

# Fluid Management for a Better Tomorrow



Enriching Lives

**KIRLOSKAR BROTHERS LIMITED**

Established 1888

A Kirloskar Group Company

**MANUFACTURING  
PUMPS SINCE 1926**



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- In January 1926, Kirloskar Brothers Limited (KBL) manufactured and installed India's first indigenously developed centrifugal pump.
- Marking this milestone, KBL unveiled its centenary emblem: "Manufacturing Pumps Since 1926. A Century Strong. Infinite Motion."
- KBL has been a trusted partner in nation-building, powering critical infrastructure, industry and economic growth with its engineering excellence for over 138 years.



**Manufacturing Pumps Since 1926**  
**A Century Strong. Infinite Motion.**

## ABOUT KBL

Kirloskar Brothers Limited (KBL) is a world-class pump manufacturing company with expertise in the engineering and manufacturing of fluid management systems. Established in 1888 and incorporated in 1920, 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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Registered Office & Global Headquarter:  
"Yamuna", Baner, Pune.



## OUR SUBSIDIARIES AND JOINT VENTURES



Kirloskar Ebara Pumps Limited (KEPL) manufactures API, Non-API pumps, and steam turbines.



Kirloskar Corrocoat Private Limited (KCPL) is a top solution provider for corrosion protection and energy conversion.



Karad Projects and Motors Limited (KPML) specializes in electric component manufacturing, including stampings, stators, rotors, AC rotating machines, and aluminum die-cast connecting rods.



SPP Pumps Ltd, UK: A 140-year-old leading UK pump manufacturer, known for centrifugal pumps, fire pump packages, and diverse industrial applications.



SyncroFlo, Inc. USA: Specializes in pre-assembled pumping systems for HVAC, fire protection, and turf irrigation.



Rodelta Pumps International: A Dutch pump manufacturer serving various industries, including flood control, pulp & paper, and oil & gas.



Kirloskar Brothers Thailand Limited (KBTL), Thailand: Serves as the Board Of Investment-promoted HQ and assembly plant for KBL Group in ASEAN and East Asia.



Braybar Pumps, South Africa, manufactures and sells high-head multi-stage pumps, rubber-lined slurry pumps, and metal-lined bearings.



Rotaserve offers global pump equipment upgrades, repairs, and maintenance.



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SUCCESSFUL JOURNEYS  
START WITH THE

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CHAFF CUTTER  
IRON PLOUGH  
CENTRIFUGAL PUMP  
DIESEL, KEROSENE & PETROL ENGINE  
**st Step**

MACHINE TOOL  
ELECTRIC MOTOR  
AIR COMPRESSOR

CANNED

MOTOR PUMP  
SOLAR PUMP

CONCRETE  
VOLUTE PUMP

MAGNETIC  
DRIVE PUMP

METALLIC  
VOLUTE PUMP

LOWEST LIFE  
CYCLE COST PUMP

TAMPER-PROOF  
AIR RELEASE VALVE

HIGH PRESSURE  
HIGH TEMPERATURE

CANNED

MOTOR PUMP  
PUMP REMOTE

MONITORING  
SYSTEM (IOT)

FISH FRIENDLY PUMP



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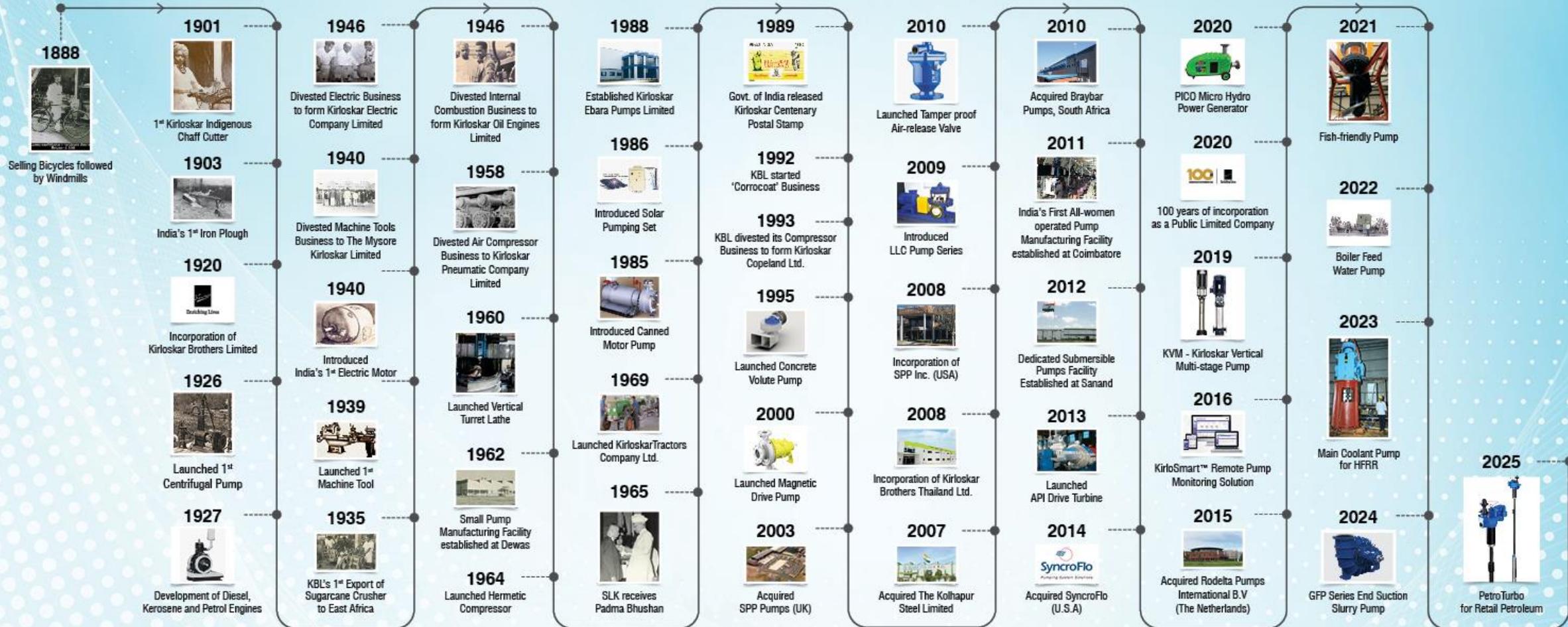
# THE JOURNEY...



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# GLOBAL PRESENCE

## Registered Office and Global Headquarter

1 Pune, India

## Overseas Presence

- 2 Atlanta, US (Manufacturing)
- 3 Coleford, UK (Manufacturing)
- 4 Almelo, The Netherlands (Manufacturing)
- 5 Johannesburg, South Africa (Manufacturing)
- 6 Jebel Ali, UAE (Assembly and warehousing)
- 7 Cairo, Egypt (Assembly, testing and services)
- 8 Bangkok, Thailand (Assembly, testing and services)
- 9 Aberdeen (Service centre)
- 10 Hyde, Manchester (Service centre)
- 11 Theale, Reading (Office)



## Manufacturing Plants in India

- 12 Kirloskarvadi
  - Location Maharashtra
  - Products manufactured Various types of pumps ranging from 5 kW to 30 MW and valves ranging from 25 mm – 5 m
- 13 Shirwal
  - Location Maharashtra
  - Products manufactured Hydro-pneumatic Systems and IOT Panels
- 14 Sanand
  - Location Gujarat
  - Products manufactured Submersible pumps ranging from 0.37 kW to 44 kW

- 15 Kaniyur
  - Location Tamil Nadu
  - Products manufactured Domestic mini pumps ranging from 0.37 kW to 1.1 kW
- 16 Dewae
  - Location Madhya Pradesh
  - Products manufactured Industry and domestic pumps ranging from 0.37 kW to 22 kW

Location Products manufactured

## Domestic Subsidiaries and Associate companies

- 17 Karad Projects and Motors Limited, Karad
- 18 The Kolhapur Steel Limited, Kolhapur
- 19 Kirloskar Corrocoat Private Limited, Kirloskarvadi
- 20 Kirloskar Ebara Pumps Limited, Kirloskarvadi

## Regional Offices

- 21 New Delhi
- 22 Chennai
- 23 Kolkata
- 24 Mumbai
- 25 Ahmedabad
- 26 Bengaluru
- 27 Hyderabad



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## KBL'S DIVERSIFIED PRODUCT PORTFOLIO



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## A DIFFERENTIATED PRODUCT LINE



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### Pumps

75+  
Types of Pumps

**120,000 m<sup>3</sup>/hr**  
Flow Capacity  
(528,000 US GPM)

**3200 m**  
Head (4,539 psi)

Pumps up to  
**30 MW**  
(40,000 HP)



### Valves

30+  
Types of Valves

Valves with diameter  
**6 - 5,000 mm**



### Hydro Turbines

**Up to 20 MW**  
Francis/Pelton/Kaplan



### PAT/PICO

**6 kW-100 kW**  
Pump As Turbine (PAT)

**0.5 kW-5 kW**  
PICO



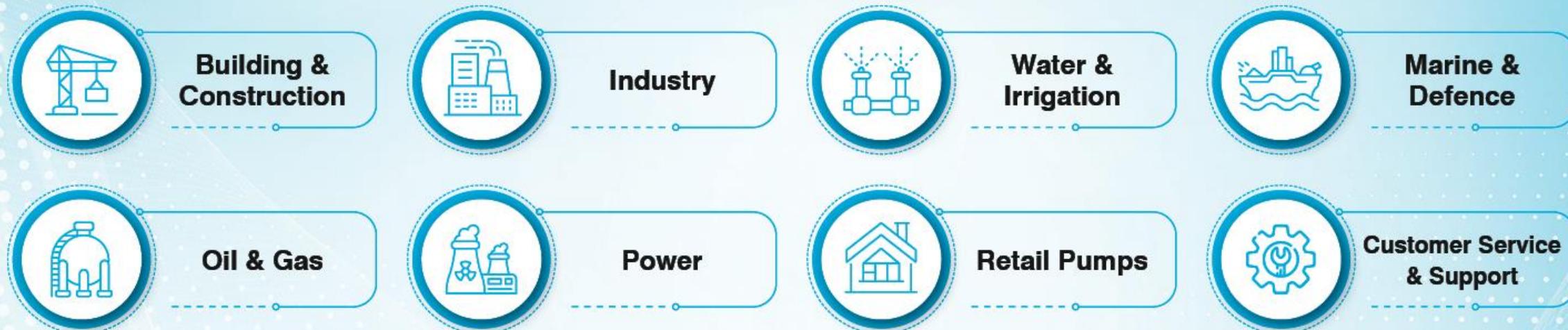
# KIRLOSKAR BROTHERS LIMITED

## IN EVERY LANDMARK

Our strength lies in our extensive experience in designing, manufacturing, installation and commissioning a variety of tailor-made pumping systems. By prioritising innovation, quality and continuous technological advancement, we are a one-stop solution for all pumping applications.



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## BUILDING & CONSTRUCTION

KBL offers innovative and smart fluid management solutions for the modern building and construction industry, serving diverse projects like commercial complexes, metro stations, hospitals, schools and airports. Our comprehensive pumping systems adapt to the evolving needs of infrastructure, ensuring efficiency.



### Shri Ram Mandir Ayodhya, India

Supply of more than 100 pumps to the Shri Ram Janmabhoomi Teerth Kshetra in Ayodhya.



### Marina Bay Sands, Singapore

Our firefighting MSMO pumps safeguard the Singapore's luxurious hotel.



### The Hong Kong-Zhuhai-Macau Bridge, Macau

Our firefighting pumps safeguard the world's longest bridge



### The Shard, London, UK

Our firefighting MSMO pumps safeguard the UK's most iconic building.

## Our Solutions

### Firefighting System

KBL's comprehensive firefighting pump solutions encompass a range of offerings, including FM/UL approved and listed pumps (for industries), Multi-stage Multi-outlet (MSMO) fire pumps (for high rise buildings), Kirloskar fire engine pump-sets (KFE), Fire Sprinkler pump-sets (FLD) (residential and domestic purpose) and containerised firefighting pump sets (plug and play pump house).

### Hydropneumatic Pressure Boosting System (HYPN)

An intelligent water pressure boosting solution, adjusting flow based on demand, ideal for maintaining consistent pressure in high-rise buildings and commercial complexes.

### Heating Ventilation Air Conditioning & Refrigeration (HVAC & R)

We provide a diverse selection of pumps for HVAC applications, including end suction pumps, horizontal split case pumps, vertical inline pumps, high-energy efficiency pumps and more.

### Dewatering and Sewage Handling Pumps

The Autoprime pump set, an ideal and swift dewatering solution, efficiently clears waterlogged areas. This portable and robust flood control pump unit is a reliable choice. KBL's sewage pumps include non-clog submersible sewage pumps, solid handling pumps, self-priming pump-sets, etc.



## INDUSTRY

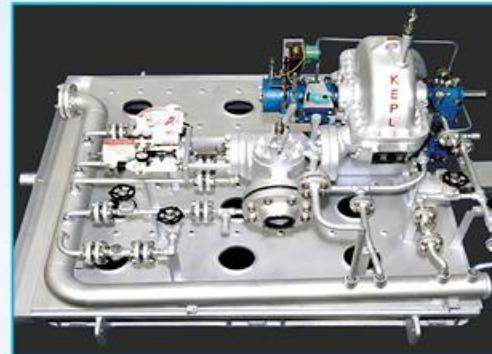
Industries thrive on the essential power of process fluids such as acids, alkalis, monomers and solvents. KBL specialises in crafting process pumps that skillfully manage these critical chemicals, empowering various sectors to attain their objectives.

These pumps are the result of extensive research and are meticulously engineered to combat pervasive corrosion challenges within the industry. KBL offers customised solutions tailored to a diverse array of sectors, including Chemicals, Pharmaceuticals, Sugar, Textile, Food & Beverages, Steel, Coal and Pulp & Paper, ensuring steadfast process reliability.



**National Peroxide Ltd.,**  
Maharashtra, India

Supply of energy-efficient LLC™ pumps



**PT Pemukasakti Manisindah,**  
Indonesia

Supply of 380 kW  
API Drive Turbine to ISGEC



**Majis International Services Co.,**  
Sohar, Oman

Supply of Vertical Turbine Pumps  
and Butterfly Valves



**Exxonmobil,**  
Texas, USA

Supply of Vertical Turbine and Horizontal Split-case  
Pumps for cooling water application



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## MARINE & DEFENCE

KBL's dedicated Marine & Defence division exclusively serves Indian PSU shipyards, the Navy, Coastguard, Army, Air Force, ordnance factories, civil & marine ships, Military Engineer Services and all Defence establishments. Our solutions are in adherence to the global standards such as Directorate General of Quality Assurance, Indian Register of Shipping, Lloyd's Register of Shipping, American Bureau of Shipping and Bureau Veritas standards, with a proven track record spanning decade.

Approved by Indian Register of Shipping for marine-grade product manufacturing, we are the registered vendors for Directorate General of Quality Assurance, the Indian Army, Indian Navy, and Directorate General of Supplies and Disposals. KBL's fluid management solutions are integral to the frontline warships, including aircraft carriers and submarines.



Supply of Chilled water canned pumps, Sea water canned motor pumps and Main Ballast pump for submarine



Supply of conventional and canned motor pumps for firefighting, salvage and freshwater applications for Indian naval and coast guard ships



Supply of Mixed Flow Non-clog Pumps for impounding pumping system at Mazagaon Dockyard Ltd., Mumbai



Commissioning of Magazine Fire Fighting System (MFFS) for fire protection of ammunition storage in naval warships

### Our Applications

- Water mist firefighting system
- Axial flow pumps, containerised pumps
- Jet propulsion pumps for the coast guard
- High head pumps
- Special purpose pumps



## OIL & GAS

KBL is a leading manufacturer of highly engineered pumps specifically designed for the oil and gas industry. Our API process pumps cover a wide range of applications, including critical areas and cryogenic environments. These pumps strictly adhere to API 610 and API 682 standards, ensuring world-class quality and compliance with international safety regulations in the oil and gas sector. From efficiently processing crude oil to powering reliable firefighting systems, KBL's pumps and valves are trusted across the globe in diverse applications, including refineries, petroleum and petrochemical facilities, gas and LNG terminals and offshore rigs.



### Paradip-Numaligarh Crude Oil Pipeline Project, West Bengal, India

Supply and installation of 16 high-performance crude handling pumps to one of the longest crude oil pipeline projects in India



### Saudi Aramco Base Oil Company Luberef, Saudi Arabia

Supply of BB5 pumps for critical process application



### MIRFA Abu Dhabi

Supply Boiler Feed Pumps for MIRFA 1600 MW Combined Cycle Power Plant in Abu Dhabi set-up by Hyundai Engineering & Construction



### Jazan Integrated Gasification Combined Cycle Power Plant, Saudi Arabia

Vertical sea water pumps for this plant by China Harbour Engineering Company for Saudi Aramco

## Our Solutions

### Offshore fire water applications

- Upstream application for exploration and production
- Midstream application for crude oil transportation
- Downstream application for petrochemical and chemical

### Gas, Oil & Defence applications

- Turnkey projects & firefighting solutions for offshore platforms



## RETAIL PUMPS

KBL's renowned retail pumps deliver unmatched versatility, efficiency and low energy consumption, making them the preferred choice for diverse water needs in homes, agriculture and small-scale industries. Their ease of maintenance and minimal energy footprint make them ideal for various applications, from domestic use (homes, apartments, hotels and hospitals) to irrigation (lawns and gardens) and boosting applications (overhead tanks). Billions of Kirloskar pumps are utilised worldwide for farmland irrigation and household water supply, playing a crucial role in sustaining agricultural productivity and daily living needs. These pumps are designed to minimise energy consumption while maximising performance making them an eco-friendly and cost-effective choice for various applications.



For Residential and Agricultural use



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A Century Strong, Infinite Motion.



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## WATER RESOURCE MANAGEMENT

KBL excels in the comprehensive water resource management of projects, encompassing the design, supply, testing, erection and commissioning phases. Our expertise spans raw water intake, water treatment, desalination and Sewage Treatment Plants (STP) utilising cutting-edge technologies. With a remarkable track record, KBL proudly boasts over 100,000 operational Kirloskar pumps worldwide, strategically placed in more than 100 water bodies. These pumps play a crucial role in diverse government, public and private projects. Notably, KBL stands as India's premier exporter of pumps, catering to the needs of over 80 countries.



**Rand Water**  
Johannesburg, South Africa

Supply of Horizontal Split-case Pump, largest water utility in Africa and is one of the largest in the world, providing potable water to more than 11 million people



**Bang Sue Drainage Project**  
Bangkok, Thailand

Supply of Concrete Volute Pumps providing protection to six districts against floods



**Thames Water**  
United Kingdom

Supply of VT Pumps to Thames Water — the UK's largest water and wastewater services company



**NEOM City**  
Saudi Arabia

Supply of pumps for cooling water, fire fighting and dewatering

### Our Applications

- ▶ Water intake
- ▶ Water treatment
- ▶ Water supply and distribution

- ▶ Storm water & flood control
- ▶ Sewage treatment / Wastewater treatment
- ▶ Effluent treatment



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## IRRIGATION

KBL's prowess in executing some of the world's largest irrigation projects, stems from our ability to manufacture large-sized pumps and oversee end-to-end project management. Our pumping solutions play a vital role in over 500 large-scale government irrigation projects globally, spanning countries like Laos, Cambodia, Senegal, Vietnam, Egypt, Suriname and Portugal. These irrigation projects, managed by KBL, contribute significantly to enhancing agricultural output, achieving food sufficiency, and fostering economic and social growth in the respective countries.



**Sardar Sarovar Narmada Nigam Ltd.**  
Gujarat, India

KBL pumps are used in one of the world's largest pumping schemes for irrigating 5,40,000 hectares of land and supplying drinking water to over 30 million people.



**Egypt**  
Africa

Thousands of Kirloskar Pumps have transformed 200,000 hectares of Egyptian desert into a green belt; no wonder, pumps are called 'Kirloskar' in Egypt.



**Laos and Cambodia**  
Asia

KBL pump sets have transformed these countries from Rice Importers to Rice Exporters.



**Portugal**  
Europe

KBL has transformed the landscape by irrigating 115,000 hectares of land by supplying pumps for various irrigation schemes in Portugal.



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## VALVES

KBL specialises in manufacturing valves of all sizes, from a compact 25 mm to customised large sized 5000 mm valves. Over the last six decades, Kirloskar valves have been among the most trusted and widely preferred fluid control solutions in industries like water, oil & gas, process liquids and slurries in industries. Kirloskar valves, which are available in a wide range of material of construction as well as temperature and pressure ratings, are manufactured in accordance with national and international standards confirming to IS, BS, EN, API, AWWA.



**Jaypee Nigrie Thermal Power Plant**

Supply of 3800 mm Butterfly Valve for cooling water system



**Kshipra Multipurpose Lift Irrigation Project**

Supply of 3000 mm Butterfly Valve to Narmada Valley Development Corporation



**WSP Mohali**

Supply of 2000 mm MDNRV to Greater Mohali Area Development Authority



**Sohar Port Industrial Project**

Supply of 700 mm, 1400 mm and 2200 mm Butterfly Valves to Majis Industrial Services



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## POWER

KBL provides reliable, high-performance pumping solutions for thermal, hydro and nuclear power plants worldwide.

For over decades, KBL has been the trusted partner for power plant projects, offering comprehensive solutions encompassing design, manufacturing, supply, erection, testing and commissioning of pump systems. This commitment to end-to-end support ensures optimal power generation efficiency, contributing to a more sustainable future.

KBL is India's largest manufacturer of centrifugal pumps exporting to 80 countries across 6 continents. We offer unique energy-efficient turnkey solutions right from conceptualising to commissioning. We are the only turbine manufacturer providing a one-roof manufacturing solution for electro-mechanical systems, supported by Asia's largest hydraulic research center with state-of-the-art testing facilities. Our product range includes Francis, Pelton and Kaplan turbines along with Pump As Turbine (PAT). We excel in providing reliable, innovative, and energy-efficient water handling solutions across power plants, water supply, irrigation, industrial, defense, marine, commercial building services and hydropower sectors, backed by decades of expertise both in India and internationally.



**Coronel Power Plant**  
Chile, South America

Supply of Vertical Turbine Pumps  
for cooling water application



**Mae Moh Power Plant**  
Thailand

KBL supplies critical  
cooling water pumps



**ITER**  
France

KBL is the only supplier of cooling water pumps for  
the world's largest fusion project



**Bechtel**  
Prairie, USA

Supply of Vertical Turbine Pumps  
for cooling water application

### Our Applications

**THERMAL POWER** | **NUCLEAR POWER** | **HYDRO POWER**



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# BESPOKE PUMPS FOR NUCLEAR

Primary / Secondary heat transfer pumps

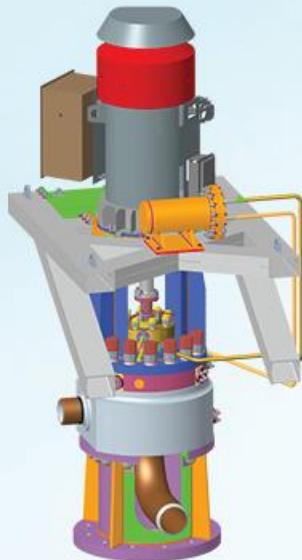


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## Primary Coolant Pump (PCP)

Max. Flow: 8700 m<sup>3</sup>/hr  
Max. Head: 217 m  
Max. Speed: 1500 rpm  
Design Temperature: 326°C



## Shutdown Cooling Pump (SDCP)

Max. Flow: Up to 700 m<sup>3</sup>/hr  
Max. Head: 30 m  
Max. Speed: 980 rpm  
Design Temperature: 326°C



## Moderator Coolant Pump (MCP)

Capacity: Up to 870 m<sup>3</sup>/hr  
Head: Up to 55 m  
Design Temperature: 100°C



# BESPOKE PUMPS FOR NUCLEAR

Primary / Secondary heat transfer pumps



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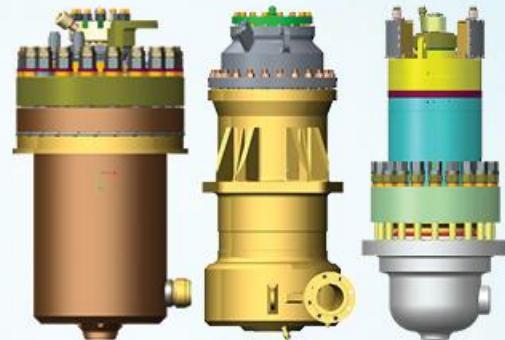
## Emergency Core Cooling System (ECCS)

Max. Flow: 1480 m<sup>3</sup>/hr  
Max. Head: 120 m  
Max. Speed: 1480 rpm  
Design Temperature: 125°C



## Primary Pressurizing Pump (PPP)

Max. Flow: 52.5 m<sup>3</sup>/hr  
Max. Head: 1155 m  
Max. Speed: 3000 rpm  
Design Temperature: 125°C



## High Pressure High Temperature Canned Motor Pumps

Flow: Up to 3000 m<sup>3</sup>/hr  
Max. Head: 100 m  
Max. Speed: 3000 rpm  
Design Temperature: 350°C



## MANUFACTURING FACILITIES

Our state-of-the-art manufacturing facilities are comprehensively outfitted with modern foundries, advanced machinery, assembly and integration facilities. Additionally, we boast specialised coating capabilities and well-equipped material and product performance testing labs. These facilities are supported by a robust supply chain and dedicated teams in Research, Engineering and Quality Assurance.

Within our manufacturing facilities, dedicated units focus on the development of futuristic and technologically advanced products. We prioritise energy efficiency, upholding our commitment to green production, a clean environment and high-quality standards. Adhering strictly to industry regulations and safety standards, we have specialised teams overseeing compliance with applicable laws and regulations. These teams also conduct rigorous safety assessments and implement thorough risk management procedures.



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### KEY HIGHLIGHTS

10

State-of-the-art manufacturing facilities in India

09

Plants certified for ISO 9001 & ISO 14001

08

Plants certified for ISO 9001, ISO 14001 & ISO 45001



KIRLOSKARVADI



DEWAS



KANIYUR



SANAND



SHIRWAL

## AWARDS AND ACCOLADES



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### GREENCO CERTIFICATION



Dewas Plant



Kirloskarvadi Plant



Sanand Plant



Kaniyur Plant

## AWARDS AND ACCOLADES

KBL is the first and only pump manufacturing company in the country to receive the GreenPro Ecolabel certification for its products and processes. This globally benchmarked Type-I ecolabel accredited by the Global Ecolabelling Network (GEN), recognizes products with lower environmental impact and reduced energy consumption and waste across their lifecycle.

The certification covers KBL's DBxe end suction pumps, Lowest Life-Cycle Cost (LLC) horizontal axially split case pump series, cast iron and alloy cast steel foundry castings, as well as 0.5 and 1 HP mini pumps and 4-inch borewell submersible pumps.



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### INDIA'S FIRST GREENPRO ECOLABEL CERTIFIED PUMP MANUFACTURING COMPANY



DBxe Series Pump



Lowest Life-Cycle Cost (LLC)



Self-Priming Pumps



Submersible Pumps



Casting CI & ACS Foundry

## RESEARCH & DEVELOPMENT

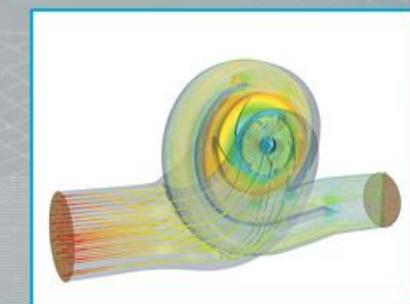
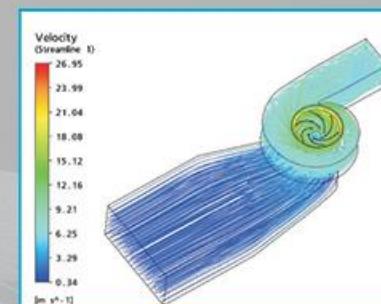
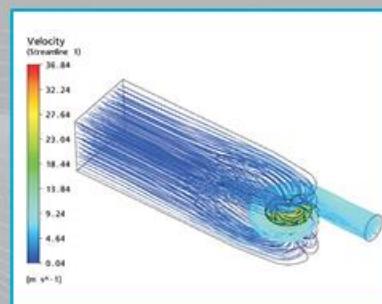
We cultivate a culture of continuous innovation driven by our commitment to "Fluid Management for a Better Tomorrow". Our dedicated Research and Development (R&D) team actively explores and implements groundbreaking technologies to enhance pump efficiency, reliability and sustainability. This relentless pursuit of innovation has led to the development of cutting-edge solutions addressing challenges like reducing energy consumption, minimising environmental impact and extending pump lifespans. By constantly pushing the boundaries of fluid management technology, KBL is shaping a future where efficient and responsible fluid management empowers a sustainable world.



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### Computational Fluid Dynamics (CFD) / Structural Analysis

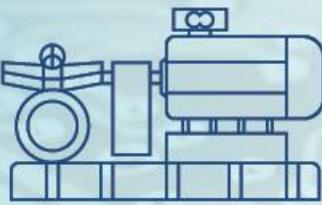


## OUR INNOVATIVE SOLUTIONS



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### LLC™ PUMPS



Kirloskar Brothers Ltd. was the first company in the world to design the Lowest Lifecycle Cost (LLC™) Pumps based on the recommendations of Hydraulic Institute and Euro Pump.

Lowest Lifecycle Cost (LLC™) Pump series focuses on the energy consumption and maintenance cost of the pumps. It is beneficial to evaluate the life cycle cost of a pump to compare the available pumping system while making buying decisions

### KIRLOSMART™



KirloSmart™ is an IoT-based remote pump monitoring solution that allows users to view pump parameters online and aids in diagnostics.

KirloSmart™ captures data from pressure transmitters, flow meters, vibration sensors, bearing RTD and energy meters. It can monitor parameters like flow, pressure, vibration, bearing temperature, voltage, current, energy consumption, etc.

### PICO/PAT



The PICO Pump turbine system is an eco-friendly energy alternative that generates electricity. It boasts cost-efficiency, portability and low maintenance, rendering it an ideal choice for rural areas, hilly regions with water streams, high-rise structures and even power plants.

PICO is generally used for meeting smaller energy requirements (up to 10 kW) while Pumps as Turbines (PAT) can be used for meeting comparatively higher energy (up to 400 kW) requirements. Beyond its attractive investment aspect, it also significantly contributes to environmental preservation and is a driving force towards a greener future.

## KIRLOSKAR LLC™ PUMP SERIES

- World's first Lowest Life-Cycle Cost (LLC™) Pump Series developed with SPP Pumps Ltd.
- Installed in around 70% of the UK's water utility companies
- Helped in cutting emissions and increasing operating reliability in many prominent water intake projects across the world



**SAVE ENERGY, SAVE COST, SAVE TIME!**



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◆ WATER RESOURCE MANAGEMENT ◆ IRRIGATION ◆ POWER ◆ INDUSTRY ◆ OIL & GAS  
◆ MARINE & DEFENCE ◆ BUILDING & CONSTRUCTION ◆ RETAIL PUMPS

PUMPS ◆ VALVES ◆ TURBINES ◆ TURNKEY PROJECTS

# DBxe

End Suction Pump

**X**ceptional Efficiency  
**X**emplary Standard  
**X**clusive Design Engineering  
**X**pansive features  
**X**tra Material of Construction  
**X**traordinary life



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## APPLICATIONS



Process Liquids



Sprinkler



Water supply



Firefighting



Drinking water



## Technical SPECIFICATIONS

- ▶ Delivery size: 32 to 150 mm
- ▶ Capacity: Up to 550 m<sup>3</sup>/hr
- ▶ Head: Up to 100 meters
- ▶ Speed from 1450 & 2900 rpm, 1760 & 3500 rpm
- ▶ Working Pressure: 16 kg/cm<sup>2</sup> (MAWP)
- ▶ Temperature from -10° C to 90° C

**World's first pump series to meet  
European Minimum Efficiency Index norms  
(MEI  $\geq 0.7$  as per EN 16480)**



## INTRODUCING PETROTURBO ENGINEERED FOR EFFICIENT RETAIL PETROLEUM PUMPING SOLUTIONS

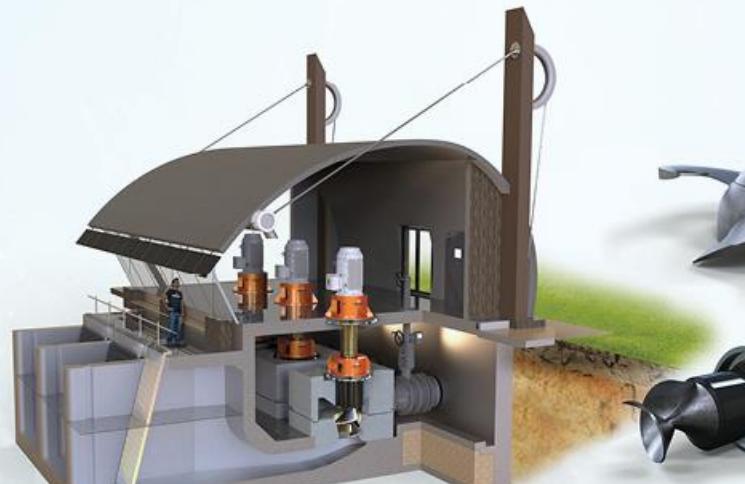
Kirloskar Brothers Limited has launched PetroTurbo, a state-of-the-art pump designed specifically for retail petroleum applications. This 100% indigenous pump in two powerful variants, the 0.75 HP and 1.5 HP combines high performance with exceptional durability.



# FISH FRIENDLY/FISH PASSABLE EXECUTION OF PUMPS

## ACVP (Axial Concrete Volute Pump)

- KBL helped the Dutch Standard Organisation to develop the NEN 8775 standard for Fish-Friendly Pumps.
- The pump type ACVP (Axial Concrete Volute Pump) is a vertical dry pit pump, single stage with volute pump casing of pre-fabricated concrete material.



### APPLICATIONS:

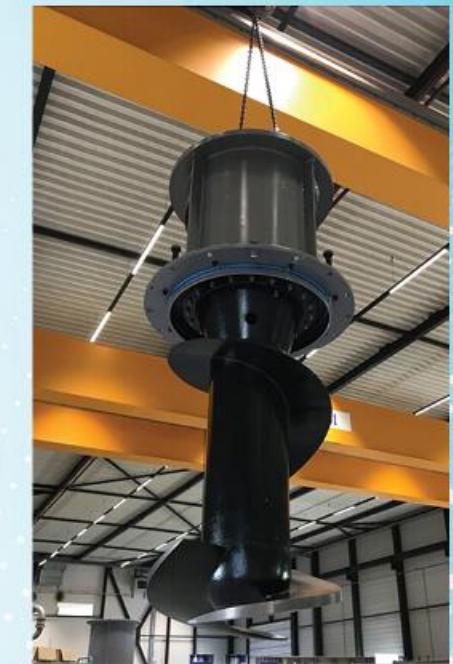
- Flood Control
- Drainage or Irrigation Pumps

### SPECIFICATIONS:

- Delivery Size Up to 2500mm
- Capacity Up to 150000m<sup>3</sup>/hr
- Head Up to 11m
- Suitable for Liquid Temperature: Up to 50°C
- Sealing Arrangement: Packed Gland



Fish passable version ACVP 85



# KIRLOSKAR GFP SERIES END SUCTION SLURRY PUMP FOR FLUE GAS DESULPHURISATION (FGD) APPLICATIONS

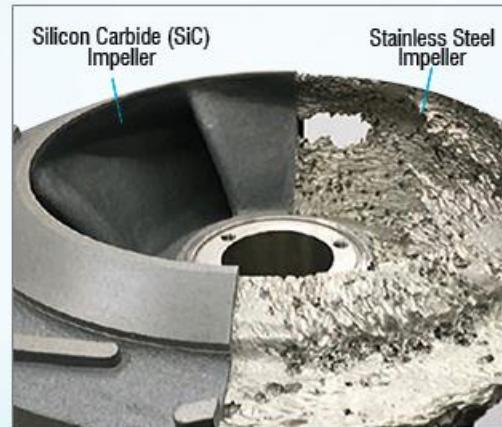


**Delivery  
Size:**  
600 to  
1200 mm

**Head  
Range:**  
Up to  
30 m

**Flow  
Range:**  
4000 to  
20000 m<sup>3</sup>/hr

**Speed:**  
300 to  
600 RPM



Comparison of pump parts made of  
Stainless Steel and Silicon Carbide material  
under identical operating condition.



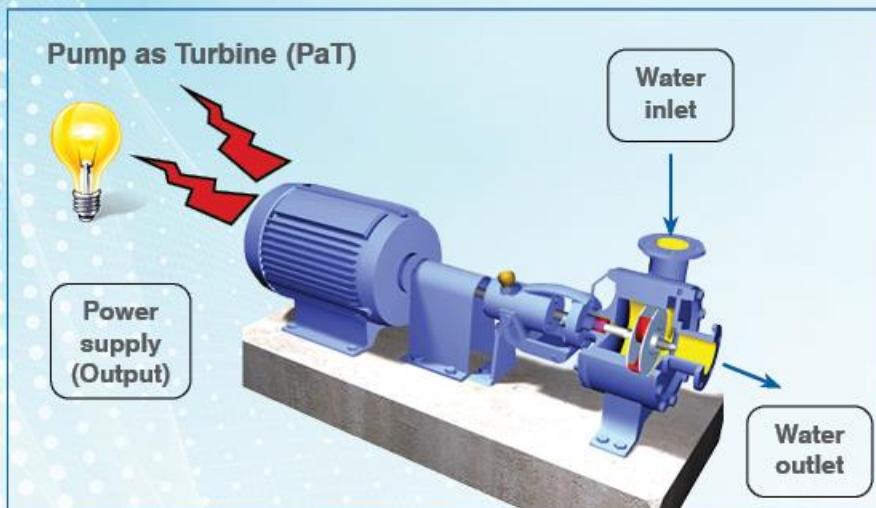
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## Material:

- Delivery Casing/Casing Cover:  
Cast Steel ASTM A 216/216M WCB + SiC Coating
- Impeller/Suction Wear Plate: Silicon Carbide + Epoxy Resin
- Shaft: ASTM A 276 Type 431 Annealed, Duplex SS,  
Super Duplex SS
- Seal: Single Mechanical Seal with SiC-SiC Faces

*\*Impeller and wear plate also available in hardened duplex stainless steel on request*

## PICO - MICRO HYDRO POWER GENERATOR



Working of PAT (pump as turbine)

### Some of the potential applications of Pump as Turbine (PAT)

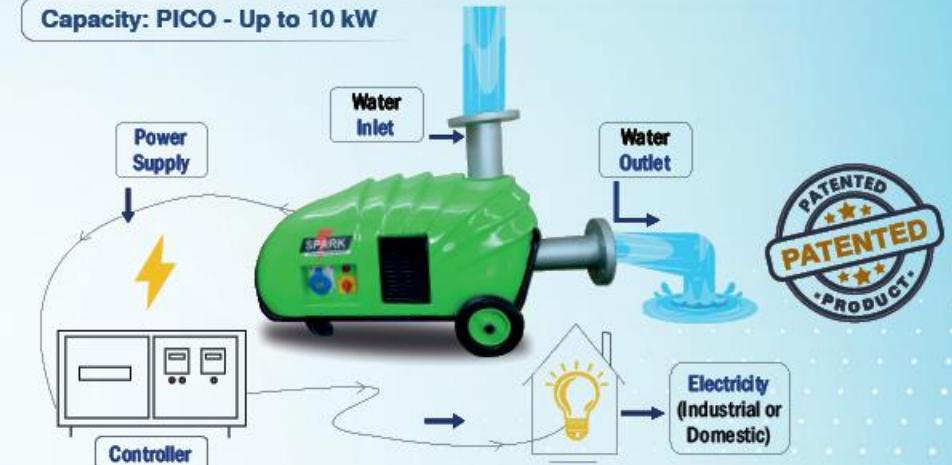
- Domestic Water supply systems
- Extraction of hydro energy from natural resources
- Industrial Application
- Hydro Power Plants:

### Product Unique Features

- Efficient models, proven design and robust performance
- Strong sales and service network
- In-house manufacturing and robust testing facility
- Efficient post warranty service
- Smart ELC Panel offered with remote monitoring option
- Industry 4.0 (Clouds Data Storage)

## PICO - MICRO HYDRO POWER GENERATOR

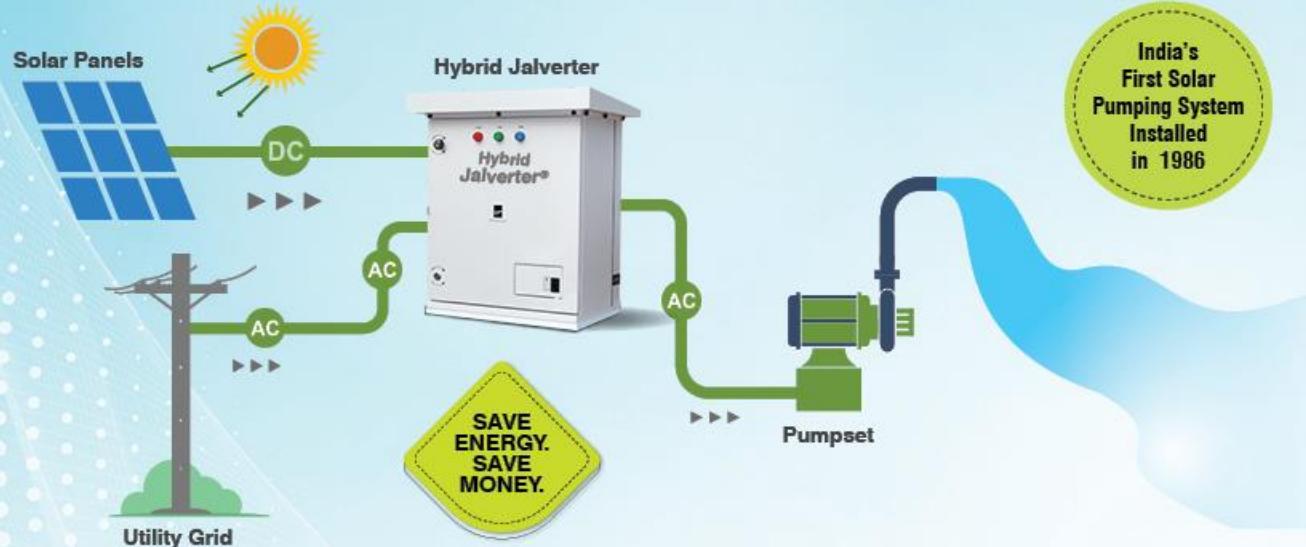
Capacity: PICO - Up to 10 kW



### FEATURES AND BENEFITS

 <b>Low Maintenance</b>	 <b>Easy Installation</b>	 <b>Portable Power Supply System</b>	 <b>Compact Design</b>
 <b>Standard Spare Parts</b>	 <b>Zero Operating Cost</b>	 <b>Remote Monitoring system</b>	 <b>Industry 4.0</b>

# KIRLOSKAR SOLAR HYBRID PUMPING SYSTEM



Manufacturing Pumps Since 1926  
A Century Strong, Infinite Motion.



Enriching Lives

Comprehensive standard and customised pump designs for the need of city, nagarparishad and water supply applications; tailored specifically for various pump types such as Surface Monoblock Pump, Openwell Submersible Pump, Borewell Submersible Pump, Horizontal Pumps, Split Case Pumps, Multistage Pumps and Vertical Turbine Pumps up to 100 hp.

**100% indigenous design and manufacturing Solar powered pump controllers and Jalverter with 25 years of track record**

## FEATURES AND BENEFITS



Power saving hybrid technology



Auto start and stop facility



Remote monitoring facility (on/off)



Connected with wide range of pumpsets



IP65 Jalverter



Wide range of MNRE/BIS/BEE approved models



Value for money and better payback



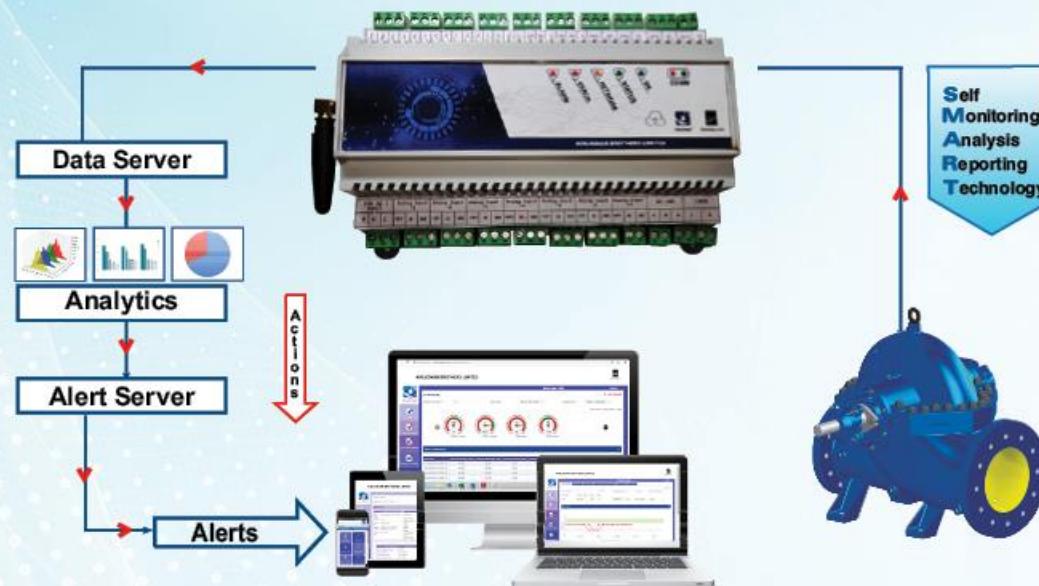
Wide sales and service network

## KIRLOSMART AND KIRLOSMART FIRE

Cloud-based remote pump monitoring and predictive maintenance solution



### HOW DOES KIRLOSMART WORK?



### FEATURES AND BENEFITS

- Remote Monitoring
- Historical Data/Trends
- Alarms & Warnings
- System Status

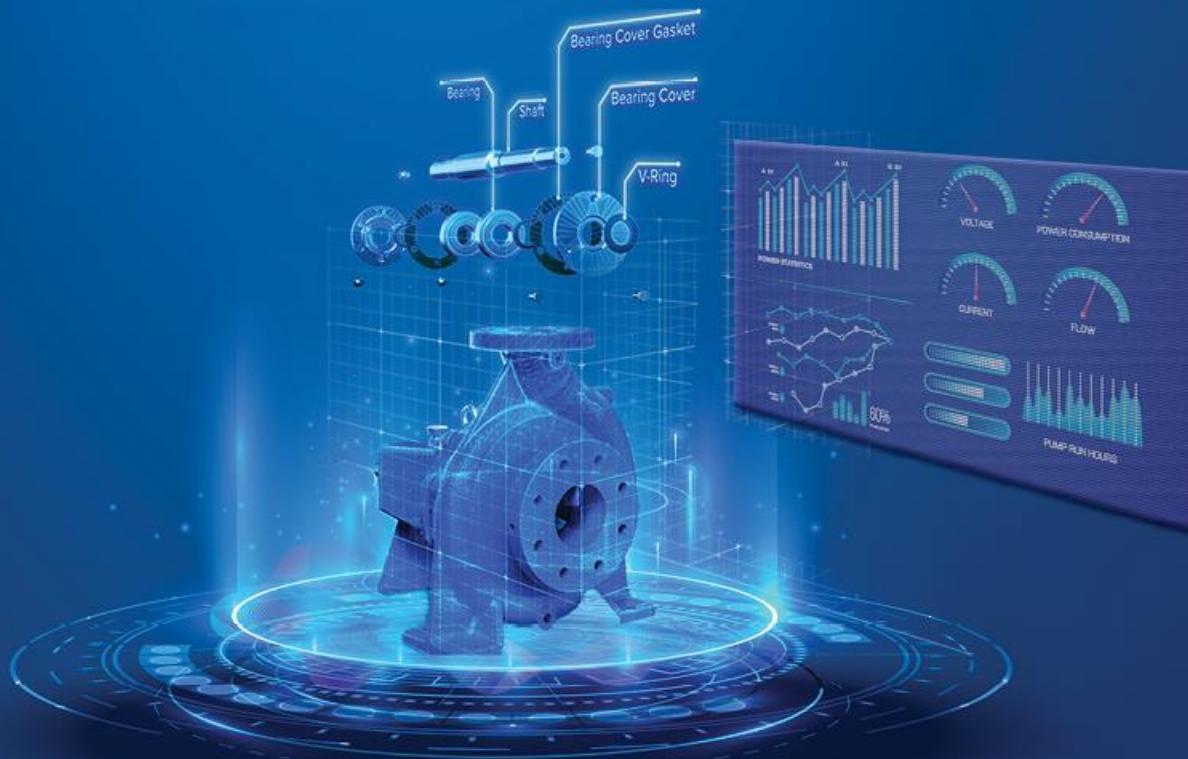


Enriching Lives



# AUGMENTED REALITY (AR): BUILDING THE FUTURE WE ENVISION

Augmented reality is a highly visual, interactive method of overlaying digital content and information onto the physical world as if they're there with you, in your own space.



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A Century Strong. Infinite Motion.



Enriching Lives

## PURPOSE OF AUGMENTED REALITY

Empowering service engineers with relevant information and to increase productivity, improve knowledge transfer, reduce service costs.

## BENEFITS

- 3D animated step-by-step guided repair instructions
- Better information delivery
- Modernized training methods and faster knowledge transfer
- First time right quick complaint resolution
- Enhanced customer experiences

# AUGMENTED REALITY (AR): BUILDING THE FUTURE WE ENVISION

Augmented reality is a highly visual, interactive method of overlaying digital content and information onto the physical world as if they're there with you, in your own space.

## USE-CASES:



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# CORPORATE SOCIAL RESPONSIBILITY

KBL conducts an array of activities and campaigns throughout the year. Primarily, the company focuses on three areas for its CSR contributions: Education, Healthcare and Environment, through Vikas Charitable Trust and Sou. Radhabai Trust.



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## Our Initiatives



Hospital



Water, Sanitation and Hygiene Program



Thailand Cave Rescue Operation



The Bus Project



Kerala Flood Relief Operation



Wildlife Rescue Vehicle for RESQ Charitable Trust

# CORPORATE SOCIAL RESPONSIBILITY

## KBL Supports RESQ in Safeguarding Wildlife and Promoting Coexistence

Kirloskar Brothers Limited (KBL) demonstrated its commitment to wildlife conservation and animal welfare by donating a specialised wildlife animal rescue vehicle to RESQ Charitable Trust. Established in 2007 and based in Pune, India, RESQ has been instrumental in rescuing and rehabilitating animals across diverse ecosystems. The vehicle provided by KBL supports RESQ's mission to respond swiftly to emergencies, facilitating timely rescue operations and enhancing their capacity to safeguard wildlife.

KBL is committed to promoting coexistence between humans and wildlife and fostering conservation initiatives.



Enriching Lives



Enriching Lives

# KIRLOSKAR BROTHERS LIMITED

Established 1888

A Kirloskar Group Company

## OUR COMPANIES



BRAYBAR PUMPS (PTY) LTD  
Republic of South Africa



KARAD PROJECTS AND MOTORS LIMITED  
India



KIRLOSKAR BROTHERS (THAILAND) LIMITED  
Thailand



KIRLOSKAR CORROCOAT PRIVATE LIMITED  
India



KIRLOSKAR EBARA PUMPS LIMITED  
India



RODELTA PUMPS INTERNATIONAL B.V.  
The Netherlands



SPP PUMPS LIMITED  
United Kingdom



SYNCROFLO, INC.  
U.S.A.