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JULY ISSUE

FOCUS ON WIRE & CABLE INDUSTRY



Shashi Amin
CEO,
Cables Solutions
Business
APAR Industries
Ltd.

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Managing Director,
Orbit Cables
and Wires

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Mohan Fomra**
Managing Director
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Joshi**
Director
Epsilon
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Interview of Managing Director

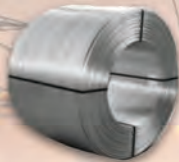
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आपल्या संघटनेने नुकतीच १०० वर्ष पूर्ण करून आता आपल्या संघटनेने १०१ व्या वर्षात पदार्पण केले असून गेल्या १०० वर्षात संघटनेने सभासदांच्या हितासाठी विविध उपक्रम त्यामध्ये तांत्रिक चर्चासत्रे, कंपन्यांच्या कारखान्यांना भेटी तसेच शासकिय पातळीवर काम करताना येणाऱ्या अडी-अडचणी, प्रश्न यांना वाचा फोडणे व सदरहु प्रश्न सोडविण्यासाठी सतत पाठपुरावा करणे. विद्युत क्षेत्रात काम करणाऱ्या विविध संस्थांशी समन्वय साधणे, अभियांत्रिकी विद्यालये तसेच शालेय विद्यार्थ्यांना विद्युत अपघात घडू नये यासाठी प्रबोधनपर व्याख्याने आयोजित करणे अशा अनेक प्रकारे समाजामध्ये विद्युत अपघात घडू नये यासाठी जनजागृती करणे असे अनेक उपक्रम आपण राबवत असतोच. त्यामध्ये प्रत्येक सभासदाचा सहभाग वाढावा यासाठी प्रयत्न करीत असतोच. हे सर्व करित असतानाच आपल्या कार्यरत असणाऱ्या विद्युत ठेकेदार संघटनांशी समन्वय साधणे व सर्वांची एक संघटना स्थापन करण्याची कै. मा. श्री. सुनिल भुरे साहेब यांच्या संकल्पने अंतर्गत संघटना स्थापन करणेबाबत आपण संपूर्ण भारतभर संपर्क करणे व त्यांच्याशी प्रत्यक्ष हितगुज करण्यासाठी गेल्या २ वर्षांपासून आपण प्रयत्नात असून त्यामध्ये आपण दिवसे दिवस उत्तम प्रगती करीत आहोत.

गेल्या महिन्यात आपल्या संघटनेत काम करणारे जळगावचे माजी चेअरमन श्री. अमित टोके व राज्य कार्यकारीवर काम करणारे पुण्याचे श्री. रविंद्र शिवरेकर यांना अचानक देवाज्ञा झाली. त्यांना सर्वांच्या वतीने भावपूर्ण श्रद्धांजली अर्पण करूया व या दोघांच्या अचानकपणे सोडून जाण्यामुळे संघटनेची अतिशय मोठी हानी झाली आहे असे मला वाटते.

दिनांक २०, २१ व २२ जून २०२५ रोजी अहमदाबाद येथील प्रदर्शनासाठी आपल्या संघटनेचे एकंदर २०-२५ पदाधिकारी व सभासद गेले होते व त्या ठिकाणी सर्वांनी विविध कंपन्यांच्या स्टॉलला भेट देऊन एप्रिल २०२६ मध्ये होऊ घातलेल्या "ECAMEX 26" या भव्य प्रदर्शनाबाबत संबंधीत प्रतिनिधींशी चर्चा विनिमय केला व सर्वांना आपल्या प्रदर्शनामध्ये भाग घेण्यासाठी आवाहन करण्यात आले. सदरहु प्रदर्शनात अतिशय उत्तम प्रतिसाद मिळाला.

गेल्या महिन्याभरात महावितरण, सार्वजनिक बांधकाम विभाग तसेच विद्युत निरीक्षक कार्यालयामधील अधिकाऱ्यांच्या बदल्या होऊन नविन अधिकाऱ्यांच्या नियुक्त्या झाल्यामुळे आपल्या संघटनेच्या सर्व विभागातील पदाधिकाऱ्यांनी संबंधीत अधिकाऱ्यांचे सत्कार समारंभ केले. या निमित्ताने नविन अधिकाऱ्यांशी चर्चा करून आपल्या ठेकेदार बांधवांच्या विविध अडचणी, प्रश्नांबाबत चर्चा करण्यात आल्या.

आपण आपल्या क्षेत्रात काम करीत असताना आपल्या क्षेत्रा संबंधीत इतर (Solar) क्षेत्रातील माहिती अद्यावत करणे तसेच येऊ घातलेल्या AI (Artificial intelligence) बाबत सतर्क राहून त्याबाबत आपले ज्ञान अद्यावत करणे गरजेचे आहे.

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दिनांक २५.०५.२०२५ रोजी

आपल्या नाशिक विभागातर्फे मा.

श्री. राजेंद्र विष्णु पवार साहेब यांची महावितरणच्या संचालक (मानव संसाधन विभाग) पदी निवड झाल्याबद्दल हॉटेल कोर्ट यार्ड (बाय मेरियंट), मुंबई आग्रा रोड, नाशिक येथे त्यांचा जाहीर सत्कार करण्यात आला. या प्रसंगी इकॅम नाशिक विभागाचे सर्व पदाधिकारी आणि सदस्य उपस्थित होते.

दिनांक २८.०५.२०२५ रोजी आपल्या धुळे-नंदुरबार विभागातर्फे मा. श्री. जितेंद्र महाजन साहेब यांची महावितरण - धुळे शहर विभागाच्या कार्यकारी अभियंता पदी निवड झाल्याबद्दल त्यांचे पुष्पगुच्छ देऊन स्वागत केले. तसेच दिनांक ३०.०५.२०२५ रोजी मा. श्री. काळे साहेब यांची महावितरण - धुळे ग्रामीण विभागाच्या कार्यकारी अभियंता पदी निवड झाल्याबद्दल त्यांचे पुष्पगुच्छ देऊन स्वागत केले. या प्रसंगी इकॅम धुळे-नंदुरबार विभागाचे उपाध्यक्ष श्री. नितीन अग्रवाल आणि कार्यकारी समिती सदस्य उपस्थित होते.

दिनांक २९.०५.२०२५ रोजी आपण मा. श्री. नीलेश मदाने साहेब यांची अनुज्ञापक मंडळाच्या सांताक्रुझ विभागाच्या विद्युत निरीक्षक पदी निवड झाल्याबद्दल त्यांचे पुष्पगुच्छ, दैनंदिनी आणि स्मरणिका देऊन स्वागत केले. त्यांच्याबरोबर विद्युत ठेकेदारांना येणाऱ्या अडचणीबाबत चर्चा करण्यात आली. त्यांनी सदर चर्चेस सकारात्मक प्रतिसाद दिला. या प्रसंगी इकॅम मुंबई टिमचे संचालक श्री. पुरण सागर, श्री. नंदकिशोर बडगुजर, श्री. अशोक कांबडी, श्री. राजू वाकोडे, श्री. शेषकुमार शर्मा, श्री. राजेंद्र गरगवे आणि श्री. कल्पेश पटेल उपस्थित होते.

आपल्या जळगाव विभागातर्फे मा. श्री. विनोद चंद्रकांत पाटील साहेब यांची महावितरण जळगाव विभागाच्या अधीक्षक अभियंता पदी निवड झाल्याबद्दल त्यांचे पुष्पगुच्छ देऊन स्वागत केले. तसेच मा. श्री. दत्तात्रय साळी साहेब यांची महावितरण जळगाव विभागाच्या कार्यकारी अभियंता पदी निवड झाल्याबद्दल त्यांचे पुष्पगुच्छ देऊन स्वागत केले. इकॅम जळगाव विभागाचे अध्यक्ष श्री. सय्यद मेहदी, सचिव श्री. अनिकेत पवार आणि कार्यकारी समिती सदस्य उपस्थित होते.

दिनांक १७ जुन २०२५ रोजी राज्याचे सार्वजनिक बांधकाम

मंत्री मा. ना. श्री. छत्रपती शिवेंद्रसिंह राजे भोसले यांची सार्वजनिक बांधकाम खात्याच्या विविध अडचणीबाबत भेट घेण्यात आली. याप्रसंगी त्यांचा शाल-श्रीफळ तसेच इकॅमची दैनंदिनी आणि स्मरणिका देऊन त्यांचा सत्कार करण्यात आला. या प्रसंगी झालेल्या चर्चेत सार्वजनिक बांधकाम खात्याचा CSR लवकरात लवकर प्रकाशित करू असे मंत्री महोदयांनी आश्वासन दिले. इमारतीच्या सार्वजनिक बांधकाम खात्यात सर्व निधी जातो. तो निधी स्थापत्य विभाग वापरून टाकतो सदर निधी हा विद्युत विभागासाठी उपलब्ध होत नाही. तसेच त्यामुळे काम करण्यासाठी अडचणी येतात. सदरबाबत सर्व विभागांना पत्र लिहून विद्युत विभागाचा निधी सार्वजनिक बांधकाम खाते (विद्युत) यांना द्यायला सांगा असे मंत्री महोदयांनी अधिकारीवर्गाला सांगितले. विद्युत विभागाच्या तांत्रिक मान्यतेची क्षमता वाढवण्यासाठी निर्देश देण्यात आले. स्थापत्य आणि विद्युत यांच्या एकत्रित निविदेची मर्यादा १५ कोटीच्या इमारतीच्या कामावरून ५० कोटी करावी. जेणेकरून विद्युत विभागाला कामे मिळतील व विद्युत ठेकेदारांचे स्वतंत्र अस्तित्व कायम राहील. या मुद्द्याबाबत विचार केला जाईल असे सांगण्यात आले. विद्युत आणि स्थापत्य कामांचे GR वेगवेगळे काढावे असे सांगण्यात आले. विद्युत निविदेची कालमर्यादा ६ ते ९ महिने असते आणि स्थापत्यची मर्यादा दीड वर्षांच्या पुढे असते आणि १ वर्षांच्या आत मध्ये Price Variation Clause लागू होत नाही त्यावर विचार करण्यात यावा अशी मागणी इकॅमतर्फे करण्यात आली. यावर सकारात्मक विचार करण्याचे या भेटीत मान्य केले गेले. याप्रसंगी इकॅमतर्फे महासचिव श्री. देवांग ठाकूर, इकॅम सार्वजनिक बांधकाम समितीचे चेअरमन श्री. प्रविण बडगुजर तसेच इकॅम पश्चिम महाराष्ट्राचे चेअरमन श्री. दिलिपकुमार कदम, माजी अध्यक्ष श्री. साहेबराव पवार तसेच इकॅम पश्चिम महाराष्ट्र विभागाचे कार्यकारी समिती सदस्य उपस्थित होते.

आपल्याला आपला व्यवसाय करताना काही समस्या येत असतील तर त्या समस्या आपण इकॅम मुख्यालयाला लेखी स्वरूपात कळवाव्यात. इकॅमच्या सभासदांना येणाऱ्या समस्यांचे निराकरण करण्यासाठी आम्ही कसोशीने प्रयत्न करू.

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Satish Sinnarkar
Editor, IECT

telecommunications, power distribution, or industrial automation, wires and cables serve as essential components in these sectors. With rapid urbanisation, increasing electrification, and government initiatives like 'Make in India' and the 'Smart Cities Mission', the industry has witnessed substantial growth in recent years. But will this growth continue? Let's break it down.

The significant share of power transmission cables can be attributed to favourable government initiatives in the power sector, such as railway electrification projects and rural electrification schemes. Additionally, rising expenditures in the construction sector and the expansion of the fast-moving electrical goods (FMEG) industry are driving the demand for building wires.

Power Demand : Rising urbanisation, supportive government initiatives, and increased investments in transmission and distribution have driven sector growth.

Renewable Energy Expansion: India's target of 500 GW by 2030 and investments in solar, wind, and battery storage are boosting demand for power cables.

Digital Infrastructure Growth: The rollout of 5G, increasing data centres, and BharatNet expansion are driving demand for fibre optic and high-speed cables.

EV Adoption & Charging Infrastructure: The growing EV market and increased consumer adoption of electric vehicles in India are fuelling cable demand.

Urbanisation & Real Estate Boom: The Smart Cities Mission, metro projects, and real estate expansion are increasing demand for building wires.

'China Plus One' & Make in India: Supply chain diversification, PLI schemes, and higher tariffs on imports are driving domestic manufacturing growth.

India has consistently been a net exporter of wires and cables since FY20, registering an export surplus peak of Rs 59.5 billion during the April-October 2023

Key Challenges in the Wires & Cables Industry

The wires and cables industry in India plays a crucial role in the country's infrastructure development. Whether in construction,

period, highlighting its ability to cater to growing global demand.

L1 Concept: In India, price often takes precedence over quality, raising significant concerns about safety in high-voltage cables and creating challenges for manufacturers.

Raw Material Volatility: Fluctuating copper and aluminium prices impact production costs and profitability for companies in the segment.

Counterfeit Products: The prevalence of counterfeit and substandard wires and cables sold at lower prices in India poses significant challenges for organised players.

Lack of Skilled Workforce: A shortage of trained professionals affects both productivity and product quality.

There are concerns about potential tariffs by the US, which could affect global trade. However, India's wires and cables exports are unlikely to face major risks. The US is a large market with a cable consumption worth USD 47 billion (excluding exports), and it relies heavily on imports, with around 64% of its total cable demand met through imports.

Moreover, India has strong export opportunities in other global markets. Many global companies are adopting the China Plus One strategy, reducing dependency on China and diversifying sourcing from countries like India. Given these factors, India's exports to the US are unlikely to face significant disruptions.

India's wires and cables industry has experienced significant growth and is projected to register a CAGR of 11-13% between FY24 and FY29. Factors such as rising power demand, digital infrastructure development, and increasing EV adoption will continue to drive the industry's momentum.

India's position as a net exporter, along with its competitive pricing, will help companies expand into global markets. Additionally, the China Plus One strategy is further strengthening India's exports and mitigating risks from potential trade wars.

With government support in tackling counterfeiting and enforcing quality regulations, India's wires and cables market is poised for a strong future.





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- ISO 9001:2015 Certified
- MSEDCL Approved
- ISO 14001:2015 Certified



PRODUCT RANGE

- AAC Conductors (IS 398:Part 1)
- ACSR Conductors (IS 398:Part 2)
- AAAC Conductors (IS 398:Part 4)
- Aerial Bunched Cables (IS 14255:1995)



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📍 Works : W-29 (B), Ambad MIDC, NASHIK - 422 010.

📍 Regd. Office : Shop No. 5, Gurukul Apartment, Guru Campus, Near LIC Office, Pune Road, Nashik Road, NASHIK - 422 101.



MEP Consultancy

An MEP (Mechanical, Electrical, Plumbing) consultancy provides expert services in designing and implementing building systems for mechanical, electrical, and plumbing. These consultants work with architects and building owners to ensure systems are optimized for efficiency, cost-effectiveness, and safety throughout the building's lifecycle. They are involved from the early design stages to post-construction, offering a range of services to ensure a building's MEP systems function as intended.

Services:

- **Design and Planning:**

MEP consultants create detailed plans for HVAC (heating, ventilation, and air conditioning), electrical power distribution, lighting, plumbing, and fire protection systems.

- **System Optimization:**

They analyze existing systems and propose solutions to improve efficiency, reduce costs, and minimize downtime.

- **Cost Estimation and Budgeting:**

They provide cost estimations and help clients manage the budget for MEP systems.

- **Construction Administration:**

They monitor the installation process, ensure adherence to design specifications, and address any issues that arise.

- **Documentation and Building Management:**

They prepare documentation for MEP systems, including as-built drawings, operating manuals, and maintenance schedules.

- **Sustainability:**

They incorporate sustainable design principles into their work, such as energy-efficient lighting, renewable energy systems, and water conservation strategies.

- **Specialized Solutions:**

They offer specialized services, such as designing systems for specific building types (e.g., hospitals, data centers) or addressing specific needs (e.g., fire suppression systems, security systems).

Key Areas of Expertise:

- **Mechanical:** HVAC systems, ventilation, refrigeration, and other systems that regulate building climate.

- **Electrical:** Power distribution, lighting, fire alarm systems, security systems, and other electrical infrastructure.

- **Plumbing:** Water supply, drainage, sewer systems, and other plumbing infrastructure.

Benefits of using an MEP consultancy:

- **Improved Efficiency and Cost Savings:**

Optimized systems can reduce energy consumption, maintenance costs, and operating expenses.

- **Enhanced Comfort and Safety:**

Well-designed MEP systems contribute to a comfortable and safe environment for building occupants.

- **Compliance with Regulations:**

MEP consultants ensure that buildings meet all relevant codes and regulations.

- **Long-Term Value:**

They provide solutions that are not only effective in the short term but also provide long-term value and sustainability.



Adani commissions India's 1st off-grid green hydrogen pilot plant

Adani Group has commissioned India's first off-grid 5 megawatt green hydrogen pilot plant in Kutch, Gujarat, the conglomerate said in a statement on Monday.

An off-grid green hydrogen plant is a facility that produces hydrogen using electrolysis powered by renewable energy sources, such as solar or wind, and is not connected to the main electrical grid.

This means the plant relies entirely on its own renewable energy generation for the hydrogen production process.

The 5 MW plant has been built by Adani New Industries Limited (ANIL) - the clean energy unit under the group's flagship firm Adani Enterprises Ltd.

Calling it a key milestone towards enabling

India's National Green Hydrogen Mission, the group said the successful commissioning demonstrates technical feasibility and sets a benchmark for off-grid, renewable-powered industrial applications of green hydrogen and its derivatives in emissions-intensive sectors.

The state-of-the-art plant is 100 per cent green-powered by solar energy and integrated with a Battery Energy Storage System (BESS), enabling it to operate completely off-grid.

Hydrogen is the lightest and most abundant element in the universe.

It is also the cleanest form of energy, producing just water vapour when burnt.

Hydrogen is colour-coded based on how it's produced and the associated environmental impact.



SPECIAL PRODUCT OFFERINGS FOR PROJECT CONTRACTORS & DEVELOPERS



“ Through lean manufacturing practices and automation, we enhance productivity, minimize waste, and ensure consistent product quality.”

- Madan Mohan Fomra



Madan Mohan Fomra

Managing Director
CABCON INDIA LIMITED

Cabcon India, based in Kolkata, is an ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 certified Manufacturer, Supplier & Exporter of all types of Aluminium Conductors, LT Power & Control and LT AB Cables in the field of Electrical Transmission & Distribution lines. It has diversified its operations and started EPC Division for execution of turnkey projects for installation of power distribution lines and sub-stations in the field of development of rural electricity infrastructure & rural household electrification in villages of various states of India under different Flagship Programs initiated by Government of India.

● **What quality control measures do you have in place to ensure the reliability and safety of your wires and cables?**

At Cabcon, quality and reliability are at the core of our manufacturing philosophy. To ensure our products meet the industry standards, we have implemented a rigorous quality control framework across our production and testing processes. All our incoming raw materials undergo stringent inspection, and each stage of manufacturing is monitored through in process checks using calibrated instruments and automated systems. Our testing protocols cover a wide range of parameters, including electrical and mechanical performance. These tests are conducted as per relevant IS standards. Importantly, we are in the process of getting our in house testing laboratory NABL accredited, which will solidify our commitment towards best testing practices and will add a layer of credibility and trust, particularly for

government and utility clients. In addition to routine factory acceptance tests, we conduct type tests from time to time to validate our product performance under diverse environmental conditions. Through this robust quality assurance system, we ensure that our cables and conductors consistently meet the highest reliability and safety benchmarks, regardless of the deployment environment.

● **What new technologies or materials are you exploring for wire and cable manufacturing, and how do you see them impacting the industry?**

In recent years, one of the most significant advancements in our industry has been the development and integration of High Temperature Low Sag (HTLS) conductors. At our company, we have proactively adopted HTLS technology into our product portfolio to meet the evolving demands of efficient power transmission. HTLS conductors offer several compelling

The Power Is Within

- Incorporated in 1995 at Secunderabad in Telangana State, INDIA.
- One of India's leading and fast growing cable manufacturing company, covering a wide spectrum of business segments and providing cable solutions to a host of industries across the country.
- Obsessed with a vision of delivering product of the highest quality.
- Quality and service are the cornerstones of Gloster Cables.
- Catering to the requirement of most of the India's leading Industries/ Consultants/EPC Contractors and Utilities sectors.
- Ensuring utmost customer satisfaction through prompt & personalized service.
- PAN India marketing and distribution network spread across length and breadth of the country to forge intimate relationship with our clients.



PRODUCT RANGE

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- ▶ 3.3 KV To 33 KV Medium & High Voltage HT Cables
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- ▶ Industrial Flexible Cables
- ▶ Instrumentation Cables
- ▶ Braided Cables
- ▶ Solar Cables
- ▶ LT And HT Aerial Bunched Cables
- ▶ Triple Layer ZHFR Domestic Cables
- ▶ 3 Core Flat Submersible Cables
- ▶ PTFE Cables
- ▶ Elastomeric Cables
- ▶ Special Cables : Fire Alarm, Fire Survival etc.

LT CABLES



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advantages over conventional ACSR conductors.

They are designed to operate at higher temperatures of upto 210°C without significant sag, thereby allowing utilities to increase the ampacity of existing transmission lines by upto 1.5 to 2 times without the need for additional infrastructure. This directly contributes to reduced capital expenditure for utilities and enhanced transmission capacity. We are also integrating composite core materials to further improve performance and longevity in harsh environmental conditions. Additionally, the lightweight nature and higher strength to weight ratio of these conductors help minimize structural stress on towers, translating to lower maintenance and replacement costs.

● **How do you stay up-to-date with the latest developments and trends in the wire and cable industry?**

Staying current with the latest developments in the wire and cable industry is essential to our growth and innovation. We actively engage with industry publications, attend trade shows, and various technical seminars and forums. Our team maintains close relationships with standards bodies and regulatory authorities to anticipate changes in compliance requirements. We also invest in continuous training and collaborate with suppliers and technology partners to adopt emerging materials and manufacturing techniques. This proactive approach ensures we remain ahead of industry trends and deliver cutting-edge, reliable solutions to our customers.

● **What trends do you see shaping the future of the wire and cable industry, and how is your company positioned to adapt?**

The wire and cable industry is undergoing a significant transformation, driven by rapid technological advancements, sustainability imperatives, and evolving customer needs. One of the most prominent trends shaping the future is the rise of electrification and renewable energy. As the world shifts towards electric vehicles, solar and wind power, and smart grids, the demand for high-performance, energy efficient, and environmentally friendly cables is growing exponentially. Our company is actively investing in the development of specialized cables that can withstand higher voltages, offer better performance and meet the unique requirements of green energy applications. Another key trend is the increasing focus on digital connectivity. With the expansion of 5G networks, data centers, and IoT enabled infrastructure, there is a surge in demand for high speed data cables. We are actively studying this

trend and trying to expand our product line to include advanced communication cables that ensure reliable, fast, and secure data transmission. To remain agile in this dynamic landscape, we actively engage with industry forums and maintain strong partnership with technology providers in order to position us strongly in this evolving wire and cable industry.

● **Are there any potential challenges or disruptions that you see on the horizon for the wire and cable industry, and how is your company preparing for them?**

One of the major challenges we are currently experiencing in the market is the volatility in raw material prices, particularly aluminium and copper, which are critical inputs for conductor and cable manufacturing. This price instability has been further aggravated by global tariff war and trade disruptions started by the US, leading to delay in procurement planning and cost forecasting. Such fluctuations directly impact project budgeting and execution timelines especially in public sector projects where pricing structures are fixed for longer durations. Despite these external pressures, we have put measures in place such as strategic sourcing, buffer inventory planning, and long term supplier partnerships to ensure minimal disruption to our clients.

● **How do you balance the need for quality and reliability with the pressure to reduce costs and improve efficiency?**

Balancing quality and cost-efficiency is integral to our operational philosophy. We achieve this by adopting a strategic approach focused on process optimization, technological advancement, and continuous improvement. Through lean manufacturing practices and automation, we enhance productivity, minimize waste, and ensure consistent product quality. Our procurement strategy emphasizes sourcing high-quality raw materials at competitive rates, supported by a robust supply chain. Regular training and performance audits further reinforce our commitment to delivering reliable, high-performance products while maintaining operational efficiency and cost competitiveness.



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AUGUST 2025

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“APAR leads with future-ready solutions for renewables, infrastructure, and data-driven applications” - Shashi Amin



Shashi Amin

CEO, Cables Solutions Business
APAR Industries Ltd.

At APAR Cables, quality is embedded across the design-to-delivery cycle with a zero-defect approach.

At APAR Industries, our USP lies in strong technical capabilities and continuous innovation, enabling us to develop customized, high-performance cables for sectors like wind, solar, defence, railways, and Evs.

Mr. Shashi Amin has a 30+ years of experience in the Cable industry. He is expert in Sales & Marketing, Business Development and P&L management. An old friend of ECAM & IECT, Mr. Amin has always supported electrical contracting fraternity.

● What quality control measures do you have in place to ensure the reliability and safety of your wires and cables?

We ensure stringent raw material checks and real-time process controls like diameter monitoring, spark testing, capacitance, eccentricity, and resistance monitoring. Our NABL-accredited labs perform type, routine, and special tests covering fire safety, mechanical strength, and aging. Compliance with BIS, IEC, UL, and ASTM standards is ensured. Trained teams implement SPC, Six Sigma, and root cause analysis for continual improvement. This robust quality system ensures APAR cables deliver consistent, high-performance results in critical applications such as power, defence, railways, renewables, and EV infrastructure.

● How do you comply with industry standards and regulations, such as those set by BIS, IEC, or UL?

At APAR Cables, compliance with BIS, IEC, UL, and ASTM standards is embedded in product design and manufacturing. Our ISO 9001-certified plants use

closed-loop controls—spark testing, capacitance checks, and resistance validation—for real-time quality assurance. NABL-accredited labs conduct type, routine, and special tests across electrical, mechanical, fire, aging, and environmental parameters. Regular internal and external audits keep us aligned with evolving regulations. This integrated compliance framework ensures our cables meet global safety, reliability, and performance standards, making them ideal for critical infrastructure, industrial applications, and emerging technologies like renewables, data centers, and EV ecosystems.

● Can you describe your testing procedures for wires and cables, including any certifications or accreditations you hold?

At APAR Cables, we follow a rigorous, multi-layered testing regime to ensure superior cable performance and reliability. Our NABL-accredited labs conduct comprehensive electrical, mechanical, thermal, fire safety, and environmental tests as per BIS, IEC, UL, and ASTM standards. Key tests include conductor resistance, tensile strength, aging simulation, flame

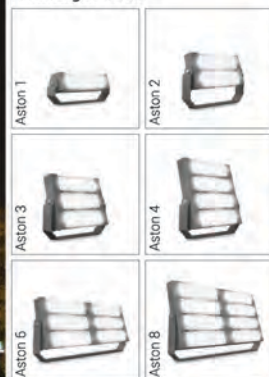
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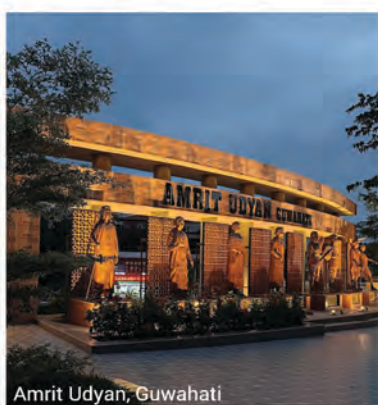
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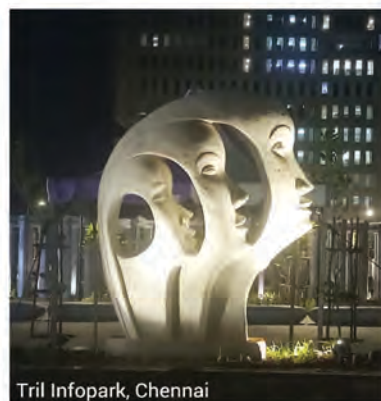
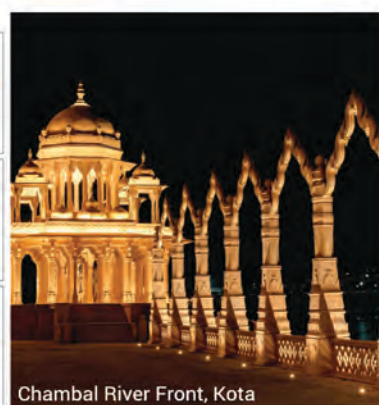
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Nebula Series



In-Ground Series



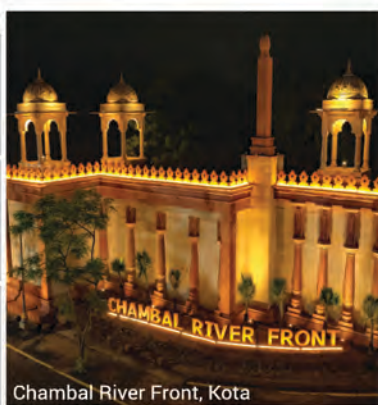
Navita / Zoom Series



Stellar Series



Up Down Series



Linear Lighting Series



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retardancy, and UV/oil resistance. In-line controls like laser diameter checks and spark testing enable real-time quality assurance during production. All finished products undergo 100% routine testing. Our ISO 9001, 14001, and 45001 certified facilities support globally compliant, type-tested cables that serve critical sectors like power, renewables, defence, railways, and EV infrastructure.

● **What new technologies or materials are you exploring for wire and cable manufacturing, and how do you see them impacting the industry?**

At APAR Cables, we are advancing cable technology through e-beam crosslinking for superior thermal stability and fire survival, and high-performance HFFR compounds that meet IEC 60332-3 and 60331 with low smoke and halogen emissions. We're leveraging high-conductivity aluminum alloys for lightweight, efficient solutions in EVs, solar, and HVDC. Our plants feature real-time controls like in-line dimension checks, capacitance monitoring, and predictive analytics. We're also developing recyclable thermoplastic insulation to align with circular economy goals. These material and process innovations enhance safety, efficiency, and sustainability—future-proofing our cables for critical sectors like data centers, renewables, and next-gen mobility.

● **Can you describe any recent innovations or advancements you've made in your manufacturing processes or products?**

At APAR, we drive innovation to meet complex customer needs and realize our vision of global leadership in energy, transport, and telecom infrastructure. Key breakthroughs include:

APAR Anushakti – EBXL FR-PVC wires that exceed IS:694, withstand 105°C, carry 50% more current, and last over 50 years. **PV Wires** – Zero-loss, 25+ year life, RoHS-compliant, fire-retardant, and pest-resistant solar wires. **Tactical Defence Cables** – Lightweight (<24 kg/km), ultra-thin (<3.8 mm), truck-resilient communication cables.

Fire Survival Cables – Supplied for Sydney Metro, withstand up to 1050°C. **FRP Cables** – Triple-sheathed, non-metallic, fire-survival fiber optic cables.

Torpedo Cables – India's first guidance optical fiber for the Navy, with a 25 m/s unravelling rate using

tangle-free winding. **ALUM Anushakti & E-Beam LT Cables** – Flexible, high-ampacity aluminium cables with copper-like performance, high heat resistance, low leakage, and superior reliability.

These innovations reflect APAR's commitment to safety, performance, and sustainability.

● **How do you stay up-to-date with the latest developments and trends in the wire and cable industry?**

Embracing Industry 4.0, we integrate IoT, AI, and automation to enhance efficiency, quality, and real-time analytics. Sustainability is core to our strategy—we use eco-friendly materials, reduce GHG intensity, conserve water, and expand renewables. Guided by UN SDGs, we've achieved a CRISIL ESG score of 59 and received a Silver medal from EcoVadis. Through innovation and responsibility, APAR delivers future-ready, sustainable solutions with a competitive edge.

● **Are there any emerging technologies, such as renewable energy or electric vehicles, that you see as opportunities for growth or innovation in the wire and cable industry?**

Manufacturers of wires and cables can innovate in several key areas to address rising energy demands and enhance India's energy security. Just like usage of advanced materials, developing wires made from lightweight, high-conductivity materials can reduce energy loss during transmission and improve overall efficiency. In addition, adopting smart technologies, integrating IoT and smart sensors into cable systems can facilitate real-time monitoring of energy flow, enabling proactive maintenance and minimizing downtime. In the manufacturing side, sustainable practices like innovating in insulation technologies can improve the thermal resistance of cables, allowing them to perform better in extreme conditions and reducing energy loss, also offering tailored wire and cable solutions for specific industries, such as renewable energy or electric vehicles, can help meet unique energy demands and support sector growth.

● **What trends do you see shaping the future of the wire and cable industry, and how is your company positioned to adapt?**

At APAR, we are targeting 25% CAGR growth in the next 3–4 years by leveraging opportunities in

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IS: 17048

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renewables, RDSS, 5G, BharatNet, and global infrastructure expansion. We're strengthening our leadership in specialty cables, expanding globally, and building a robust retail and distribution network across India. Strategic investments in solar, wind, and cable harnesses, along with enhanced branding via Sonu Sood, are boosting visibility. To meet rising demand, we're scaling up capacity through brownfield expansions and evaluating greenfield projects. By focusing on innovation, market reach, and manufacturing excellence, APAR is well-positioned for sustainable, long-term growth in India and abroad.

● **How do you think the industry will evolve in terms of sustainability, energy efficiency, and environmental impact?**

Wires and cable manufacturers can stay globally competitive by aligning with international standards, adopting eco-friendly materials, and investing in R&D for high-performance products. At APAR, we champion sustainability and innovation without compromising quality. Our APAR ANUSHAKTI wires use E-Beam cross-linked polymer for superior safety and longevity. Our solar cables, with XLPE insulation and UV-stabilized ST2 sheathing, meet global standards like BS EN 50618, UL 4703, and BASEC CPR. Backed by two decades of collaboration with DRDO, Indian Navy, and Railways, and over 15 UL-certified products, APAR delivers trusted, globally approved solutions for critical and emerging infrastructure sectors.

● **What role do you see wire and cable manufacturers playing in the development of smart grids, smart cities, or other emerging infrastructure projects?**

Wire and cable manufacturers like APAR Cables are central to powering smart grids, cities, and next-gen infrastructure, where traditional cables fall short. For **smart grids**, we engineer high-temperature conductors, low-loss insulation, and shielded cables to handle bidirectional power, harmonics, and dynamic loads. In **smart cities**, hybrid cables integrate power, data, and control in compact designs, while fire survival and LSZH cables ensure safety in metros, airports, and high-rises. For **EV infrastructure**, our high-power DC cables withstand extreme heat, current, and mechanical stress, ensuring safety and minimal voltage drop. In

data centers, we are advancing fiber optic and composite cables to deliver intelligent power and data transmission for IoT and building automation. As infrastructure becomes more integrated and intelligent, APAR evolves from being a cable supplier to a solution provider—offering advanced materials and system-level engineering that enhance safety, efficiency, and reliability across modern infrastructure landscapes.

● **Are there any potential challenges or disruptions that you see on the horizon for the wire and cable industry, and how is your company preparing for them?**

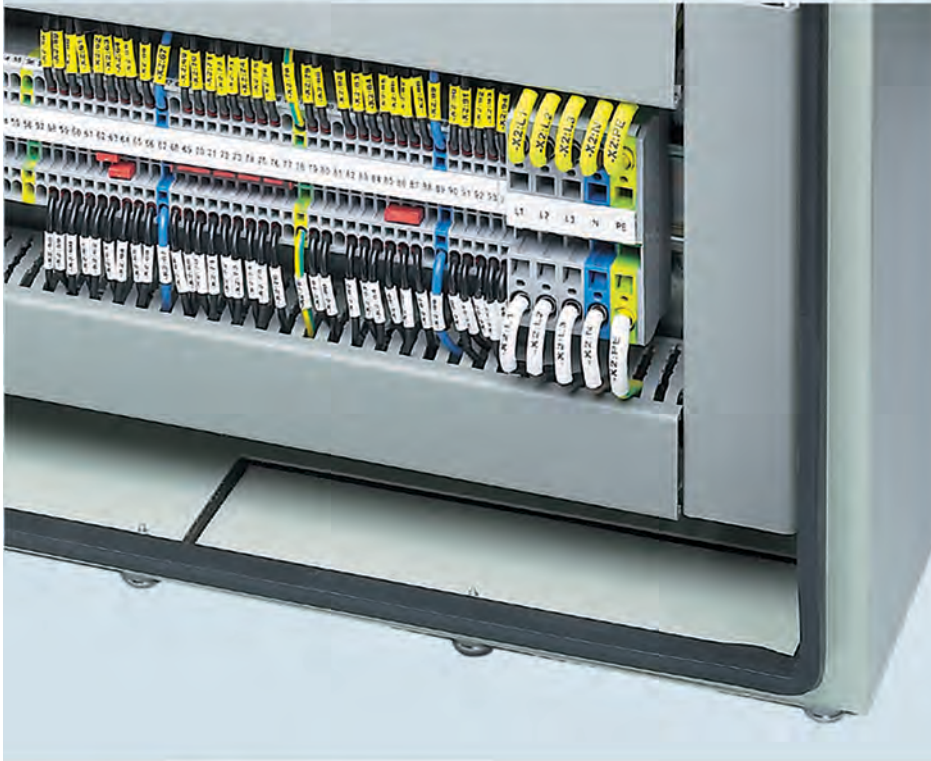
The wire and cable industry faces disruptions across raw materials, regulations, technology, and sustainability.

We are mitigating **material volatility** through high-conductivity aluminium alloys, advanced polymer compounding, and recyclable thermoplastics. To meet **stricter global standards**, our R&D is focused on halogen-free flame retardant (HFFR), fire survival, and low-smoke cables compliant with IEC, RoHS, and REACH norms. **Decarbonization** is driving demand for green cables — we're advancing circular economy-ready designs with lower environmental footprints. Rapid growth in **EVs, renewables, and smart grids** demands high-voltage, e-beam crosslinked, and EMI-protected cables — areas where we're investing heavily. **Supply chain resilience** is addressed through backward integration, localized sourcing, and digitalized supply networks.

● **Can you describe your company's approach to research and development, and how you prioritize innovation and investment in new technologies?**

At APAR Cables, R&D is core to our strategy—driving safety, efficiency, and sustainability. Our NABL-accredited labs and innovation centers focus on halogen-free flame retardant compounds, e-beam insulations, high-temp thermoplastics, and high-conductivity aluminium. We engineer cables to meet stringent fire safety norms (IEC 60331/61034/60754) and develop recyclable thermoplastic insulation for ESG goals. Our R&D targets high-performance EV, solar, wind, and smart grid cables, alongside AI-driven process innovations and digital twin simulations. With strong customer collaboration and global benchmarking, APAR

Cable Marking and Identification !



Marking System-Thermomark Roll 2.0

Cable marking is an essential part of any switch board cabinet. Wire and cable marking are used to clearly identify what is connected to what and whether there is any danger present. By using cable marking installer can ensure that anyone working in cabinet in future can maintain or update the system properly and safely. Thermomark Roll 2.0 thermal transfer printer is ideal for industrial identification specially for wire/conductor marking using different type of material such as heat shrink tube, wrap on label, tags and flags.



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leads with future-ready solutions for renewables, infrastructure, and data-driven applications across global and domestic markets.

● **How do you balance the need for quality and reliability with the pressure to reduce costs and improve efficiency?**

At APAR Cables, we integrate quality, reliability, and cost through smart design, advanced materials, and process excellence. Our **design optimization** approach ensures cables are right-sized for specific applications, balancing performance and cost while meeting BIS, IEC, and UL standards. We use **high-conductivity aluminum alloys**, e-beam crosslinked insulations, and custom polymer blends to enhance thermal, electrical, and fire performance cost-effectively. **Real-time process controls**—laser diameter gauges, spark testers, and capacitance monitors—ensure precision and reduce material waste. Through **lean manufacturing**, **Six Sigma practices**, and **backward integration**, we enhance operational efficiency and cost control. We focus on **long-term reliability**, designing cables that minimize maintenance, reduce downtime, and deliver extended service life. This ensures better lifecycle value, even with optimized initial costs. APAR's holistic approach enables us to offer globally competitive, high-performance cables that meet evolving customer needs across infrastructure, renewables, and industrial sectors.

● **What sets your company's products apart from those of your competitors, and how do you differentiate yourself in the market?**

At APAR Cables, our competitive edge lies in integrating advanced material science, precision manufacturing, and application-specific engineering to deliver future-ready cable solutions. We lead in **material innovation** through e-beam crosslinked insulation, HFFR compounds, high-conductivity aluminum alloys, and recyclable thermoplastics that meet stringent fire, electrical, and environmental norms. Our **engineering approach** tailors cables for real-world conditions—fire survival (IEC 60331), high-voltage EV, solar DC, and hybrid power-data applications. With **real-time process control** and in-line resistance monitoring, we ensure consistent quality across production. Our **NABL-accredited labs** conduct rigorous type, routine, and special testing, backed by certifications like BIS, UL, CE, and IEC. A forward-looking **R&D pipeline** focuses on EV charging, offshore wind, smart grids, and data centers—keeping us aligned with market evolution. This end-to-end technical capability enables APAR to serve global OEMs, utilities, and infrastructure clients with high-performance, reliable, and compliant cables that exceed expectations.



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- As per Safety Standard IEC/EN 61010-1 & 61010-31
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3rd Edition of MEP Consultants conclave



Ulhas Vajre - Chairman – ECAM Konkan Region.

I had an opportunity to attend the 3rd Edition of MEP Consultants conclave, organized by IEEMA, between 13th and 14th June 2025, at Grand Hyatt, Kochi, Bolgatty, Kerala.

The Inaugural session, on day 1, was presided over by Mr. Sunil Singhvi, President, IEEMA & Group Head (Public Policy), Secure Meters Limited, with guest of Honour, Mr. Yogesh Gupta, IPS, The Director General (DG) of Fire & Rescue Services, Govt. of Kerala, India, with the attendance of Mr. Vivek Srivastava, IPS, Director General (DG), Fire Services, Civil Defence & Home Guards, Ministry of Home Affairs, Govt. of India, as Chief guest.

After the inauguration of the conclave, the first session, Fire Side chat on effective use of Standards, Codes and Regulations had commenced with Mr. Narendra Duvedi, Mentor SAS Powertech Pvt Ltd, and Mr. Rupesh Gujarathi, Founder and Director, Electromech Consultants Pvt Ltd., as moderator, with august panelists, Mr. Rahul Singh, Dy. Director Central Electricity Authority, CEA, & Electrical Inspector, Govt of India, Mr. Sandeep S Kumar, Jt. Director, Bureau of Indian Standards, Ministry of Consumer Affairs and Public Distribution, GoI, Mr. Shahzed Lehry, Officer (HQ), addl. Controller of Civil Defence, Home department Govt of Maharashtra, Mr. Rajkumar Mane, VP-MEP, Piramal Realty, and Mr. Vijaykumar Potdukhe, Director Privij Consultant, the session was quite interactive and informative.

After the first session, case studies were presented by Mr. Parth Joshi, Sr, Manager Marketing, Transformers & Rectifiers (India) Ltd., on Natural Ester/Synthetic Ester oil-based distribution transformers., Mr. Naitik Punamiya, Head Product Marketing, RR Kabel Ltd., presented case study on E-Beam Cross Linking Solution Suite for enhancing Safety of cables, while Dr. A S Prasad, VP Product Management and Engineering, Vertiv Energy Pvt Ltd, presented case study on AI- Ready datacenter Infrastructure for the modern MEP Consultants, While Mr. N K Jain, Director NK Jain Consulting Engineers,

enlightened the audience on How to be a Proactive MEP Consultant, case study on Design implementation of India's largest Tier IV Datacenter, was presented by Shikha Jain, Datacenter Design specialist, NK Jain Consulting Engineers.

Further, case studies were presented by Mr. Shashi Amin, CEO – Cable Solutions, Apar Industries Ltd., on Fire Protect wires, green wires, and Aluminium Wires, Mr. Deepak Tikle, Executive Director, V-Marc India Ltd, on Innovative Technologies in wires and cables for enhancing Fire Safety, Mr. Pankaj Dharkar, Director-PDA Consultants, on Safe, Sustainable & Innovative MEPF Services for Hotels, followed by the panel discussion on Identifying GAPS in Achieving Safety, Sustainability, and Reliability in Indian Projects, with Ms. Shruti Goel, Director Protech Consulting and Proion Consultants Pvt Ltd., with august panelists Mr. Venkatesu, Head Electrical, CRN Consultants, Mr. Mahesh Gharat, Dy. GM, Ecofirst Services Ltd., Mr. Dilip MR, Associate Director Electrical & ELV Grune Designs, Ms. Avni Sikka, MD Artech Engg Solutions, Mr. Manish Dubey, K Raheja Corp., VP- MEP, the discussion was quite interesting to the audience.

Day 2, commenced with the welcome address by Mr. Shashin Shah, NEC Member, IEEMA & partner, Kusum Engineering Works. Followed by an interesting panel discussion on Future-Proofing MEP Design for Smart Buildings with Ms. Sheetal Bhilkar, founder Director, Urja Building Services Consultants Pvt Ltd., as moderator and Mr. Rupesh Umtol, Co-Founder and Director, Electromech Consultants Pvt. Ltd., Mr. Sanu Mathew, Co-Founder and Managing Director, SEED Engineering Consultants, Mr. Mitra Sripada, ED, Design Tree Consultants, Mr. Bhaskaran Srinivasan, MD, E-Solutions Consultancy Pvt Ltd., Mr. Mani Samuel, Partner Procon Tech Consultants, Mr. Bhadresh S, GM and Head MEP, Sattva Group as an distinguished panelists.

Mr. Mustafa Wajid, MD & CEO, MHM Holdings Pvt Ltd., enlightened the audience on Buildings – the Net Zero opportunity. This was followed by an electrifying panel discussion on Designing for Electrical safety, Best Practices, Standards, & Real-world Challenges and Professional Engineers to be Certified by the Govt. so that accountability can be had from the designers for the safe installations, with an expert Moderator, Mr. Chidamber V Joshi, Director, Maitriser Technologies Pvt Ltd, and many distinguished panelists. The session was quite informative and interactive with many questions from the audience.

Excellent arrangements were made by the IEEMA team and the conclave was a grand success.

I personally thank Mr. Shashi Amin – Chairman IEEMA, for inviting me for this wonderful MEP consultant meet at Kochi.

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SHARMILA KUMBHAT, Director
KLITE INDUSTRIES PVT LTD

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K-LITE's landscape and outdoor lighting solutions are designed for **rugged environmental conditions**

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K-LITE offers one of the most versatile lighting portfolios in the industry, including:

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Every K-LITE product is a blend of **functionality and design excellence**. Whether it's illuminating walkways, enhancing architectural façades, or setting the mood in public spaces, K-LITE luminaires consistently deliver:

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Roofsol Energy secures Rs 2.1 billion funding from Aseem Infra for 93 MW solar projects

Roofsol Energy has secured Rs 2.1 billion in funding from Aseem Infrastructure Finance to develop 92.66 MWp of rooftop and group captive solar projects across India.

The company specialises in rooftop solar engineering, procurement, and construction services. This latest round of funding will support the deployment of solar assets at multiple locations nationwide. It follows an earlier equity funding round in October 2024, where Roofsol raised Rs 255 million from fund manager Equity4life IH Analytics and a group of high net-worth individuals. The capital infusion is aligned with Roofsol's strategy to scale its operational expenditure-based solar business through its subsidiary firms.



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Maharashtra's New EV Policy Targets 30 Percent EV Adoption by 2030

The Maharashtra government has unveiled a comprehensive new EV policy, effective from April 2025 to March 2030, aiming for 30 percent electric vehicle penetration by 2030 through a mix of incentives, infrastructure development, and regulatory mandates.

The Maharashtra State Transport Department issued a government resolution announcing the new electric vehicle (EV) policy, which will be in effect from April 1, 2025, to March 31, 2030. In the new policy, the Maharashtra government has set a goal to achieve 30 percent EV penetration in the state by 2030.

The policy suggests that new residential buildings must provide EV charging facilities, and also offers incentives such as toll waivers for these eco-friendly vehicles. The new EV policy aims to make Maharashtra a leading hub for EVs in India through incentives, infrastructure expansion and manufacturing support. By implementing this policy, the state wants to prevent 325 tonnes of PM 2.5 emissions and 1,000 tonnes of Greenhouse Gas (GHG) emissions from the transport sector by 2030 as part of the Clean Mobility Transition Model.

The policy proposes incentives of up to INR 2 lakh for electric four-wheelers used for transport and INR 20 lakh for electric buses. One lakh EV two-wheelers, 25,000 transport category EV four-wheelers, and 1,500 EV private and city buses will get these incentives.

The new EV policy provides a complete exemption from Motor Vehicle Tax and registration renewal fees for EVs registered during the policy period. EVs will get a 100 percent exemption from tolls on the Mumbai-Pune and Mumbai-Nashik Expressways.

A steering committee chaired by the Chief

Secretary will also decide on granting tax exemption to EVs in phases on the remaining roads under the jurisdiction of the Public Works Department. Charging infrastructure will be developed at 25 km intervals along highways, and it will be ensured that there is at least one EV charging station at every government ope parking space.

Also, public charging stations will receive viability gap funding of up to 15 percent of setup costs. All new residential buildings must be 100 percent EV charging

ready, with at least one community charging point. New commercial buildings must earmark 50 percent of parking for EV charging, while 20 percent of space in existing commercial buildings with shared parking must have operational chargers.

The new policy emphasises that all new vehicles purchased for city travel by government departments must be electric. It further said that 50 percent of city utility

vehicles purchased in cities like Mumbai, Pune, Nagpur, Nashik, Chhatrapati Sambhajnagar and Amravati should be electric. The state will also support research and development in alternative battery chemistries, motor technology, vehicle-to-grid integration and green hydrogen generation. INR 15 crore corpus will be created under the Chief Minister's EV R&D Grant to fund such initiatives, as per the policy. The transport department shall establish a network of Automated Testing Stations for EVs to conduct standardised safety assessments, including thermal runaway testing for batteries.

The Maharashtra State Board of Technical Education (MSBTE) will introduce specialised courses in EV design, battery technology, charging infrastructure, power electronics, and energy management, the policy contemplates.



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MNRE revises guidelines for small hydro power projects

The Ministry of New and Renewable Energy (MNRE) has issued revised guidelines for small hydro power schemes.

The revised guidelines apply to all small hydro projects sanctioned under the previous schemes and aim to address ongoing sectoral challenges faced by the stakeholders. For release of the balance central financial assistance (CFA), projects now need to achieve at least 80 per cent of the projected generation for any

one corresponding month as per the detailed project report (DPR). If not, the second installment of CFA will be proportionally reduced. If a project achieves 73 per cent of the projected generation for the cumulative of three consecutive months or cumulative annual generation for one year as envisaged in the DPR, the second installment of CFA will be calculated on a pro-rata basis, with the methodology being provided in the policy document.



MNRE issues draft guidelines for series approval of PV modules in test labs

The Ministry of New and Renewable Energy (MNRE) has released draft guidelines for the series approval of solar photovoltaic (PV) modules in designated test laboratories, in accordance with the Solar Systems, Devices and Components Goods Order, 2025.

These guidelines are intended to streamline the procedure for performance testing and facilitate compulsory registration with the Bureau of Indian

Standards. As per the draft, a product family must be defined by the maximum configuration of components or sub-assemblies and must include a description of how models are constructed using the maximum configuration. All models in a product family must share common design, construction, and critical components to ensure compliance with applicable standards.



Reliance Power bags LoA for 350 MW solar project with 700 MWh BESS

Reliance Power Limited, through its subsidiary Reliance NU Energies, has received a letter of award (LoA) from SJVN Limited for the development of a 350 MW inter-state transmission system-connected solar power project.

The project will be integrated with a 175 MW/700 MWh battery energy storage system (BESS). The company secured the project in a competitive auction conducted by SJVN, at a tariff of Rs 3.33 per kWh for a period of 25 years. With this project, Reliance Power's total clean energy pipeline now stands at 2.4 GW of solar DC capacity and over 2.5 GWh of BESS capacity.



Sembcorp secures 150 MW solar project with 300 MWh battery storage from SJVN

Sembcorp Industries, through its wholly-owned subsidiary Sembcorp Green Infra Private Limited, has secured a 150 MW solar power project integrated with a 300 MWh battery energy storage system (BESS) from SJVN Limited.

The letter of award is part of SJVN's 1.2 GW tender for inter state transmission system - connected solar projects with a cumulative 600 MW/2.4 GWh of battery storage capacity. The project will be developed on a build-own-operate basis, with commercial operations expected within 24 months of signing the 25-year power purchase agreement. It will provide solar energy and supply peak demand support for four hours daily through the BESS.





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Key corporates from Malaysia, Vietnam and Singapore sign agreement to develop cross-border renewable energy supply

Leading energy companies from Malaysia, Vietnam and Singapore have signed a Joint Development Agreement (JDA) to explore the export of renewable electricity from Vietnam to Malaysia and Singapore. The agreement marks a significant step towards advancing regional energy integration and decarbonisation. The Malaysian side is represented by the MY Energy Consortium, an unincorporated consortium formed by Tenaga Nasional Berhad (TNB) and Petrolim Nasional Berhad (PETRONAS). It will collaborate with a consortium comprising PetroVietnam Technical Services Corporation (PTSC), a

member of the Vietnam National Industry – Energy Group (Petrovietnam), and Sembcorp Utilities Pte Ltd, a wholly owned subsidiary of Singapore-based Sembcorp Industries. The trilateral partnership will focus on tapping Vietnam's offshore wind potential and evaluating the feasibility of transmitting clean electricity across borders via a new subsea cable. The electricity would be wheeled through Peninsular Malaysia's national grid, with possible support from additional firming renewable generation and storage capacity.



WattPower partners with Solarium Green Energy to boost solar adoption in Madhya Pradesh and Maharashtra

WattPower has signed a strategic agreement with Solarium Green Energy Limited to enhance solar deployment in Madhya Pradesh and Maharashtra, with a special focus on supporting the central government's Kisan Urja Suraksha evam Utthaan Mahabhiyan (KUSUM) scheme.

As part of the partnership, Solarium has been

appointed as WattPower's Value Added Partner to drive decentralised solar electrification in rural areas. The initiative targets increased adoption among farmers and small enterprises. WattPower will supply modular, high-efficiency solar solutions, while Solarium will lead regional deployment and ensure last-mile connectivity.



ACME Solar Holdings commissions 26.4 MW unit of wind project in Gujarat

ACME Solar Holdings Limited has commissioned a 26.4 MW of its 50 MW ACME Pokhran wind power project at Shapur in Gujarat.

The project is being executed in multiple phases, and the newly commissioned capacity of 26.4 MW marks the initial stage of implementation. The project has reportedly been financed by Power Finance

Corporation Limited and constructed in-house by ACME solar's engineering, procurement, and construction division. Envision 3.3 MW turbines have been deployed for the project. The electricity generated is pooled at a 33/220 kV pooling station and stepped up for evacuation through a dedicated single-circuit 220 kV transmission line to the Shapur substation.



SWREL secures 225 MW solar EPC order in Gujarat

Sterling and Wilson Renewable Energy Limited (SWREL) has secured a turnkey engineering, procurement and construction (EPC) order for a 225 MW grid-connected solar photovoltaic project in Gujarat.

The company emerged as the lowest bidder in a competitive tender floated by a reputed public sector undertaking developer.





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महावितरणच्या वर्धापनदिनाला विद्युत सुरक्षा अभियानाची जोड; विविध उपक्रमांमध्ये २ लाख सुरक्षा दूतांचा सहभाग

मुंबई, १७ जून २०२५: विद्युत सुरक्षेला सर्वोच्च प्राधान्य देत महावितरणने यंदा २० व्या वर्धापन दिनानिमित्त 'प्रकाशमान महाराष्ट्र, सुरक्षित महाराष्ट्र' या विद्युत सुरक्षा अभियानाला सुरवात केली.

त्यानिमित्त आयोजित सप्ताहामध्ये सुरक्षा दूत म्हणून तब्बल १ लाख ९७ हजारांवर नागरिक, शालेय विद्यार्थी, अभियंता, अधिकारी व कर्मचाऱ्यांनी प्रत्यक्ष सहभाग घेतला.

अध्यक्ष व व्यवस्थापकीय संचालक श्री. लोकेश चंद्र यांच्या सूचनेनुसार महावितरणच्या २० व्या वर्धापनदिनाचे औचित्य साधून लोकाभिमुख विद्युत सुरक्षा अभियान सुरू करण्यात आले आहे.

विद्युत सुरक्षा अभियानातील सुरक्षा सप्ताहाचा नुकताच समारोप झाला. यावेळी अध्यक्ष व व्यवस्थापकीय संचालक श्री. लोकेश चंद्र, स्वतंत्र संचालक श्री. विश्वास पाठक, संचालक श्री. अनुदीप दिघे (वित्त), श्री. सचिन तालेवार (संचालन/प्रकल्प), श्री. राजेंद्र पवार (मानव संसाधन) यांच्यासह मुख्यालयातील अभियंते, अधिकारी व कर्मचाऱ्यांनी विद्युत सुरक्षेची प्रतिज्ञा घेतली.

विद्युत सुरक्षेचा संदेश देण्यासाठी १६ परिमंडलांमध्ये मॅरेथॉनचे आयोजन करण्यात आले. मानव संसाधन विभागाचे संचालक श्री. राजेंद्र पवार, कार्यकारी संचालक श्री. पेश भागवत यांच्यासह ११ हजार ३२३ अभियंता, अधिकारी व कर्मचाऱ्यांनी सहभाग घेतला. तसेच महावितरणच्या वेबसाईट



व मोबाईल ॲपद्वारे शालेय विद्यार्थी, नागरिक व कर्मचाऱ्यांसाठी ऑनलाइन प्रश्नमंजूषा घेण्यात आली. घरगुती व सार्वजनिक विद्युत सुरक्षेच्या ऑनलाइन प्रश्नमंजूषेत तब्बल ९५ हजार २९२ जणांनी प्रतिसाद दिला. यात तब्बल १० हजार ८२७ शालेय विद्यार्थी तसेच ८४ हजार ४६६ नागरिक व महावितरणच्या कर्मचाऱ्यांचा सहभाग होता. या सर्वांना ऑनलाइन प्रमाणपत्र प्रदान करण्यात आले.

यासह राज्यभरातील १४६ विभाग कार्यालय अंतर्गत शालेय विद्यार्थ्यांसाठी निबंध व चित्रकला स्पर्धांचे आयोजन करण्यात आले.

त्यास ७ हजार ८५७ शालेय विद्यार्थ्यांनी प्रतिसाद दिला व विद्युत सुरक्षेच्या संदेशांचे रंगबिरंगी चित्र रेखाटले. विजेत्यांना बक्षिसे व सहभागाचे प्रमाणपत्र देण्यात आले. विद्युत सुरक्षेच्या जागरासाठी बाईक रॅली, प्रभात फेरी तसेच बसस्थानके, रेल्वे स्टेशन, बाजारपेठा, गर्दीचे ठिकाणे व रहिवासी सोसायट्यांमध्ये महावितरणच्या ५९ हजारांवर अभियंते, अधिकारी व कर्मचाऱ्यांनी लाखो नागरिकांशी थेट संवाद साधला व विद्युत सुरक्षेची माहिती दिली. अनेक ठिकाणी पथनाट्ये व माहिती पत्रकांद्वारे विद्युत सुरक्षेचा संदेश देण्यात आला.

राज्यातील महावितरणच्या १ कोटी ९२ लाख ७९ हजार ग्राहकांना नोंदणीकृत मोबाईलवर 'एसएमएस'द्वारे विद्युत सुरक्षेचा संदेश देण्यात आला तर ३५ लाख ७३ हजारांवर ग्राहकांना नोंदणीकृत इमेलद्वारे 'विद्युत सुरक्षेबाबत काय करावे व काय करू नये' याबाबत माहिती देण्यात आली. दि. ५ जूनला 'पर्यावरण दिना' निमित्त वीजबचतीचा राज्यभरात संदेश देण्यात आला. विद्युत सुरक्षा सप्ताहाचा समारोप करताना महावितरणच्या वर्धापनदिनी, दि. ६ जूनला सकाळी १० ते १०.१५ वाजेदरम्यान एकाच वेळी सुमारे ३४ हजारांवर अभियंते, अधिकारी व कर्मचाऱ्यांनी विद्युत सुरक्षेची प्रतिज्ञा घेतली. विद्युत सुरक्षा अभियान अंतर्गत यापुढेही विद्युत सुरक्षेचा जागर सातत्याने करण्यात येणार आहे.



महावितरणच्या विद्युत सुरक्षा अभियानात अध्यक्ष व व्यवस्थापकीय संचालक श्री. लोकेश चंद्र, स्वतंत्र संचालक श्री. विश्वास पाठक, सर्वश्री अनुदीप दिघे, सचिन तालेवार, राजेंद्र पवार यांच्यासह राज्यभरातील अभियंते, अधिकारी व कर्मचाऱ्यांनी विद्युत सुरक्षेची प्रतिज्ञा घेतली.





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महावितरणच्या उपकेंद्रांसाठी गुणवत्तेसह सुरक्षेचेही 'आयएसओ' मानांकन घ्यावे – संचालक श्री. राजेंद्र पवार



पुणे येथील साईमिस्टिक २२/२२ केव्ही उपकेंद्राला सुरक्षेसाठी 'आयएसओ ४५००१:२०१८'चे प्रमाणपत्र संचालक श्री. राजेंद्र पवार यांच्याहस्ते प्रदान करण्यात आले. यावेळी प्रादेशिक संचालक श्री. भुजंग खंदारे, मुख्य अभियंते सर्वश्री सुनील काकडे, स्वप्निल काटकर, धर्मराज पेठकर यांची प्रमुख उपस्थिती होती.

विद्युत ठेकेदारांच्या विविध अडचणीबाबत श्रीमंत छत्रपती शिवेंद्रसिंहराजे भोसले साहेबांची भेट

सार्वजनिक बांधकाम खात्यात काम करणाऱ्या विद्युत ठेकेदारांच्या विविध अडचणीबाबत श्रीमंत छत्रपती शिवेंद्रसिंहराजे भोसले साहेबांची भेट घेण्यात आली त्यांनी आमचे म्हणणे ऐकून घेतले ते पुढीलप्रमाणे :

१. PWD चा CSR लवकरात लवकर PUBLISH करू असे मंत्री महोदयाने आश्वासन दिले.
२. इमारतीच्या बांधकाम विभागाकडे सर्व निधी जातो व तो विद्युत विभागाला उरला तर मिळतो त्यावर मंत्री महोदय यांनी सांगितले सर्व विभागाला काढायला सांगितले.
३. विद्युत विभागाचे technical sanction ची power वाढवण्यासाठी निर्देश देण्यात आले.
४. स्थापत्य आणि विद्युत यांच्या एकत्रित निविदेची मर्यादा १५ कोटीच्या इमारतीच्या कामावरून ५० कोटी करावी. जेणेकरून विद्युत विभागाला कामे मिळतील व विद्युत ठेकेदाराचे स्वतंत्र्य अस्तित्व कायम राहील.
५. GR निघतात ते विद्युत आणि civil चे वेगवेगळे काढावे.
६. विद्युत चा कलमर्यादा ६ ते ९ महिने असतो आणि civil ची कालमर्यादा दीड वर्षाच्या पुढे असते आणि १ वर्षाचा आत मध्ये price variation clause लागू होत नाही त्यावर विचार करण्यात यावा.





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इकॅमतर्फे महावितरणच्या अधिकाऱ्यांचे स्वागत



मा.चेअरमन श्री.देवांग ठाकूर साहेब यांच्या आदेशाने आम्ही सर्व मुंबई चे डायरेक्टर यांनी मा.श्री.निलेश मदाने मुख्य विद्युत निरीक्षक सांताक्रूझ डिव्हिजन मुंबई यांनी पदभार स्वीकारला त्यावेळी मुंबई टीम ने साहेबांचा सत्कार करून विविध समस्येवर चर्चा केली त्यावेळी उपस्थित श्री.कल्पेश पटेल, पुरण सागर, नंदकिशोर बडगुजर, शेषकुमार शर्मा, जिराजेंद्र, राजू वाकोडे, अशोक कांबडी व ईतर ठेकेदारांनी चर्चा केली, चांगला प्रतिसाद मिळाला.

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स्वागत केले.



नवीन अधीक्षक अभियंता श्री विनोद चंद्रकांत पाटील साहेब जळगाव यांना ECAM तर्फे पुष्प गुच्छ देऊन स्वागत करण्यात आले.

- अध्यक्ष ईकॅम जळगाव



आज MSSEDCL च्या धुळे ग्रामीण विभागाच्या नवीन Executive Engineer (कार्यकारी अभियंता) पदी श्री काळे साहेब यांनी पदभार स्वीकारला त्याबद्दल त्यांचे स्वागत करताना ECAM चे उपाध्यक्ष नितीन अग्रवाल, सचिव अनिल पवार व संचालक संजय शिरोडे, राकेश चौधरी, गिरीश बडगुजर, सागर पाटील, मोहित वाघ व इतर

आज MSSEDCLच्या धुळे URBAN विभागाच्या नवीन Executive Engineer (कार्यकारी अभियंता) पदी मा. जितेंद्र महाजन साहेब यांनी पदभार स्वीकारला त्याबद्दल त्यांचे स्वागत करताना ECAM चे उपाध्यक्ष नितीन अग्रवाल, व संचालक संजय शिरोडे, राकेश चौधरी, गिरीश बडगुजर, सागर पाटील, मोहित वाघ.



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Elle Electricals Pvt. Ltd.

- **What quality control measures do you have in place to ensure the reliability and safety of your wires and cables?**

Ans : We have a multi-tiered quality control system that begins with rigorous raw material inspection and continues through in-process

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After Kovid a new plant is established in Paria Gujarat to Manufacture wires & Cables.

This interview is given by the Managing Director of the company.

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Email : business@samarthelectrical.in

Ans : We strictly adhere to BIS standards. Our manufacturing processes are aligned with IS 694:2010, IS 5831(1984), and IS 8130(1984) certifications, ensuring compliance with safety, environmental, and occupational health regulations.

- **Can you describe your testing procedures for wires and cables, including any certifications or accreditations you hold?**

Ans : Our wires and cables go through high-voltage tests, tensile strength assessments, insulation resistance tests, and flame resistance checks. We also hold certifications from BIS and ERDA, depending on the product line to validate our testing protocols.

- **How do you handle customer complaints or issues related to product quality?**

Ans : We maintain a dedicated quality assurance and customer service team to address issues swiftly. Each complaint is logged, analyzed using root cause analysis, and resolved with corrective and preventive measures to avoid recurrence.

- **What trends do you see shaping the future of the wire and cable industry, and how is your company positioned to adapt?**

Ans : We foresee the integration of digital monitoring, fire-resistant designs, and lightweight materials becoming industry standards. Our agile manufacturing setup and continuous training programs ensure we're ready to adapt to these changes.

- **How do you think the industry will evolve in terms of sustainability, energy efficiency, and environmental impact?**

Ans: The industry is moving toward reduced carbon footprints. We're actively reducing energy

consumption in our plants and switching to lead-free and recyclable compounds to minimize environmental impact.

- **Are there any potential challenges or disruptions that you see on the horizon for the wire and cable industry, and how is your company preparing for them?**

Ans : Supply chain volatility and raw material price fluctuations are major concerns. We're mitigating this by diversifying suppliers, investing in forecasting tools, and maintaining strategic inventories.

- **How do you balance the need for quality and reliability with the pressure to reduce costs and improve efficiency?**

Ans: To balance quality, reliability, cost, and efficiency, we focus on process optimization, strategic resource allocation, and data-driven decision-making. By streamlining processes, leveraging technology, and investing in employee development, we can improve efficiency while maintaining quality standards. Regular audits and feedback loops ensure we meet our quality goals while continuously seeking opportunities for cost reduction and improvement. By prioritizing high-impact areas and collaborating across teams, we can achieve a balance that meets our objectives

- **What sets your company's products apart from those of your competitors, and how do you differentiate yourself in the market?**

Ans: Our customer-centric approach, robust logistics, and tailor-made cable solutions set us apart. We offer complete pre-sales technical guidance and post-sales support, making us a preferred partner across sectors.



MNRE updates ALMM list with new entrants

The Ministry of New and Renewable Energy (MNRE) has revised the approved list of models and manufacturers (ALMM) for solar photovoltaic modules.

The list now has additional capacities from Reliance Industries Limited and SASA Energy.

Reliance Industries has been enlisted with an annual manufacturing capacity of 1,716 MW from its Jamnagar facility, while Avaada Electro's Nagpur unit contributes 1,272 MW. ReNew Photovoltaics adds 2,926 MW from its Jaipur facility. Other firms such as Agrawal Renewable Energy, Unique Sun Power, Oswal Solar, Navitas Green, and Insolation Green Energy have also seen capacity additions or updates. The updated list is effective immediately and will be valid until June 4, 2029, features a range of bifacial glass-to-glass and glass-to-transparent-backsheet modules.





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Crompton Greaves secures Rs 1.01 billion order for solar pump project from MEDA

Crompton Greaves Consumer Electricals Limited has secured a Rs 1.01 billion order from the Maharashtra Energy Development Agency (MEDA) for the supply and installation of 4,500 off-grid solar photovoltaic water pumping systems.

The project is being implemented under Component-B of the Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan scheme and will be executed on a turnkey basis. It includes design, manufacturing, supply, installation, testing, and commissioning of the systems, along with a five-year comprehensive maintenance contract. The company will deploy its direct current submersible solar pumps, designed for rural and off-grid applications, and is expected to provide implementation support through trained field personnel, district-level service teams, and a structured after-sales network.





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- Mrs. Meera Joshi

Established in the year 1994, “Epsilon Cables Pvt. Ltd.”, is recognized as a prominent Manufacturer of a wide range of LT Power and Communication Cables. The company has a well – planned manufacturing set-up with modern Machinery to suit our range of products. It is through consistent leadership and direction of the Board of Directors that Epsilon has set a mark in the Industry.

● What quality control measures do you have in place to ensure the reliability and safety of your wires and cables?

We are an ISO : 9000 certified company since last 25 years and all Quality System Procedures are in place since then

● How do you comply with industry standards and regulations, such as those set by BIS, IEC, or UL? –

Our products meet the relevant Standards of BIS viz. IS:694, IS:1554, IS:1590 etc.. Since we are in special cable manufacturing we also meet all the national / International standards viz. IEC, VDE, BSEN, IEEE, SS, ASTM etc. Also our products are CE approved. And

● Can you describe your testing procedures for wires and cables, including any certifications or accreditations you hold?

All our products are passed through the different Quality Plans designed as per the product/ specifications. Incoming Raw material, Process Inspection and Final Testing are done as per the standard written Procedures.

● How do you handle customer complaints or issues related to product quality?

Very proudly we say that we have rarely any

complaint from the customer which are of Technical nature. Since last so many years, we have a number of satisfied customers, who are placing repeated orders.

● What new technologies or materials are you exploring for wire and cable manufacturing, and how do you see them impacting the industry?

Continuously exploring new materials available in the market and work on developing the same and providing to the customers meeting the need. Discuss and try to understand customers need and help them with Optimum solutions.

● Can you describe any recent innovations or advancements you've made in your manufacturing processes or products?

Development is the continuous process in our Works as we are in the special Cable manufacturing. Whether it is SS Braiding, ZHLS/ HFFR Cables, FS Cables, Composite Cables for E-Vehicle segments, Blasting Cables with special connection, Cables with connectors/ Glands etc.

● How do you stay up-to-date with the latest developments and trends in the wire and cable industry?

Participating in various Exhibitions, Material Suppliers, Industry experts etc.

● Are there any emerging technologies, such as

renewable energy or electric vehicles, that you see as opportunities for growth or innovation in the wire and cable industry?

Yes we are already participating/ understanding the requirement.

- What trends do you see shaping the future of the wire and cable industry, and how is your company positioned to adapt?

Phenomenal changes are taking place in this Industry, w.r.t Material, Products, Machinery etc. Automization in the Industry, varying needs of the customer, simplification of Processes, reducing the time and costing etc has lead to many changes and we need to adopt it to remain competitive in the market

- How do you think the industry will evolve in terms of sustainability, energy efficiency, and environmental impact?

This is a continuous process and need to be alert. Also adopting various practices of the Industry viz LEAN and other methods.

- What role do you see wire and cable manufacturers playing in the development of smart grids, smart cities, or other emerging infrastructure projects?

Of course a Major role is being played by Wire and Cable Industry and Cables meeting the customers needs is the key factor

- Are there any potential challenges or disruptions that you see on the horizon for the wire and cable industry, and how is your company preparing for them?

Over the period most of the things in Cable Industry remains unchanged. However we have to remain updated with the changing technologies.

- Can you describe your company's approach to research and development, and how you prioritize innovation and investment in new technologies?

As mentioned elsewhere it is a continuous process. And we

keep on adding the new machineries / Materials / Products every few Years.

- How do you balance the need for quality and reliability with the pressure to reduce costs and improve efficiency?

We have a team of engineers who keep on developing/ studying the materials and its processes. Also work on reducing the cost.

- What sets your company's products apart from those of your competitors, and how do you differentiate yourself in the market?

Product Quality, Consistency, Services and meeting the urgencies etc are the few factors.



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दूर गेली पाऊले, परि राहिल्या पाऊलखुणाः श्री रविन्द्र शिवरेकर यांचे अकस्मात निधनः

शुक्रवार, १३ जून हाच तो दिवस ज्या दिवशी अचानकपणे श्री रविन्द्र शिवरेकर यांनी या जगाचा कायमचा निरोप घेतला. इकंमच्या सर्वच सदस्यांना हा जबरदस्त धक्का होता. दिवसभर महाराष्ट्राच्या

विविध भागातून सांत्वनाचे आणि श्रद्धांजलीचे शोकसंदेश इकंमच्या गुपवर येत राहिले. फोटोतील रविन्द्रचा हसरा चेहरा पाहून प्रत्येकजण हळहळत होता. शिवरेकर कुटुंबात काय हलकल्लोळ माजला असेल याची आपण कल्पना करू शकतो. इकंमच्या कार्यक्रमात अनेकवेळा त्यांची माझी भेट होई. उमदे व्यक्तिमत्व, मृदु स्वभाव, सहज संवाद करणारे रवि यांच्याबरोबरचा सहवास सुखावह असे. नुकतेच सोलार एनर्जीच्या व्यवसायाबद्दल त्यांच्याशी बोलणे झाले होते.

आपला व्यवसाय आणि संसार सांभाळून त्यांनी आपल्या संघटनेचे काम निष्ठेने केले. विविध जबाबदाऱ्या पार पाडल्या.

१९६२ मध्ये जन्म घेतलेल्या मध्यमवर्गीय रविन्द्र यांनी आपले लौकिक शिक्षण पूर्ण करून बी कॉम ही पदवी मिळवली आणि एका खाजगी कंपनीत नोकरी सुरू केली. पण नोकरीत मन रमत नव्हते.



कोणाच्या तरी सल्ल्यानुसार त्यांनी वायरमनचा कोर्स केला आणि छोटी मोठी कामे करायला सुरुवात केली. या क्षेत्रात त्यांचे मन रमू लागले आणि मग त्यांनी सुपरवायजरची परीक्षा देऊन छोट्या कंपनी, दुकाने, कारखाने यांची कामे यशस्वीपणे पूर्ण केली. उत्साह आणि आत्मविश्वास वाढत चालला आणि नंतर इंडस्ट्रीयल एरिया, बिल्डर्स यांची मोठी कामे हातात घेतली. महत्वाचे म्हणजे या सर्व वाटचालीत त्यांना श्री अनिल केळकर यांची फार मोठी मदत आणि मार्गदर्शन मिळाले. ते जणू त्यांचे गॉडफादरच होते. मग कामांचा जोर वाढतच गेला. ST LT ची कामे सुरू करून आपला व्यावसायिक पसारा उत्तम प्रकारे वाढवत नेला. आर्थिक स्थैर्य आणि सुबत्ता आली.

कष्ट करणाऱ्यास लक्ष्मी प्रसन्न होतेच. सन २००० मध्ये त्यांनी स्वतःच्या वास्तूत प्रवेश केला.

रविन्द्र यांना फोटोग्राफीचा छंद होता. तो त्यांनी शेवटपर्यंत जोपासला. कोणत्याही कामाला 'नाही' म्हणायचे नाही, कोणालाही दुखवायचे नाही, स्वतःच्या आधी दुसऱ्याचा विचार करायचा, सतत कार्यमग्न रहायचे, मागेला त्याला मदत करायची आणि प्रत्येक काम सचोटीने आणि प्रामाणिकपणे करायचे हा त्यांचा स्वभाव बनला होता. यामुळे त्यांना खूप मोठा मित्र परिवार लाभला होता. नातेवाईकांमधेही त्यांचे खास स्थान होते. नाती कशी जपावी हे त्यांच्याकडूनच शिकावे! नाती दुरावू नयेत यासाठी ते सदैव प्रयत्नशील असत.

या सर्व आठवणी त्यांच्या प्रिय पत्नी रश्मी यांनी सांगितल्या आहेत. त्या म्हणत, अरे आता जरा आराम कर. तर ते म्हणायचे, आरामापेक्षा काम महत्वाचे, पैशापेक्षा माणुसकी महत्वाची, आनंदापेक्षा समाधान महत्वाचे!! असे जीवन त्यांनी जगून दाखवले आहे. आपल्या पतीशी सर्वार्थाने एकरूप झालेल्या रश्मी देवाला साकडे घालतात की, देवा, जेव्हा जेव्हा मला जन्म मिळेल, त्या प्रत्येक जन्मात हाच पती मला मिळो.

अशा या विलक्षण व्यक्तीला मनःपूर्वक वंदन आणि भावपूर्ण श्रद्धांजली!

सतीश सिन्नरकर, संपादक



कौटुंबिक फोटोमध्ये डावीकडून विनायक शिवरेकर थोरले भाऊ, नितीन शिवरेकर मोठा भाऊ, विनायक शिवरेकर यांच्या पत्नी क्षमा शिवरेकर, निशिगंधा शिवरेकर, नितीन शिवरेकर यांच्या पत्नी, निखिल शिवरेकर, नितीन शिवरेकर यांचा मुलगा निखिल शिवरेकर यांच्या पत्नी योगिता शिवरेकर आणि त्यांची मुलगी आरवी, रवींद्र शिवरेकर यांचा मुलगा - विवेक शिवरेकर, रविंद्र शिवरेकर यांच्या पत्नी रश्मी शिवरेकर.



Global Usage of kWh and kVAh in Electricity Billing

kWh Billing: This is the standard unit for measuring active energy consumed over time. It's widely used in residential billing across many countries, including the United States, Canada, and most of Europe.

kVAh Billing: This method measures both active (kWh) and reactive (kVARh) energy, encouraging consumers to maintain a power factor close to unity. It's commonly applied in industrial and commercial sectors in countries like India and is being considered in various regions to improve grid efficiency and reduce losses.

Transition from kWh to kVAh Billing

While kVAh billing offers advantages in promoting energy efficiency, its adoption requires significant infrastructure changes, including the installation of compatible meters and updating billing systems. This transition can be complex and costly, as noted in discussions about its implementation in India and the United Arab Emirates

Global Metering Statistics

United States: Over 86 million smart meters were installed by the end of 2018 .

European Union: The EU aimed to replace 80% of current electricity meters with smart meters by 2020, with an estimated 266 million smart meters deployed by 2030 .

India: Several states have introduced kVAh billing in recent tariff orders, particularly for high-tension (HT) consumers, to encourage better power factor maintenance .

Considerations

The shift to kVAh billing aims to promote efficient energy use and reduce system losses. However, it requires careful implementation to ensure fairness and transparency, especially in regions with varying levels of infrastructure development.

In summary, while kWh remains the dominant unit for electricity billing worldwide, kVAh billing is emerging as a complementary approach in specific sectors and regions to enhance grid efficiency and encourage responsible energy consumption.



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- Govind Agarwal

Managing Director, Orbit Cables and Wires

Orbit Group of Companies manufacture and sell electricals ranging from wires and cables, PVC conduit pipes, Modular switches and LED lights. The dedication to create forward electrical solutions and environment friendly approach has put Orbit on the leaderboard across India and in the international market.

Mr. Govinda Agarwal, director, is engaged in Business Development, response is to assist their companies acquire new customers and sell additional products or services to existing ones; this means the role is a crucial one for any business with the ambition to expand or the necessity to diversify its clientele, excellent communication and IT skills, team working and leadership skills.

● **What quality control measures do you have in place to ensure the reliability and safety of your wires and cables?**

At Orbit Cables and Wires, quality is not just a benchmark, it's a commitment we uphold in every meter of wire and cable we produce. Ensuring reliability and safety starts with sourcing. We procure only the highest-grade raw materials from certified and trusted vendors. Our manufacturing processes are governed by stringent ISO and BIS standards, with regular audits to maintain compliance.

Each batch of wires and cables undergoes rigorous quality control tests at our in-house, state-of-the-art testing lab. These include conductor resistance tests, high voltage tests, insulation resistance, flame retardance, and tensile strength checks. We also implement process checks at multiple stages of production to catch and correct deviations in real-time.

Our team of experienced engineers and quality inspectors are trained to spot even the slightest anomalies. Additionally, all our products are RoHS compliant and follow best practices in environmental and electrical safety.

At Orbit, we don't just manufacture cables, we deliver peace of mind. Our mission has always been to provide durable, safe, and high-performance wiring solutions that customers can trust, whether it's for residential, commercial, or industrial use.

● **How do you comply with industry standards and regulations, such as those set by BIS, IEC, or UL?**

We are a BIS-certified company, and all our products are manufactured in line with the applicable IS (Indian Standards) specifications. Our production processes, design parameters, and testing methods are aligned with the guidelines laid out by IEC (International Electrotechnical Commission) and UL (Underwriters Laboratories) for global compatibility and safety.

From raw material procurement to the final stage of dispatch, we have robust internal controls and periodic third-party audits in place to ensure our practices remain up to the mark. Our in-house quality assurance team is well-versed in evolving regulatory frameworks and continuously updates our protocols to reflect changes.

Orbit also invests in regular training and

certification programs for our team to stay ahead of compliance requirements. This is part of our larger vision, to not just meet standards, but to exceed them consistently, providing our customers with products they can rely on in any environment, anywhere in the world.

● **Can you describe your testing procedures for wires and cables, including any certifications or accreditations you hold?**

Every product that comes off our production line undergoes a rigorous series of quality tests in our fully equipped, in-house laboratory, including Conductor Resistance, High Voltage (Dielectric), Insulation Resistance, Flammability and Fire Retardant (FR/FRLS/HFFR), Tensile Strength and Elongation, Spark Testing for insulation flaws, and Shrinkage and Ageing Tests to ensure long-term reliability and safety.

We follow test procedures as per BIS (IS standards), IEC specifications, and UL norms, depending on the product category and target market. Our laboratory is calibrated and maintained to deliver precise results consistently, and we are BIS-certified for all relevant cable categories.

In addition to BIS certification, many of our products

are also RoHS compliant, reflecting our commitment to environmental safety. We are actively pursuing further international certifications like CE and ISO/IEC 17025 accreditation to align with our global expansion strategy.

● **How do you handle customer complaints or issues related to product quality?**

At Orbit Cables and Wires, we believe that the true measure of quality is not just in manufacturing but in how we respond when something goes wrong. Customer feedback, positive or negative, is treated as a valuable input for continuous improvement.

We have a structured and time-bound complaint resolution system in place. As soon as a quality-related issue is reported, our dedicated customer service and technical support team initiates a detailed review.

This includes product batch tracing, sample analysis, and on-site inspection if needed. We ensure that the root cause is identified quickly and transparently.

Our commitment is not just to resolve the issue, but to ensure it doesn't recur. Corrective and preventive actions (CAPA) are implemented immediately, and the findings are documented as part of our internal quality management system.



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Moreover, we stay in close communication with the customer throughout the process, providing timely updates and, where necessary, replacements or technical support. Our ISO-aligned service protocols and customer-first philosophy ensure that every Orbit customer experiences reliability, not just in our products, but also in our support.

● **What new technologies or materials are you exploring for wire and cable manufacturing, and how do you see them impacting the industry?**

One key focus area is the development of halogen-free, flame-retardant (HFFR) and low-smoke, zero-halogen (LSZH) compounds. These materials are critical for enhancing fire safety, especially in residential, commercial, and transport applications. We're also experimenting with nano-additives in insulation and sheathing materials to improve thermal stability and mechanical strength without compromising flexibility.

From a technology standpoint, we are integrating Industry 4.0 principles into our manufacturing processes, automated quality checks, real-time monitoring systems, and AI-based predictive maintenance, to enhance precision and reduce wastage. We're also studying the application of smart cable technologies that incorporate sensors and data-transmitting capabilities, which could play a vital role in infrastructure, smart grids, and energy management systems.

● **Can you describe any recent innovations or advancements you've made in your manufacturing processes or products?**

At Orbit Cables and Wires, innovation is a continuous process driven by customer needs and technological progress. Recently, we've upgraded our production lines with automated extrusion and insulation machines integrated with real-time process control systems. These enhancements have improved dimensional accuracy, reduced waste, and enhanced production speed without compromising on quality.

On the product front, we've launched a new line of flame-retardant low-smoke (FRLS) and halogen-free flame-retardant (HFFR) cables, designed to meet higher safety standards in residential and commercial environments. We've also developed enhanced solar DC cables with UV resistance and high insulation integrity, catering to the fast-growing renewable energy sector.

● **How do you stay up to date with the latest developments and trends in the wire and cable industry?**

At Orbit Cables and Wires, we make it a priority to

stay updated through multiple channels. We actively participate in national and international trade fairs, technical seminars, and industry consortiums, which keep us closely aligned with global advancements. Our technical and R&D teams regularly study new standards, regulatory updates, and emerging technologies by subscribing to leading journals and staying in touch with organizations like BIS, IEC, and UL. We also maintain strong relationships with machinery manufacturers, compound suppliers, and certification bodies to remain informed about the latest materials and production techniques.

Internally, we conduct regular training workshops and knowledge-sharing sessions to ensure that our workforce evolves with the industry. This multi-layered approach helps us not just follow trends—but often anticipate them.

● **Are there any emerging technologies, such as renewable energy or electric vehicles, that you see as opportunities for growth or innovation in the wire and cable industry?**

Yes, emerging technologies like renewable energy and electric vehicles (EVs) are transforming the wire and cable industry and presenting tremendous growth opportunities. The global push towards clean energy has accelerated demand for specialized cables that can withstand harsh outdoor environments, UV exposure, and high voltages, especially in solar photovoltaic (PV) systems and wind energy installations.

Similarly, the rapid adoption of EVs requires a new generation of cables for charging infrastructure, battery packs, and powertrain components.

These cables must deliver high conductivity, thermal stability, and enhanced safety to support efficient and reliable electric mobility.

At Orbit, we are actively developing cables tailored for these sectors—focusing on durability, fire safety, and environmental compliance. We see these emerging markets not just as opportunities to grow but as platforms to innovate and contribute to a more sustainable future."

● **What trends do you see shaping the future of the wire and cable industry, and how is your company positioned to adapt?**

The wire and cable industry is evolving rapidly, influenced by several key trends. First, there is an increasing demand for sustainable and eco-friendly materials, driven by environmental regulations and consumer awareness. Second, the rise of smart infrastructure, including smart grids, smart cities, and IoT applications, is creating a

need for cables that can support high-speed data transmission and integrated sensing capabilities.

The shift toward renewable energy and electric mobility is reshaping product requirements, emphasizing durability, fire resistance, and energy efficiency. Advances in automation and Industry 4.0 technologies are transforming manufacturing processes, improving quality and reducing waste.

Orbit Cables and Wires is well-positioned to adapt to these trends through continuous investment in R&D, upgrading our manufacturing technology, and expanding our portfolio of advanced, environmentally compliant products.

● **How do you think the industry will evolve in terms of sustainability, energy efficiency, and environmental impact?**

The wire and cable industry is at a pivotal point in its journey toward sustainability and environmental responsibility. Moving forward, we expect a stronger emphasis on the use of eco-friendly, recyclable materials and the reduction of hazardous substances in manufacturing processes. Products such as halogen-free, low-smoke cables will become standard as safety and environmental concerns grow globally.

Energy efficiency will be enhanced through innovations in conductor materials and insulation technology, reducing losses during transmission and thereby contributing to overall energy savings. Additionally, manufacturers will adopt green manufacturing practices—minimizing waste, lowering carbon footprints, and conserving resources.

We are actively investing in sustainable raw materials, optimizing energy use in our factories, and complying with stringent environmental regulations.

● **What role do you see wire and cable manufacturers playing in the development of smart grids, smart cities, or other emerging infrastructure projects?**

Wire and cable manufacturers are foundational to the success of smart grids, smart cities, and modern infrastructure projects. These initiatives rely heavily on reliable, efficient, and intelligent cabling solutions to support advanced communication networks, real-time monitoring, and efficient power distribution.

At Orbit Cables and Wires, we recognize this critical role and are actively developing cables that meet the stringent demands of these projects—such as high-speed data cables, power cables with enhanced fire



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● **Are there any potential challenges or disruptions that you see on the horizon for the wire and cable industry, and how is your company preparing for them?**

The wire and cable industry faces several challenges in the near future, including raw material price volatility, supply chain uncertainties, and increasingly stringent regulatory requirements around safety and environmental standards. Additionally, rapid technological shifts demand continuous innovation, which can be resource intensive.

At Orbit Cables and Wires, we proactively address these challenges through a multi-pronged approach. We maintain strong, diversified supplier relationships to mitigate raw material risks and invest in advanced inventory and supply chain management systems to ensure operational resilience.

We also have a robust R&D function focused on developing new materials and manufacturing processes that align with evolving regulations and market needs. Continuous workforce training and adoption of Industry 4.0 technologies enhance our agility and efficiency.

● **Can you describe your company's approach to research and development, and how you prioritize innovation and investment in new technologies?**

We have established a dedicated R&D team that works closely with production, quality, and marketing departments.

Our approach is both proactive and customer-centric. We continuously analyze industry trends, emerging technologies, and customer feedback to identify areas where innovation can add value. Investment decisions are guided by factors such as market demand, regulatory changes, sustainability goals, and potential for differentiation.

We also foster collaborations with raw material suppliers, technology partners, and research institutions to accelerate development cycles and access cutting-edge expertise. By embedding innovation into our culture and processes, we ensure Orbit remains at the forefront of technological advancements in the wire and cable industry."

● **How do you balance the need for quality and reliability with the pressure to reduce costs and improve efficiency?**

Balancing quality, reliability, and cost-efficiency is indeed one of the biggest challenges in manufacturing. At Orbit Cables and Wires, we approach this balance through smart process optimization and strategic investments rather than compromising on material quality or safety standards.

We leverage advanced manufacturing technologies and automation to reduce waste, improve precision, and enhance productivity. Our lean manufacturing practices help us streamline operations, minimizing overhead without impacting product performance.

We focus on long-term value rather than short-term savings—choosing materials and processes that ensure durability and safety, thereby reducing warranty claims and building customer trust.

● **What sets your company's products apart from those of your competitors?**

What truly sets Orbit Cables and Wires apart is our unwavering commitment to quality, safety, and customer-centric innovation. Our products are manufactured using high-grade raw materials and undergo stringent testing at every stage, ensuring superior reliability and compliance with international standards such as BIS, IEC, and UL. We differentiate ourselves by offering customized solutions tailored to the specific needs of diverse sectors, from infrastructure and renewable energy to industrial applications. Our in-house R&D capabilities allow us to innovate rapidly, adapting to emerging market demands and regulatory changes. Furthermore, our emphasis on timely delivery, after-sales support, and transparent communication fosters strong, long-lasting relationships with our customers. At Orbit, we don't just supply cables, we deliver trust, performance, and peace of mind."

● **Are there any industry-wide initiatives or collaborations that you're involved in, and how do you see these contributing to the development of industry?**

We actively participate in industry associations and standards committees, such as those organized by BIS and the Electrical and Electronics Manufacturers' Association. These platforms enable us to contribute to the development and refinement of safety and quality standards. We also engage in partnerships with raw material suppliers, technology providers, and research institutions to foster innovation and sustainable practices across the value chain. Such collaborations help us stay at the forefront of emerging trends and regulatory changes.



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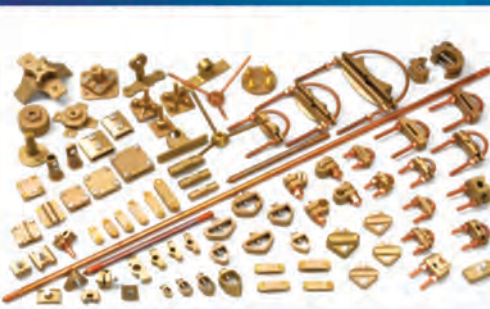
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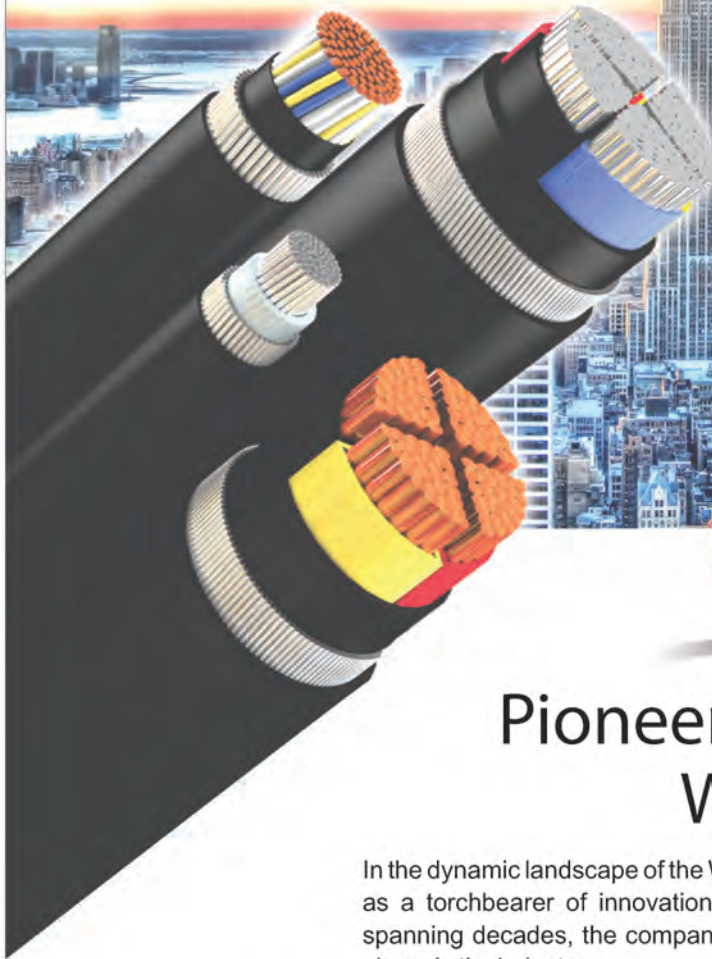


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