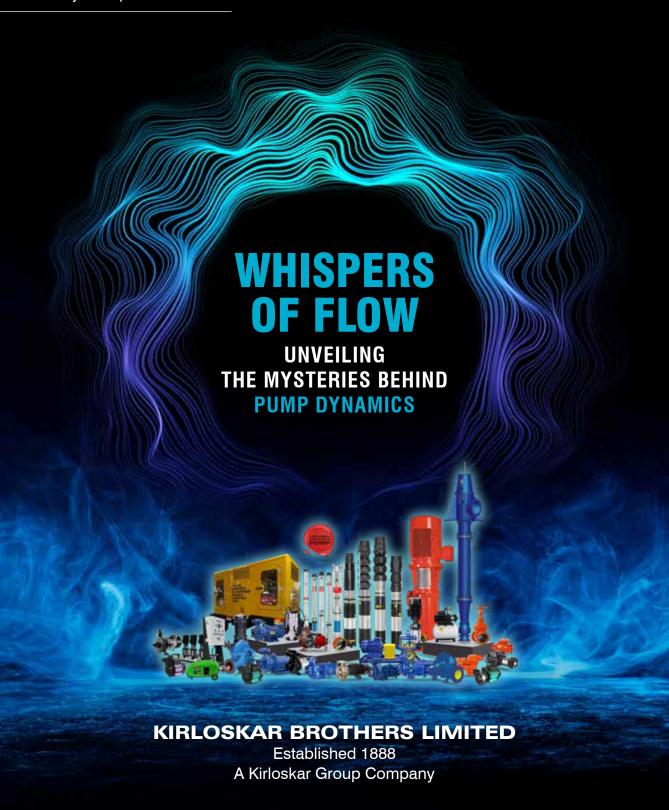


CASCACE
July - September 2024



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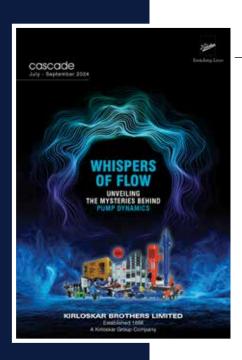
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Concept

"Whispers of Flow" encapsulates the subtle nuances and intricate details that define fluid movement, guiding readers through the fascinating world of pump dynamics. This theme explores the often-overlooked aspects of fluid mechanics and pump engineering, offering a deeper look into the elements that influence pump performance, efficiency and design. It aims to shed light on the hidden complexities that affect flow dynamics, presenting innovative perspectives on optimising efficiency and enhancing design. By unveiling these mysteries, readers will gain a more profound understanding and appreciation of the technology that drives modern fluid systems.

CMD Foreword



CMD Foreword

Dear All,

It is with great pleasure that I present to you the latest edition of Cascade, highlighting the significant milestones we've achieved over the past few months. As a company dedicated to excellence in fluid management, we continue to push boundaries both in terms of technological innovation and our steadfast commitment customer to satisfaction and sustainability. From launching groundbreaking products to actively participating in key international and domestic events, our efforts reflect the core values we hold dear: reliability, efficiency and sustainability.

Sustainable manufacturing is the need of the hour and it lies at the heart of KBL's operations. Our commitment to minimising environmental impact while maximising efficiency drives us to integrate green practices across our manufacturing facilities. By reducing waste, conserving

energy and lowering emissions, we are setting new standards responsible production. This focus on sustainability is also evident in our product innovations, such as the energy-GreenPro efficient Ecolabel certified LLCTM and DBxe series pumps, which adhere to stringent efficiency standards. global These innovations not only contribute to environmental conservation but also deliver long-term value to our customers by reducing operational costs and enhancing energy savings. KBL continues to lead by example, advancing sustainability in both manufacturing and product development.

I invite you to explore this edition of Cascade and discover the dynamic journey we are on. Together, we will continue to set new benchmarks in the pump manufacturing industry.

LCL O.S

Sanjay Kirloskar

Chairman and Managing Director Kirloskar Brothers Limited

Joint MD Foreword



Dear All,

I am delighted to present this edition of Cascade, which delves into the often-overlooked intricacies of fluid dynamics. As technology continues to evolve, the study and application of fluid dynamics are driving new possibilities across various sectors.

Pumps are more than just functional components; their versatility extends far beyond their primary role of transporting water for domestic and agricultural purposes. They ensure public health and environmental protection by playing an integral role in sewage and water treatment plants. In times of crisis, they safeguard lives and assets through their applications in firefighting and flood control. Pumps are also indispensable in sectors like oil & gas, marine & defence, process industries and for power generation in hydro, thermal and nuclear power plants. From the flow of water through our homes to the complex operations of critical industries, the mysteries of fluid movement shape our modern world.

KBL's legacy in fluid dynamics is rooted in our unwavering commitment to excellence and innovation. With over a century of expertise, we have developed a profound understanding of fluid behaviour, enabling us to design and manufacture cutting-edge pumping solutions that cater to a wide range of applications. Our global reach and strategic partnerships ensure that these advanced solutions are accessible worldwide.

This drive for excellence extends beyond our engineering feats as we also seek to build connections and foster community spirit, which brings me to our association with Pro Kabaddi League (PKL). KBL is proud to be an Associate Partner of Puneri Platan team and this partnership holds deep significance for us. As KBL marks 136 years of excellence, it's noteworthy that the modern version of Kabaddi also traces its origins to the early 20th century. Kabaddi demands precision, strength, strategy and adaptability-qualities that resonate strongly with KBL's core values. Both KBL and Kabaddi share the "Make in India" spirit, representing India on the global stage.

Looking ahead, KBL remains dedicated to advancing fluid through dynamics research, development and collaboration. By leveraging data and analytics, we are transforming fluid management to be smarter and more responsive to customer needs. I am confident that this issue of Cascade will foster a deeper appreciation for the fascinating world of fluid dynamics.

Rama Kirloskar

Joint Managing Director - Kirloskar Brothers Limited Managing Director - Kirloskar Ebara Pumps Limited

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Whispers of Flow: Unveiling the Mysteries of Fluid Dynamics

The realm of fluid mechanics, where the subtle whispers of flow guide the intricate movement of liquids and gases, is a world brimming with complexity and wonder. At its core lies the enigma of pump technology and fluid movement. Every pump, from the simplest mini model to the most complex multi-stage configuration, operates within a delicate balance of fluid dynamics.

While fluid mechanics forms the foundation of engineering, its nuances stretch far beyond basic principles. The seemingly straightforward act of fluid flow involves a complex interplay of variables. Mastering these—pressure differentials, flow rates and energy consumption—is the key to achieving peak performance. A thorough understanding of these factors transforms how we comprehend pump efficiency, optimise operations and drive design innovation.

Efficiency Optimisation: A Holistic Approach

Effective pump technology requires more than just selecting the right pump. At KBL, our holistic approach ensures that every facet of production and operation is optimised to deliver sustainable, high-performance solutions, encompassing:

- Process Efficiency: Streamlining operations to save time, cut costs and optimise resource use while maintaining top-notch output. This includes leveraging advanced technologies like the use of one of the world's largest 3D printers in the pump manufacturing industry at Kirloskarvadi, enabling faster and more precise production and 'First Time Right' approach.
- Material Efficiency: Minimising raw material usage while maximising product yield through recycling and waste reduction strategies, contributing to both cost-effectiveness and sustainability.
- Cost Efficiency: Implementing smart strategies such as bulk purchasing and enhanced supply chain management to significantly reduce costs without compromising quality.
- Environmental Efficiency: Adopting green practices across our manufacturing plants, reducing emissions and using sustainable materials to enhance product performance, reliability and overall environmental impact.



Design Innovation: Pushing the Boundaries

Innovation in pump design isn't just about refining existing models—it's about redefining what's possible. Advances in computational fluid dynamics (CFD) have enabled engineers to design pumps that are not only more efficient but also adaptable and sustainable.

KBL's dedication to innovation and efficiency is exemplified through a diverse range of products, from energy-efficient pumps and the Lowest Life-Cycle Cost (LLC™) pumps to cutting-edge solutions like PICO, an innovative mini hydro power generator. Additionally, our IoT-based remote monitoring system, KirloSmart™, brings real-time performance data to the forefront, allowing proactive maintenance and operational efficiency, marking the future of pump design.

Unveiling the Secrets of Flow Dynamics

The true essence of Whispers of Flow lies in understanding the hidden intricacies of fluid behaviour and how they impact pump performance. Each pump tells a unique story of engineering precision and innovation. By exploring these details, we deepen our understanding of how to optimise pump performance for diverse applications, from industrial processes to environmental conservation.

As we continue to uncover the secrets behind fluid dynamics and pump technology, we invite you to embark on this fascinating journey. Whether you're an engineer, a technician or simply a curious mind, embracing the whispers of flow will deepen your appreciation for the sophisticated flow that powers the world of fluid systems.



Shaping a Cleaner, Prosperous Future for the Nation

As the world intensifies efforts to control carbon emissions and mitigate climate change, nuclear energy is becoming a pivotal element in the global energy transition. Achieving the United Nations Sustainable Development Goal 7 (SDG-7), which aims to ensure access to affordable, reliable and sustainable energy for all, necessitates a diverse energy mix. While renewable energy sources are crucial, they alone cannot meet India's burgeoning energy demands. Here, nuclear power emerges as a viable solution to balance the energy mix.

India's energy consumption is expected to quadruple over the next 25-30 years, escalating from 6,580 TWh to over 25,000 TWh annually. Despite the importance of renewable energy, its capacity limitations highlight the necessity of nuclear energy as a key contributor to the nation's clean energy objectives.

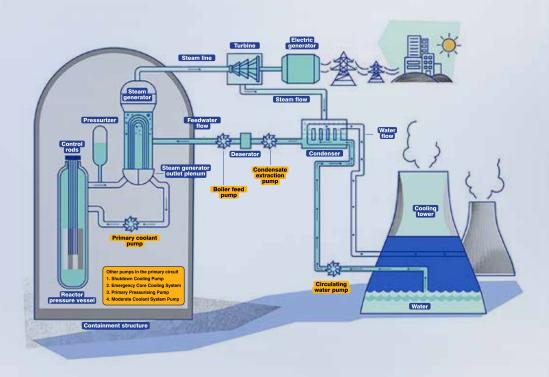
Kirloskar Brothers Limited (KBL) has been a cornerstone in India's nuclear power sector for decades. With extensive experience in designing and manufacturing high-efficiency pumps for nuclear power plants, KBL's advanced pumping solutions are essential for the seamless operation of these plants. Our comprehensive solutions, encompassing

design, supply, erection and commissioning of pumps, establish KBL as a trusted partner for critical applications in nuclear power plants be it as PHWR, PWR or FBR.

Our bespoke pumps for primary and secondary that have significantly enhanced operational efficiency in nuclear plants include the Primary Coolant Pump, Shutdown Cooling Pump, Emergency Core Cooling Pump, Primary Pressurising Pump, Moderator Coolant Pump, Boiler Feed Pump and the High-Pressure High-Temperature Canned Motor Pump among others. Our flagship products, such as PICO and hydro turbines like Francis, Kaplan and Pelton, exemplify the company's commitment to delivering reliable, cutting-edge technologies for power generation, thereby supporting India's transition to clean energy.

As the nation strives to achieve its ambitious clean energy goals, KBL's advanced technologies are instrumental in ensuring safe, efficient and sustainable operation of nuclear power plants. By contributing to the expansion of nuclear energy, KBL plays a pivotal role in shaping a cleaner and more prosperous future for India.







Concrete Volute Pump (CVP)

Max. Head: up to 50 m Max. Flow: up to 1,20,000 m³/hr Max. Motor Rating: 30 MW



Metallic Volute Pump (MVP)

Max. Head: up to 350 m Max. Flow: up to 1,20,000 m³/hr Max. Motor Rating: 30 MW



Moderator Coolant Pump (MCP)

Capacity: Up to 870 m³/hr Head: Up to 55 m

Kirloskar Brothers Limited Powers Sustainability Goals with 13.5 MWp Solar Project

In a significant step in its journey towards sustainability, KBL has signed a solar open access Power Purchase Agreement (PPA) to power the company's manufacturing facilities at Kirloskarvadi and Kolhapur.

The 13.5 MWp solar project will generate approximately 20 million units of clean energy annually, substantially increasing the renewable energy usage for the Kirloskarvadi plant from existing 25% to 75%. The Kolhapur Steel Limited (TKSL) will also boost its renewable energy usage to up to 75%. Through this solar power agreement, KBL will significantly reduce its carbon footprint,

offsetting 14,200 metric tonnes of CO2e emissions yearly. This aligns with the company's commitment to environmental stewardship and contributing to the nation's renewable energy-powered economy.

KBL has a long-standing reputation for promoting sustainable practices across its operations. This partnership with Sunsure Energy further demonstrates its leadership in the manufacturing sector's transition to renewable energy not only through innovative fluid management solutions but also by embracing clean energy to power its operations.



KBL: Associate Partner of Puneri Paltan for Pro Kabaddi League Season 11

Kirloskar Brothers Limited (KBL) is proud to announce its sponsorship of the Puneri Paltan team for the upcoming Pro Kabaddi League (PKL) Season 11. This partnership highlights KBL's commitment to supporting indigenous sports and fostering a vibrant sporting culture in India.

PKL has emerged as one of India's most popular sporting leagues, captivating millions of fans with its high-octane action. The league has played a significant role in elevating the profile of Kabaddi, a traditional Indian sport, both nationally and internationally.

As a proud associate sponsor of Puneri Paltan, KBL is excited to be part of this thrilling sporting spectacle. There are striking similarities between KBL and Kabaddi. As KBL celebrates 136 years of excellence, it is noteworthy that the modern version of Kabaddi also traces its origins to the early

20th century. Kabaddi embodies qualities such as strength, intelligence, speed and strategy. Similarly, KBL products are renowned for their reliability, durability and innovation. Both KBL and Kabaddi share the "Make in India" spirit and proudly represent Pune on the global stage.

Puneri Paltan, known for their exceptional defensive abilities and strategic gameplay, have consistently showcased their dominance in the PKL. As the winners of Season 10, their strong performance in previous seasons has earned them a dedicated fan base and solidified their position as one of the top contenders in the league. With PKL Season 11 set to kick off on October 18, 2024, fans can expect intense competition and thrilling matches as 12 teams battle for the coveted championship title. KBL is confident that Puneri Paltan will continue to excel and make their fans proud.



Introducing PetroTurbo - Engineered for Efficient Retail Petroleum Pumping Solutions



Kirloskar Brothers Limited has launched **PetroTurbo**, a state-of-the-art pump designed specifically for retail petroleum applications. This 100% indigenous pump in two powerful variants, the **KSTP 075** (0.75 HP) and **KSTP 150** (1.5 HP) combines high performance with exceptional durability.

Key Features that make PetroTurbo a superior solution for fuel dispensing, include:

- Customisable Length: With lengths up to 148 inches and an optional telescopic pipe, this pump can easily adapt to different tank sizes, ensuring a perfect fit for any installation.
- Durability and Longevity:
 - Operating range: Built to withstand harsh conditions, this pump operates in ambient temperatures ranging from -20°C to +55°C and at humidity levels up to 95%.
 - Self-Cleaning Strainer: Its self-cleaning strainer ensures long-lasting performance by protecting the pump from debris.

- IP 66 Certified Manifold: It has a robust manifold with IP 66 certification for superior ingress protection thereby giving it a long life.
 - Efficiency and Reliability: PetroTurbo's powerful performance and robust construction ensure uninterrupted fuel dispensing, minimising downtime and maximising operational efficiency.
 - Easy Installation and Maintenance: The pump's compact design and easy installation process reduce setup time and costs. Regular maintenance is simplified, thanks to its accessible components.
 - Cost-Effective Operation: PetroTurbo's energy-efficient design helps to lower operating costs, making it a practical choice for retail petroleum stations.

Each pump undergoes extensive in-house internal testing, including real-world trials with Light Diesel Oil (LDO), to ensure optimal functionality and reliability. Retail petroleum applications can greatly benefit from this reliable, efficient and cost-effective solution that meets their specific needs and enhances overall operations.

Technical Specifications

	KSTP 075	KSTP 150
Specification	Range	Range
Flow Rate	160-200 LPM	220-250 LPM
Power Supply	Single-phase 230V, 50 Hz	Single-phase 230V, 50 Hz
Maximum Current	6 Amps	12 Amps



KCPL

KEPL's Innovative Titanium Pumps: Paving a Greener Energy Future

Kirloskar Ebara Pumps Limited's (KEPL) expertise in pump design and manufacturing, coupled with its commitment to innovation, has enabled the successful development and manufacturing of centrifugal pumps in 'Titanium Gr-12' material for a prominent biorefinery project. All these pumps were successfully built, assembled, performance-tested and shipped from KEPL's Kirloskarvadi manufacturing plant. Titanium is a versatile metal known for its high strength-to-weight ratio and excellent corrosion resistance. Titanium alloys provide an even broader range of properties and performance characteristics compared to pure titanium, making them suitable for a wide variety of applications including pumps used in biorefineries.

This biorefinery project, located in the Northeastern part of the country, is India's first facility dedicated to producing 2G bioethanol and other platform chemicals from cellulosic feedstock, primarily bamboo. This flagship initiative will serve as a benchmark for biorefineries across India, helping to supplement conventional energy and reduce dependence on imported fossil fuels, thus marking a significant step forward in the pursuit of greener energy solutions.





Skid-mounted Smart Firefighting System with IoT Remote Monitoring Solution

Kirloskar Brothers Limited has introduced the Skid-mounted Smart Firefighting System with IoT remote monitoring solution, an advanced system designed for ease of installation and real-time monitoring. This state-of-the-art system integrates pumps, drivers, control systems and pipework into one unit.

Here's why it's the ideal choice for safeguarding buildings and other infrastructure:

- Plug and Play: No civil construction or manual intervention is required. Simply connect to water and power, reducing installation time and costs.
- Pre-Assembled & Tested: Each unit is preassembled in a controlled factory environment and is fully tested, eliminating potential coordination issues on-site.
- Low Maintenance: It is engineered to the latest fire safety standards, offering long-term reliability with minimal upkeep.

- **IoT-Based Monitoring:** Its IoT-based monitoring system enhances operational reliability by providing real-time insights and alerts, enabling timely maintenance and reducing the risk of system failure.
- Cost and Time Efficiency: No skilled workforce is needed for installation, significantly reducing labour costs and setup time.
- Versatile Applications: It is ideal for commercial complexes, high-rise buildings, airports, ports, oil and gas platforms, petrochemical complexes, power stations, warehouses and more.

KBL's Skid-Mounted Smart IoT-Based Firefighting Unit redefines fire safety with advanced technology and easy installation ensuring efficiency, safety and flexibility for a wide range of applications.



KBL Unveils GFP Series End Suction Slurry Pump for FGD applications

As a part of KBL's commitment to advancing industrial pump technology, we have unveiled the new GFP Series End Suction Slurry Pump, designed specifically for Flue Gas Desulphurisation (FGD) applications. This latest addition to our product line will address the critical need for efficient and reliable slurry handling in thermal power plants and other industrial processes.

Key features of the GFP Series that make it the optimal choice for handling aggressive liquids, such as gypsum slurry applications, include:

- Advanced Technology: The GFP Series is engineered to suit the aggressive or harsh environment of FGD processes essential for removing Sulphur Dioxide (SO₂) from exhaust flue gases of fossil-fuel power plants and other Sulphur Oxide emitting sources.
- Durable Construction: Featuring highgrade Silicon Carbide and epoxy resins, our pumps are built to resist corrosion and abrasion ensuring long-term durability and performance.

- Efficient Maintenance: Designed with a back pull-out assembly, the GFP Series allows for easy inspection and maintenance. The coupling spacer facilitates removal or back pull out assembly without disturbing the suction and delivery piping or the motor, simplifying maintenance tasks.
- Enhanced Performance: This series features heavy-duty bearings and special mechanical seals designed for reliable operation in aggressive slurry conditions offering high hydraulic efficiency with minimum maintenance.

Kirloskar GFP Series End Suction Slurry Pump stands out with its robust construction, superior hydraulic efficiency and user-friendly maintenance features, making it an ideal solution for handling aggressive slurry applications in various industrial settings.

Technical Specifications

Specifications	Range
Delivery Size	600 to 1200 mm
Head Range	Up to 30 metres
Flow Range	4000 to 20000 m³/hr
Speed	300 to 600 rpm



Empowering Agriculture with Smart Solutions at Asia's Largest Narayanpur Pump Canal

Kirloskar Brothers Limited (KBL) has played a crucial role in enhancing the efficiency and reliability of the Narayanpur Lift Canal, Asia's largest pump canal. By supplying and commissioning 14 KirloSmart™ devices, KBL has equipped the canal's operators with a powerful tool for optimising pump performance and ensuring uninterrupted water supply to 250,000 hectares of farmland in Mirzapur district, Uttar Pradesh.

KirloSmart[™], an advanced IoT-based solution, provides real-time monitoring of pump operations,

enabling predictive maintenance and minimising downtime. This translates to enhanced operational efficiency and reduced maintenance costs for the Lift Irrigation Construction Division, benefitting the farmers who rely on the canal for their livelihoods.

The company's involvement has not only bolstered agricultural productivity in the region but has also set a benchmark for innovative solutions in the irrigation sector.



Bringing Prosperity to Uttar Pradesh: KBL Powers Anpara Thermal Power Plant

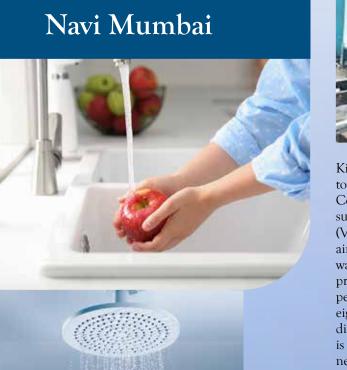
Kirloskar Brothers Limited (KBL) has made a significant contribution to the Anpara Thermal Power Station (TPS) by successfully supplying Vertical Turbine (VT) Pumps for the Effluent Treatment Plant (ETP). These high-performance pumps are critical to the station's water management system, ensuring efficient and reliable operations. The power station with a total power-generation capacity of 3850 MW uses nine operational units, all of which are coal-fired thermal power stations.

These expansions have been instrumental in reducing power shortages thereby contributing to the state's economic development. KBL's advanced fluid management solutions not only enhance the operational efficiency of the power plant but also play a key role in supporting sustainable energy production and environmental management.





KBL Supports 24/7 Water Supply Initiative for Navi Mumbai





Kirloskar Brothers Limited (KBL) is proud Mumbai Municipal support Navi Corporation's (NMMC) ambitious 24/7 water supply scheme by supplying Vertical Turbine (VT) pumps. This phased water supply scheme aims to ensure uninterrupted access to clean water for the city's residents. NMMC currently provides 470.43 million litres (MLD) of water per day to over 1,27,000 residential users across eight wards. With a vast transmission and distribution network of pipelines, this project is crucial in meeting the city's growing water needs. KBL's high-performance VT pumps will play a vital role in ensuring efficient operation of this water distribution system. By partnering in such vital urban initiatives, KBL continues to support efforts to enhance water management and community well-being while promoting sustainable practices.

Powering Yettinahole Drinking Water Supply Project



In a significant development aimed at alleviating water scarcity, Kirloskar Brothers Limited (KBL) has supplied more than 35 pump sets in four packages, consisting of metallic volute pumps (MVPs) and vertical turbine (VT) pumps, to the Yettinahole Integrated Drinking Water Supply Project.

The MVPs play a critical role in these pumping schemes to lift large volume of water with high head by single stage impeller. These pumps are equipped with many advanced features including metallic diaphragm couplings to run with very low vibration enhancing both performance and reliability.

The Yettinahole project, designed to address the acute drinking water crisis, aims to divert water from west-flowing streams of the Western Ghats to benefit seven drought-prone districts of Karnataka, including Chikkaballapur, Kolar, Hassan, Chitradurga, Tumkur, Ramanagar and Bengaluru Rural. This massive undertaking will supply drinking water to 6,657 villages and 38 towns, covering 29 taluks. KBL is proud to contribute to this vital project, which will solve the pressing challenge of water scarcity of the region.



Dual Triumph: KBL's Dewas and KOV Foundries Achieve BIS Certification for IS210

KBL's Dewas plant has achieved the Bureau of Indian Standards (BIS) certification for IS210, joining our Kirloskarvadi foundry in this prestigious accomplishment. This certification underscores our commitment to quality and excellence in manufacturing gray iron castings. The IS210 standard ensures that our castings meet stringent requirements for material composition,

microstructure and mechanical properties, enhancing their performance and reliability in various industrial applications. With both our foundries now IS210 certified, KBL is well-positioned to deliver superior quality products and maintain our high standards of operational excellence.



Partnering for Excellence

KBL hosted the Business Partners Meet on 31st July in Pune, bringing together key stakeholders to celebrate past achievements and envision future successes. This event underscored the critical role of collaboration in driving operational excellence and innovation.

The theme, "Partnering for Excellence", emphasised KBL's commitment to innovation and strong partnerships.

The agenda featured insightful presentations, engaging panel discussions and interactive sessions, fostering meaningful dialogue on leveraging synergies for mutual growth. Chairman and Managing Director Mr. Sanjay Kirloskar and Joint Managing Director Ms. Rama Kirloskar underscored KBL's dedication to collaboration, excellence and innovation, driven by robust partnerships. The event concluded with optimism, as attendees looked forward to a future of shared success, powered by progress and united by excellence.







104th Annual General Meeting KBL Charts a Strategic Path Forward with Innovation, Sustainability and Strong Financial Growth

The 104th Annual General Meeting (AGM) of KBL was conducted via video conference on 6th August. The meeting was attended by key members of the Board of Directors, including Chairman and Managing Director Mr. Sanjay Kirloskar, Joint Managing Director Ms. Rama Kirloskar., Non-Executive and Non-Independent Director, Mr Alok Kirloskar and other distinguished directors and auditors.

Mr. Sanjay Kirloskar unveiled KBL's strategic road map, focusing on digital optimisation, process enhancement and people empowerment. In his report, he spotlighted KBL's achievements in product innovation and sustainability and in providing advanced pump technology for critical infrastructure. Additionally, he also underscored the Company's commitment to Environmental, Social and

Governance (ESG) initiatives, with notable achievements in sustainable manufacturing practices and community development. The financial report for FY 2023-24 showcased robust performance, with significant growth in revenues and profitability, driven by strategic diversification and increased demand in key sectors.





Driving Agricultural Efficiency With Innovative Pumping Solutions at AGRI INTEX 2024

(KBL) Kirloskar Brothers Limited participated in AGRI INTEX 2024, India's prime agricultural trade fair, held at the CODISSIA Trade Fair Complex in Coimbatore, Tamil Nadu from 11-15 July. We received an overwhelming response from the visitors who explored our contemporary pumping solutions tailored for the agricultural and domestic segments, including our high-performance, energyefficient surface and submersible pumps. KBL is proud to provide sustainable and best-in-class pumping solutions for the agricultural industry.







Unveiling Technological Prowess at the FGD Systems Conference

Kirloskar Brothers Limited (KBL) was at the forefront of the 8th Annual Conference Flue Gas Desulphurisation (FGD) Systems, held from July 3-4, 2024 in New Delhi.

We unveiled our GFP series end-suction slurry recirculation pump specifically engineered for reliable operations in Flue Gas Desulphurisation (FGD) applications. Attendees explored our diverse range of products for the diverse needs of the industrial sector, including the concrete volute pump, metallic volute pump, vertical turbine pump, lowest life-cycle cost pump, condensate extraction pump, boiler feed pump, canned motor pump, hydropower generators PAT and PICO and our IoT-based remote monitoring solution KirloSmart™.







KBL Showcases the Future of Firefighting Systems at UFSEC, Greater Noida



Kirloskar Brothers Limited (KBL) participated in the Uttar Pradesh Fire and Safety Expo & Conference (UFSEC) 2024, an exclusive event focused on industrial safety, fire protection and disaster response. Held on the 24th and 25th of July 2024 in Greater Noida, the expo brought together industry leaders, safety professionals and exhibitors to discuss the latest advancements in fire safety technology.

Visitors explored our comprehensive range of firefighting pumping solutions including containerised fire pump sets, Multi-stage Multi-outlet (MSMO) pumps, Fire Engine Pump Set (KFE) and FM/UL approved firefighting solutions, globally recognised for their quality and reliability along with KirloSmartTM Fire- our innovative remote monitoring solution for firefighting pumps. This advanced technology enables real-time performance tracking, helping to ensure the readiness and reliability of firefighting pumps in critical situations.

KBL continues to provide highperformance, efficient and dependable equipment that meets global fire safety.



Making Way for a Greener Future



KBL's Advanced HVAC&R Pumping Solutions at ISHRAE COOL Conclave 2024

Kirloskar Brothers Limited (KBL) participated in the ISHRAE COOL Conclave 2024, held from 1st to 3rd August in Jaipur. This prestigious event focused on decarbonisation and carbon emission reduction strategies, aligning with India's "Net Zero" goals within the HVAC&R industry.

We exhibited our cutting-edge range of HVAC&R pumping systems that support efficient and sustainable operations in residential and commercial building structures across India including the vertical inline long-coupled pump,

vertical inline short-coupled pump, the Lowest Life-Cycle Cost (LLC $^{\text{\tiny M}}$) pump set, known for its superior energy efficiency and robust performance in addition to KirloSmart $^{\text{\tiny M}}$, our innovative remote pump monitoring solution that provides real-time insights into pump operations, enabling predictive maintenance and optimising energy usage.

By leading the way with energy-efficient and smart pumping systems, KBL plays a pivotal role in reducing carbon emissions in the HVAC&R sector and promoting a greener future.

KBL Shines at the 19th CII India Africa Business Conclave 2024

Kirloskar Brothers Limited (KBL) made a significant mark at the 19th edition of the India-Africa Conclave, hosted by the Confederation of Indian Industry (CII) in collaboration with the Ministry of External Affairs and the Ministry of Commerce and Industry, Government of India from 20-22 August in New Delhi.

Visitors explored our hybrid solar pumping systems, plug-and-play pump-house and customised fluid management solutions. These solutions, designed with focus on sustainability, adaptability and efficiency, embody KBL's

commitment to driving Africa's progress through impactful partnerships. The insightful panel discussion on "Unleashing Africa's Agricultural Potential for Global Food Security", featuring an impactful presentation by our esteemed Vice President and Head, Water, Irrigation and Power Sectors, Mr. Vikas Agarwal, ignited engaging discussions on how to tackle food security challenges and unlock Africa's agricultural potential. KBL is at the forefront, driving the future with sustainable solutions in the agricultural, energy and power sectors, fostering growth and positive change.





Safeguarding the Future: KBL's Advanced Firefighting Solutions at FSIE 2024



Kirloskar Brothers Limited (KBL) participated in the Fire & Security India Expo (FSIE) 2024, showcasing its unwavering commitment to protecting lives and assets through pioneering firefighting solutions.

Visitors to the KBL stall were introduced to an impressive array of cutting-edge firefighting pumps, including the skid-mounted smart firefighting system with IoT monitoring solution, Multi-Stage Multi-Outlet (MSMO) firefighting pump, FM-approved and UL-listed pump and fire sprinkler pump sets (FLD). Additionally, the spotlight was on KirloSmartTM Fire, KBL's advanced IoT-based remote monitoring system and immersive AR technology demonstration.

KBL has been entrusted with safeguarding some of the world's most iconic structures, offering unmatched reliability and performance in critical environments.



KBL Showcases Innovative Power Generation Solutions at POWERGEN India 2024

Kirloskar Brothers Limited showcased its comprehensive range of pumps and hydro turbines for the power generation industry at POWERGEN India 2024 from 4 - 6 September in New Delhi. Visitors were eager to learn about KBL's solutions for nuclear and thermal power plants, including vertical turbine, concrete volute, metallic volute, boiler feed and condensate extraction pumps; specialised primary and secondary sodium pumps for critical nuclear applications and Pelton, Kaplan and Francis hydro turbines. Additionally, our advanced micro hydro generator PICO and KirloSmart[™] system garnered significant interest.

Dr. Ravindra Birajdar, CRED (R&D) and Special Projects Business at KBL, participated in panel discussions on "Flexing Power: Navigating the Future with Autonomous and Sustainable Generation" and "Balancing Acts: Navigating the Future Energy Mix - Assessing the State of Renewables and the Trajectory of Conventional Sources". His insights into innovative strategies for a sustainable energy transition highlighted KBL's commitment to leading advancements in the power generation sector.



Fuelling the Future of Oil and Gas at RoTIC, Dubai



Kirloskar Ebara Pumps Limited (KEPL) participated in the prestigious RoTIC Symposium 2024, held from 24-26 September in Dubai. The event focused on rotating machinery and cutting-edge technologies for the Oil & Gas sector, attracting industry leaders and professionals worldwide.

Our product lineup including API and Non-API pumps as well as steam turbines, impressed the visitors sparking insightful discussions around their role in driving efficiency and sustainability in the Oil & Gas sector. KEPL's participation in RoTIC 2024 further solidifies our position as a leading provider of high-quality rotating machinery solutions.











Creative Celebrations at Yamuna Office

A special Ganpati idol-making workshop was conducted for employees at the Yamuna office to mark the *Ganeshotsav*. This handson activity using eco-friendly clay, not only fostered creativity but also deepened our connection to tradition and sustainability. At Kirloskar Brothers Limited, we believe in engaging our teams in meaningful experiences that celebrate culture, craftsmanship and care for the planet.











KirloFit Club Badminton Tournament: A Smash Hit

Yamuna office players brought their A-game to the court, showcasing amazing skills and sportsmanship at the KirloFit Club's badminton tournament! The event was a resounding success, drawing enthusiastic participation from the employees. From the intense rallies to the friendly cheers, the atmosphere was electric. The tournament was not just about winning or losing; it was about fostering sportsmanship, camaraderie and a healthy lifestyle!

Cricket Fever Hits Yamuna: YPL 2024 Auction

The stage was set, the players were ready and the bidding was fierce! The auction for the KirloFit Cricket Yamuna Premiere League 2024 was a thrilling event filled with excitement. Players were up for grabs as team owners engaged in a fun and competitive bidding process. Our four dynamic teams—KBL Lions, KBL Tigers, KBL Cobras and KBL Panthers—came to life with enthusiasm and friendly rivalry as team owners and captains worked hard to build their dream teams. Watch out for these talented teams as they battle it out on the field!

















Nurturing Nature, Growing Together

Plantation drive at Sanand and Dewas to enhance local biodiversity and promote environmental sustainability







Supporting Bahule Village

Karad Projects and Motors Limited (KPML) donates a 20 HP submersible pump for drinking water supply to residents





Honouring Tradition at Kirloskarvadi's Century-Old Ganeshotsav













KirloSmart™ Fire



IoT Remote Monitoring Solutions





Steps for E-Warranty Registration for Newly Purchased Pumps/Pump Sets



THROUGH KBL's OFFICIAL WEBSITE

- Log on to the web site www.kirloskarpumps.com
- Scroll down and go to the option of E-Warranty Registration
- Enter the pump serial number and other necessary details as requested
- Register for E-Warranty



USING WHATSAPP NUMBER

- For your newly purchased pumps, keep the pump invoice ready with you
- Send a message on KBL's WhatsApp number 9922710710
 & provide requested details for registration of E-Warranty
- You can also email us the necessary details for registration of E-Warranty on: kblcare@kbl.co.in



- Download the KBLOne4All App from Google Play Store and iOS App Store
- Select the user category and login with the help of mobile number by filling up the necessary details as requested
- System has 2 options regarding the capture of pump serial number: through QR Code scanning available on the pump or through manual entry of the pump serial number
- Register for E-Warranty

Note: Registration of the E-Warranty of your newly purchased pump is mandatory for getting the services & required support from our company without any difficulties.



OUR COMPANIES











