The official announcement of the transition was made at the 75th Annual General Meeting (AGM) of the association for the Indian electrical equipment manufacturing industry. The AGM was concurrently held with IEEMA's annual convention on 'Electricity to Energy: Vision 2047' at Hotel Taj Lands End (Mumbai).

Besides, the association also announced the newly appointed office bearer Mr. Hamza Arsiwala, MD at STELMEC Ltd. and Mr. Sunil Singhvi, CEO - Energy SBU, Secure Meters,

as Vice President for 2022-23.

Mr. Pathak is currently the Chief Executive Officer of Hindalco Industries, the flagship company of Aditya Birla Group (ABG) and one of the biggest players in the Indian copper industry. In 2011, he joined ABG as the Principal Executive Assistant to the Group Chairman, Mr. Kumar Mangalam Birla. Later in the year 2016, he was promoted to President & CEO at Aditya Birla Insulators. Before joining the Group, Mr. Pathak worked at McKinsey & Co. as the Associate Principal.

Mr. Rohit Pathak, President of IEEMA, said, "Our focus for the year would be on four areas. Firstly, to help the Association and Members explore and pursue emerging growth areas (e-Mobility, Renewables, Exports to EU/US as they look for China+1 sources). Secondly, driving Public Policy efforts to address pain areas of



Mr. Rohit Pathak, President, IEEMA

the members and to shape IEEMA strategy for the new opportunities, positioning IEEMA as a thought leader. Thirdly, work with colleagues to strengthen membership engagement & regional connect, and drive key priorities such as 'Women in Power' and 'Young@IEEMA'."

"And lastly, work to drive capability building of the IEEMA Operations Team and strengthen the processes & systems, as the IoT steers the Association into the Green, Digital Era," he added. ■

Loose Tube Production: Repeatable Precision at Highest Speed by Rosendahl Nextrom

Rosendahl Nextrom loose tube line can process PBT micro tubes with the speed of 1,200 m/min, meeting all the requirements with precision.

Precise, fast, and suitable for a wide product range – these are the crucial requirements for a loose tube manufacturing line. Rosendahl Nextrom have combined their customers' needs with their own expectations and invented a totally new line design.

Perfect processing up to 1,200 m/min

The loose tube market trend for small-sized products is ongoing. On the latest Rosendahl Nextrom loose tube line, PBT micro tubes can be processed at line speeds of up to 1,200 m/min, meeting all product requirements with precision.

Space saving line setup

With a line length of around 30 meters, the small footprint of the loose tube line is outstanding. It is made possible by a short cooling trough design and a new linear guiding. That saves space coupled with utmost performance.



Loose Tube Production Line

Online EFL monitoring

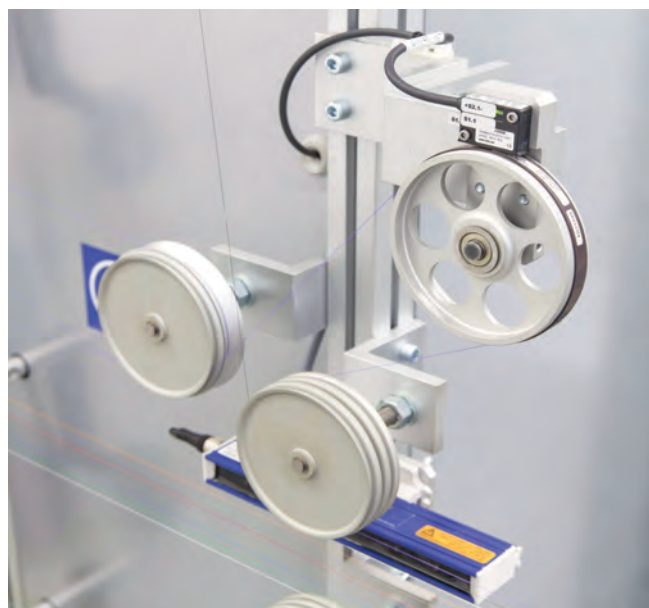
A great benefit is the option to monitor excess fiber length (EFL) online. That enables you to get fast feedback during production and to react immediately during the process. An offline EFL measuring system is also available.

Improved line components

The Rosendahl Nextrom crosshead with linear guiding has been further optimized and works for dry as well as for jelly-filled applications. An improved clenching capstan helps to minimize excess length of the fiber and post shrinkage of the PP/PBT tube during the production process. It is one of those crucial parts in the line that help you produce a storable, temperature-insensitive product at a high yield. In addition, Rosendahl Nextrom has equipped the line with a fiber cutter, a rewinding mode, and dual take-up for automatic reel changes. All these improvements contribute to a highly efficient production process.

Demonstration line in Austria

One can experience a Rosendahl Nextrom loose tube line in real-life by simply visiting the company in Pischelsdorf, Austria. At their Technology Center, one can observe the line during production and interested parties can bring their individual materials and recipes for tests on the laboratory line.



EFL Measuring System

Visit Stand C131 at wire India 2022, Mumbai.

Medek & Schörner to Showcase Cable Marking Machines & Optical Fiber Processing Lines at **wire India 2022**



Intermittent Ribbon Bonding Line

Medek & Schörner, established in 1929, is a leading supplier of cable marking machines and optical fiber processing lines. Due to its excellent, close relations to the cable and wire industry, the company is always in touch with new requirements, which are rapidly converted into new production concepts. This enables further development continuously.

Medek & Schörner is not only offering superior quality and high-performance machines, but its employees are also going a step further to provide reliable customer support and a standard of after-sales service that many of its competitors simply cannot afford to offer.

“It is this depth of in-house expertise, together with our use of state-of-the-art machinery and our highly qualified and experienced workforce, that gives us the ability to help our customers to develop always better solutions – in effect, to make their good ideas even better.”

The product range begins with simple coding machines and extends all the way to fully automated high-speed production lines using cutting-edge technology. Here is a brief overview of the product portfolio:

- Optical fiber colour coating systems including ring marking, tight buffering, proof testing
- Fiber ribbon production lines with excellent ribbon planarity (including inline coloring)

Medek & Schörner will present a wide range of high-performance machines at wire India 2022 including – optical fiber coloring / ribbon / micromodule coating device with LED curing; machine module for intermittent ribbon bonding; laser marking systems, and so on.

- Splittable ribbon
- Production of compact fiber units (CFU)
- High-quality gravure printers
- Offset markers for irregular cable surfaces
- Embossing meter markers and hot foil sequential meter or footage markers
- High-speed embossing printer for indent or raised marking
- High-performance ring markers
- Intelligent camera supervision systems for monitoring the printing quality of high-speed printing machines
- Laser marking systems for cables
- Custom-made cable marking machines and optical fiber solutions
- IoT/Industry 4.0 ready interfaces

Due to the very close cooperation with the Austrian company KHU, a joint trade show appearance takes place at wire India 2022. Matching the optical fiber lines from Medek & Schörner, KHU offers suitable downstream machines. Through this solution, a comprehensive joint consultation can be provided at the highest level.

Visit Stand F131 at wire India 2022

Woywod to Showcase Plasticolor System at wire India 2022

The latest development in the Woywod product range is the robust dosing unit PC 1500 with a new function - automatic device cleaning. This degree of automation is a huge advantage for many manufacturers.

Woywod Kunststoffmaschinen GmbH & Co. Vertriebs-KG has been producing high-quality Plasticolor dosing units, volumetric and gravimetric mixing stations, hopper loaders and drying systems for free-flowing materials for over 50 years. With a dosing range from 0.070 kg per hour to more than 3,500 kg/hour per device, more or less any production requirement is covered, from the smallest screw conveyor to the sophisticated gravimetric mixing station. The machines are used by plastics processors and manufacturers of high-quality extrusion and injection moulding machines worldwide.

Woywod is represented with Plasticolor products at wire India 2022 - and visitors can expect interesting new products around plastic processing. The latest development in the Woywod product range is the robust dosing unit PC 1500 with a new function - automatic device cleaning. This degree of automation is a huge advantage for many manufacturers. The current control system, developed in-house, for individual volumetric dosing units will also be presented to the public.

Visit Stand 01 H-55 at wire India 2022, Mumbai



Volumetric Colour Change System with Venturi Conveyors and Automatic Cleaning



PLASTICOLOR Dosing Units



PLASTICOLOR Volumetric Mixing Station



PLASTICOLOR "Loss-In-Weight" Gravimetric Mixing Station

wire Southeast Asia 2022 Concludes Successfully

The regional trade fair for the wire & cable sector was held from 5 to 7 October 2022 at BITEC in Bangkok.

Wire Southeast Asia, one the leading regional trade fairs for the wire & cable sector, presented the latest technologies from 5 to 7 October 2022 concurrently with the foundry and metallurgy trade fairs, GIFA Southeast Asia and METEC Southeast Asia, at BITEC in Bangkok, Thailand. A total of 244 exhibitors from 32 countries including India participated in the exhibition to demonstrate the innovative power of their key technologies. The event witnessed a footfall of 6,000 trade visitors from 60 countries primarily from Australia, Bangladesh, India, Indonesia, Malaysia, Pakistan, Vietnam, and Singapore.

Various machines and equipment for wire making, processing and wire finishing, accessories, measuring, control, and test engineering as well as new and further developed special wires and cables were on display. The visitors of the trade fairs were producers, upstream suppliers and buyers from the wire, cable, automotive, construction, energy, and electrical industries.

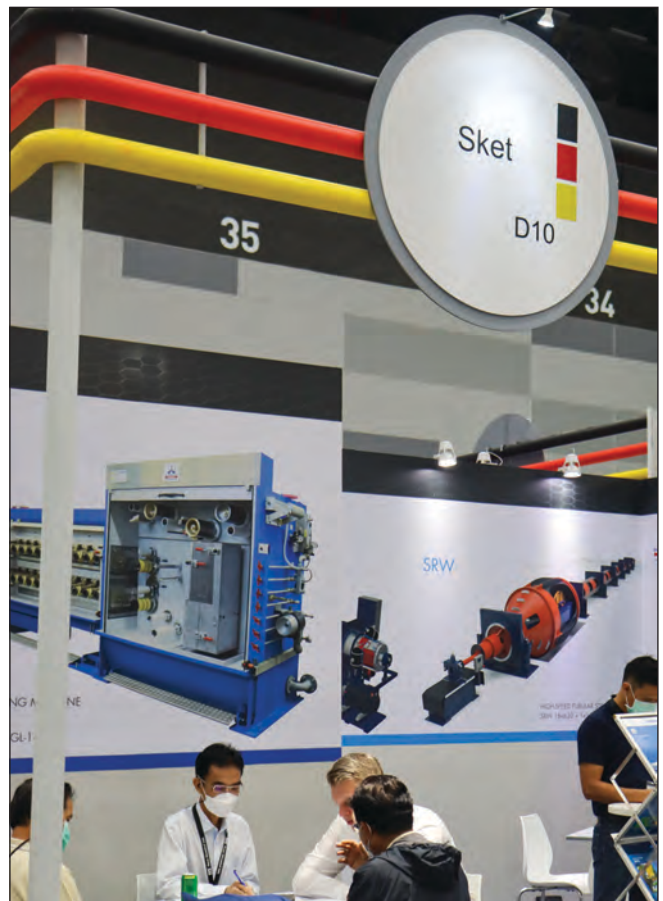
For the first time, companies from the foundry and metallurgical sectors of industry showcased their technologies concurrently at GIFA Southeast Asia and

METEC Southeast Asia – thereby completing the value chain of the manufacturing, metal-working and finishing industry. The background to extending the industrial trade fairs in Asia was the rising demand for machinery, equipment, and products for Southeast Asia's growing infrastructure.

Since 1997, the key players in the wire and cable sectors have presented themselves at wire and Tube SEA in Asia every two years. The specialist trade fair has set the bar as the region's leading trade-focused platform for international exhibitors to showcase their latest wire and cable processing equipment and machinery, products and solutions to key local and global manufacturers, suppliers, and service providers for the wire, cable, spring-making and fastener industries.

Held alongside the synergistic Tube Southeast Asia, both trade events brought together around 400 exhibitors from over 30 countries, providing an attractive focal point and springboard for both international companies and local businesses wanting to make their foray into Asia's markets. The next edition of the event is expected to be hosted in Bangkok from 20 to 22 September 2023.





EVENT CHRONICLE





Maillefer Introduces THC 50/90 for MV & HV Cable Production

N • E • W • S

Maillefer's THC 50/90 has optimised Bi-Flow distributors which enable accurate wall thickness, centricity, and roundness of the cables.

November 11, 2022

Maillefer has introduced a new member to its conical crosshead family – THC 50/90. It is a perfect solution for medium and high-voltage cable production.

Its optimised Bi-Flow distributors enable accurate wall thickness, centricity, and roundness of the cable. Short residence times, streamlined flow channels, and efficient water tempering allows long production lengths and smooth layer surfaces.

The centering of all layers can be adjusted independently. Conical flow pieces are made of nitrided steel to ensure continuity in production for many years.

Benefits of the THC 50/90:

- Three-layer extrusion for MV and HV insulations up to 132 kV
- Accurate cable dimensions
- Long continuous production lengths



Maillefer THC 50/90

- Wide production range
- Easy handling with low damage risk
- Fast setup time. ■

Polycab Launches New Television Commercial Advocating the Use of Green Wire

With five-in-one Greenshield technology, Polycab Green Wire promises to ensure fire safety, energy efficiency, and shock protection besides being long-lasting and eco-friendly.

October 24, 2022

Polycab, one of India's leading manufacturers of cables and wires, has launched its latest television commercial nudging people to pay attention to the quality of wires. The new TVC advocates the use of Polycab green wire for safety. Conceptualised by Ogilvy India, the commercial features a father who adds to the load to build a stadium to fulfill his daughter's dream. The campaign around this film has been activated under the hashtags #AapkeSapnoKoRakheSafe and #ExtraSafePolycabGreenWire.

Mr. Nilesh Malani, President, and Chief Marketing Officer, Polycab India Ltd. calls the latest campaign 'a refreshing approach weaving an emotional charm which will have universal resonance and relevance'. With five-in-one Greenshield technology, Polycab Green Wire promises to



A still from the AD Campaign.

ensure fire safety, energy efficiency and shock protection besides being long-lasting and eco-friendly.

"It is our endeavour that Polycab Green Wire carries forward our brand promise of being connected with our customers," added Mr. Malani. Polycab was recently an associate sponsor on Star Sports for the broadcast of the T20 World Cup held in Australia. ■

Nexans to Acquire Reka Cables from Reka Industrial

This acquisition will strengthen Nexans' position in the Nordics notably in electricity distribution and usage.

November 10, 2022

Nexans SA has entered into a share purchase agreement with Reka Industrial Plc to acquire Reka Cables. This acquisition will strengthen Nexans' position in the Nordics notably in electricity distribution and usage. Nexans will acquire Reka Cables for an equity price of EUR 53 million, including a financial net debt of EUR 6.5 million as of the end of September 2022. Completion of the transaction is expected to take place in the first half of 2023. Nexans expects to fund the acquisition with a mix of available cash and debt.

Founded in 1961, Reka Cables is active in the manufacturing of low and medium voltages cables for usage and distribution applications. The company is one of the leaders of the Finnish market operating in four countries and benefits from a premium reputation in the Nordics.

Mr. Christopher Guérin, Nexans CEO, said, "With a deep commitment to energy transition and carbon neutrality, Reka Cables is fully aligned with the Group's strategic ambition to become a Pure Electrification Player committed to contributing to carbon neutrality by 2030. This premium Finnish operation will further contribute to Nexans' ability to



Image Source: Nexans

serve our Nordic customers with high-quality and safe cables in the region. I am convinced that these operations will benefit the teams of both Reka Cables and Nexans, with synergies and development opportunities ahead of them."

Mr. Jukka Poutanen, CEO, Reka Cables, emphasised, "The Reka Cables' team has consistently delivered high-quality cables. As a global player in electrification and an active promoter of the energy transition, Nexans is a great fit for Reka Cables." ■

Motherson Inaugurates New Facility in Morocco

The new plant, which spans 15,000 sq m, will be focussed on plastic injection moulding and state-of-the-art processes such as high-precision robot-aided milling, plastic welding, and airbag integration solutions.

October 6, 2022

Mr V. C. Sehgal, Chairman of Motherson, inaugurated Motherson's new facility in Tanger Med Industrial Platform, Morocco. The inauguration ceremony was attended by representatives from the Moroccan Government and Administration, Tanger Med Group, and the key players from the automotive industry.

This new facility is a part of Motherson's Modules and Polymer Products division and will produce interior modules and components like instrument panels and door panels for passenger vehicles and light commercial vehicles. This is Motherson's latest facility in Morocco, replacing the existing Tétouan site which was established in 2010.

The new 15,000 sq m facility (which is double the size of the existing facility) will employ 300 people at peak production whose highly skilled capabilities will focus on plastic injection moulding and further state-of-the-art processes such as high-precision robot-aided milling, plastic welding, and airbag integration solutions. The improved proximity to the customer will help in saving transportation costs and the expanded capacity will allow Motherson to provide more employment and growth opportunities in Tangier.

Motherson's expansion plans in Tangier include the establishment of in-house capabilities for high-quality soft-touch surfaces for automotive interior parts based



The inauguration ceremony of Motherson's new facility.

on modern polymer-based finishes. Motherson's ongoing successful operations in the region strengthen the company's global position as a leading automotive solutions provider and a trusted long-time partner to its customers by contributing to their future production needs and growth.

Mr. V C Sehgal, Chairman, Motherson states, "Morocco is a very strategic location for Motherson due its proximity to Europe and the Middle East. This new facility will help us in serving our existing as well new customers better in these regions. We highly appreciate the continuous support of the Moroccan government and Tanger Med teams to accelerate investment in Tangier. We are committed to continuing our efforts to support the automotive sector in this region to enable it to reach its full potential." ■

Tata Steel's Board Gives a Nod to Proposed Integration Plan of its Subsidiaries

The integration of the subsidiaries is aimed at enabling growth in value-added segments and is also aligned with Tata Steel's long-term growth plans.

September 28, 2022

Tata Steel Ltd.'s Board of Directors has approved and considered the proposed merger of seven of its subsidiaries with itself. The decision regarding the amalgamation plans was announced at a recently held board meeting.

As per the press release by the steel major, the subsidiaries are all majority owned by Tata Steel and include Tata Steel

Long Products Ltd. (74.91 percent equity holding), The Tinsplate Company of India Ltd. (74.96 percent equity holding), Tata Metaliks Ltd. (60.03 percent equity holding), TRF Ltd. (34.11 percent equity holding), and The Indian Steel & Wire Products Ltd. (95.01 percent equity holding). Also included in the merger are its two wholly-owned subsidiaries, Tata Steel Mining Ltd. and S & T Mining Company Ltd.

"The proposed amalgamations will enhance management

efficiency, drive sharper strategic focus and improve agility across businesses based on the strong parental support from Tata Steel leadership. In line with Tata Steel's long-term strategy, the consolidation of the downstream operations will enable growth in value added segments by leveraging Tata Steel's nationwide marketing and sales network," says Tata Steel in the statement.

The steel manufacturer considers synergies through raw material security, centralised procurement, optimisation of inventories, reduced logistics costs, and better facility utilisation, as the major advantages. The conglomerate also believes that there will be a further reduction of overhead and corporate costs after the conclusion of the merger. ■



Tata Steel Ltd. has approved the merger of seven of its subsidiaries

APAR Industries' latest TVC campaign “The APAR Magic of Sonu Sood”

The ad campaign, featuring Sonu Sood, promotes the range of APAR Anushakti wires, which are powered by e-beam technology.

October 27, 2022

APAR Industries Ltd has released its first-ever television commercial which features its brand Ambassador Mr. Sonu Sood, endorsing the company's range of electrical wires powered by e-beam technology.

The ad campaign builds on the 'ever-happy-to-help' persona of Sonu Sood. Kittu, a young boy in Kerala, faces a short-circuit problem at home due to the electrical wires burning out. He messages Mr. Sood to send him APAR electrical wires, and the actor happily obliges. Their flagship product APAR Anushakti travels from Sonu to Kittu through a beautiful scenic route.

On the release of the campaign, Mr. Kushal Desai, Chairman and Managing Director of APAR Industries, said, “Sonu Sood is known to give his best to solve problems for those in need, providing resources or security and even saving people's lives. Similarly, APAR brings APAR Anushakti wires to provide the nation with wires which can save lives and address the need of the hour, providing sustainable, superior, long-life wiring for the rapidly growing energy demands of the nation. What's more of course is, Sonu comes to the rescue with positive, light-hearted charisma, as he always does.”



The AD commercial features the renowned film personality Sonu Sood.

“APAR has a growing network across India. Our TVC is rolling out initially in Kerala and through social media and digital outreach and on-ground activations, 'isstaar ki shakti', will spread across Gujrat, Andhra Pradesh, Telangana, Tamil Nadu, Karnataka, Maharashtra, Delhi, Haryana, Assam, and West Bengal in the coming months. APAR Anushakti is gaining rapid acceptance and is becoming the wire of choice for customers,” added Ms. Gaurangi Desai, Head – Branding, APAR. ■

Linxon Secures Electrification Contract worth INR 360 Cr for Chennai Metro

As per the contract, Linxon will be responsible for the design, manufacturing, installation of substations, overhead electrification (OHE), and SCADA for two stretches in the phase II project.

November 7, 2022

Linxon Pvt. Ltd. has secured the electrification contract for the phase II project of the Chennai Metro. As published in media reports – Linxon will execute the overhead electrification-related works on two stretches. Also, the contract is intended for phase II – Corridor 3 & 5 of the metro network in the city.

As per the Chennai Metro Rail Ltd (CMRL) officials, the scope of the contract includes the design, manufacturing, installation of substations, overhead electrification, and SCADA (Supervisory Control and Data Acquisition) for two stretches in the phase II project, which include CMBT to Shollinganallur and Shollinganallur to SIPCOT.

Additionally, there will be three corridors in the phase II project — Madhavaram to SIPCOT (corridor 3 - 45.8 km), Light House to Poonamallee (corridor 4 - 26.1 km), and Madhavaram to Shollinganallur (corridor 5 - 47 km). These three corridors will cover over 118.9 km at INR 61,843 crore.

Within the contract, the electrification covers two stretches which fall under two corridors. While the CMBT to



Chennai Metro Rail

Shollinganallur stretch will be a part of the Madhavaram to Shollinganallur corridor, the Shollinganallur to SIPCOT will be covered under Madhavaram to SIPCOT corridor.

The work will begin after the construction of stations and the viaduct and the laying of tracks. Presently, construction work is underway across the city. Chennai Metro Rail's primary focus and priority will be on completing the work between Poonamallee and Power House because this stretch will be the first one to be opened to the public in three years. ■

KEC Delivers Strong Revenue Growth of 13 Percent in Q2 and 20 Percent in H1

KEC has registered a robust YTD order intake of INR 10,465 crore, registering a growth of 25 percent.

November 7, 2022

KEC International Ltd., a global infrastructure EPC major and an RPG Group Company, has announced its results for the second quarter (Q2 FY23) and half year (H1 FY23) that ended September 30, 2022.

Consolidated Financial Performance:

In Q2 FY23, the revenue registered was INR 4,064 crore as against INR 3,587 crore in Q2 FY22. Also, in the H1 FY23, the revenue was Rs. 7,382 crore while it was INR 6,127 crore in H1 FY22.

The EBITDA was INR 178 crore in the quarter under review while it was INR 253 crore in the corresponding quarter of the previous fiscal. The EBITDA of H1 FY23 was INR 346



The YTD Order Book was INR 27,569 crore, as per the quarterly results shared by KEC International.

crore as compared to INR 413 crore in H1 FY22.

The EBITDA Margin (Y-o-Y) in Q1 FY23 was 4.4 percent as against 7.1 percent in Q1 FY22. Moreover, the EBITDA Margin in H1 FY23 was 4.7 percent while it was 6.7 percent in H1 FY22. The EBITDA Margin (Q-o-Q) in the quarter under review was 4.4 percent as against 5.1 percent in the corresponding quarter of the previous financial year.

The YTD (Year to Date) order intake was INR 10,465 crore, registering a robust growth of ~25 percent on a YoY basis. Further, the YTD Order Book was INR 27,569 crore including orders released in Q3 FY23 to date, a healthy growth of ~25 percent YoY basis. Additionally, the Level 1 (L1) Assets were over INR 6,500 crore.

Mr. Vimal Kejriwal, MD & CEO, KEC International Ltd. commented, "We have delivered a strong growth in revenues and order intake. The margins continue to be impacted due to the elevated logistics costs, execution of legacy projects with adverse commodity prices and SAE Brazil performance. We have significantly reduced our exposure to legacy projects and have commenced execution of projects which are secured based on current commodity prices and logistics costs. This augurs well for us and gives us confidence of a sequential improvement in the margins in the quarters to come. Based on the traction in order intake, record order book + L1 of over Rs 34,000 crore and a healthy tender pipeline, we are confident of delivering continued strong growth in the coming quarters." ■

Vedanta- The First Indian Aluminium Business to Receive the BIS certification

Vedanta's aluminium products, which are now BIS certified, further boost Indian customers' confidence that the aluminium they buy is certified as per BIS quality standards.

November 11, 2022

Vedanta Aluminium, India's largest producer of aluminium, has announced that its products are now Bureau of Indian Standards (BIS) certified. With this, it has become the first in the Indian aluminium business to secure the BIS certification for its large range of aluminium products as per available BIS quality standards.

The products certified include: Wire Rods, Primary Ingots, Alloy Ingots and Cast Bars manufactured at Vedanta Aluminium's Jharsuguda plant in Odisha Rolled Products (Sheet, Plate-Conductors and Plate-General Engineering), Wire Rod, Alloy Ingots, and Primary Ingots manufactured at BALCO, the company's subsidiary in Chhattisgarh.

In total, the company has received 15 certifications for its products and their applications across diverse customer industries, such as electrical, automotive, engineering etc. These certifications reiterate Vedanta Aluminium's promise of making quality and reliability the key attributes of its product offerings. The company is also collaborating with BIS to develop standards for aluminium products and raw materials for which appropriate quality standards do not exist currently.

Vedanta's aluminium products are registered with the London Metal Exchange (LME), an undisputed testimony to their international quality standards. The company has now proactively sought the BIS certifications to further boost Indian customers' confidence that the aluminium they buy is certified by the country's highest authority on quality standards. To achieve this, Vedanta Aluminium deploys



Image Source: Vedanta Aluminium

some of the world's best technologies in metal manufacturing, uses sophisticated processes, deep R&D and works with emerging-tech start-ups and experts from around the world. Owing to this, the company continues to be a preferred supplier to customers in nearly 50 countries.

In the words of Mr. Rahul Sharma, CEO – Aluminium Business, Vedanta Ltd., "Aluminium will be indispensable to a low carbon future, with its limitless potential for applications in clean energy solutions, electric mobility, green buildings, high-tech manufacturing, sustainable packaging and more. Therefore, Vedanta Aluminium has robust systems in place to understand and exceed customer expectations."

He further added, "The BIS certifications for our products

show that Indian manufacturing is synonymous to high quality, the benefits of which are being passed on to the end consumer. In India's journey to become a global manufacturing powerhouse, we are proud flag-bearers of the nation's manufacturing prowess."

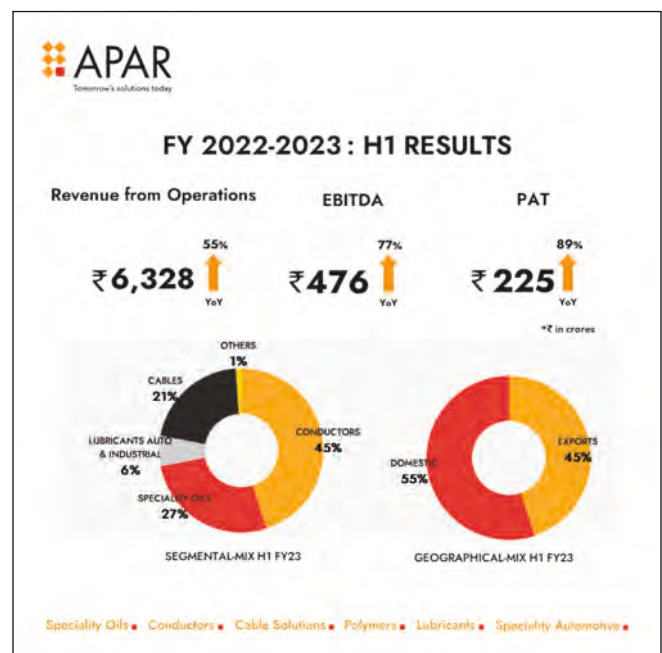
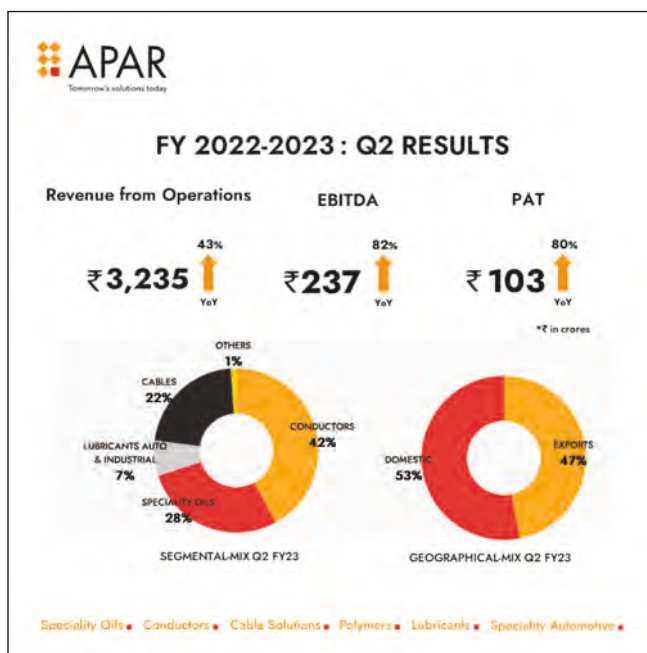
Sharing his views on the certification, Mr. Jagannath Majhi, Head, BIS – Bhubaneswar, said "Vedanta Aluminium has displayed immense proactiveness by coming forward voluntarily to certify its product range through the comprehensive standards established by BIS. An uncompromising focus on quality is the hallmark of any great organisation,

and Vedanta deserves praise for pioneering new benchmarks in this regard. I am sure that this move will encourage several other organisations to collaborate with BIS to ensure quality product offerings for consumers."

The company currently produces one of the largest ranges of aluminium products. Vedanta Aluminium's products such as Restora Low Carbon Aluminium, Billets, Wire Rods, Alloy Ingots & Cast Bars, AlSi T-Ingots, Slabs, Rolled Products, etc. cater to a vast spectrum of industries, from aerospace to automobiles, building & construction, electrification, engineering, packaging, consumer goods and more. ■

APAR Industries Posts Strong Revenue Quarter

The revenue of the cable solutions grew 79 percent YoY in Q2FY23.



APAR Industries Ltd. has announced its quarterly and H1 2022 results.

November 3, 2022

APAR Industries Ltd. has announced its consolidated results for the second quarter and half year that ended September 30, 2022. For cable solutions, Q2 revenue grew 79 percent YoY, led by strong growth in exports and elastomeric products. The exports contributed 50 percent of sales and EBITDA post forex adjustment improved to 9.2 percent in Q2FY23.

The revenue of the conductor segment reported a growth of 33 percent YoY with volumes growing 4 percent YoY during Q2. EBITDA for the quarter came in at INR 123 Cr. (up 143 percent YoY).

Key Financial Highlights: H1FY23

- Revenue at INR 6,328 cr; up 55 percent YoY
- EBITDA at INR 476 cr; up 77 percent YoY
- PAT at INR 225 cr; up 89 percent YoY

• Q2FY23

- Revenue at INR 3,235 cr; up 43 percent YoY
- EBITDA at INR 237 cr; up 82 percent YoY
- PAT at INR 103 cr; up 80 percent YoY

Mr. Kushal N Desai, Chairman & MD of APAR Industries, said, "We witnessed a strong quarterly and half-yearly performance both on the top line as well as on the bottom line. We achieved historic high half-yearly revenue and PAT with all three divisions contributing to the growth. The current geopolitical, macro environment and the level of infrastructure spends are providing a better platform for us. In addition, there is a strong push towards renewable energy across the globe. We remain optimistic to tap the opportunities coming our way. For the company, the growth drivers remain strong." ■

Mohan Pandit of LMI (India) Receives Platinum Business Award

The award ceremony, which was graced by BJP Leader Manoj Kumar Tiwari and Central Minister General V.K. Singh, was organised to laud businesses which are small and medium in scale.

October 4, 2022

In an event organised by Dainik Jagran and ICC Media, Mr. Mohan Pandit, Director (Marketing & Sales), LMI (India) Pvt. Ltd. was conferred with Platinum Business Award. The event aimed to encourage the efforts of entrepreneurs in small and medium-sized enterprises.

Held in a five-star hotel, the show felicitated around 25 entrepreneurs from Delhi and NCR. Reportedly, the Minister of State in the Ministry of Road Transport and Highways & Ministry of Civil Aviation General (Retd.) Dr. V.K. Singh was the chief guest and BJP Member of Parliament Manoj Kumar Tiwari was the distinguished guest at the award ceremony. Mr. Ravi Kumar Pandey, Associate Vice President (Marketing), Delhi/NCR, Dainik Jagran was also present at the event.

In his speech, Mr. Singh said that quality is the brand ambassador of an enterprise. Some of the other entrepreneurs who received the award were Mr. Rohit Sharma, MFS Formwork



Mr. Mohan Pandit, Director (Marketing & Sales), LMI (India), receives the Platinum Business Award.

Systems, Mr. Atul Kumar Sachan, CEO, Maxim E-Vehicles, Mr. Pradip Kumar Verma, MD, Accord Transformer & Switchgear, Mr. Sunil Shah, MD, Surbhi Glass, Mr. Hemant Kumar, MD, Prayag Steel Rolling Mill, Mr. Ashish Baldawat, CEO, Oregonal Electricals, and Mr. Dipanshu Mehta, MD, Ma Luxmi E-vehicles, among others. ■

Mehta Cad Cam Systems Showcases Products at SGI Dubai 2022

The Middle East's largest sign and graphics imaging show, SGI Dubai 2022 was held at Dubai World Trade Center from September 19 to 21.

October 28, 2022

Mehta Cad Cam Systems Pvt. Ltd. participated in SGI Dubai and was a point of attraction. Corporate visitors from GCC countries, the Middle East, Africa, Europe, and Asia visited Mehta Cad Cam's stall during these 3 days of events. The company sold many machines during just the first few hours of the event.

Mr. Parikshit Jain, Director, Arona Trading LLC, their distributor for the Dubai/UAE region for years, said, "Mehta's machines are at par with Chinese machines in terms of price comparison and at par with European machines in terms of quality."

Mehta Cad Cam has displayed a few of their vast range of digital printers like Solvent printer with Seiko print head called PRINCE, an Eco solvent printer with an Epson i3200 print head called BRUNO, a Rasterjet UV flatbed printer with a roll-to-roll attachment and small size UV flatbed printer 9060 with Epson i3200 print head called EMICO.



Mehta Cad Cam Systems in SGI Dubai.

The company also displayed a high-speed CO2 laser engraving and cutting machine, flatbed cutting plotter, and CNC Router for 2D and 3D engraving, having multiple applications in this industry as a whole. All these three days were busy and exciting times for Mehta's India team and Arona's Dubai team. For over 25 years, SGI has always attracted global brands to exhibit their products. Mehta's successful participation in SGI proves India's strong presence across countries. The world is looking towards India to provide the best technological solutions at the most affordable prices. Mehta's "Made in India, for the World" proves the same thing. ■

HFCL's Subsidiary HTL sets up a Polymer Compounding Unit in Hosur

According to the HFCL's statement, the new polymer compounding unit would improve profitability in the optical fibre cable business.

September 29, 2022

HFCL Ltd. has announced that its subsidiary HTL Ltd. has established a state-of-the-art polymer compounding manufacturing facility at its Hosur plant in Tamil Nadu. This marks a backward integration for the telecom major as the polymers are required as raw materials in optical fibre cable (OFC) manufacturing.

"With an installed production capacity of 24000 MT per annum, this backward integration will ensure seamless availability of Polyolefin-based compounds of various grades & colours as required for HFCL's plants at Goa, Hyderabad & HTL Chennai," said HFCL in a statement.

The new facility would pave the way to improving their profitability since these polymers are a significant cost component in the production of optical fibre cables being supplied to domestic and export markets, the Company added.

The plant in Hosur already manufactures various necessary raw materials required for OFC such as Aramid/Kevlar Rods (ARP), Fibre Reinforced Plastic (FRP) Rods, and Impregnated Glass Fibre Reinforcement (IGFR). ■



Image Source: HFCL

Corning Inaugurates Optical Fibre Manufacturing Plant in Poland

Corning's new plant is one of the largest in the European Union and is a part of the Company's global investments in optical fibre cable manufacturing.

September 21, 2022

Corning Incorporated has inaugurated a new optical fibre manufacturing facility in Mszczonów, Poland, in view of the growing demand for high-speed connectivity in the European Union and surrounding regions.

The production plant, one of the largest optical fibre plants in the EU, is the Company's new investment in a series of global investments in fibre and cable manufacturing totalling more than USD 500 million since 2020, supported by growing demand and strong customer commitments.

The new facility would add about 250 employees to the company's workforce of more than 3,000 in Poland and builds on Corning's successful 20-year history of manufacturing in the region. It provides Corning with advantaged



Image Source: Corning Incorporated

access to talent through the skilled workforce and technical training available in the greater Warsaw area. Corning manufactures optical cable and connectivity components at its campus in Stryków.

"We congratulate Corning on the opening of this advanced manufacturing facility for the fiber that forms the backbone of the internet," said Mr. Józef Kurek, mayor of Mszczonów. "High-speed connections will come to more people and more communities in Europe thanks to the fibre that Corning will make here in Mszczonów. We are pleased that Corning turned again to this region's talented workforce to bring its innovations to life."

Corning is also expanding its manufacturing capacity in the United States to meet growing bandwidth demand in North

America. In August the company announced it will open a cable manufacturing plant near Phoenix, Arizona. A cable manufacturing expansion announced last year in North Carolina is currently ramping up. By adding fiber manufacturing capacity in Poland, Corning will be able to increase local supply and manufacturing to serve global markets.

"Corning is expanding its fiber manufacturing operations in Europe as our customers accelerate investments in future-ready networks," said Corning Chairman and Chief Executive Officer Mr. Wendell P. Weeks. "From broadband to 5G to cloud computing, tomorrow's networks all depend on optical fibre. This facility will ensure we can continue to efficiently serve our customers in Europe and beyond. We appreciate the support of state and local officials, and the dedication of our skilled workforce." ■

STL Launches Multiverse - India's First Multicore Fibre and Cable

Conceptualised and developed indigenously at STL's Centre of Excellence in Maharashtra, Multiverse leverages Space Division Multiplexing to gain 4X transmission capacity per fibre, within the same diameter.

October 1, 2022

Sterlite Technologies Ltd. (STL) has launched India's first Multicore fibre and cable. This breakthrough innovation is expected to change the optical connectivity landscape of India. Conceptualised and developed indigenously by R&D experts at STL's Centre of Excellence in Maharashtra, Multiverse leverages Space Division Multiplexing to gain 4X transmission capacity per fibre, within the same diameter.

Talking about the development, Mr. Randeep Sekhon, CTO, Bharti Airtel said, "I am excited to see this optical fibre innovation from a homegrown company. STL's Multiverse fibre and cable will enable 4X capacity and play a vital role in 5G scale-up. I wish STL all the very best for their efforts towards supporting network build outs."

STL Multiverse offers features that can revolutionise connectivity for network builders:

- High capacity per 5G cell site: It's now possible to connect multiple radio heads through a single Multicore fibre and reduce the cabling footprint for 5G networks.
- Quad-core fibre connectivity in data centres: Today, most advanced fibre cables have ~7000 cores. This advancement takes it upto ~28000 cores, thereby powering connectivity for warehouse-scale computing.
- Quantum communication feasibility: The growth of quantum communication is expected to support the co-



Image Source: STL

existence of quantum communication and telecommunication channels. Multicore fibre offers exciting possibilities in this emerging area.

- Carbon footprint reduction: This greenest-ever optical fibre reduces cable surface area by ~75 percent and plastic in the ground by ~10 percent.

"We have been doing deep research on optical fibre for over 15 years. In the last three years, we have been able to excel in Multicore technology and indigenously developed this product. We are proud to be the first in India to launch this. STL's Multiverse will revolutionise 5G and data center connectivity, actualise quantum computing at scale and make the internet greener," added Dr. Badri Gomatam, CTO, STL. ■

HFCL to Invest INR 425 crore under PLI Scheme

The company would invest this amount towards the development and manufacture of futuristic telecom.

November 1, 2022

Domestic telecom gear maker HFCL will invest around INR 425 crore for manufacturing equipment under the production-linked incentive scheme in the next four years. The company would invest this amount towards the development and manufacture of various eligible products under the PLI scheme.

Apparently, HFCL is one of the 42 companies selected for the telecom PLI scheme which enables it to avail incentives up to INR 652.79 crore. The incentive amount will be distributed over a period of 5 years commencing from FY 2022-23 to 2026-27, allowing HFCL to be more competitive globally.

The company has got approval from Small Industries Development Bank of India (SIDBI), Project Management Agency (PMA) and Competent Authority designated by the Centre on its application for participation in the PLI scheme.

Talking about the development to leading English daily, Mahendra Nahata, MD, said that the approval would help the company to improve its margins and enable it to emerge as a front-runner in the competitive global market. "Given our



current focus on R&D, we are committed to investing Rs 425 crore for the development and manufacturing of futuristic telecom products," he said, adding "We aim to make India a global manufacturing hub for telecom and networking products and believe that this initiative will enable our nation in expanding the manufacturing and development of the indigenous latest technology products." ■

STL is World's First Optical Manufacturer to be 'Zero Liquid Discharge' Certified

Water management is a top priority in the materiality matrix of STL and is also one of its UN SDG goals of 'Water Positivity by 2030'.

October 20, 2022

STL has announced that all of its Indian manufacturing facilities are now Zero Liquid Discharge (ZLD) certified by the leading ISO certification body Deutsch Quality Systems (DQS India). This is a great milestone for STL in its UN SDG goal of – 'Water Positivity by 2030'.

It has been calculated that India presently has only 4 percent of the world's freshwater reserves while the demand is expected to grow by over 70 percent by 2025. At STL, water management is a top priority in its materiality matrix which has led to developing water-resilient communities and undertaking rainwater harvesting & technology interventions to optimise water demand as per ZLD protocols, according to the press release.

The water management process is carried out through Sewage (STP), Effluent Treatment (ETP), and Multi-effective



STL says that water management is highly prioritised in its materiality matrix.

Evaporator (MEE) plants, at the Company. The ZLD process also includes an in-depth understanding of the liquid waste profiles and in-plant modifications to minimise water usage. After chemically treating the wastewater to remove chlorine and solid particles, there's a three-tiered centrifugation performed to remove salt and suspended particles, making it fit for reuse in boilers and scrubbers. The process is digitally monitored using a Supervisory Control and Data Acquisition (SCADA) architecture and shift dashboards.

Commenting on the achievement, Ms. Akanksha Sharma, Global ESG Head, STL, said, "Water conservation and re-use is top of the agendas of the companies committing to

sustainable business practices. The ZLD certification for all our manufacturing locations in India depicts our conviction that with the right technical innovation, intent, and ecological foresight, it is possible to conserve water and put it to re-usage while operating sustainably."

STL has implemented this ZLD framework for all six manufacturing plants across Aurangabad and Silvassa, in Maharashtra, India. A combination of relevant initiatives has enabled the Company to recycle over 45,000 m³ of wastewater from manufacturing in FY22 across all its manufacturing facilities. ■

HFCL Bags Order worth INR 115 crore for Supply of Optical Fiber Cables

The company will be executing the purchase order by January 2023.

November 1, 2022

H FCL Ltd. has received a purchase order from Reliance Projects & Property Management Services Ltd. (formerly Reliance Digital Platform & Project Services Ltd.) worth INR 115 crore. The company will provide optical fiber cables to one of the leading private telecom operators in the country. The order is expected to be executed by January, next year.

Founded in 1987, HFCL has been operating in various segments such as manufacturing, R&D, and turnkey solutions. It is a leading manufacturer of optical fibre cables, optical transport, power electronics, and broadband equipment for the telecommunication industry.



Optical Fibre Cables

The company is committed to providing cost-effective futuristic end-to-end telecom solutions with a focus on developing state-of-art technologies to maintain sustained long-term growth. ■

2Africa cable Lands in Marseille, France to Strengthen Interconnectivity with Africa

At 45,000 km, the 2Africa cable is set to become the longest submarine cable ever deployed. Carried by a consortium of international operators, the system will be operational in 2023.

November 8, 2022

The 2Africa consortium, comprised of China Mobile International, Meta, MTN GlobalConnect, Orange, STC, Telecom Egypt, Vodafone, and WIOCC, would be landing the 2Africa cable in Marseille, France. 2Africa, which is touted to be the largest subsea cable project in the world, is expected to connect 33 countries from 2023, delivering faster & more reliable internet service to each country. It lands and links three continents: Africa, Europe and Asia. The arrival in Marseille follows successful European landings in Genoa,

Italy and Barcelona, Spain earlier this year.

Vodafone, the landing partner in Marseille, has partnered with the Port of Marseille Fos and Digital Realty, the world's largest provider of carrier-neutral data centre, colocation and interconnection solutions to telecom and cloud providers, to land the world's longest submarine cable. With the landing of this cable, the city of Marseille strengthens its position as a data exchange hotspot and aims to become one of the top five Internet hubs internationally.

At 45,000 km, the 2Africa cable is set to become the longest



2Africa Subsea Cable. Image Source: Meta

submarine cable ever deployed. Carried by a consortium of international operators, the system will be operational in 2023 and will have a nominal capacity of up to 180 Tb/s and will comprise 16 fiber pairs. With the potential to connect

more than three billion people across Africa, Europe and Asia, it should ultimately increase the economic potential of the African continent tenfold, promote data transfer and develop business opportunities. ■

TRANSMISSION & DISTRIBUTION

India Saves around USD 4 Billion in Fuel Costs through Solar Generation, says Report

Solar generation in India avoided the need for 19.4 million tonnes of coal which would have further stressed an already strained domestic supply.

November 11, 2022

According to a recently released report by a global thinktank for energy Ember, India has saved around USD 4.2 billion in fuel costs through solar generation in the first half of 2022 and 19.4 million tonnes of coal. The report further stated that the contribution of solar generation in China, India, Japan, South Korea, Vietnam, the Philippines and Thailand - the seven key Asian countries - avoided potential fossil fuel costs of almost USD 34 billion from January to June 2022.

The report further suggests that the majority of the estimated USD 34 billion savings are in China, where solar contributed to 5 percent of the total electricity demand. The country was able to avoid around USD 21 billion in additional coal and gas



Representative Image: Solar Energy

imports during the period. Similarly, Japan and Vietnam avoided USD 5.6 billion and USD 1.7 billion fossil fuel costs respectively. While the growth in solar was slower in Thailand and the Philippines, the avoided fuel cost was still notable. ■

KEC International Wins New Orders of INR 1,108 crore

In the T&D business, KEC International has bagged T&D orders as well as cabling projects in India, the Middle East, and Africa.

September 13, 2022

KEC International Ltd., a global infrastructure EPC major and an RPG Group Company, has secured new orders of INR 1,108 crore across its various business segments.

In the 'Transmission & Distribution (T&D)' segment, the company has secured orders for T&D and cabling projects in India, the Middle East, and Africa. In India, the business has won a 400kV transmission line order from the Power Grid Corporation of India Ltd. (PGCIL) and 132kV underground cabling order from a state utility. Internationally, the company has secured the 220kV transmission line and tower supply orders in the Middle East, secured by the UAE subsidiary and the 330kV transmission line order in Africa.

'Railways' business has secured orders in the technologically enabled and conventional/ emerging segments in India. It includes the overhead electrification (OHE) for Metro – order for overhead electrification (OHE), auxiliary power supply, SCADA system, and associated works. KEC has also won order for Train Collision Avoidance System (TCAS) – for signaling & telecommunication works of TCAS under 'Kavach' in a consortium. In addition, the business has won composite order for the doubling of tracks and associated civil works.

The business has secured an order for the laying of a cross-country pipeline and associated works in India within the 'Oil & Gas Pipelines' segment.



In the Oil & Gas pipelines division, KEC International has secured orders for the laying of cross-country pipeline.

Commenting on the new orders, Mr. Vimal Kejriwal, MD & CEO, KEC International Ltd., said, "We are delighted with the new order wins, especially in Railways, which is witnessing a gradual uptick through orders in both conventional and new segments. The business has secured its maiden order in the prestigious TCAS segment under 'Kavach,' which aims to enhance the safety of Indian Railways with world-class technology. The orders in T&D have expanded our order book, especially the third order from PGCIL in quick succession. These orders, along with the orders announced earlier during the year, will significantly contribute towards our growth in the Domestic T&D market. The order in the Oil and Gas Pipelines further enhances the business' order book." ■

Sumitomo Electric Completes Long-Term Test for 525kV Cross-Linked Polyethylene Submarine Cable

In view of the rising demand for renewable energy sources, HVDC cable technology is becoming increasingly preferred because it is suitable for long-distance power transmissions. Sumitomo 525 kV DC XLPE submarine cable system can supply the highest voltage for XLPE cables.

September 30, 2022

Sumitomo Electric Industries, Ltd. has completed the testing of its 525 kV cross-linked polyethylene (XLPE)-insulated high-voltage direct current (HVDC) submarine cable system in accordance with the international standard CIGRE-TB496. Also, a third-party certification body

has approved the completion of the test.

With the increasing capacity of renewable energy sources and the necessity of long-distance power interconnectors between different countries and regions, HVDC cable technology has been gaining significant attention in the global market.

The technology is suitable for long-distance power transmission. Sumitomo Electric has recently completed a long-term test for its 525 kV DC XLPE submarine cable system, which can supply the industrial highest voltage for XLPE cables.

This system is capable of operating at 90 °C and transmitting large capacities



The HVDC Submarine Cable system can operate at 90°C and transmit more than 2 GW.

exceeding 2 GW, thanks to the Company's unique cable insulation technology using DC-XLPE compound and special fillers. Also, its cable system has been qualified with flexible factory joint, offshore joint and transition joint to onshore cable, which will enable us to propose better solutions to projects which require long-distance and large-capacity power transmission.

In response to decarbonisation policies in various countries, there has been a boom in the launch of renewable energy projects such as offshore

wind power generation and the construction of interconnectors between countries and regions. Japan is also expected to see an increase in demand for power cables as the construction of a domestic power grid is under consideration.

In developing new classes of high-quality products including DC power transmission cables, Sumitomo Electric will further promote the expansion of power cable systems that contribute to the spread of renewable energy including offshore wind power. ■

Prysmian to Provide Power Grids Asset Management Services to French Operator RTE

The contract will cover the three HVAC 220 kV three-core submarine cables with XLPE insulation and single-wire armouring of the Fécamp (2x18km offshore), Calvados (2x16km offshore) and St. Nazaire (2x34km offshore) wind farms.

November 2, 2022

Prysmian Group has been awarded a contract by France's transmission system operator Réseau de Transport d'Électricité (RTE) to provide inspection, maintenance and repair services for the submarine export power cable links connecting the three offshore wind farms near the French coast of Normandy that will be linked to the mainland using Prysmian cables. The wind farms at St. Nazaire, Fécamp and Calvados are among the largest commercial wind farms ever built in France, and their seamless functioning is essential to achieving France's energy transition goals.

The maintenance services provided by Prysmian will reduce the length of any possible supply disruption arising from a power outage of the wind farms, thus assuring a continuous flow of renewable energy to French homes and businesses. The agreement will last 15 years and enters into effect immediately at the already-completed link of St. Nazaire. It will be then extended to the other two links as soon as they enter into operation.

The contract will cover the three High Voltage Alternating Current (HVAC) 220 kV three-core submarine cables with XLPE insulation and single-wire armouring of the Fécamp (2x18km offshore), Calvados (2x16km offshore) and St. Nazaire (2x34km offshore) wind farms.



Image Source: Prysmian Group

"This long-term contract will consolidate Prysmian's relationship with RTE and confirms its commitment to assisting its key customers during the whole life of cable systems. We are proud to be contributing to the development of such a strategically important infrastructure," stated Mr. Detlev Waimann, Chief Commercial Officer of Prysmian Power Link, Prysmian Group.

Prysmian is constantly extending its range of Inspection, Maintenance and Repair (IMR) services delivered to its customers in a portfolio that includes preventive maintenance, storage and repair services for critical links and offshore wind farms. ■

SJVN Partners with Assam Government to Develop 1000 MW Solar Power Projects

Within the MoU, SJVN Green Energy and APDCL will develop 1000 MW floating solar power projects in Assam.

October 20, 2022

Satluj Jal Vidyut Nigam (SJVN), a PSU enterprise involved in hydroelectric power generation & transmission, has announced the signing of an MoU between its wholly owned subsidiary SJVN Green Energy Ltd. (SGEL) and Assam Power Distribution Company Ltd. (APDCL) in Guwahati, Assam.

According to the agreement, the two partners will develop 1000 MW floating solar power projects in Assam through a Joint Venture (JV). The solar projects, which will produce 2192 million units in the first year after their commissioning, will entail an investment of INR 6000 crore in Assam. Further, a total of around 50,425 million units of renewable energy will be produced over a period of 25 years, SJVN Ltd said in the exchange filing.

SJVN said that it has aligned its shared vision of 5000 MW by 2023, 25000 MW by 2030, and 50000 MW capacities by 2040 with that of the Government of India's goal of 50 percent energy from non-fossil fuel sources by 2030. The Company intends to contribute to the clean energy transition of the nation.

In June this year, the Assam government expressed its keenness to establish a JV with SJVN for renewable energy projects in the state. A meeting was held in which Mr. Akhileshwar Singh, Director (Finance) and Mr. Rajesh Gupta, Chief General Manager, SJVN interacted with Assam Chief Minister Himanta Biswa Sarma in Guwahati.



SJVN has aligned its vision with the Government of India's goal of 50 percent renewable energy by 2030.

The meeting also saw the participation of Mr. Sameer Kumar Sinha, Principal Secretary to Assam CM, and Mr. Niraj Verma, IAS, Principal Secretary, Power Department, Government of Assam.

SJVN released a statement regarding the meeting that the development of ground-mounted (solar projects), floating solar, battery storage, and pilot hydrogen plants were considered. The CM also expressed his willingness for equity participation in SJVN's future hydropower projects in Arunachal Pradesh. CM also conveyed his interest in the formation of a JV with SJVN for the development of hydro and renewable energy projects, the statement said. ■

Kalpataru Power Wins T&D Orders of INR 1,200 crore

KPTL's total order intake year to date in FY23 is around INR 6,890 crore, which is significantly higher than the order intake in the previous year's corresponding period.

November 5, 2022

Kalpataru Power Transmission Ltd. has announced that it has won orders worth INR 1,200 crore in transmission and distribution.

As per the statement released by the company, "Kalpataru Power Transmission Limited (KPTL) and its international subsidiaries has secured new orders/notification of awards of INR 1,290 crore."

In the words of Mr. Manish Mohnot, Managing Director & CEO, KPTL, said in the statement, "We are delighted with the new order wins across our business verticals. The T&D (transmission and distribution) orders will help us to consolidate our presence in key T&D markets like Middle East and Latin America. The new orders in the oil & gas and railways business has further strengthen our order book."

KPTL's total order intake year till date in FY23 is around INR 6,890 crore, which is a testament to the exponential growth

attained in the period as against the corresponding period last financial year, Mr. Mohnot informed

About the company's robust L1 position and visibility across all its businesses, he added that it "gives us confidence to achieve our targeted growth going forward".

As one of the largest specialised EPC companies having a diversified presence in the power transmission & distribution, oil & gas pipeline, railways, and civil infrastructure business, KPTL is engaged in the execution of projects in more than 30 countries while it has global footprints in 67 countries. ■



Transmission Towers

2H and Ore Catapult Develop Floating Wind Inter-Array Power Cable Qualification Framework

2H is using its experience with the mechanical and electrical qualification requirements from CIGRE and IEC, and other best industry practices from API, ISO, and DNV in formulating the framework.

October 20, 2022

2H, in partnership with ORE Catapult on behalf of the Floating Offshore Wind Centre of Excellence, has formulated a qualification framework for floating offshore wind dynamic inter-array cable systems.

The framework will support a dynamic cable systems technology development and qualification programme, introduced by the Floating Offshore Wind Centre of Excellence at the Floating Wind 2022 Conference in Aberdeen, Scotland. The scope of the framework includes dynamic power cables (up to 132kV), ancillary components such as electrical quick connectors, bend restrictors, and cable protection systems.

2H is using its experience with the mechanical and electrical qualification requirements from International Council on Large Electric Systems (CIGRE) and International Electrotechnical Commission (IEC), and other best industry practices from API, ISO, and DNV in formulating a structured framework. The output of this programme will benefit new companies entering the UK supply chain, established cable vendors, ancillary equipment vendors and test houses by providing clear guidance on the steps required to qualify inter-array power cable components for floating wind applications.

"With our knowledge and experience in the system qualification and design of floating offshore wind dynamic cable systems, we are well placed to support ORE Catapult

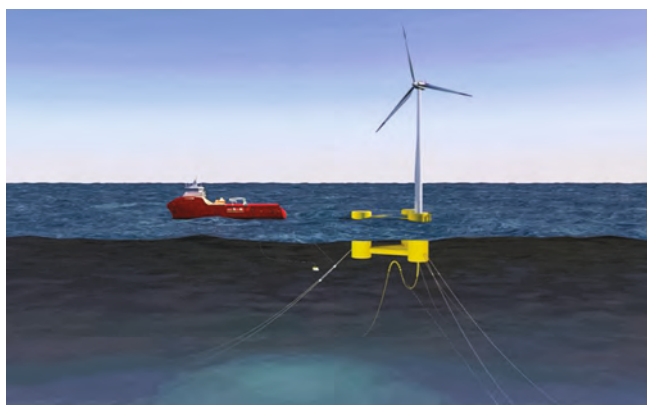


Image Source: 2H

and its partners," says Luiza Ferreira, who is managing the project for 2H from Aberdeen, UK. "This is an important technology qualification programme that will help the supply chain in the UK and internationally prepare to deliver ScotWind and other floating wind developments."

Will Brindley from ORE Catapult says, "The development of the qualification framework is an important step in supporting ORE Catapult and our partners' future technology development and qualification programmes for offshore wind dynamic cable systems. Dynamic cables are complex and high risk systems where targeted qualification has big impact on reducing overall floating wind project risk and cost. 2H were an ideal partner to support the work." ■

KKR to Invest USD 400 million in Serentica Renewables

A newly formed decarbonisation platform under Vedanta Group, Serentica Renewables seeks to enable energy transition by providing renewable energy solutions for energy-intensive industries. KKR will infuse USD

November 8, 2022

Kohlberg Kravis Roberts & Co. (KKR) will join hands with Serentica Renewables and invest USD 400 million in the platform, according to a recent media report. A newly formed decarbonisation platform under Vedanta Group, Serentica Renewables seeks to enable energy transition by providing clean energy solutions for energy-intensive industries.

The development will aid large-scale, energy-intensive industrial clients such as manufacturing, automotive and steel. This segment in India consumes around 70 GW of coal and gas-fired energy.

Along with KKR, the Sterlite Group of companies would also invest USD 100 million. Serentica Renewables is 100 percent held by Twinstar Overseas Ltd. (TSOL), which also has controlling stakes in Sterlite Power Transmission Ltd. and Sterlite Technologies Ltd. Standard Chartered Bank is the advisor for the transaction.



Serentica Renewables' vision is to enable the energy transition.

Currently, Serentica Renewables has entered into three PPAs. The company is developing renewable energy projects in Karnataka, Rajasthan and Maharashtra. ■

European Investment Bank to Support TenneT's Expansion in Bavaria

The Ostbayernring transmission route would be significant in terms of generating electricity from renewable sources like wind power and photovoltaics.

October 20, 2022

The European Investment Bank (EIB) will grant a EUR 450 million senior loan to electricity transmission system operator TenneT. The investment will be infused in the expansion project – a 185-km power transmission route – called Ostbayernring, between Redwitz and Schwandorf in south-eastern Germany. The transmission route is part of Germany's ambitious targets to achieve higher network capacity and expansion of renewable energies.

The Ostbayernring would be significant, especially for the regions of Upper Franconia and Upper Palatinate, in terms of generating electricity from renewable sources like wind power and photovoltaics. Thus, the announced expansion is important for Ostbayernring in meeting the increased demand in the long term.

About the Green Loan, Mr. Kris Peeters, Vice-President, EIB, said, "The new power line is crucial for the integration of a larger amount of renewable and volatile energy into the power grid in Bavaria. The EIB is proud to continue its longstanding partnership with TenneT by supporting their first Green Loan project."



Image Source: TenneT

The expansion of the transmission route will also help in reducing greenhouse gas emissions in Germany and improve energy security across Europe, affirms Mr. Peeters.

The partnership between EIB and TenneT has been quite longstanding. This ninth loan would make the total EIB financing for projects with TenneT EUR 2.1 billion. This is the third transaction in Germany, after Nordlink, which connects the power grids of Norway and Germany via the North Sea and the connection of offshore wind farms to the German grid. ■

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1 – 5 Feb, 2023
Pragati Maidan, New Delhi
www.plastindia.org

Wire Harness Conference

14 – 16 Feb, 2023
New Mexico, USA
<https://annualconference.whma.org>

Elecrama

18 – 22 Feb, 2023
India Expo Mart, Greater Noida
www.elecrama.com

Interwire 2023

9 – 11 May, 2023
Atlanta, USA
www.interwire23.com

IWCS

17 – 20 Sept, 2023
Orlando, USA
www.iwcs.org

Cable & Wire Fair

6 – 8 Oct, 2023
Pragati Maidan, New Delhi
www.cablewirefair.com



wire Düsseldorf

15 – 19 April, 2024
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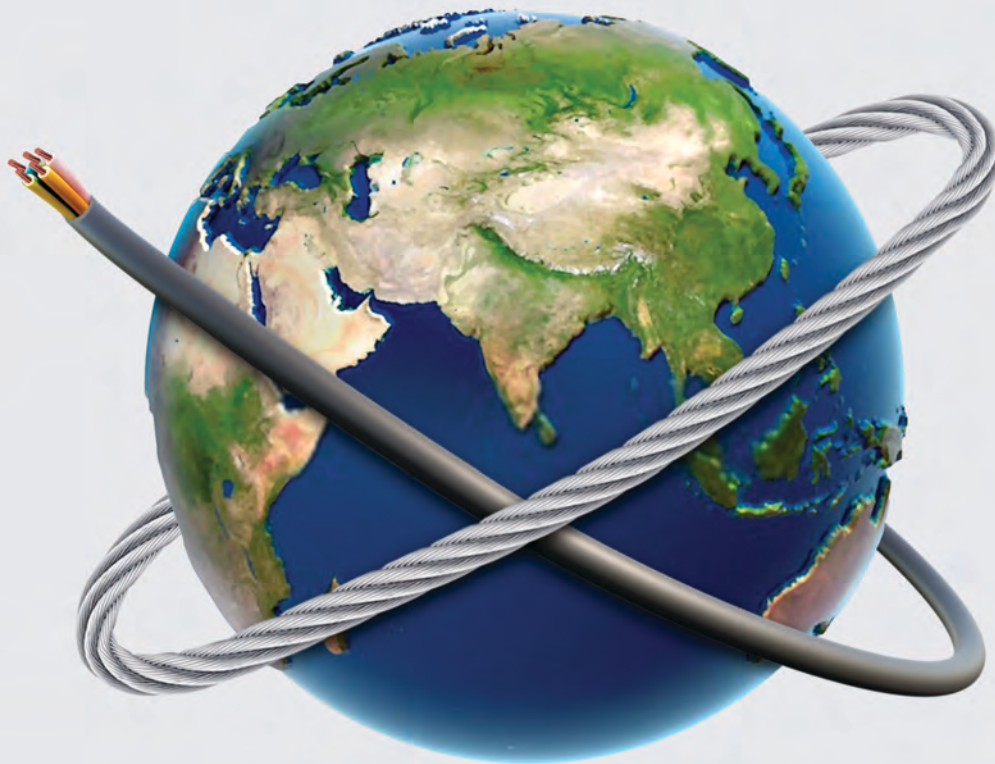
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