

**Electrical & Power Info** 

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7th Edition

Elektrotec 2024

An Exhibition for Electrical and Industrial Electronics

9th to 12th August 2024





#### Exhibitors Profile

- Cables, Conductors
- Cable fault locators
- Capacitors
- Conductors & Accessories Testing
- Design & Consultancy
- **Electrical / Electronics** Components & Accessories
- **Electro Mechanical**
- **Energy Meters**
- **Engineering Project**
- Electrical Vehicle Manufacturers
- Industrial Control & Automation Systems
- Wires and Cables
- **Lighting Accessories**
- Micro Electronics
- Motors & Generators
- **Optical Fibers**
- Opto-Electronics
- Pollution Control Equipment
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- Insulators & Insulating Materials
- **IT Solution**
- Lighting Industrial, Decorative, Flood, Home and Retail
- LED Lighting and accessories
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Editor: Er. Afzal Kamal

Power is among the most critical components of infrastructure, crucial for the economic growth and welfare of nations. The existence and development of adequate power infrastructure is essential for sustained growth of the Indian economy. The fundamental principle of India's power industry has been to provide universal access to affordable power in a sustainable way. The Ministry of Power has made significant efforts over the past few years to turn the country from one with a power shortage to one with a surplus by establishing a single national grid, fortifying the distribution network, and achieving universal household electrification.

India's power sector is one of the most diversified in the world. Sources of power generation range from conventional sources such as coal, lignite, natural gas, oil, hydro and nuclear power, to viable non-conventional sources such as wind, solar, agricultural and domestic waste. Electricity demand in the country has increased rapidly and is expected to rise further in the years to come. In order to meet the increasing demand for electricity in the country, massive addition to the installed generating capacity is required.

India was ranked fourth in wind power capacity and solar power capacity and fourth in renewable power installed capacity, as of 2021. India is the only country among the G20 nations that is on track to achieve the targets under the Paris Agreement.



Afzal Kamal Electronics Engr. Editor-in-chief

Have an insightful reading. Your suggestions are most welcome!

Email: editor@erafamemedia.com





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Earthing & Lightning Protection System

16<sup>th</sup> - 18<sup>nd</sup> January, 2024

Bombay Exhibition Centre, Mumbai, India







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#### ASIF MALIK, INDTECH CAPACITORS PVT





"If you look at history, innovation doesn't come just from giving people incentives; it comes from creating environments where their ideas can connect."

#### Asif Malik Managing Director, Indtech Capacitors Pvt. Ltd

Innovation is taking two things that exist and putting them together in a new way. We Indtech Capacitors India have a history of breakthrough innovations that result in game-changing technology. At Indtech Capacitors our pillars of strength are probity, innovation, and creativity. In our journey we have faced various obstacles, but together. As a team we've worked hard to overcome them and see the positive in crisis as well. We are proud of our past and we have an active present and we look forward to a promising future. These values are ingrained into our corporate culture and are followed in every aspect of our business operation through four major tenets:

- Zero compromise on quality.
- Consistent value for money to our clients.
- Client's satisfaction
- ▶ Maintaining loyalty with the employees & vendors. The industry is changing everyday with introduction of new technology and products. But the one thing that remains constant is trust and loyalty. Indtech Capacitor India apply world reliable production equipment and technology and has invested a large amount of money in importing many sets of automatic metal spray machine, resin dispensing machine etc... To complete the process quicker, earlier and easier

#### COMPANY PROFILE

Indtech Capacitors India founded in 1998, ICI produced high performance capacitors, our factory has been developing to employ a working force of over 500 workers, among which 25 are technicians. It covers area of 7,500sq.m.. Fixed assets have reached Rs. 500 million. Owing special production lines with annual production capacity of more than 18 million capacitors. Capacitors have certificates of RoHS, CE, ISI and factory obtained ISO 9001 international quality system.

We are manufacturing all kind of capacitors for both OEM market as well as for replacement market also. Capacitors are as follows:-

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- Capacitors for Motor
- Capacitors for Submersible Panel
- ▶ Motor Run Capacitors
- ▶ Motor Start Capacitors
- Capacitors for MS BOX
- Burst Proof Capacitors for AC (Singal & Dual Value)
- Capacitors for Washing Machine
- Box Type Capacitors
- Power Capacitors (KVAR)

#### ELECRAMA EXHIBITION

The ELECRAMA Exhibition was held after 4 years. First time ever we took a part in this exhibition which was held in the month of February, from 18th Feb'23 to 21st Feb'23, and we really feel glad to be a part of such an amazing exhibition

Thank you for letting us know about the opportunity, where we found a lot of contacts of customers from National & International market too. Customers were also full of Zest & zeal. They had a lot of queries regarding products. Customers wanted to know not only about general info but they had a lot of technical questions also. It was really a great experience to see that much interest of customers. And we hadn't find only customers but we find suppliers also for our raw materials.

We'll definitely work on the data we received from there in coming time and grow our business further. We'll provide the best quality products to the customers so they'll be completely satisfied and always tuned with us..



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38 Rohit Chowdhary Director, Eppeltone Engineers Pvt. Ltd.



Anant Krishna Waghchoure National Segment Manager -Motwane Manufacturing Pvt. Ltd.



Ramani Mani Founder and Managing Modutec Ready Panels Pvt. Ltd.



#### 50 transformers and transmission



Test and Measurement



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- 18 UL-62 SPT-1, SPT-2 & SPT-3 FLEXIBLE CORD CABLE (AMERICA & CANADA STANDARD)

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27-29 Dec 2023 VIA Ground, GIDC, Vapi Gujarat



7-10 Jan 2024

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Stall No. H3 - E8 16-18 Jan 2024

Bombay Exhibition Centre, Mumbai



Stall No. E5

#### 8-10 Feb 2024

Chennai Trade Centre, Poonthottam Colony, Nandambakkam, Chennai - 89



SRINI LINE

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#### 23-26 Feb 2024

Surat International Exhibition And Convention Centre (SECC) Bhatar - Althan Road, Nr. Khajod Chokdi,

Sarsana, Surat, Gujarat.



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#### Atmus Filtration Technologies inaugurates its World-Class Global Capability Center in India

Atmus Filtration Technologies (Atmus; NYSE: ATMU), a global leader in filtration and media solutions, has announced the inauguration of its stateof-the-art Global Capability Center in Pune, India.

The opening of the Global Capability Center marks a major milestone for the company in its continued focus to design and manufacture high-performing

experience and continued innovation from Atmus, the Global Capability Center is designed to enhance collaboration and cross-functional learning, and employs advanced analytics to facilitate the development of cutting-edge filtration technologies that adhere to the highest industry standards.



"At Atmus, our focus has always been towards advancing technological frontiers and cultivating a culture of innovation and our new Global Capability Center in India allows us to take the next steps in delivering high-performing, proven solutions to our customers," said Greg Hoverson, Chief Technical Officer at Atmus.

Situated strategically in heart of Pune, the Global Capability Center will employ

filtration systems. Building on the over 65 years of over 100 skilled professionals and is spread across 16,000 square feet, catering to various markets, such as truck, bus, construction, mining and power generation across the globe. This new facility will support many of Atmus's global business functions including engineering, purchasing, product management, IT, supply chain, quality, HR, finance and advanced analytics.

#### Tata Power and Indian Oil Corporation Collaborate to Deploy 500+ Fast and Ultra-Fast EV Charging Points across India

Power EV Charging Solutions Limited (TPEVCSL), a Tata Power Group Company and one of the leading EV Charging solutions providers, and Indian Oil Corporation Limited (IOCL) have signed a Memorandum of Understanding (MoU) to roll out fast and ultra-fast electric vehicle (EV) charging points across India. The collaboration will see Tata Power install 500+ EV charging

points across multiple IOCL retail outlets.

These EV charging points will be installed in major cities like Mumbai, Delhi, Kolkata, Bengaluru, Ahmedabad, Pune, and Kochi, as well as across major highways such as the Mumbai-Pune Expressway, Salem-Kochi Highway, Guntur-Chennai Highway and the Golden Quadrilateral. This strategic collaboration focusses on building a reliable and expansive intercity charging



network which will help alleviate range anxiety for EV owners travelling between cities.

Mr. Virendra Goval, Head -Business Development-EV Charging, Tata Power said "Our partnership with IOCL is a strategic move towards establishing robust charging network in the country. Leveraging IOCL's extensive presence, Tata Power will set up

fast and superfast charging points in multiple regions, contributing to accessibility and inclusivity for a sustainable electric mobility future."

Tata Power is committed to enhancing the EV user experience through tech integration and innovative solutions. EV users will have a dual advantage of a seamless EV charging experience through the 'Tata Power EZ Charge' app and 'IndianOil e-Charge'- .

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- → APFC PANEL
- → HYBRID APFC PANEL
- → DISTRIBUTION BOARD
- → BUS DUCT, RISING MAIN
- → FEEDER PILLAR / JUNCTION BOX
- → PLC PANEL / RELAY PANEL
- → DG SYNCHRONIZING PANE

#### SMA POWER CONTROL

possesses of acomplete and efficient infrastructure that meets all the requirements to provide quality that matches the international standards. The company has a work space of 1200sq.mt. with the latest working station and all the required amenities for its staff.



## Essar selects technology partner for Essar Oil UK's Industrial Carbon Capture facility paving way to reduce CO2 emissions by 1 million tons

Essar Oil UK announces the selection of a second key licensor technology provider, Topsoe, for the planned EET Industrial Carbon Capture ("ICC") facility based at Stanlow, UK. Topsoe will provide its sustainable fluegas treatment technology SNOXTM.

This is a pivotal step towards Essar Oil UK's \$1.2 billion investment in decarbonising the refinery by reducing ~2 million tons of CO2 (95%) emissions, making it the world's first low carbon refinery and a producer of low carbon fuels.

Deepak Maheshwari, CEO of Essar Oil UK, said, "We are ready to move into the next phase of Essar Oil UK's decarbonisation strategy. With an investment of \$1.2 billion, Essar Oil UK is positioned to be the world's first low carbon refinery. The industrial carbon capture facility, combined with our upcoming hydrogen fuel switching project, will reduce the refinery's CO2 emissions by 95%. Topsoe is a valuable partner in this endeavour. With Topsoe SNOX" technology we are getting a well proven and highly sustainable flue-gas treatment."

Essar's overall decarbonisation strategy plans to reduce

refinery emissions with two state-of-the-art projects:

- Industrial carbon capture (ICC) announced at Stanlow in November 2022, aims to be operational by 2028. The project will result in an annual emissions reduction of ~1 million tons of CO2
- Hydrogen fuel switching from natural gas to hydrogen as fuel source, resulting in an annual emissions reduction of ~1 million tons of CO2

This puts Essar Oil UK at the forefront of the UK's energy transition by producing the UK's first low carbon fuels, securing the refinery's vital ongoing role in UK energy security and resilience.

With the selection of Topsoe and Mitsubishi Heavy Industries, Essar Oil UK has identified most of its technology partners and is ready to progress to the frontend engineering design ("FEED") phase of the project. Development of the basic engineering design packages (BEDP) for the licensed technologies is already ongoing. Elena Scaltritti, CCO at Topsoe, said, "We are thrilled to have been chosen as technology licensor for Essar Oil UK."

# HONEYWELL TO HELP DECARBONIZATION OF U.S. VIRGIN ISLANDS THROUGH BATTERY ENERGY STORAGE Honeywell

Honeywell today announced it will provide VIElectron, a CB Loranger Company, its first installment of battery energy storage solutions (BESS) to six solar parks strategically positioned across the U.S. Virgin Islands. When completed, the solar array and BESS will boost the islands' decarburization efforts by fulfilling 30% of its energy consumption through renewable sources.

"Honeywell is committed to helping our customers achieve their energy targets and decarburization goals," said Pramesh Maheshwari, President, Honeywell Process Solutions. "This renewable project is an example of how sustainable technologies are helping reduce the cost of energy for the people of the U.S. Virgin Islands and around the world."

The solution will enable VIElectron to install solar panels across St. Thomas, St. Croix and St. John .

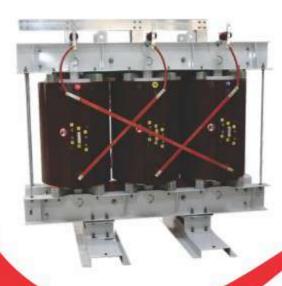
# Tata Power achieves a significant milestone of 60,000+ home EV chargers, powering the future of sustainable mobility across India

: As the EV (electric vehicle) momentum gathers pace, Tata Power, one of India's largest EV Charging solutions provider, continues to drive the future of sustainable mobility by adding 11,529 new EV Home Chargers in the second quarter of FY24. This brings the total count of Tata Power EV Home Chargers to remarkable 62,000 across India.

The widespread availability of Tata Power's home charging solutions contributes significantly to enhancing the convenience and accessibility of EV charging for Tata Power EZ Charge's growing customer base.



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#### JANITZA



Nowadays, energy management is not only relevant for the environment and for society worldwide, but is also a critical competitive factor. Only those closely monitoring their energy consumption can reduce costs and increase efficiency.

Janitza Electronics GmbH, a German company based in the Hessian town of Lahnau, which followed in 1986. The product range offered by Janitza provides complete system solutions for modern energy data management (e.g. ISO 50001), power quality and residual current monitoring. Janitza develops and manufactures a complete range of products (hardware and software) from Lahnau, Germany.

Energy efficiency, sustainability, high availability, and safety requirements are increasing regardless of the industry. To meet all these requirements, necessitates maintaining a holistic perspective on energy. Janitza goes far beyond pure energy measurement and combines energy management, power quality and residual current monitoring into a holistic measurement solution in a single-system environment. A central aspect of Janitza's products is to make energy flows and consumption transparent. This transparency forms the basis for the analysis and optimisation of energy usage.

Alongside measurement devices and software, Janitza offers the associated services – a complete solution that guarantees efficient energy management. This includes Energy measurement technology, class A network quality analysers compliant with standard EN 50160, energy management systems, digital integrated measurement devices, and power quality analysers.

Janitza implements projects worldwide in energy

management, power quality and residual current monitoring. Being directly accessible to our customers in markets is important to us. We have our own technical sales offices in six regions and, together with our strong partner network, we are available to customers worldwide, including India. We also support by customers training their employees helping

to analyse and evaluate measurement data. We cover all major market segments, such as industry, building services engineering, energy suppliers and data centres, and are constantly finding new solutions.

Our 3-in-1 concept relies on the building blocks of energy management, power quality and residual current monitoring. We offer the appropriate measurement technology, support you in the analysis and create individual solutions for protecting your systems and equipment.

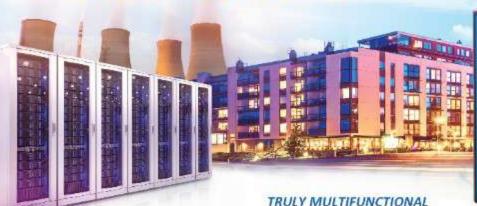
"In a time when the impacts of climate change are becoming increasingly evident, companies must actively contribute to reducing the carbon footprint, the global problem. Determining current emissions is an important step, especially when considering emissions from energy sources such as natural gas and fuels at the site. Janitza's energy measurement devices offer an excellent solution for precisely measuring these energy flows. They not only ensure accurate measurements but also comply with all applicable standards.

The GridVis\* power grid monitoring software enables quick and easy energy consumption tracking and supports determining the carbon footprint. Energy consumption can be compared and evaluated across periods, locations, and consumption media, allowing for the identification of potential savings and weaknesses through data visualisation.

Janitza's energy measurement technology solutions are always up to date and support compliance with standards such as EN 50001 or EN 50160, as well as reduction of carbon emissions.

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#### NTPC Records Remarkable Growth in Coal Despatch and Production

NTPC Ltd., India's leading integrated power utility, has reported a substantial growth of 90% in coal despatch from its captive mines till Nov-end in FY 2023-24, in comparison to the corresponding period of the previous year and achieved an impressive coal dispatch of 23.12 Million Metric Tonnes (MMT) till 30th Nov in FY24, compared to 12.17 MMT in FY23.

In addition, the company has also achieved a production of 22.08 MMT till 30th Nov in FY24, marking a significant 80% increase over the previous year for the same period. This outstanding performance reflects NTPC's relentless commitment to enhancing coal production from its captive mines and ensuring efficient supply to meet the nation's energy needs.

## NTPC Electron Quiz 2023 Grand Finale Unveils Thrilling Battle of Minds



The eagerly awaited NTPC Electron Quiz 2023 culminated in a spectacular finale held today at the Power Management Institute (PMI), NTPC in Noida

The finale brought together the brightest minds from six prestigious management and engineering institutions: Osmania University, IIM Bodh Gaya, IIM Ahmedabad, IIM Indore, FMS Delhi and IIM Kolkata.

Saneya Rafeeque and Saniya Mahreen from Osmania University emerged victorious at the intense competition and were awarded prize money of Rs 50,000. The second prize of Rs. 30,000 went to Piyush Kedla and Arnab Mondal from IIM Kolkata, while Sushant Adlakhar and Shashank Tyagu from Faculty of Management Studies (FMS) Delhi University, secured the third prize of Rs 20,000. In addition, three consolation prizes of Rs 8,000 were awarded.

## Atlas Copco unveils world's first battery-driven portable screw compressor

Unveiling its all-new battery driven portable screw air compressor, Atlas Copco's 'B-Air' marks a defining moment in the global industrial marketplace's transformation towards a low carbon future.

In the latest sign of its progressive shift to more sustainable products, Atlas Copco has expanded its portable electric product portfolio to include an all-new battery driven portable screw air compressor. The B-Air 185-12 is the first of its kind within the global industrial marketplace and represents a major milestone in Atlas Copco's roadmap towards a sustainable future.

By introducing the first battery portable screw compressor, we want to play our part in enabling a sustainable transformation and help build a better tomorrow – for society and the planet alike.

The B-Air 185-12 features 5-12 bar of pressure, a stable flow rate of 5.4-3.7 m3/min and 55-kWh battery storage capacity. With power delivered from its onboard power

pack, in operation a fully charged unit is independent of the need for fuel or a local power source to plug into and has the capability to perform for up to a full typical work shift. In turn, it provides both portability and productivity for those working on sites where regular access to electricity is not practical.

Making the switch from an internal combustion engine (ICE) to electric motor brings with it a host of benefits, including less downtime and maintenance requirements. Due to having far fewer moving (and therefore wearing) parts compared to a diesel-powered unit, the electric B-Air 185-12 only needs to be serviced every 2,000 hours, as opposed to 500 hours for a typical ICE powered unit. The machine's state-of-the-art Variable Speed Drive (VSD) and permanent magnet motor drives down the total cost of ownership, automatically adjusting the motor speed to match air demand in real-time and increasing energy efficiency by up to 70%.

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## Suzlon partners with REC Limited for non-fund based working capital lines

Suzlon Group, India's largest renewable energy solutions provider, today announced the execution of definitive documents for securing working capital facilities with REC Limited. Suzlon will utilise this facility for meeting



working capital requirements for the execution of its current order book and future order pipeline.

This will enable the Company to ensure faster rampup of its operations and improve the utilisation of its installed capacities. Challenges in securing working capital for the last few years were a major constraint in increasing volumes and orderbook expansion. The current facility sanctioned by REC is a testament of the Company's improved financial strength.

Himanshu Mody, Chief Financial Officer, Suzlon

Group said, "We are delighted to partner again with REC Limited, one of India's finest financial institutions with a deep understanding of power and renewable energy sectors. REC has a clear vision to support

India's ambitious renewable energy targets and has supported the Company's initiatives in the past through debt refinancing, helping us become debt free. The current facility is non-fund based, which will primarily be off-balance sheet keeping us debt-free while significantly improving commercial terms with our customer and suppliers. This facility is rolling in nature and will allow the Company to execute current and future orders from its marquee customers."

# Toshiba Transmission & Distribution (India) Private Limited Receives Prestigious Star Performer Award from EEPC India

Toshiba Transmission & Distribution (India) Private Limited (hereinafter TTDI), a leader in India's Transmission & Distribution equipment market, has been honoured with the Star Performer Award for the year 2019-20 by the Engineering Export Promotion Council of India (hereinafter EEPC India).

TTDI has won the National Award for Export Excellence in the category of Electric Motors, Generators, and Transformers and parts – Large Enterprises. Mr. Hiroshi Furuta, Chairman and Managing Director, TTDI received the award at an award function held in New Delhi on November 21.

# Transworld Group Marks Significant Participation at Maritime SheEO Conference in Mumbai

Transworld Group, a distinguished name in the shipping and logistics industry, proudly announces its active involvement in the recently concluded Maritime SheEO Conference held in Mumbai on November 21, 2023. This prestigious event, renowned for championing diversity and innovation in the maritime sector, brought together esteemed industry leaders and experts under one roof.

The conference served as a platform highlighting critical themes such as sustainable shipping practices, gender diversity, and global best practices. Captain Milind K Patankar, Head Ship Owning Division Transworld Group and MD Shreyas Shipping and Logistics Limited, alongside a panel of distinguished industry figures including Daljeet Singh, Cailey Murphy, HE Yasiel Burillo, and Pla Meling.



























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## CLAGE, Germany's trusted brand, introduces the next-gen water heaters in India

Beat the winter blues this season with Clage, Germany's top brand, bringing its premium range of water heaters to the Indian market. Blutherm, India's leading curator of premium energy-efficient, sustainable products, has brought these premium water heaters through an exclusive partnership with Clage to cater to the Indian market. Clage's electronically controlled instantaneous tankless water heaters are 100% Made in Germany, energy-efficient, best in design, and of high-quality standards.

Clage's latest range of water heaters have different models that suit various sizes and pockets. As a specialist in water heaters, Clage offers a wide range of products with many individual solutions. Constantly looking for new solutions and innovations in all areas of water heating, Clage's products are energy efficient, characterised by clever technology, small & compact designs, and robust constructions.

#### Sterling and Wilson Renewable Energy raises Rs. 1,500 crore through Qualified Institutions Placement (QIP) route

Sterling and Wilson Renewable Energy Limited (SWRE) (BSE Scrip Code: 542760; NSE Symbol: SWSOLAR) has, on Thursday, December 14th, 2023, announced the completion of a fundraise of Rs. 1,500 crore through Qualified Institutions placement (QIP) route.

The Securities Issuance Committee of Board of Directors at its meeting held on December 14th, 2023 approved the issue and allotment of 4,32,27,665 equity shares of face value Re. 1/- each to eligible qualified institutional buyers at the issue price of Rs. 347/- per equity share (including the premium of

Rs. 346/- per equity share).

The Rs. 1,500 crore QIP witnessed a strong response from both domestic mutual funds and marquee global FIIs.

#### Essar signs three MoUs with Gujarat Govt totalling Rs 55,000 Crore in Energy Transition, Power, and Ports Sectors

Essar signed three Memorandums of Understanding (MOUs) with the Government of Gujarat for a total investement of Rs 55,000 crore ahead of the Vibrant Gujarat Global Summit 2024.

Essar is in a renewed phase of making stategic investements in the field of Energy Transition, Power and Port sectors in the state. This initiative aims to create over 10,000 job opportunities.

Over the last four decades, Essar has invested more than Rs 1 lakh crore in the Energy, Metals & Mining and Infrastructure sectors in Gujarat.

Gujarat has played a crucial role in Essar's growth story. The company's investments in core industrial projects have enhanced the state's industrial landscape, serving as a case-study for the state's potential as an investment destination.

#### NTPC Ltd. pays First Interim Dividend of Rs. 2,182 crore for FY 2023-24

NTPC Ltd. paid the First Interim dividend of Rs. 2,182 crore on 23rd November 2023 for the financial year 2023-24, being 22.50% of the paid-up equity share capital of the Company.

This is the 31st consecutive year that NTPC Ltd. has paid dividend, underscoring its dedication to providing consistent returns to its investors.

As a key player in the Indian energy sector, NTPC Ltd. continues to drive excellence, sustainable growth, and shareholder satisfaction through its strategic initiatives and robust financial performance.



7th Edition

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#### **Exhibitors Profile**

- Cables, Conductors
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- Capacitors
- Conductors & Accessories Testing
- Design & Consultancy
- Electrical / Electronics Components & Accessories
- Electro Mechanical
- Energy Meters
- · Engineering Project
- Electrical Vehicle Manufacturers

- Industrial Control & Automation
   Systems
- Wires and Cables
- Lighting Accessories
- Micro Electronics
- Motors & Generators
- Optical Fibers
- Opto-Electronics
- Pollution Control Equipment
- Instruments Sensing, Measuring, Indicating
- Insulators & Insulating Materials

- IT Solution
- Lighting Industrial, Decorative, Flood, Home and Retail
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#### Tata Power Strengthens Commitment to Energy Efficiency on National Energy Conservation Day; Hosts Annual Flagship Event 'Urja Mela,'with students representing 15 states

Tata Power's Annual Flagship Event Urja Mela attracted participation from 700 students and teachers across 15 states of India where the company is present. The event organized at Tata Power's learning and development centre on the occasion of National Energy Conservation Day, at Rohini, New Delhi, aimed to groom young leaders as catalysts for change in community climate initiatives in line with the company's 'Sustainable is Attainable' movement. With Climate conversation taking centre-stage at COP28, the event aims to create climate awareness among young champions. Urja Mela forms an integral part of Club Enerji, Tata Power's initiative to cultivate young clean energy ambassadors by collaborating with schools nationwide.

#### Sterling and Wilson's Data Centre project for Raxio in Angola begins construction.

Sterling and Wilson Private Limited (Sterling and Wilson/ SWPL), a Shapoorji Pallonji Group Company, and one of India's leading engineering, procurement, and construction (EPC) companies, announced that it has started construction of its second data centre for Raxio. The Company is Africa's premier platform of carrier neutral, colocation, Tier-III data centres, providing industry-standard, carrier-grade facilities and services that serve as the foundation of Africa's digital economies.

The facility will be the first independent and neutral Tier-III certified data centre.

# ArcVera's Unified WRF model is a "significant advancement in meteorological and oceanographic modelling", says Dutch offshore wind report.

The Dutch government enterprise agency, RVO, has designated the IJmuiden Ver Wind Zone (IJVWFZ) as an area for offshore wind development. The Project site is located 62 km from the west mainland coast of the Netherlands. A consortium led by DHI, including OWC, ArcVera Renewables, ProPlanEn, and others, conducted an in-depth study to assess the metocean conditions and wind resources at the IJVWFZ. This initiative by the Dutch government aimed to provide project stakeholders with valuable information to inform the future development of offshore wind in the zone. Unified-WRF Model Development

The development of a Unified-WRF dataset was needed to streamline and harmonize wind resource assessment (an estimate of the fuel for the project) and metocean analysis (an estimate of the weather and ocean conditions that will affect the safe and efficient design and operation of the project). Historically, these two processes have been conducted separately, using distinct methodologies. Integrating them requires a complex series number of alignment checks. This is challenging due to the inherent differences between the two processes.

"Balancing these distinct requirements to create a unified WRF dataset posed a formidable technical challenge, necessitating innovative and practical solutions to accommodate the divergent needs of wind resource assessment and metocean analysis while maintaining accuracy and consistency throughout," notes the report. ArcVera developed a bespoke mesoscale dataset utilizing its proprietary Weather Research and Forecasting model called "Unified-WRF". The model was driven by initial and boundary conditions derived from the ERA5 reanalysis, enabling the assessment of wind energy potential across the entire development zone.





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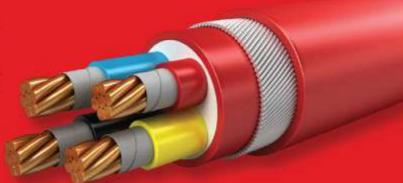
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- Smart Metering
- Smart Transportation
- Smart Cities



#### Gurdeep Singh Juneja Managing Director, Webdyn India Pvt. Ltd.

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- Smart Building & Home
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- Environmental Sensors (Air Quality/Odour/Dust Monitoring etc.)
- Industrial Energy Monitoring Solutions (IEMS)





WebdynEasy Tunnel and WebdynEasy Router - Our recently developed WebdynEasy Router is an innovative and powerful all-in-one solution. Thanks to its set of interfaces (RS232, RS485, dual SIM, digital I/O, gigabit Ethernet, GPS and WiFi) and the embedded new TITAN v6 firmware (Modbus, MQTT, IPSec, logger,...) provides a full bundle of functionalities which will fulfill all your IoT applications needs with no need for further hardware, shortening the time-to-market and providing a very cost-effective solution.

As a new feature, EasyRouter allows the user to develop and run their own applications scripts (based on javascript) and giving to the end IoT application a custom style. It includes a big number of examples with source code.



Website: www.webdyn.com Email: gurdeep.juneja@webdyn.com



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A combination of reputed European brand partner METREL d.o.o., industry experience and customer satisfaction has enabled us to list our ever-expanding services which includes direct to customer sales, calibration, and repair and service of measuring and testing equipment.

The company has a vision to serve the global market through latest technological solutions and has the mission to accomplish customer satisfaction through innovative solutions.

We are excited to inform you that Metrel d.o.o have launched a new product, MI 3281 WR ( Winding Resistance )Analyser.

A portable transformer tester with a selectable test current of up to 20 A for testing even the biggest power transformers. WR Analyser (MI 3281) is a test instrument with excellent IP protection: IP65 (case closed), IP40 (case open). Standards like functionality C57.12.70, Electromagnetic compatibility EN 61326-1 Safety EN 61010 - 1 EN 61010 - 2 - 030 EN 61010 -031.

#### Functions:

- Winding resistance measurement of single and three phase transformer.
- Winding resistance measurement of single and three phase transformer with manual or automatic tap changer test,
- Demagnetization of single and three phase transformer, Auto Sequence\*, Visual Test, Memory

- PC software that is supplied as a part of standard
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- Built-in help screens for referencing on site. Auto test sequences.
- BT communication with PC, Android tablets and smart phones via built-in BT.
- EMERGENCY STOP switch in case of any emergency situation.
- Automatic or manual tap changer test
- Winding resistances conversion to a desired reference temperature.
- Selectable test current 10mA, 100mA, 1A, 5A, 10A, 15A, 20 A.
- Automatic discharge after finished measurement.
- PC SW METREL ES Manager for creation of test structures and uploading, downloading of test results, auto test editor and report creation.
- 4.3" (10.9 cm) colour LCD display with touch screen offers easy-to-read results and all associated parameters.



MODEL MI 3281 WR ( WINDING RESISTANCE ANALYSER)



#### **NEW PRODUCT:**

MI 3281 Winding Resistance Analyser





Test and Measurement industry in India was experiencing growth driven by various factors such as technological advancements, increased demand for quality products, and the expansion of industries like telecommunications, electronics, automotive, and healthcare. However, it's important to note that the information might be outdated, and I recommend checking the latest sources for the most recent updates.

Here are some factors that typically contribute to the growth of the test and measurement industry:

**Technological Advancements:** With the rapid pace of technological advancements, industries require more sophisticated testing and measurement equipment to ensure the quality and reliability of their products. This drives the demand for advanced testing solutions.

**Increased Quality Standards:** Industries are becoming increasingly focused on maintaining high-quality standards. This is especially true in sectors such as electronics, telecommunications, and automotive, where precision and reliability are critical.

Expansion of Key Industries: The growth of industries like telecommunications, electronics, healthcare, and automotive often leads to a corresponding increase in demand for testing and



measurement equipment. As these industries expand, so does the need for tools to ensure the quality and performance of their products.

**Regulatory Compliance:** Regulatory requirements and standards play a crucial role in driving the demand for testing and measurement equipment. Companies must comply with industry-specific standards, and this necessitates the use of advanced testing tools and technologies.

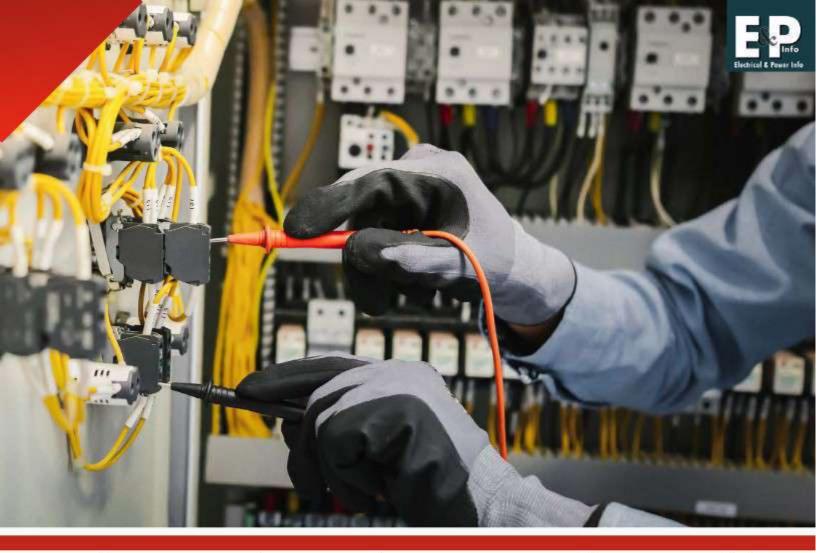
**Research and Development:** Ongoing research and development activities contribute to the demand for testing equipment. As industries invest in innovation, they require testing solutions to validate and verify new technologies and products.

As per MARKETSANDMARKETS research, The test and measurement equipment market is expected to reach USD 42.9 billion by 2028 from USD 34.3 billion in 2023, at a CAGR of 4.6% during the 2023–2028 period. Various types of test



of electronic and mechanical systems. These the quality, safety, and productivity test (DUTs). Their purpose is to assess the equipment (GPTE) (including oscilloscopes,

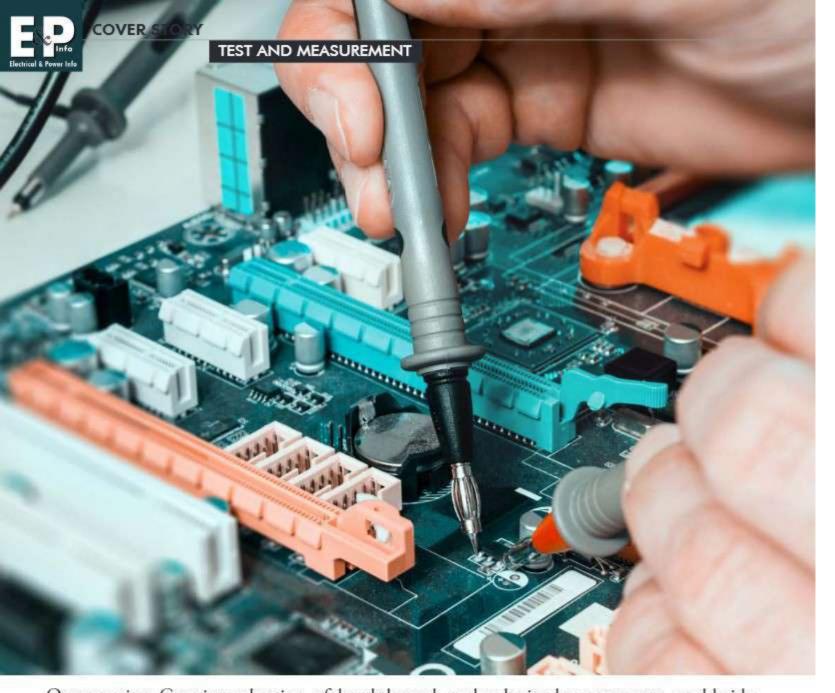
and measurement equipment are utilized to efficacy of operational processes and aid analyze, validate, and verify measurements manufacturers in monitoring and enhancing instruments generate signals and capture of their products. The two main categories responses from electronic devices under of such equipment are general-purpose test



arbitrary waveform signal generators, multimeters, generators, digital logic analyzers, power meters, power supplies, and modular instruments) and mechanical test equipment (MTE) (encompassing nondestructive test equipment, machine vision inspection systems, and machine condition systems). In monitoring terms market growth, the healthcare and IT & telecommunications sectors are projected to make the most significant contributions in the vertical segment. The test and measurement equipment market is divided into products and services, creating a fragmented overall market.

Technological advancements boost the demand for test and measurement equipment in end-user industries. This ratio is increasing because the adoption of test and measurement

equipment on rental basis is more profitable to the customers whereas it is a restraint to the producing firms. Mostly companies with less capital go for rented test and measurement equipment. The unavailability of our own equipment, facing challenges towards repair, calibration, and unexpected peak in testing workload are the main reasons for the customers renting the equipment. However, new test and measurement equipment are typically expensive. To reduce their operational costs, several organizations across industries, including aerospace & defense, communications, automotive, and electronics, often take testing and measurement equipment on a rental basis, which is a cost-saving approach rather than buying new testing and measurement equipment.



Opportunity: Growing adoption of breakthrough technologies by consumers worldwide Technological advancements are rapidly reshaping various industries, including healthcare, at an unprecedented pace. Notably, significant progress is witnessed in the healthcare sector. The utilization of wearable devices like smartwatches enables the collection of data, enabling the prediction and proactive treatment of health conditions in individuals, even before symptoms manifest. This approach, known as precision medicine, empowers physicians to prescribe medications and administer treatments with greater accuracy and specificity to their patients. This has been possible because of the innovations in the fields of genomics and AI; such technological advances help understand how diverse people's bodies are healthier or inferior to fight against specific ailments, as well as how they are likely to react to different types of medications or treatments. Currently technological environment antennas play a wide role. The reliability and quality of antenna performance is essential for innovative embedding antennas.







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# NBCC to implement the largest grain storage project in the world in the cooperative sector

NBCC inked a framework Memorandum of Understanding (MoU) with National Cooperative Development Corporation (NCDC) and National Bank for Agriculture and Rural Development (NABARD) for construction of world's largest grain storage plan in cooperative sector. NCDC has associated NBCC to render project management consultancy services on EPC Model. NBCC shall initially construct 1469 nos of grain storage units across various states of India with an approximate value of Rs 1500 crore. These units shall be constructed using innovative building technologies.

Expressing his happiness on this development, Shri K.P. Mahadevaswamy, CMD, NBCC said, "NBCC is delighted to be a part of creation and strengthening the agri-infrastructure in the country. I believe such initiatives will be instrumental in helping the farmers of the country in getting access to proper storage facilities in the areas."

# Vikram Solar signs 152 MW module supply contract with NTPC

Vikram Solar, one of India's Vikramsolar module CREATING CLIMATE FOR CHANGE

manufacturers has announced that the signing of a ground breaking order win with the National Thermal Power Corporation (NTPC) to supply 152 MW of high-efficiency Crystalline Bifacial Solar PV Modules at Nokh Rajasthan.

This strategic collaboration marks a significant milestone in advancing India's solar mission. The contract, signed falls under the Domestic Content Requirement (DCR) and underscores Vikram Solar's unwavering commitment to sustainable energy initiatives. The modules will power NTPC's ambitious ground-mounted solar project at Nokh Solar Park in Jaisalmer, Rajasthan.

#### Waaree Energies, India's Largest Solar Manufacturer To Build 3-Gigawatt Module Manufacturing Facility in Texas and Signed a Landmark Multi-Year Offtake Agreement

Waaree Energies ("Waaree"), India's largest solar PV module manufacturer and major supplier to the U.S., announced today it will establish its first U.S. manufacturing facility in the Houston areas. The facility, located in the town of Brookshire, will have the initial capacity to manufacture 3 gigawatts (GW) of solar modules annually by the end of 2024. Waaree plans to invest up to \$ 1 billion over the next four years to scale its annual module manufacturing production up to 5 GW by 2027, making it one of the largest solar module manufacturing facilities in the U.S. Waaree will also add an integrated U.S.-made solar cell facility that is expected to be operational by 2025. In total, Waaree's new facility is expected to create over 1,500 total jobs in the US when at full capacity.

Waaree already has a major presence in the U.S. solar market. Till date Waaree has supplied over 4 GW of

modules from its current Indian facility to U.S. customers. Waaree's ambitious U.S. expansion benefits from the long-term supply agreement with SB Energy, a leading climate infrastructure and technology platform with over 2 GW of solar in operations, 1 GW in construction, and another 15 GW+ of solar and storage in development across the U.S. Waaree will supply multi-GWs of solar modules to SB Energy over the next 5 years following the commissioning of the facility which is expected to be set-up in 2024. The deal further enhances SB Energy's leadership in the domestic supply chain and ensures availability of modules for a growing pipeline of projects. "We are proud of this significant commitment by Waaree to U.S. domestic solar manufacturing," said Waaree Chairman and Managing Director Hitesh Doshi. "In partnership with a company of SB Energy's mission and stature, Waaree is fostering a solar manufacturing ecosystem in Texas.



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Anant Krishna Waghchoure National Segment Manager – Grid Motwane Manufacturing Pvt. Ltd.

# As the New Year will begin, so what are your plans for this year? What are the initiatives we can see in 2024?

We have chosen to and are on the path to partner our esteemed customers across various verticals and segments of the electrical industry with our world class solutions which have been designed with the best in class safety , accuracy and performance backed by our pre sales and post-sales support to our customers thus ensuring that their business keep going on flawlessly. We have upgraded our solutions according to the needs of the Electrical Utility and the customers have valued these as the solutions solve their dire problems at site with minimum time and with ease. We have launched our Cable Fault location solutions to tackle to the daily but time pressing issues of finding faults in the Power Transmission, Distribution and other exhaustive cable consuming industries. Our Transformer testing solution have been well appreciated and accepted by the customer across the industry so that the fitness of the transformer can be measured and appropriate steps can be taken to solve the problems and provide a longer serving life of the transformers as an asset.

Our solutions are designed and equipped with the Cloud storage so that the readings at site are readily uploaded to the Cloud and the analysis of the said data (spot as well as trend) is easily accessible to the users and the key decision makers to take the right corrective decisions and strategies in the lowest possible timelines thus saving a significant amount of time, money and resources in solving the problems otherwise. Thus we find pride being a truly 'Make in India' organization and serving our Nation and the Globe with our solutions.

# Can you provide information on the performance characteristics of your Digital Clamp Meters products?

Our Digital multimeters and clamp meters have been serving the customer since more than multiple decades. With this legacy we have strengthened our product in our basket being offered as solutions to our esteemed customer where we have various critical applications like 'Conductor Resistance Measurement', 'Insulation Diagnostics', 'Cable Fault location', 'Transformer testing and diagnostics' upto a substation testing package as per the requirements of the customer.

# What do you see as the upcoming trends and innovations in the Clamp-on-Meters sector?

The clamp-on meters find various applications starting from leakage current measurement to high current value measurements. The product demand has now become like a commodity and a mandatory requirement for electrical professionals as one of the key product for their daily measurements. We have CLAMP-ON earth tester series which enable the users to use the clamp to measure the earth resistance of the earth pits which are connected in parallel and gives an opportunity to get the individual earth pit values without disconnecting the earth pit from the system. This gives a leverage to get the faster readings of the earth resistance and identify the faulty earth pit for the electrical professional to address and work on to rectify and make it fit again. Apart from the same our cable fault location solutions help the customer for detection of buried cable, identification of a specific cable from a bunch of cable , finding faults and also checking the fitness of the cable using the latest VLF technology.

# What are the challenges that the Indian market pose and your strategy to tide over them?

Indian market has emerged as a skilled (Technical know how) with expert users who are aware of what solution they would require to solve the problem. There is a strong National sentiment where the customer has been preferring Made In India products which automatically has given a boost for the Indian manufacturers with quality and proactive service support. We have seen a rise in the bids of cheap products bought by many parties in India buying from countries like china and supplying the equipment's to the customers and quoting in bids/tender. The quality of cheaper equipment's is questionable and the safety aspect of the same is doubtful which could pose threats to the life of the final user of such equipment's. We have taken initiative to make the users and customers aware about the pros and cons of such bidders for their requirements as we care for life and the user and resources of our Nation.

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In the dynamic world of electrical engineering, where precision and reliability are paramount, Motwane Manufacturing Pvt. Ltd stands as a milestone in providing state-of-the-art testing solutions that cater to a diverse range of applications. With a legacy spanning several decades, Motwane continues to be at the forefront of innovation, consistently pushing boundaries to meet the evolving needs of the industry.

### Digital Insulation Testers: A Shield Against Electrical Breakdowns

Motwane's Digital Insulation Testers have become indispensable tools for ensuring the integrity of electrical systems. These testers play a pivotal role in identifying potential weaknesses in insulation, safeguarding equipment and preventing costly downtime. Whether you are testing motors, generators, or distribution lines, our Insulation Testers provide accurate and reliable results, offering peace of mind to engineers and maintenance personnel.

## Transformer Testing Devices: Revealing the Secrets of Transformers

Transformers are the backbone of power distribution systems, and Motwane's Transformer Testing Devices are designed to ensure their optimal performance.

From assessing insulation resistance to conducting turns ratio tests, our devices empower engineers to diagnose potential issues before they escalate. This proactive approach not only enhances operational efficiency but also extends the lifespan of critical assets.

### Contact Resistance Meters and Low Resistance Meters: Precision at Every Connection

Ensuring low resistance and optimal contact points is crucial in high-current applications. Motwane's Contact Resistance Meters and Low Resistance Meters offer unparalleled precision in measuring the resistance of connections, ensuring efficiency and safety in power distribution networks. These meters are indispensable in industries where the reliability of connections is non-negotiable.

## High Voltage Detectors: Safeguarding Lives and Equipment

Motwane's High Voltage Detectors are designed to provide a safe and reliable method of detecting the presence of high voltage without physical contact. These devices play a crucial role in protecting personnel from electrical hazards during maintenance and troubleshooting activities. With user-friendly interfaces and robust construction, our High Voltage Detectors are trusted by professionals worldwide.

### Cable Fault Locator Van: Navigating the Path to Seamless Connectivity

In an era where uninterrupted connectivity is crucial, Motwane's Cable Fault Locator Van takes center stage. This mobile solution combines advanced technology with mobility, enabling engineers to swiftly locate and rectify cable faults. This translates to reduced downtime and enhanced reliability in power distribution networks.

### Introducing Transformer Test Bench: Elevating Transformer Testing Standards

Motwane is proud to announce the launch of our latest innovation – the Transformer Test Bench. This cutting-edge solution is designed to streamline and automate transformer testing processes, ensuring accuracy and efficiency. With features such as real-time data monitoring and advanced diagnostics, the Transformer Test Bench represents a leap forward in transformer testing technology.

Motwane Manufacturing Pvt. Ltd remains committed to excellence, continuously evolving to meet the demands of an ever-changing industry. Our comprehensive range of testing solutions, coupled with the introduction of innovative products like the Transformer Test Bench, reinforces our position as a pioneer in the field of electrical testing.

As we look to the future, Motwane will continue to innovate, setting new benchmarks and contributing to the success of our partners in the global electrical engineering community.



### **Motwane Manufacturing Company Private Limited**

## STRATEGICALLY BASED ON **QUALITY, PRECISION & INNOVATION**



- Electrical Test & Measurement Company with 100+ years of Innovation, Reliability and Trust
- Diversified portfolio that includes Test & Measurement equipments, Entrance Access Control, Motwane Digital, Telemetrics, Transformer Oil Testing Lab and Motwane Transformer Testing Division
- Indigenous Research, Design, and Manufacturing with a DSIR Recognized R&D facility
- ISO 9001:2015 and CE certified company
- Exports to 65+ countries including USA, Europe, Africa, GCC & Far East Countries
- Pan India Presence
- Sales, Service and Support

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Safe Solutions

Reliable Performance User Friendly Solutions

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www.motwane.com



## Load No Load Test Bench for Transformers Up to 2.5MVA of Voltage Class 6.6KV / 11KV / 22KV / 33KV / 433V as per IS 1180

Load No-Load Test Bench can conduct comprehensive testing of transformers after manufacturing repairing & reconditioning.

**No load test:** Input voltage to LT side, Measurement of No load current. Measurement of No load or excitation loss & **Load Test:** Rated LT & HT current, Measurement of Impedance voltage, Measurement of Conductor loss, Temperature rise test.



Control & Measurement panel includes Measurement/Protection scheme as well as control sequential operation:

### Measurement scheme:

CT operated Digital Ammeter, PT operated Digital Voltmeter (3 phase measurement). CT & PT operated 3 Phase Wattmeter / External Power Analyser connected to the above test system for Loss measurements.

### Protection scheme:

Zero start interlock, test enclosure area interlock, Over load and short circuit protection. Output current trip protection at different current level depending on the capacity of the Transformer under test. Terminals for connection to ground/Earthing.



# Voltage Varies to read

### Booster (loading) transformer: Test Voltage source of adequate capacity to test Transformers of different Voltage systems i.e. 6. 6kV/433V, 11kV/433V, 22kV/433V, 33kV/433V

### Voltage Regulator:

Varies the output Voltage to reach its desired level



### Compensating Capacitor Bank:

To compensate Reactive Power and to reduce Main Input Current



CT PT unit: Multi ratio wound primary dual core (MEASUREMENT + PROTECTION) Current Transformer and Multi ratio Potential Transformer Unit to enable proper Measurement & Protection scheme



Works: 97 (formerly 117), Mishrapara Road, Rathtala, P.O. Rajpur, Kolkata - 700 149

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### TRANSFORMER TESTING













Load No Load Test Setup with Booster Transformer, Capacitor, CT-PT, Control & Measurement Unit





**5KV AC HV BDV Test Set** 



**Transformer Turns** Ratio Meter



**Transformer Winding** Resistance Meter

### **OUR OTHER PRODUCTS**

# PARTIAL DISCHARGE TEST SETUP # SERIES RESONANCE TYPE AC HV TEST SETUP # HIGH VOLTAGE TEST SET - AC/DC & IMPULSE TEST SETUP # PULSED POWER # SURGE TESTER # SURGE COMPARISON TESTER # STANDARD CT/PT # ISOLATION TRANSFORMER

# AUTOMATED TESTING SOLUTION # SPECIAL TYPE REGULATED POWER SUPPLY FOR DIFFERENT APPLICATIONS

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Works: 97 (formerly 117), Mishrapara Road, Rathtala, P.O. Rajpur, Kolkata - 700 149

Contact No. +919830091012, +919748709153

e-mail: ntplindia@gmail.com / info@ntplindia.com; Website: www.ntplindia.com









### KUSAM ELECTRICAL INDUSTRIES LTD.

### "KUSAM-MECO" VOLTAGE TESTER MODEL- KM 66 / KM 69



KUSAM-MECO has 2 voltage testers in their vast range of Digital Test & Measuring Instruments. The Testers have highest safety 'UL/ETL' approval. Model KM 69 is with display & Model KM 66 is without display. KM-69 displays DC voltage from 0.1 V-1000 V, AC voltage from 0.1 V-1000 V in 8 steps. The sensing is TRMS. It also has AC Detection Shaker & RCD leakage-path. RST (RYB) Phase Sequence rotation and Detection It also has Non contact & Probe contact EF Detection- Auto DCV, ACV & Audible continuity selection. It can check RCD leakage load for 230 V AC / 30 m A RCD Circuit Breakers. It has backlight display & flash light for easy viewing in dark. It is rated for IP 65 protection. It has Low Battery Warning & Auto Power off function. The housing is made from rugged fire retardant casing. Model KM-66 has similar functions but without display.

### "KUSAM-MECO" 1 PHASE & 3 PHASE HARMONICS TRMS POWER CLAMPMETER WITH PC INTERFACE MODEL - KM 2746

'KUSAM-MECO' has added one more Power clampmeter to their vast range of clampmeters, Model KM 2746. It can measure single phase & 3 phase balanced power. It has large LCD display and displays 3 parameters simultaneously. It has 6000 counts. Range selection in automatic. It can measure AC Voltage upto 600V (least count 0.1V); AC Current upto 1000 Amps (least count 0.01A). single phase Active power upto 600KW (least count 0.01 KW). Three phase Active power upto 600KVA. (least count 0.001KVA). Power factor 0.3-1-0.3. Reactive Power upto 600KVAr. (least count 0.001KVAr) Frequency upto 1KHz (0.1 HZ resolution); Harmonics Test upto 20 th Harmonic. It also has P.C. Interface. It also has Data Hold function. It operates on 4×1.5V AA batteries. The weight is approx. 500 gms. It is supplied with Test probe, Software CD; Instruction manual, Battery, Carrying Case.



### KUSAM ELECTRICAL INDUSTRIES LTD.

Shop no.18, 1st Floor, CIDCO Shopping Complex, Plot # 9, Sector-7, Rajiv Gandhi Marg, Sanpada, Navi Mumbai -400705.

TEL.- 022- 27754546, 27750662, 27750292

Email: sales@kusam-meco.co.in; Website: www.kusamelectrical.com





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5,00,000 COUNTS TRMS DIGITAL MULTIMETER WITH PC INTERFACE MODEL - KM 857 / KM 859CF



2000A AC / DC TRMS CLAMPMETER WITH VFD, **EF-DETECTION & PC INTERFACE** MODEL - KM 2777



INSULATION MULTIMETER WITH VFD FUNCTION MODEL - KM 878



**3 PHASE TRMS POWER CLAMPMETER WITH KWHr & TOTAL HARMONICS** MEASUREMENT & PC INTERFACE MODEL - 2709



**60,000 COUNTS** AC & AC+DC TRMS DIGITAL MULTIMETER WITH NON-CONTACT EF-DETECTION MODEL - KM 789



600A AC TRMS DIGITAL CLAMPMETER WITH VFD, **EF DETECTION & AMPTIP FUNCTION** MODEL - KM 072



AC; AC+DC TRMS DIGITAL MULTIMETER WITH PC INTERFACE MODEL - KM 829



1000A AC / DC TRMS CLAMPMETER WITH VFD & EF-DETECTION MODEL - KM 088



TRMS DIGITAL MULTIMETER WITH VFD, EF-DETECTION 3PHASE ROTATION-R & 3PHASE ROTATION-M MODEL - KM 237R



TRUE RMS FORK CLAMPMETER MODEL - KM 039F

### POWER TESTING INSTRUMENTS



CONTACT RESISTANCE METER RANGE: 0.1mΩ~1999mΩ MODEL - KM-8500-100

MICRO OHM METER RANGE: 0.1mΩ ~ 1999.9Ω MODEL - KM-8500-10





AUTOMATIC OIL INSULATION TEST SET MODEL-



HIGH VOLTAGE **BREAKDOWN TESTER** MODEL-KM-HVBT-3 (3kv/20mA) / KM-HVBT-5 (5kv/20mA) / KM-HVBT-10 (10 kv/20mA)





CIRCUIT BREAKER TIMER Upto 9999.9msec MODEL- KM-CBT-01





### Automatic Capacitance and Tan Delta Tester, Model: CTD-12 (12kV)

### Quality / Accuracy / Reliability

This Capacitance and Tan Delta Tester adopts variable frequency power technology, single chip and modernized electrical technology to carry out automatic frequency shift, analog-todigital conversion and data computing. It features strong anti-interference capacity, high test speed, high precision, automatic digitization and easy operation. It adopts high -power switching power supply, which outputs 45Hz and 55Hz pure sine wave and automatically increase the voltage to a maximum value 12KV.

The tester is applicable to the site test of substation and other places with large electromagnetic interference. This method is extensively applied in dielectric loss measurement of transformer, mutual inductor, reactor, bushing, capacitor, arrester and others equipments in power industry.



### Functions and Features:

- 1.The instrument adopts complex number current method to measure capacitance, tan delta and other parameters. The measured result is highly accurate and it is easy to realize automatic measurement.
- 2. The instrument adopts variable frequency technology to eliminate 50Hz/60Hz power frequency interference. So a reliable data will be reachable even under the strong electromagnetic interference.
- 3. Digital backlit LCD display
- 4. The instrument is easy to operate and the measuring process is controlled by microprocessor.
- 5. The instrument is designed to be an integrated model with reference capacitor and HV power supply in it.
- 6. External oil cell to test tan delta of insulating oil (optional)
- 7. .Multi test mode :UST/GST/CVT/GSTg
- 8.Internal automatic memory/printer /RS232 port

- 9. The instrument is equipped with CVT testing function, which can achieve CVT selfexciting testing without external accessories and measure the capacitance and dielectric loss of C1 and C2 by at a time.
- 10.GST measurement adopts ivddy technology to ensure the stability of test data in GST measurement
- 11. The instrument provides low voltage shell function of GST. When the bus of 220kV CVT is grounded, dielectric loss measurement can be conducted for C11 without removing 10 kV GST.
- 12. The instrument has a function of measuring high-voltage dielectric loss. It can carry out dielectric loss test with over 10kV with the help of voltage transformer or series
- 13.Multi protection functions
- 14.PC software can automatically generate test report in Excel format.

### Specifications:

Condition of Use	-10°C~ 50°C		RH<90%	
Power Source	180V~270VAC, 50Hz/60Hzž1%, mains or generator			
Internal HV	HV range:	0.5KV <sup>≈</sup> 12KV		
	Maximum output current:	300mA		
	Rise/drop voltage	Continuous smooth adjustment		
	Test frequency:	45, 50, 55 single frequency, 45/55Hz,49/61HZ*** automatic dual variable frequency,		
		Frequency accuracy: ±0.01Hz		
External HV	In case of UST	maximum te	maximum test current is 5A, and power frequency or variable frequency is 40-70Hz	
	In case of GST	maximum te 70Hz	maximum test current is 10kV/5A, and power frequency or variable frequency is 40- 70Hz	
CVT self-exciting low voltage output	Output voltage 3~50V, output current 3~30A			
Resolution	tgδ: 0.001%, Cx: 0.001pF			
Precision	∆tgδ: ± (1% rdg+0.04%)			
	△C x : ± (1%rdg +1PF)			
Measuring Range	tgő	unlimited, 0	unlimited, 0.01% <tgδ <100%<="" td=""></tgδ>	
	Internal under high voltage	12 KV	3PF ≤Cx≤80000PF	
		0.5 KV	60PF≤Cx ≤ 1.2µF	
	External under high voltage	12 KV	3PF ≤Cx ≤ 1.5µF	
		0.5 KV	60PF≤Cx ≤ 30µF	
	Test current range	10µA~1A	10µA~1A	
Anti-interference:	Variable frequency anti-interference			
Measuring duration	About 40s, depending on measuring method			
Printer	Thermal printer			
Dimension/Net weight	470 (L) *370 (W) *320 (H) mm /26.5KG			

Product Specifications are subject to change without notice Marketed By:





Website www.neutronics.co.in/www.neutronics.in

# NEUTRONICS MANUFACTURING PRIVATE LIMITED

### DIGITAL TRANSFORMER BDV OIL TEST SET

**Fully Automatic Transformer** BDV Oil Test Set



Test Set (Compact)





Model: DMOT-60

Model: DMOT-100



Model: DMAN-60

AUTOMATIC VOLTAGE REGULATING RELAY



H-101









V-101 SQ-01 H-101T

AC/DC HIGH VOLTAGE TESTER







AUTOMATIC CIRCUIT BREAKER TIMER KIT Model: CST-01 Model: CBT-01PC





Model: RNT-5A



Tan Delta Test Set. CTD-12

DIGITAL TAP POSITION INDICATOR

AC/DC Combined

High Voltage Test Set



TX-201

AC/DC High Voltage Divider



TX-202



TX-203



Digital AC High Voltage Test Set



Model: RNT-5



MRD-2011A

SINGLE PHASE RELAY TEST SET





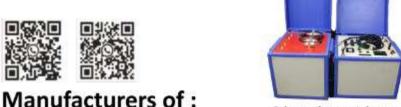
Automatic 3 Phase 6 Current Relay Test Set, NRTS-661

Fully Automatic CT & PT Analyser, CPT-1200









Primary Current Injector, 3000-4V



Digital Micro OHM Meter.



# **Electrical and Electronics**

**Testing and Measuring** 

Instruments and HV Transformers



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### Dedicated To Delivering Superior Products To Our Valued Customers. Eppeltone represents reliability, quality, and innovation.



Eppeltone started with production of Switch Mode Power Supplies (SMPS) for computers & other electronic devices and gradually expanded to a wider manufacturing portfolio, including production of AVR, UPS, MCBs, and transducers.

### Rohit Chowdhary Director, Eppeltone Engineers Pvt. Ltd.

Eppeltone Engineers is amongst top metering companies in India established in 1977. Eppeltone started with production of Switch Mode Power Supplies (SMPS) for computers & other electronic devices and gradually expanded to a wider manufacturing portfolio, including production of AVR, UPS, MCBs, and transducers.

When it comes to metering solutions, choosing us as your trusted provider is the best decision you can make.

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Drawing upon the wisdom of our clients, we persistently develop energy management solutions that are both efficient and sustainable.

We have a 36,000 sq.ft. state-of the-art manufacturing plant in Greater Noida, Uttar Pradesh with cutting edge technology & machinery and a highly skilled and experienced team. We also have a NABL approved R&D Testing laboratory, with a focus on pioneering futuristic and innovative technologies. We have supporting facilities and offices in Noida, Uttar Pradesh and Okhla, New Delhi.

Eppeltone is committed to providing consumers with high-quality, cost-effective metering goods and services. We have a CMMI Level III accreditation and certifications including ISO 9001,140001 & 27001 and 'S' mark safety accreditation from the Government of India.

We have trusted long-term relationships with state utility DISCOMs across India. We are approved by over 30 state government utilities and many central public sector undertakings across various states in India and by many blue-chip private turnkey contractors.

### OUR DIVERSE PRODUCT RANGE

- Polycarbonate Meter Boxes
- Multifunction Three Phase Meter
- Industrial Metering
- Solar Metering
- Single Phase Smart Energy Meter
- Three Phase Smart Energy Meter





Eppeltone Engineers Pvt. Ltd.

## **Eppeltone Engineers**

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### **BATTERY ENERGY STORAGE**



### India Joins First-of-its-Kind Consortium to Advance Deployment of Battery Energy Storage Systems

Today, at the 2023 United Nations Climate Change Conference (COP28), India has joined the Battery Energy Storage Systems (BESS) Consortium, an initiative of The Global Leadership Council (GLC) of the Global Energy Alliance for People and Planet (GEAPP). Through the BESS Consortium, India is among the first-mover countries, as a part of the collaborative effort to secure 5 gigawatts (GW) of BESS commitments by the end of 2024.

India has taken significant steps for integration of BESS which will be crucial in supporting its goal of energy security and access to reliable round-the-clock energy for all. In September this year, the Government of India approved a scheme committing to the development of 4,000 MWh of BESS projects by 2030-31, with a financial support of up to 40% of the capital cost to developers in the form of Viability Gap Funding (VGF). The scheme is expected to bring down the costs of BESS infrastructure projects and incentivise public-private partnerships.

Commenting on the announcement, Saurabh Kumar, Vice President - India, GEAPP said, "The BESS Consortium is an example of GEAPP's firm belief in the power of collaborative actions and partnerships to achieve people-positive energy transition. The expansion of BESS is crucial to bring down the current high cost to resolve the issue of intermittency and lead to accelerated RE integration. It would also help fast-track innovative regulations that will unlock the value streams on batteries and provide much-needed balancing support to the grid. This would positively impact the demand for RE which is imperative for a Net Zero future,"

At The Energy Transition Dialogues (TETD) organised by GEAPP in New Delhi last month, a comprehensive report titled 'Powering Progress: Batteries for Discoms -A Market Action Report on Accelerating Battery Energy

"The BESS Consortium is an example of GEAPP's firm belief in the power of collaborative actions and partnerships to achieve people-positive energy transition. The expansion of BESS is crucial to bring down the current high cost to resolve the issue of intermittency and lead to accelerated RE integration."

Storage in India' was released. This report is a result of the collective effort by GEAPP and RMI. It elaborated that approximately 42 GW (208 GWh) of BESS would be required to integrate 392 GW of VRE (100 GW of wind and 292 GW of solar) by 2030. It also found that integrating increasing amounts of VRE resources, mainly solar and wind, to be a major factor driving grid storage adoption.

During the event, GEAPP also announced the expansion of its Battery Energy Storage System (BESS) project in India, which aims to achieve the target of 1GW for DISCOMS under BESS by 2026. IndiGrid, India's first power sector infrastructure investment trust, was awarded its first BESS project to design, supply, test, install, commission, operate, and maintain a 20 MW/40 MWh in Delhi. GEAPP aims to provide concessional debt financing for 70 percent of the total capital investment and technical assistance for the project. The implementation provides a new pathway since many similar projects have been stuck due to high costs and regulatory bottlenecks. GEAPP will continue to work on a scale-up plan with DISCOMs to achieve the target of 200 MW by providing technical assistance and concessional funding.

Barbados, Belize, Egypt, Ghana, Kenya, Malawi, Mauritania, Mozambique, Nigeria, and Togo are the other first-mover countries that have committed to the BESS Consortium with Indonesia showing strong interest. In order to achieve the estimated 400 GW of renewable energy needed to alleviate energy poverty by 2030, and save a gigaton of CO2, 90 GW of storage capacity must be developed. The BESS Consortium's initial 5 GW goal will help create a roadmap for achieving the rest by 2030.

Battery Energy Storage Systems are a critical element to increasing the reliability of grids and accommodating the variable renewable energy sources that are needed to power economic development. In many cases, a combination of BESS and renewables are already cheaper than fossil fuel alternatives. The BESS Consortium is a multi-stakeholder partnership set up to ensure these BESS benefits transform energy systems across low- and middle-income countries (LMICs). The Consortium is on track to meet its target of securing 5 GW of BESS commitments by the end of 2024 and deploying these by the end of 2027.

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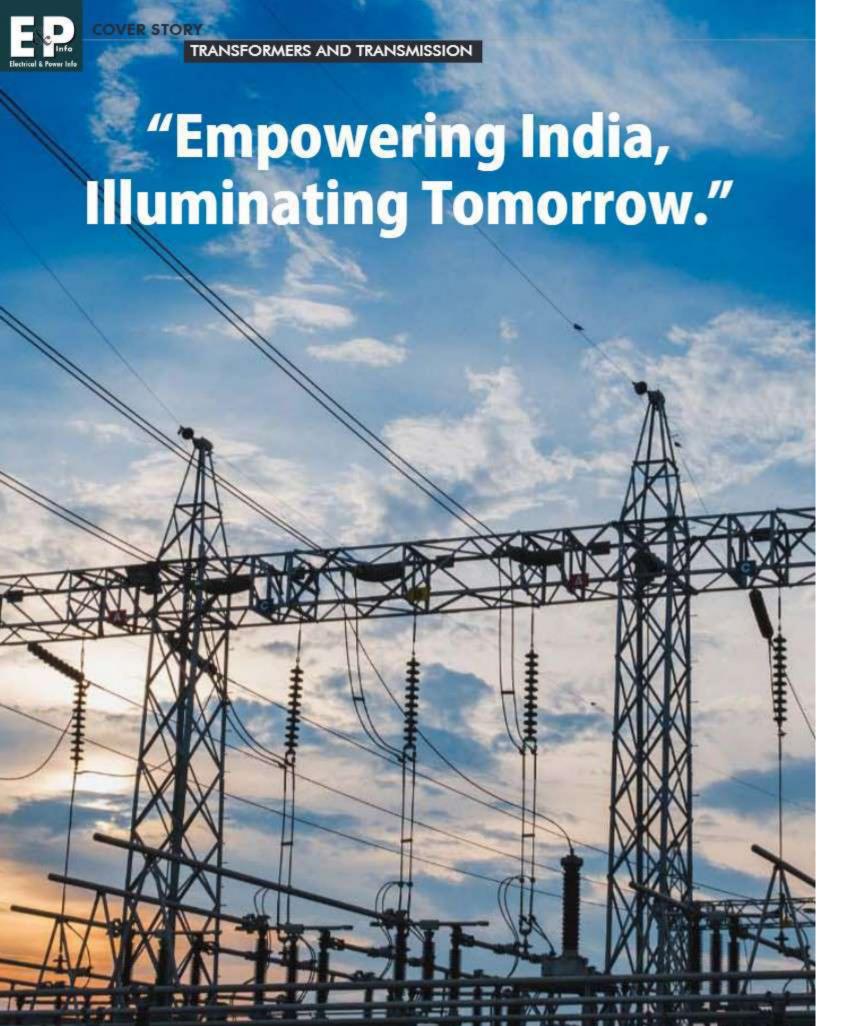
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Power is among the most critical components of infrastructure, crucial for the economic growth and welfare of nations. The existence and development of adequate power infrastructure is essential for sustained growth of the Indian economy. The fundamental principle of India's power industry has been to provide universal access to affordable power in a sustainable way. The Ministry of Power has made significant efforts over the past few years to turn the country from one with a power shortage to one with a surplus by establishing a single national grid, fortifying the distribution network, and achieving universal household electrification.

"The Ministry of Power has made significant efforts over the past few years to turn the country from one with a power shortage to one with a surplus by establishing a single national grid, fortifying the distribution network, and achieving universal household electrification."



India's power sector is one of the most diversified in the world. Sources of power generation range from conventional sources such as coal, lignite, natural gas, oil, hydro and nuclear power, to viable non-conventional sources such as wind, solar, agricultural and domestic waste. Electricity demand in the country has increased rapidly and is expected to rise further in the years to come. In order to meet the increasing demand for electricity in the country, massive addition to the installed generating capacity is required.







19.20.21 JANUARY 2024

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18·19·20 OCT 2024

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### TRANSFORMERS AND TRANSMISSION

India was ranked fourth in wind power capacity and solar power capacity and fourth in renewable power installed capacity, as of 2021. India is the only country among the G20 nations that is on track to achieve the targets under the Paris Agreement.

India is the third-largest producer and consumer of electricity worldwide, with an installed power capacity of 423.25 GW as of July 31, 2023.

As of July 31, 2023, India's installed renewable energy capacity (including hydro) stood at 177.73 GW, representing 41.9% of the overall installed power capacity. As of July 31, 2023, Solar energy contributed 71.14 GW, followed by 43.94 GW from wind power, 10.24 GW from biomass, 4.98 GW from small hydropower, 0.57 from waste to energy, and 46.85 GW from hydropower.

The non-hydro renewable energy capacity addition stood at 4.2 GW for the first three months of FY23 against 2.6 GW for the first three months of FY22.

in the country has increased rapidly and is expected to rise further in the years to come. In order to meet the increasing demand for electricity in the country, massive addition to the installed generating capacity is required.





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### TRANSFORMERS AND TRANSMISSION

India's power generation witnessed its highest growth rate in over 30 years in FY23. Power generation in India increased by 8.87% to 1,624.15 billion kilowatt-hours (kWh) in FY23. According to data from the Ministry of Power, India's power consumption stood at 130.57 BU in April, 2023. The peak power demand in the country stood at 224.10 GW in July 2023. The coal plants registered a PLF of 73.7% for the first nine-months period in FY23 compared to 68.5% in FY22 for the same period. Thermal power plant load is estimated to improve by 63% in FY24, fuelled by strong demand growth along with subdued capacity addition in the sector.



In the current decade (2020-29), the Indian electricity sector is likely to witness a major transformation with respect to demand growth, energy mix and market operations. India wants to ensure that everyone has reliable access to sufficient electricity at all times, while also accelerating the clean energy transition by lowering its reliance on dirty fossil fuels and moving toward more environmentally friendly, renewable sources of energy. Future investments will benefit from strong demand fundamentals, policy support and increasing government focus on infrastructure.

The Government of India is preparing a 'rent a roof' policy for supporting its target of generating 40 GW of power through solar rooftop projects by 2022. It also plans to set up 21 new nuclear power reactors with a total installed capacity of 15,700 MW by 2031.

The Central Electricity Authority (CEA) estimates India's power requirement to grow to reach 817 GW by 2030. Also, by 2029-30, CEA estimates that the share of renewable energy generation would increase from 18% to 44%, while that of thermal energy is expected to reduce from 78% to 52%.

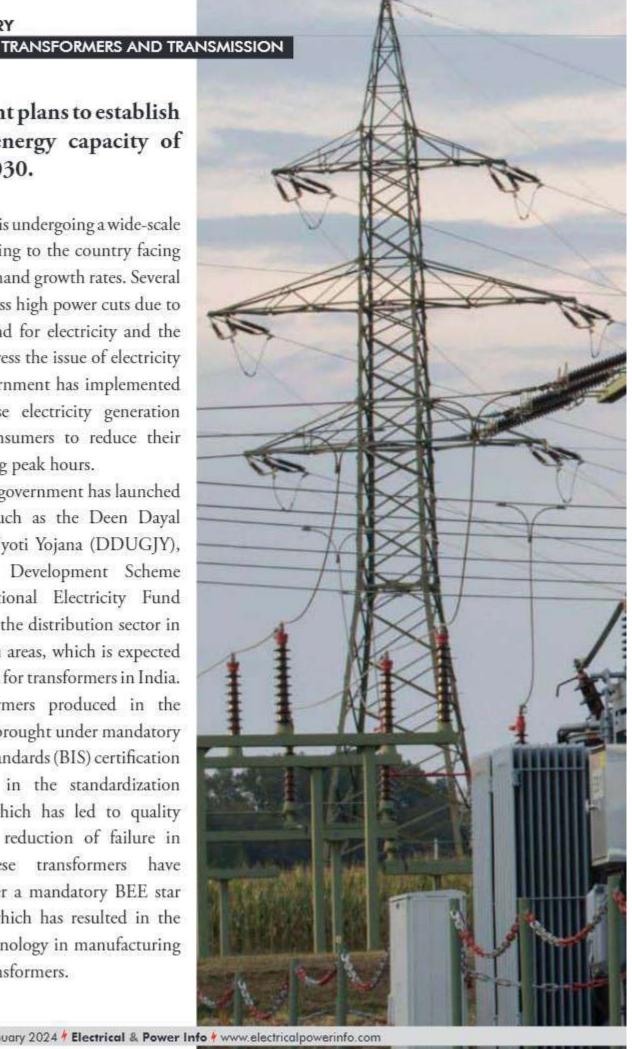


### COVER STORY

The government plans to establish a renewable energy capacity of 500 GW by 2030.

India's power sector is undergoing a wide-scale transformation, owing to the country facing steep electricity demand growth rates. Several parts of India witness high power cuts due to the growing demand for electricity and the supply gap. To address the issue of electricity reliability, the government has implemented policies to increase electricity generation and encourage consumers to reduce their consumption during peak hours.

In recent years, the government has launched several schemes, such as the Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY), Integrated Power Development Scheme (IPDS), and National Electricity Fund (NEF), to improve the distribution sector in the rural and urban areas, which is expected to drive the demand for transformers in India. Moreover, transformers produced in the country have been brought under mandatory Bureau of Indian Standards (BIS) certification that has resulted in the standardization of the product, which has led to quality improvement and reduction of failure in transformers. These transformers have been brought under a mandatory BEE star labeling scheme, which has resulted in the use of modern technology in manufacturing energy-efficient transformers.







# FASTER AVAILABILITY, ACCESSIBILITY AND AFFORDABILITY SINCE ELECTRICAL DISTRIBUTION CAN'T WAIT!



Did you know that electricity demand is surging in India at 8 to 10% YOY, nearly double the pace of the Asia Pacific region? The higher demand is from increased economic activity in the industrial, commercial, residential, infrastructural and agricultural segments. The need for more lighting, heating, cooling and refrigeration, as well as power appliances, computers, electronics, industrial systems, and public transit systems, is being felt increasingly.

At a global level, the percentage of people with access to electricity has steadily increased to more than 90%. This means that around 1 in 10 people worldwide cannot access electricity. This figure still needs to go up! Gains in access should be moving much faster to reach the UN goal of ensuring universal access to affordable, reliable, and modern energy services by 2030.

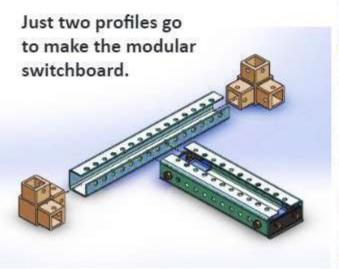
With electricity, life will be simpler and more convenient. So, as electricity generation is on the rise, speed in electrical distribution becomes the need of the hour. Most Panel Builders have never felt the heat of on-time delivery while maintaining world-class quality, more in the past than now. So how will the urgency to deliver Electrical Switchboards be met?

Modutec has the solution to this with its modular switchboard enclosure systems that are flatpack and type-tested. These deliver projects faster

than conventional non-modular methods, are predictable in quality and are backed up by the MODSIM software, with prompt and efficient services. The modular switchboard can be built like a Lego block with incremental dimensions in the XYZ axis at 60 mm respectively.

Just two profiles go to make the skeleton of the panel structure, along with a host of modular joiner pieces, partitions, doors, covers and base plinth. Precision in manufacturing allows for parallel activities of structure assembly, partition fitment, device installation, bus bar work, wiring and door assembly. Unlike a welded structure, which is sequential, here, in a modular system, faster, agile and lean methodologies can be followed in manufacturing. Hence, this simplification allows for standardisation and scaling with ease.

Many Panel Builders have expressed their wish to know more about the features, advantages and benefits of the







MODUTEC - MODDIS modular switchboard enclosure systems. So, here goes:

### Six "F" Reasons - Why Become a Modutec Partner? 1. Freedom of Choice

- a. Enjoy independence in preference for electrical components that make a world-class switchboard.
- b. Software to guide you into IEC 61439 Type Tested and verified designs of multiple switchgear makes.
- c. Like a Lego block, design your custom-needed enclosure in multiples of just 60mm in XYZ directions. d. Get asset light in manufacturing electrical switchboards while leaving the Mechanicals to Modutec.

### 2. Flexibility and unmatched speed

- a. Our flatpack kits, with an assembly manual, like IKEA, help you assemble the enclosure of your choice. b. Last-minute changes from demanding customers can be quickly adapted to this versatile design.
- c. Assembly can start with the skeleton frame, while the doors, covers, and bus Bars can come in afterwards.
- d. Availability, accessibility and affordability the Modutec philosophy of addressing speed in being of service

### 3. First Indian Company with the highest Type-Testing

- a. Modutec is IEC 61439-1&2 accredited 14 times with ABB, LS, Schneider, Mitsubishi, Eaton and Siemens,
- b. As we advance, type-testing with more Switchgears makes, and of Internal Arc, and Seismic is being done.
- c. Modutec is the first Indian company to have its Enclosure Systems Type Tested this many times.
- d. Trust builds regarding safety, reliability and convenience, satisfying Specifiers and End Users.

### 4. Four ways to associate

- a. MODUTEC to serve your IEC and non-IEC needs of standardised Modular Switchboard Enclosure Systems.
- b. ESSENTEC caters to your framework of the switchboard with essential doors so you can complete the rest.
- c. PARTTEC is the supply of signature components only under a license partnership agreement or otherwise.
- d. HUBSPOT allows you to manufacture Modutec enclosures under license as a HUB to serve several SPOKES (Panel Builders).

### 5. FAQ and friendly technical support

a. Ease of doing business is critical for Simplifying Panel Building for the Panel Builder, OEM, and End User.

- b. Panel Builders are welcomed to the Modutec factory for a visit, knowledge sharing and mutual learning.
- c. Detailed training is offered on IEC 61439, modular concepts, profitable scaling, software training, etc.
- d. Frequently Asked Questions, delving into the typical constraints faced in Panel Building are all addressed.

### 6. For Sustainability

- a. Modutec products are standardised in their Profiles and the XYZ dimensions for multiple applications.
- b. Modutec Profiles can be cut in length in multiples of 30mm per modified requirements, even at the site.
- c. All mechanical parts used in a Modutec Enclosure can be largely salvaged for reuse should this be required.
- d. Avoiding welding in the frame and powder coating of AluZn parts empowers sustainability and net zero. Above these 6F reasons, there is ALSO a bonus one in the MODUTEC Ikigai, which translates from Japanese to something that gives a person a sense of purpose, a reason for living.

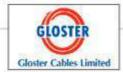
### The Modutec IKIGAI

- a. VISION to serve panel builders worldwide and scale profitably while distributing electricity safely, reliably and conveniently. To become a Rs 100 Cr revenue company by 2027.
- b. MISSION Simplify Panel Building by showing, sharing, and shaping minds in faster, smarter, and greener ways.
- c. VALUES of being Enterprising, practising Equality, living Empathetically, shining forth Excellence, and continually Evolving.
- d. QUALITY the Intent to be inculcated continually into every Modutecian to meet Global Standards, User Delight, and Simplicity.
- e. CERTIFICATION to comply with evolving international standards is our ongoing learning journey and advancement to support panel builders.

We all know that electricity enhances the quality of life of mankind tremendously, and 10% of the world not being empowered by this invention to date is such a shame. As cities become more connected, modernised and avail of the latest technologies, the need for electricity increases, and reaching the required places at the right time is necessary. MODUTEC has taken it upon itself to empower this FASTER, SMARTER and GREENER!



### SRI VINAY RATHI, GLOSTER CABLES LIMITED





# How has 2023 been for your company given the fact that there were few ups and downs over the last few months?

Throughout the current financial year, significant fluctuations in raw material pricing have impacted the top line during the initial three quarters of FY 2023-24. Nevertheless, we anticipate concluding the year on a positive note, reaching a commendable and healthy figure.

# As the New Year will begin, so what are your plans for this year? What are the initiatives we can see in 2024?

We maintain a continuous focus on Capital Expenditure (CAPEX) as part of our ongoing commitment to expansion initiatives. This strategic investment approach is integral to our business philosophy, and

"A key player in infrastructure development, has experienced steady growth amid increasing demand from diverse sectors. Advancements in technology and manufacturing processes have enhanced product quality and efficiency."

we plan to undertake further capacity expansion in the Cables & Wires segment in the upcoming year. This demonstrates our steadfast dedication to enhancing capabilities and meeting the evolving needs of our customers and the market.

# Your views on the Indian wire & cable industry and areas of its improvisation?

The Indian wire and cable industry, a key player in infrastructure development, has experienced steady growth amid increasing demand from diverse sectors. Advancements in technology and manufacturing processes have enhanced product quality and efficiency. To sustain growth, the industry should focus on innovation, quality assurance, and environmental sustainability. Skill development for the workforce, efficient supply chain management, and cybersecurity measures are critical areas for improvement. Additionally, exploring international markets and fostering collaboration can contribute to the industry's overall resilience and success. Continuous market research is essential for identifying emerging trends and opportunities.

## What are the key factors behind the success of Gloster Cables?

The cornerstone of Gloster Cables' success is rooted in its unwavering commitment to quality and unparalleled delivery speed, consistently upheld over a span of 28 years. This steadfast dedication to excellence has fostered a high level of confidence among our valued customers, establishing Gloster Cables as a trusted and reliable partner in the industry.







regulate, isolate, and control power supply, generated from renewable sources. safeguarding it from the threat of electrical 4. overload.

it's essential to check the latest sources for and efficient operations. the most recent updates. Here are some key 5. in India:

- 1. closely linked to infrastructure development smart grids. projects. As India continues to invest in areas 6. need for reliable electrical components, including switchgear and control panels.
- Power Sector Growth: The power panel industry. sector is a significant driver for the switchgear industry. As the demand for electricity Switchgear is specifically designed to with industrialization urbanization, there is a corresponding need for robust and efficient switchgear solutions distribution networks.

Switchgear is specifically designed to role in managing and distributing power

- Industrial Growth: The growth of various industries, including manufacturing, The switchgear and control panel industry automotive, and infrastructure, contributes to in India was experiencing growth driven by the demand for control panels for machinery several factors. However, keep in mind that and equipment. Industries require reliable the information might be outdated, and electrical control systems to ensure smooth
- Grid Initiatives: Smart The factors that typically contribute to the growth implementation of smart grid technologies of the switchgear and control panel industry and the modernization of power distribution systems require advanced switchgear and Infrastructure Development: The control panels. These components are essential demand for switchgear and control panels is for ensuring the reliability and efficiency of
- Government Initiatives: Government such as power generation, distribution, and initiatives and policies, such as "Make in industrial infrastructure, there is a growing India" and programs focusing on power sector reforms, can have a positive impact on the growth of the switchgear and control

and regulate, isolate, and control power supply, safeguarding it from the threat of electrical overload. During faults or electrical surges, to ensure the smooth functioning of power switchgear disconnects the power supply by switching off the electrical circuit in the power Renewable Energy Expansion: The system. This crucial system encompasses push for renewable energy sources, such as switches, fuses, circuit breakers, isolators, solar and wind power, has also contributed protective relays, indicating instruments, to the demand for switchgear and control lightning arrestors, auto reclosures, current panels. These components play a crucial and potential transformers, as well as control





### SWITCHGEAR AND CONTROL PANEL

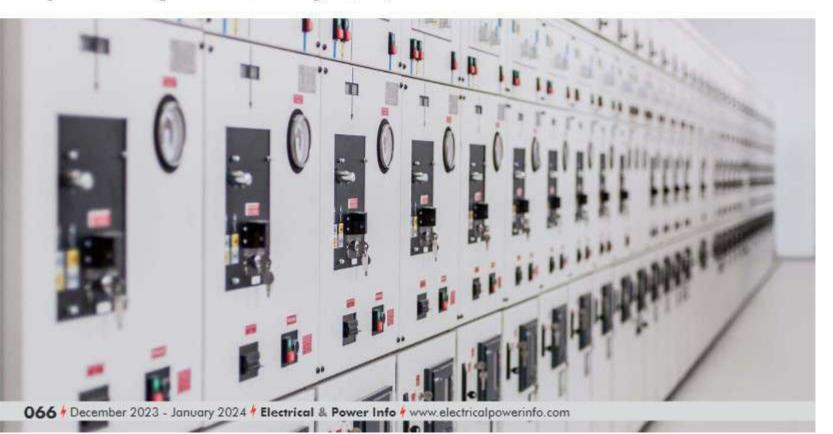
panels.

Notably cost-efficient and controllable amplifies market growth. manually, switchgear offers a winning The initiation of the Deen Dayal Upadhyaya switchgear ensures an uninterrupted power market expansion. Additionally, substantial supply, prevents equipment damage, and investments As a result, it enjoys widespread adoption India, Smart Cities, Make in India, Integrated sectors, contributing significantly to regional Mission for urban transformation, contribute power infrastructure.

of transmission and distribution (T&D) switchgear market in India. networks, coupled with the widespread preference for gas-insulated switchgear (GIS)

over air-insulated switchgear (AIS), further

combination of speed and reliability. Its role Gram Jyoti Yojana, aimed at electrifying extends beyond managing electrical flow; remote areas, stands as a significant catalyst for in diverse infrastructure enhances safety and maintenance protocols. development initiatives, including Digital in residential, commercial, and industrial Power Development Scheme, and Atal significantly to the market's upward trajectory. The switchgear market in India is experiencing Furthermore, the escalating environmental robust growth, fuelled by a surging demand consciousness among the populace has led to for electricity and switchgear solutions. a shift toward renewable energy sources like This heightened demand is a direct result wind, solar, and water to minimize carbon of substantial developments in the power emissions. This conscientious move towards distribution sector, rapid industrialization, sustainable energy practices provides a and urbanization trends. The expansion positive impetus to the overall growth of the







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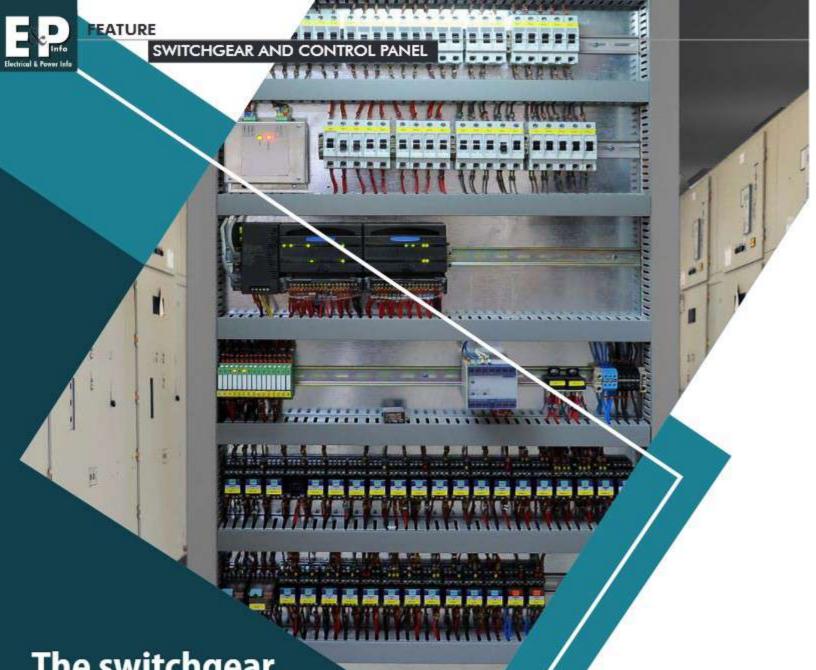
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# The switchgear market in India is

experiencing robust growth, fuelled by a surging demand for electricity and switchgear solutions. This heightened demand is a direct result of substantial developments in the power distribution sector, rapid industrialization, and urbanization trends.







SIEMENS

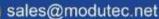


Customers need Choice!
Modutec allows this Voice!
Come Forward,
Play your card,
In winning you then Rejoice!

Any Switchgear, it's adaptable! Modular Enclosure oh adorable! IEC 61439-1-2 approved, Time tested & proved, Partner with us & get profitable!

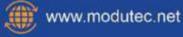




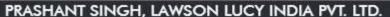
















In 2018 Lawson fuses was acquired by Lucy group, who a leader in secondary power distribution solutions with over 100 years' industry experience and specialising in high-performance medium voltage switchgear. Both Lucy and Lawson are long standing and successful British businesses operating in the electrical distribution market.

### **Prashant Singh**

Head of Business Development, Lawson Lucy India Pvt. Ltd.







Lawson Fuses is one of the most reputed brand names associated with the product range of Low Voltage HRC Fuse links and Fuse Holders, for past many decades. The brand is synonymous with the highest quality standards in the industry and is backed by a strong, glorious legacy of more than 8 decades of operation. We have been, consistently and continuously, delivering on our promise of manufacturing and supplying the highest quality products for ensuring the reliable, robust, and sustainable safety in diverse industrial applications. In 2018 Lawson fuses was acquired by Lucy group, who a leader in secondary power distribution solutions with over 100 years' industry experience and specialising in high-performance medium voltage switchgear. Both Lucy and Lawson are long standing and successful British businesses operating in the electrical distribution market. In India the manufacturing commenced from year 2003 in New Delhi thereafter the operations moved to a brand new and modern, and state of the art manufacturing facility near Vadodara.

Our India operations offers a wide range of fuselinks and fuse-holders for a large variety of applications. These products meet the requirements of International, Indian, British, and other applicable standards and serve a wide spectrum of the industrial applications, providing reliability and safety to the electrical systems across the globe. The product range includes industrial range of fuses (Type N&T, SS, CDS, MD, LGP, A, LFN, MIN), Utility range (Type J, type ME&MF), NH type industrial fuse link (DIN, LUCH), Street lighting type (LST), Special fuses (LNZ, LD), House hold range (Type L, PL, PO), Fuse holders (MS, LBI, LCF, LPC, SLY, SL and FH), semiconductor range (LSC).

The manufacturing facility features a state-of-the-art plant with all the machinery and equipment required



Fuses of highest quality providing reliable and sustainable safety in diverse industrial application



**Highest Quality Standards** 



Wide Range of Applications



Made in India



Strong legacy of more than 8 decades









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prashant.singh@lawsonfuses.com



# A Proud Partner in the Growing Demand for Secure Cable Connections



Atlas Metal has established ourselves as a leader in the metal industry due to our commitment to honesty, integrity, and humility. These fundamental values have always guided us to go beyond customer satisfaction

## Rajesh Changani

Managing Director, Atlas Metal Industires Pvt. Ltd.

The demand for secure cable connections is increasing rapidly, and imarcgroup.com has recently published an article that sheds light on this trend. As per their analysis, the market for secure cable connections will experience significant growth in the upcoming years. We, at Atlas Metal, are thrilled to be a proud partner of this growth, and our extensive range of electrical and lightning safety solutions are well-suited to meet the demands of the market.

As a leader in the metal industry for over 25 years, Atlas Metal has extensive expertise in manufacturing high-quality electrical and lightning safety solutions. Our products, available under the banners, ATCAB and ATFIT, include cable glands, earthing accessories, cable lugs, conduit fittings, cable cleats, cable ties, brass pipe fittings, brass compression fittings, and precision turn components. All these products are trusted and widely accepted in more than 30 countries due to their superior quality, versatility, and durability. We, at Atlas

Metal, are also proud to have received several certifications such as ATEX, IP68, UL, CE, and many more that certify our excellence.

Our modern and state-of-the-art manufacturing technology and machinery unit in Jamnagar (Gujarat) enables us to customise products as per the client's requirements. We ensure that our customised products are of the best quality and satisfy the customer's expectations at a competitive price.

We have established ourselves as a leader in the metal industry due to our commitment to honesty, integrity, and humility. These fundamental values have always guided us to go beyond customer satisfaction. The commitment to delivering high-quality products and services to customers and clients sets us apart within the industry. With constant innovation and introduction of new products, we aim to stay ahead of the curve while meeting the ever-changing needs of the market.

As a leader in the metal industry for over 25 years, Atlas Metal has extensive expertise in manufacturing high-quality electrical and lightning safety solutions







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# Minilec: A reliable integrator of Control Panel System & Switchgear

Technically competent power parameters monitoring & control devices are an essential element in all Control Panels. The correct design and selection of devices in any Control Panel is thus very critical.

Today irrespective of Industry sector, automation is the key for performance monitoring and enhancement. Hence control panels are in high demand, for variety of applications. Power saving - is a critical parameter, which needs to be considered during control panel designing and switchgear selection. Balancing switchgear selection between performance and cost, therefore needs thorough evaluation. Minilec -Protection, Control and Monitoriong Relays, provide a perfectly balanced solution for all LT control panels for all power parameters like incoming Voltage, Current, Frequency, Reverse power, Load current, Leakage current, Earth fault etc. Minilec Power Line Transducers (V/I/KW/Multi-function etc) are used in HT/LT feeders for feeder electrical parameter signals. Minilec Audio visual fault indicating Alarm Annunciators are used for input monitoring as Process Controllers or along with Automated systems, SCADA, DCS & advanced control panels having GIS. In all industries motors are the major power consumption elements & hence it is essential to prevent damage to motors for saving in energy consumption - Minilec offers just the right products for such applications motor protection relays (MPR/EOCR/EMPR). Minilec LVM relays and Annunciators are also used in Transformer RTCC & Tap Changeover Panels and Diesel Generator. Minilec products have been used in power sector & allied industries, inside incoming feeders, PCC/MCC, Power Factor Corrector, Battery charger, automation control panels since last 6 decades.

A wide range of products with technically sound guidance for product selection, to ensure smooth functioning of the targeted application makes Minilec the first choice for several OEMs and control panel designers. Minilec products are designed for safety of equipment's, optimise energy use, remote monitoring, sustainable energy management & for green house energy measurement. A company which works with quality stringent norms and is fuelled by innovation, Minilec plans to introduce products for smart grid

integration & IoT based products soon. Please contact us for your customise requirements.





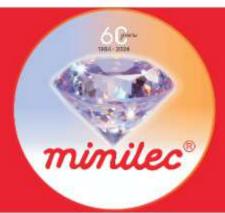




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Manufacturer of M.S/GJI ladder type cable trays



Manufacturer of M S/G J perforated cable trays



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# Work With A Strong Global Leader In The Transformer Industry

With over 100 years of experience, Harmrond Power Solutions (HPS) is a global leader in the manufacture of dry-type transformers, reactors and related magnetic solutions.

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#### BHARAT PETROLEUM AND KIRLOSKAR



# Bharat Petroleum and Kirloskar Oil Engines Commemorate 25 Years of Collaborative Innovation

Bharat Petroleum Corporation Limited ("BPCL"), a Fortune Global 500 Company and a distinguished 'Maharatna,' celebrated a remarkable 25 years of collaborative innovation with Kirloskar Oil Engines Limited ("KOEL"). The commemorative event, held on November 27, 2023, in Pune, was a testament to the enduring partnership between BPCL and KOEL, characterized by pioneering collaborations and visionary initiatives.

The event witnessed the presence of Ms. Gauri Kirloskar, Managing Director of KOEL, alongside Mr. Rahul Sahai, CEO (B2B businesses) of KOEL, and dignitaries from KOEL. Representing BPCL, Mr. Sukhmal Kumar Jain, Director (Marketing), and Mr. P Sudhahar, Executive Director (Lubricants), along with other senior officials, added significance to the celebration.

This 25-year journey not only highlighted successful collaborations but also served as a platform to acknowledge BPCL's unwavering support as a trusted supplier of lubricants to KOEL for their genuine engine oils, marketed under the Kirloskar Care brand name. This enduring partnership has been pivotal in ensuring KOEL's commitment to delivering top-notch engine oils, ensuring reliability and optimal performance for consumers.

Mr. Sukhmal Kumar Jain, Director (Marketing), BPCL, expressed, "Our collaborative effort with Kirloskar Oil Engines Limited has yielded the advantage of product development, which is crucially important for developing solutions that are efficient, optimal and economical. Together, we intend to add more innovative solutions to our bouquet of offerings."

Mr. P. Sudhahar, Executive Director (Lubes), BPCL, shared his sentiments on the occasion, stating, "This amazing 25-year voyage is characterized by a unique bond of mutual admiration, trust, innovation and growth, epitomized by the convergence of our combined energies and expertise to reach the pinnacle of excellence and sectoral leadership. Together, we look forward to even more exciting times ahead, exploring new horizons and developing newer solutions to stay ahead of the curve."

Mr. Rahul Sahai, CEO B2B, Kirloskar Oil Engines Limited, expressed "Celebrating a quarter-century of business partnership between Kirloskar Oil Engines Limited and BPCL marks a remarkable journey filled with growth, resilience, and shared success. Our success story is not just about longevity; it's about adaptability and the ability to evolve with the dynamic business landscape. The resilience displayed during times of change reflects the essence of our partnership—a partnership that thrives on innovation and embraces the evolving needs of our customers and the market."

Ms. Gauri Kirloskar, Managing Director, Kirloskar Oil Engines Limited, concluded the celebration, saying, "It is indeed heartening to see such a longstanding partnership between Kirloskar Oil Engines and BPCL, MAK Lubricants. Nurturing a relationship for 25 years speaks volumes about our forward-looking vision and the strong values both our organisations share. Endurance in business hinges on strong principles and the ability to adapt to change. Looking forward to many more fruitful years of collaboration ahead,"

The 25-year celebration of collaboration between BPCL and KOEL stands as a testament to the enduring spirit of innovation and partnership. As we reflect on the past quarter-century, it is evident that our shared commitment to excellence, trust, and forward-thinking has propelled us to new heights. Looking ahead, we are excited about the possibilities that the future holds. Together, BPCL and KOEL remain dedicated to pushing the boundaries of innovation, exploring new horizons, and setting benchmarks for industry leadership.

Fortune Global 500 Company, Bharat Petroleum is the second largest Indian Oil Marketing Company and one of the integrated energy companies in India, engaged in refining of crude oil and marketing of petroleum products, with presence in the upstream and downstream sectors of the oil and gas industry. The company attained the coveted Maharatna status, joining the club of companies having greater operational & financial autonomy.

"Our collaborative effort with Kirloskar Oil Engines Limited has yielded the advantage of product development, which is crucially important for developing solutions that are efficient, optimal and economical. Together, we intend to add more innovative solutions to our bouquet of offerings."





# INTERNATIONAL TRADE FAIR AND CONFERENCE ON CABLE AND WIRE INDUSTRY











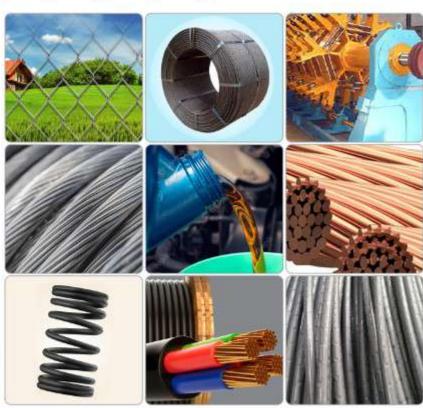


CII is organizing the Wire Tech 2024 in March 2024. The show is an exclusive, industry-lead initiative which is being organized under the Chairmanship of Mr Sunil Chordia, Past Chairman, CII Western Region and Chairman & Managing Director, Rajratan Global Wire Ltd.

The Wire Tech 2024 will showcase materials, machinery and accessories for the production of wire & cables, optical fibre cables, fastener, springs, wire ropes and other wire products. The venue for the exhibition, Mumbai is in close proximity to a large number of India's leading wire & cable manufacturers.

The show will foster inclusive growth by highlighting the opportunities, focussing on quality, spreading awareness about best and sustainable practices, addressing the challenges and formulating contingency responses to the black-swan events.

By facilitating convergence of the Industry Captains, Policy Makers, Infrastructure Facilitators as well as the End-Users, the event will pave the way forward for creation of an ecosystem with a unified perspective.



Reach us via our Membership Helpline: 00-91-124-4592966 / 00-91-99104 46244

CII Helpline Toll Free Number: 1800-103-1244

For more details, please contact

Ms. Dhara Thobhani M: +91 97690 09182 E: dhara.thobhani@cii.in

Confederation of Indian Industry (WR) 105, Kakad Chambers, 132 Dr. Anni Basant Road, Worli,Mumbai - 400018 (India) Mr. Amit Sharma M: +91 98183 91920 E: amit.sharma@cii.in

Confederation of Indian Industry
The Mantosh Sondhi Centre,
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# Your Connection to Growth



# Toshiba Elevating Vertical Transportation in India for over a Decade



Toshiba entered the elevator and escalator business in 1966. Although a recent entrant in an already established market with dominant Japanese players, Toshiba quickly found footing as a renowned brand in the business. For many years, held the Guinness World Record for the fastest elevator in the world, installed in the TAIPEI 101 building in Taiwan. More recently, won a gold award at the if DESIGN AWARD for its FLOORNAVI destination control system, a system grounded in universal design that reduces elevator wait-time and increases overall ride comfort for everyone.

Expanding its geographical reach in Asia, Toshiba entered the Indian elevator market in 2011 with a vision of providing world-class, energy efficient and safe vertical transportation systems. Toshiba introduced a product line-up that offered high speed elevators for skyscrapers and premium high-rises, promising fast, safe and comfortable ride quality.

In 2012, Toshiba established joint business with Johnson Lifts, to form Toshiba Johnson Elevators India Private Limited (TJEI). TJEI has established a legacy of providing products that are high in quality, while earning themselves a zero-accident record in India. Sustainability being the top priority, many technology features that save power are now standard equipment on TJEI's elevators.

### THE ROADMAP TO SUCCESS

In just over a decade, TJEI achieved a phenomenal

6500-unit booking milestone. In the last 12 years, the company registered a CAGR (compound annual growth rate) of over 10%. It further aims to achieve an annual booking target of 2000-unit per year by FY2025.

Today, TJEI has operations in 18 states in India with more than 300 renowned customers. Focusing on 'Safety' as the key parameter, TJEI has always offered best-in-class product along with a world-class service.

Toshiba has built a framework that encompasses all aspects of Toshiba's elevators, from product and system development to production, installation, adjustment, maintenance, and services to provide its customers with the highest quality products and services. To augment installation and maintenance services, TJEI established a Training Center and Distribution Center (TCDC). It focuses on quality improvement activities and provides highly reliable products to the market, with safety and quality as top priority, and improve the efficiency of onsite work by advanced stocking and assembling parts facilities.

#### INTEGRATING SUSTAINABILITY IN FUTURE

Living up to Toshiba Group's basic commitment, "Committed to People, Committed to the Future.", TJEI has an unwavering drive to make and do things that lead to a better world. Through its knowledge and experience TJEI remains steadfast in developing sustainable vertical transportation infrastructure in India. TJEI is advancing the quest for carbon neutrality and resilient infrastructure, making full use of its strengths to deliver products and solutions that only Toshiba can.

Embracing digital transformation to accurately grasp the conditions of elevators at all times by means of remote monitoring and diagnosis terminals, Toshiba has developed a maintenance support system through the introduction of Internet of Things (IoT) technologies and Information and Communication Technologies (ICTs). It allows Toshiba to maintaining their elevators' operational performance through conventional periodical inspection and its "Super TERM" (Toshiba Elevator Remote Maintenance) functions.

Toshiba's roots lie in building and maintaining the essential infrastructure that sustains society since its establishment almost 150 years ago, and it is still true today. Through its activities here in India, Toshiba is harnessing its knowledge and expertise to support the construction of infrastructure needed for sustainable urban development and economic growth, to turn on the promise of a new day.



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# Honeywell Launches World's First 100% Hydrogen-Capable Gas Meter

Introduction marks a significant advancement in accelerating Europe's clean energy transition

Honeywell today announced the European launch of its 100% hydrogen-capable diaphragm gas meter. The Honeywell EI5 smart gas meter, which has been successfully piloted in the Netherlands, is part of a broader initiative to align with the region's goals outlined in the European Green Deal.

The new gas meter is capable of measuring both hydrogen and natural gas, providing adaptability across the European continent. Once installed, these meters eliminate the need for future replacements, even as networks transition to hydrogen, thereby reducing long-term costs and enhancing operational sustainability. The EI5's design and functionality have been tested and certified by Physikalisch-Technische Bundesanstalt (PTB), ensuring their safety, accuracy, and preparedness for the evolving energy landscape.

"Honeywell's hydrogen-capable meters are key to facilitating a seamless transition to hydrogen energy across European utility networks," said Kinnera Angadi, Chief Technology Officer of Smart Energy and Thermal Solutions at Honeywell. "We're

enhancing operational efficiency with meters that are ready for the future, helping our customers stay ahead in a market that's swiftly transitioning toward greener energy solutions."

In the Netherlands, the gas meters will be delivered to Enexis Group, one of the country's largest gas distributors, following a pilot project in Wagenborgen. This pilot project is transforming residential homes from the 1970s, integrating them into a hydrogen network that includes not only the E15 gas meters but also a hydrogen central boiler for heating and hot water. Looking ahead, the project aims to pioneer the use of green hydrogen through electrolysis, marking a significant step in sustainable energy usage.

Ashish Gaikwad, Managing Director, Honeywell Automation India Limited and Vice President - General Manager, Honeywell Process Solutions, added "Honeywell's launch of the EI5 smart gas meter in Europe, a 100% hydrogen-capable diaphragm meter, underscores our global dedication to sustainable energy solutions.



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#### KIRLOSKAR BROTHERS LIMITED

# Kirloskar Brothers Limited Unveils Cutting-Edge I HP Mini-Series Pumps: ANNIKA-I and ANISA-I

Kirloskar Brothers Limited (KBL), a pioneer in fluid management solutions, proudly announces the launch of its latest innovation, the ANIIKA-I and ANISA-I, I HP mini-series pumps. These state-ofthe-art pumps mark a significant advancement in fluid handling technology, catering to the diverse needs of industries and households alike.

The ANNIKA-I and ANISA-I pumps from KBL offer a host of key features that set them apart in the fluid management landscape. With a superior Cathodic electro-deposited (CED) coating, these pumps ensure unmatched corrosion resistance and durability in challenging environments. Operating seamlessly across a wide voltage range, they guarantee consistent performance, even in areas with fluctuating power supply. Safety is prioritized through the integration of Thermal Overload Protector, preventing overheating and ensuring long-lasting durability. Additionally, these pumps prioritize safety with robust casing and secure fittings, providing user and infrastructure protection. Beyond their key features, the ANIIKA-I and ANISA-I pumps are designed for versatile applications, catering to domestic water supply for households, facilitating efficient irrigation in agriculture with their powerful I HP capacity, and proving to be ideal for various industrial processes requiring reliable fluid handling. Apart from these features, what sets these pumps apart is their capacity to function with comparatively

less noise levels.

Ms. Rama Kirloskar, Joint Managing Director at KBL, expressed her enthusiasm about the new product launch, stating, "Kirloskar Brothers Limited has always been at the forefront for using its cutting-edge technology for manufacturing highend pumps. As part of another progressive step, we have launched ANNIKA – I and ANISA - I, highly efficient pumps for domestic, agriculture and industrial use. They have the most advanced design, which is compact and lightweight, with enhanced safety features.

Ms. Kirloskar also informed that ANNIKA and ANISA pumps are being built to stand the test of time, thus ensuring the buyer of its long-lasting dependable operation. These mini pumps are available in I.0 hp variant.

Kirloskar Brothers Limited (KBL) is a world-class pump manufacturing company with expertise in the engineering and manufacturing of fluid management systems. Established in I888 and incorporated in I920, KBL is the mother company of the Kirloskar Group. KBL provides complete fluid management solutions for large infrastructure projects in the areas of water supply, power plants, irrigation, building & construction, oil & gas industry, and marine & defence. KBL manufactures industrial, agriculture and domestic pumps, valves and hydro-turbines.







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# Goldmedal Electricals Unveils New Line-up of Stylish, Energy-Efficient Water Heaters

Goldmedal Electricals, one of India's leading Fast Moving Electrical Goods (FMEG) companies, is expanding its product portfolio with the introduction of its new range of water heaters. An established brand in the electrical wiring devices, home automation, wires, LEDs, and fans segments, Goldmedal aims to replicate its success in the water heating category with a series of storage and instant water heater products that offer superior efficiency, design, and durability.

Speaking at the product unveiling, Mr. Kishan Jain, Director, Goldmedal Electricals, stated, "Our commitment has always been to deliver technologically advanced, premium quality, durable, and value-driven products. The launch of our new range of water heaters is another step in that direction. These products have been meticulously designed to meet the demands of discerning consumers, offering exceptional energy efficiency and reliability."

The new Goldmedal water heaters will be available in a variety of models and multiple tank capabilities to cater to a wide variety of needs. From storage to instant water heaters, the product list boasts features such as corrosion-resistant materials, digital temperature display, Dynoflow technology for quicker heating, multiple level safety, and highly efficient, eco-friendly insulation materials. Advanced safety features include precision temperature control, overheat protection, and pressure control valves to ensure a safe and reliable user experience.

Goldmedal is committed to providing best-in-class after-sales service, backed by a dedicated call centre for immediate resolution of customer grievances. The company also promises free installation in most locations across the country along with quick and hassle-free on-site services.

Speaking about the new products, Mr. Bishan Jain, Director at Goldmedal Electricals, added, "We have established a reputation of being one of the most innovative companies in the electrical wiring devices segment over the last 40 years and it's our promise to deliver the same level of quality in every product that bears the Goldmedal brand. With Goldmedal Water Heaters, customers will experience the latest product innovations, the highest possible levels of safety, and superior installation and after-sales services. Like with our other 18-12-2023 product categories, our aim will be to continue raising the bar in the water heating segment." All Goldmedal water heaters are rated 4-star BEE and above and offer up to 10 years of warranty. The company has ambitious plans for its water heater category, aiming to replicate the success it enjoyed with its foray in fans, in 2021.

Goldmedal Electricals is a home-grown electrical company which was established in the year 1979 with a vision to create electrical switches and accessories that make a positive difference to the lives of consumers. The company is known in the industry for manufacturing high quality wiring devices and introducing a host of innovations in the industry. The company has manufacturing units in Vasai outside Mumbai, Bhiwadi in Rajasthan, and Vijayawada in Andhra Pradesh. It is one of the few companies in the industry to have a completely in-house, state-of-the-art tool room and testing facility. Today, the company manufactures a vast range of electrical products including various types of Switches, Home automation systems, LEDs, Fans, Security Systems, Entertainment devices, Doorbells, Wires, Cables, DBs and more for residential buildings as well as commercial establishments.







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#### **NEXTRACKER**



Nextracker (Nasdaq: NXT), a leading global provider of intelligent solar tracker and software solutions, today announced it has surpassed a corporate milestone of 10 GW of smart solar trackers either operational or under fulfilment for projects located in the Middle East, Africa, and India. In parallel timing with the United Nations COP28 Climate Change conference held in Dubai over the last two weeks, this milestone was achieved this month after securing significant orders in the region.

Dan Shugar, Nextracker founder and CEO said, "This is a region marked by a wide range of energy transition needs and opportunities, and we're proud to have reached this significant milestone." We continue to invest in these markets with sales, engineering, and professional services teams to better serve our customers throughout the entire solar project lifecycle. The company is laser focused on anticipating our customers' needs and delivering the industry's most reliable solar tracker and software solutions with unmatched wind design engineering and proven performance."

Hinde Liepmannsohn, Executive Director, Middle East Solar Industry Association, said, "Nextracker, a long-standing MESIA Member (Middle East Solar Industry Association), has demonstrated its commitment to serve as a high-value strategic partner to the major development entities responsible for the region's most important utility-scale renewable

energy projects. From onsite project management and engineering support to systems designed for fast, easy installation with advanced software, technology, and robotic cleaning to optimize energy production, the Nextracker team continues to demonstrate the ability to bring measurable value and impact across the lifecycle of these mega clean-energy projects."

With these markets representing an opportunity for utility-scale solar growth across the region, Nextracker ramped its domestic content and manufacturing program in the Middle East and India, engaging local partners to provide steel and critical components for its solar trackers across the region.

#### Additional Resources

Nextracker's integrated solar tracker and software systems are currently operating on many landmark solar power projects across the region such as:

- Saudi Arabia (Sudair and Sakaka Solar Parks) – projects with ACWA Power and its partners leveraged local manufacturing in KSA for critical steel components which is contributing to the ongoing growth of the Nextracker's steel exports throughout the region. Watch Sakaka project video to learn more.
- United Arab Emirates (Phase V of Mohammed Bin Rashid Al Maktoum Solar Park) – project with Shanghai Electric and ACWA Power providing over one gigawatt of power for Dubai.
- India (Karnataka, Gujarat, and Rajasthan) in collaboration with prominent EPC companies such as Sterling and Wilson Renewable Energy, Amara Raja Infra Private Limited, and Rays Power Infra, as well as established developers such as NTPC and Serentica Renewables, Nextracker is providing its award-winning solar tracker systems on numerous projects to fortify India's clean economy landscape. With its second largest office in Hyderabad and over two hundred dedicated employees, Nextracker has established strategic partnerships with 11 manufacturing suppliers and 13 factories to provide over 80% domestic content for utility-scale solar projects across the country.
- Africa Nextracker systems are operating on over one gigawatt of key solar projects across Africa, a geographical market with high irradiance levels and increasingly favorable clean energy policies.

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CONSTRUCTION ARCHITECTURE UPDATE

# Perkins introduces CPCBIV+ certified engines designed specifically for the Indian electric power generation industry.

Perkins is announcing new 2806FA CPCBIV+ certified ratings for the Indian electric power generation industry. The platform will cover two key power nodes, with the 2806FA-E18TAG1 providing up to 477 kW mechanical power at 50 Hz while the 2806FA-E18TAG2 delivers up to 595 kW mechanical power at 50 Hz. With over 90 years of design experience and more than 3 million Perkins-powered generator sets operating around the world, Perkins understands the needs of the power generation industry. This knowledge and expertise have driven the design and development of the 2806FA-E18TAG, a new engine developed specifically for India that will also be built in country, at our Hosur facility. The 2806FA platform provides excellent cold load acceptance and meets ISO 8528-5 class G2 performance. Steady state stability at constant speed and load achieves ISO8528-5 class G3 performance. This performance makes the 2806FA ideally suited to a wide range of electric power applications. From a stationary prime source of power to a mobile unit serving the rental sector, the 2806FA performs seamlessly, generating dependable power for everything from jobsites to critical installations including hospitals and data centres.

The 2806FA is economical as well, with an improvement in fuel efficiency over its CPCBII predecessor and with an excellent diesel exhaust fluid to fuel ratio, the 2806FA helps control the cost of operation. The high efficiency selective catalytic reduction (SCR) aftertreatment is paired with a 66-litre diesel exhaust fluid tank that enables extended run time between fills.

"Reliable electric power is not an option, it's a fundamental need to keep operations running, whether that's for standby when the mains power fails or to meet onsite prime power requirements," says Abhinav Gupta, general sales manager — South Asia. "Our engines are engineered and expertly crafted to provide reliable, stable and sustainable power for our customers, with the new 2806FA being the latest in a long line of products that also deliver a low total cost of ownership for our customers in India."

For generator manufacturers and end users looking to reduce their greenhouse gas emissions, the 2806FA can, subject to the fuel used meeting Perkins' fuel specifications\*, run with biodiesel up to B20 based on a 20 percent dilution of biodiesel with standard diesel or on 100 percent hydrotreated vegetable oil (HVO).

Helping generator set end users maximise their investment

The 2806FA produces up to 595 kW mechanical at 50 Hz. The engine features the latest electronics with a single, on-engine electronic control module (ECM) that simplifies wiring harnesses, eases installation, supports future diagnostics and is fully capable of integration with customers' telematics solution. The ECM also manages all aspects of aftertreatment operation without operator input.

Together, we power ahead

The new 2806FA-E18TAG1 and 2806FA-E18TAG2 join the Perkins full line up of power solutions developed to meet the reduced emissions needs of customers around the world.

As with all Perkins engines, the new 2806FA is supported by the global support network of 88 distributors covering 185 countries, ensuring stable and sustainable electric power when customers need it, where they need it and how they need it.









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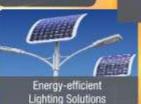
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# Sharika Enterprises illuminates Power Sector with a Timeless Legacy of Innovation and Sustainability



Sharika Enterprises Ltd. (SEL), a distinguished leader in the Power Sector, stands as a trailblazing brand, redefining excellence in Engineering Procurement Construction (EPC) contracts. Specializing in Extra High Voltage (EHV) cable systems, distribution, and automation, Sharika Enterprises is a testament to a legacy that spans decades.

Since its inception, Sharika Enterprises has embodied technical prowess, achieving milestones with precision. From introducing LS Cable Korea's EHV XLPE cable to strategic collaborations with industry giants like Andritz India, the company has consistently led the way in shaping the power infrastructure domain. In the vibrant tapestry of the power sector, Sharika Enterprises has emerged as a beacon of innovation and sustainability over the years, weaving a narrative of excellence that transcends time.

Sharing his vision on the promising future of the company, Mr. Rajinder Kaul, Chairman & Managing Director of Sharika Enterprises Limited said, "At Sharika Enterprises, we are committed to pioneering advancements in the power sector. Our vision is to evolve into a futuristic 'Smart Grid,' leveraging cutting-

edge technologies and sustainable solutions. We believe in a flexible power system that adapts to the evolving needs of our dynamic world."

Guided by Mr. Kaul's visionary leadership, Sharika Enterprises envisions a future where the power sector transcends boundaries. His commitment propels the company toward a 'Smart Grid,' embracing digitalization, Grid Edge Technology, and Smart Grid initiatives that redefine power systems.

In the early 2000s, Sharika Enterprises introduced LS Cable Korea's EHV XLPE cable to India, establishing itself as a key player. Strategic collaborations, notably with Andritz India, further solidified its presence, contributing to the development of hydro power projects in India.

Committed to fostering a greener and more sustainable energy landscape, Sharika Enterprises is at the forefront of digitalization, immersing itself in Grid Edge Technology, commonly known as the Smart Grid. This evolution empowers power systems to achieve heightened flexibility, paving the way for a more adaptable Flexible Power System. The company's strategic vision extends into comprehensively integrated Flexible Power System Operations, covering Transmission System and Grid System Operations (TSO), Distribution System Operations (DSO), and Energy Economics and Power Balancing across TSO, DSO, and REASO (Renewable Energy Aggregation System Operations). Recent years have seen Sharika Enterprises embrace the sunlit horizon, actively collaborating to implement ground-breaking solar PV projects. From Grid-connected solar PV Systems to Hybrid Solutions with Battery Backup, the company's solar portfolio reflects a commitment to a sustainable energy future.

As Sharika Enterprises, a stalwart in the power sector, continues to shape the future, it ventures into uncharted territories. The company's digitalization efforts, coupled with a focus on Flexible Power System Operations, exemplify its commitment to staying at the forefront of technological innovation.





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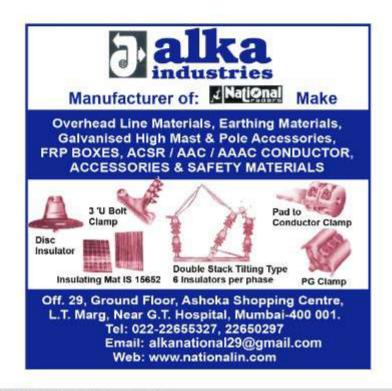
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- · Triple Line Extrusion for HT Cables.
- · Triple Line Extrusion For Domestic/Flexible Cables
- · State-of-the-art CCV Line.
- · In-house production of all grades of PVC compounds.
- For operating HT Line continuously, the plant is equipped with 1010 KVA DG Set and connected with 320 KVA UPS for Un-interrupted power supply.
- In-house facilities to carry out Routine Tests, Acceptance Tests and Type Tests (As per National and International Standards).

Guided by our maxim Safety Is Not Expensive—It Is Priceless, Gloster designs all cables in its range with safety as the top most priority in mind



Safety Is Not Expensive. It Is Priceless !!!!!