





## A foundation, strong & sound

The foundation of Shakti Pumps (India) Ltd. was laid in 1982. From a humble beginning, we have gone from strength to strength to become India's largest manufacturer of submersible pumps, motors & solar controllers today. An ISO 9001-2015, ISO 14001:2015 & BS OHSAS 18001:2007 company, our cutting-edge manufacturing facility with an installed capacity of 5,00,000 pumps per annum is located in Central India at Pithampur (M.P.).



## Quality, a way of life at Shakti.

We accord paramount importance to quality. Be it practices, procedures or people, each and every aspect of our company, comes together to ensure that customers get products and services of the highest quality.

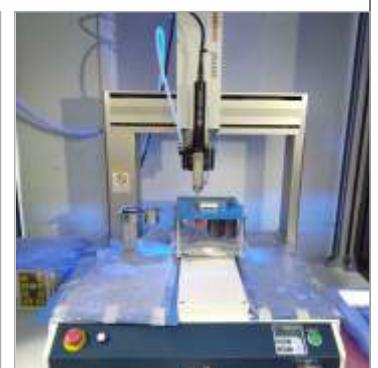
Our quality control and testing labs are amongst the most advanced set-ups in the country - enabling us to meet international quality standards consistently.



## Our technology, our strength.

We employ the best-of-world technology to manufacture our products. Our state-of-the-art plant has cutting-edge Japanese and European machinery. The use of robots ensures precision of the highest level.

Ultra-modern CNC machines, stamping machines, cathode electrode deposition plant, etc. speak volumes about our technological strength.





**SOLAR DC SUBMERSIBLE PUMPS**



Head Max. : 300 m.  
Flow Max. : 240 m<sup>3</sup>/h.  
Power Range: 900 to 55000 watt

**SOLAR DC SURFACE PUMPS**



Head Max. : 50 m.  
Flow Max. : 140 m<sup>3</sup>/h.  
Power Range: 300 to 24000 watt

**POSITIVE DISPLACEMENT PUMPS**



Head Max. :250m  
Flow Max. : 150 LPM  
Power Range : 500 - 4800 Watt

**SCR, SCRN HIGH HEAD PRESSURE BOOSTER**



Head Max. : 475 m.  
Flow Max. : 150 m<sup>3</sup>/h.  
Power Max.: 75 kW.

**PRESSURE BOOSTER SCM SERIES**



Head Max. : 130 m.  
Flow Max. : 30 m<sup>3</sup>/h.  
Power Range : 0.5 HP to 10 HP

**SSDM PUMP**



Head Max. : 285m  
Flow Max. : 350 LPM  
Power Range: 0.5HP to 5.5HP

**OPENWELL SHOS CA/SA SERIES**



Head Max. : 94 m.  
Flow Max. : 158 m<sup>3</sup>/h.  
Power Range: 2 HP to 20 HP

**DRIP IRRIGATION (PLAIN DRIP)**



Max. Working Pressure : 4 kg/cm<sup>2</sup>  
Size : 12mm, 16mm, 20mm, 32 mm  
Thickness : ISI class I and class II  
Coil Length : 100m and 300 m

**DRIP IRRIGATION (ROUND DRIP)**



Max. Working Pressure : 2.5 kg/cm<sup>2</sup>  
Discharge : 2 LPH & 4 LPH  
Sizes : 12 mm, 16 mm, 20 mm  
Thickness : IS I Class I, II & Class III  
Dripper Spacing : 30 cm to 150 cm  
Filtration required : 130 micron  
Coil Length : 300m,500m & 100m

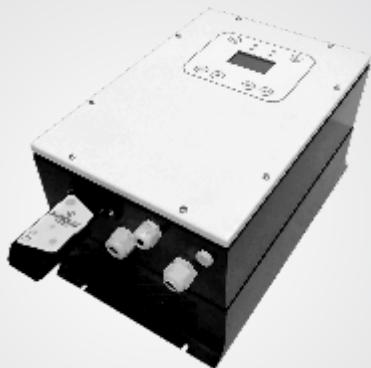
**DRIP IRRIGATION (FLAT DRIP)**



Max. Working Pressure : 2.5 kg/cm<sup>2</sup>  
Discharge : 1 LPH, 2 LPH & 4 LPH  
Sizes : 12 mm, 16 mm, 20 mm  
Thickness : 14 MIL (Safer), IS Class I, II & Class III  
Dripper Spacing : 30 cm to 150 cm  
Filtration required : 130 micron



#### NANDI UNIVERSAL DRIVE



- 10 HP to 100 HP
- 25 Amp to 100 Amp

Suitable for HVAC system, conveyor belt, Industrial fan and Solar pump.

#### SOLAR SIMHA DRIVE



- 0.75 HP to 10 HP
- 6 Amp to 20 Amp

Suitable for solar pumping, Industrial drive HVAC and SPM system.

#### ELITE SOFT STARTER



- 15 HP to 35 HP
- 25 Amp to 35 Amp

Suitable for Softly start and stop agricultural and industrial three phase IM motors.

#### SHAKTI RMS DONGLE



IOT Solution

Suitable for Softly remote monitoring & control.

#### KALPAVRIKSHA HYBRID INVERTER



- 3 HP to 10 HP
- 3 kW to 10 kW ( Grid Tie (3 Phase)

Suitable to run pump motor set for agriculture feed extra power to grid for saving money to farmers / users.

#### KALPAVRIKSHA (USPC) UNIVERSAL SOLAR PUMP CONTROLLER



- 3 HP to 10 HP
- 3 kW to 10 kW ( VFD - 3 Phase)

Suitable for Agrarian application such as pump, thresher, chaff, cutter & aata chakki.

#### KALPAVRIKSHA GRID TIE INVERTER



- 3 kW to 10 kW (VFD - 3 Phase)

Suitable for rooftop solar installation, grid tie in domestic as well as commercial establishments.

#### DU DT FILTER



- 10 HP to 100 HP
- 25 Amp to 150 Amp

Suitable for various motors for solar pumps and other general application where cable length is more than 70 m.

#### SUN SHAKTI HYBRID INVERTER / GRID TIE INVERTER



- 1 KVA to 6 KVA (1Phase)
- Hybrid / Grid tie inverter

Suitable for domestic, small & big commercial establishment.

#### A1 SMART STARTER



- 0.5 HP to 150 HP (1 Phase)
- 0.5 HP to 15 HP (3 Phase)

Suitable for 1 Phase / 3 Phase IM.



## RESEARCH AND DEVELOPMENT

Recognized and Approved in-house R&D by



भारत सरकार  
विज्ञान और प्रौद्योगिकी मंत्रालय  
विज्ञान और प्रौद्योगिकी मिनिस्टरी

GOVERNMENT OF INDIA  
Ministry of Science and Technology  
Department of Science and Technology  
Technology Bhawan, New Mehrauli Road  
New Delhi - 110016

More than 100 engineers including PhD, M. Techs and Bachelors from premier institutes of India are working continuously in the development and enhancement of electronics/power electronic products

Dedicated team for IoT, Mobile Apps and Server based control of our products

World class equipments and facilities dedicated to R&D

Collaboration project with Govt. of India in form of Uchchatar Avishkar Yojana (Shakti Pumps + IITD + MHRD + Ministry of Power), PM fellowship program etc. wherein academia and industry collaboration for assured better future.

R&D Collaborations with IISc Bangalore, IIT Delhi, SGSITS Indore, IIEST Shibpur etc

32+ patents and several research papers in journals and conferences

Approximately 5 % of revenue investment in R&D



# SIMHA 2.0 UNIVERSAL DRIVE

Leading a New Start

Certification : IEC 61683, IEC 600682-2-(1,2,14,30),  
IS 16221-2 (IEC 62109-2), IEC 60529, EN 50530

## Applications

- All in one solution for driving of various motors like AC-IM, PMSM, IPMSM for solar pumps or any other general applications.

## Features

- Supports wide varieties of motors • Independent data logging facility • Dust-proof & rain-proof IP 65 design • Wide temperature range • Plug & play shock-proof connectors • Graphical LCD for easy operation • Powered with remote monitoring system

## Power Rating

- 0.75 to 10 HP (3 Phase)
- 6 AMP to 20 AMP



## FEATURES

- |                                   |                                      |                                    |                                       |  |
|-----------------------------------|--------------------------------------|------------------------------------|---------------------------------------|--|
|                                   |                                      |                                    |                                       |  |
| SUPPORTS WIDE VARIETIES OF MOTORS | DUST-PROOF & RAIN-PROOF IP 64 DESIGN | PLUG & PLAY SHOCK-PROOF CONNECTORS | POWERED WITH REMOTE MONITORING SYSTEM |  |
|                                   |                                      |                                    |                                       |  |
| GRAPHICAL LCD FOR EASY OPERATION  | INBUILT MOBILE CHARGER PORT          | INDEPENDENT DATA LOGGING FACILITY  | WIDE TEMPERATURE RANGE                |  |

# ELITE SOFT STARTER

Patents Filed  
IP No. 201721019554A, 201821013344 & 201821013345

## Applications

- To softly start and softly stop agricultural and industrial three phase AC-IM and Shakti's S4RM Motors.

## Features

- Softly start & softly stop the motor • Ensures longer life of the motor • Covers 3 phase ac-im & shakti's S4RM motor • User friendly display • Better protection • GPRS enabled

## Power Rating

- 15 HP to 70 HP
- 28 to 110 AMP



## FEATURES

- |                                      |                                  |                                    |
|--------------------------------------|----------------------------------|------------------------------------|
|                                      |                                  |                                    |
| SOFTLY START & SOFTLY STOP THE MOTOR | ENSURES LONGER LIFE OF THE MOTOR | STRESS FREE OPERATION OF THE MOTOR |
|                                      |                                  | BETTER PROTECTION                  |
| USER FRIENDLY DISPLAY                | GPRS ENABLED                     |                                    |

# NANDI UNIVERSAL DRIVE

## Applications

- All in one solution for driving of various motors like AC-IM, PMSM, IPMSM for solar pumps or any other general applications.

## Features

- Supports wide varieties of motors • Independent data logging facility • Dust-proof & rain-proof IP 65 design • Wide temperature range • Graphical LCD for easy operation • Inbuilt mobile charger port • Powered with remote monitoring system

## Power Rating

- 10 to 100 HP
- 25 AMP to 150 AMP



## FEATURES

- |                                   |                               |                                       |                                  |
|-----------------------------------|-------------------------------|---------------------------------------|----------------------------------|
|                                   |                               |                                       |                                  |
| SUPPORTS WIDE VARIETIES OF MOTORS | DUST & RAIN PROOF IP65 DESIGN | POWERED WITH REMOTE MONITORING SYSTEM | GRAPHICAL LCD FOR EASY OPERATION |
|                                   |                               |                                       |                                  |
| INDEPENDENT DATA LOGGING FACILITY | WIDE TEMPERATURE RANGE        | MOBILE APP CONTROL                    |                                  |

\* Considering continuous product development the information/performance/specifications and illustrations disseminated in this catalogue are subject to change without notice.

# SUN SHAKTI HYBRID INVERTER / GRID TIE INVERTER

1-6 kW | SINGLE PHASE | 2 MPPT

## Applications

- Domestic, small and big commercial establishments: Off-grid inverter / Grid-tie Inverter

## Features

- Works with multiple energy sources
- Acts as a solar ups
- In-built PV insulation protection
- Single phase hybrid inverter
- Fast charging
- Supports both vrla & liion batteries
- Feeds extra energy to the grid

## Power Rating

- 1 - 6 kVA (1 Phase)



## FEATURES



DUST & RAIN PROOF  
IP 65 DESIGN



USER FRIENDLY  
LCD DISPLAY



INTELLIGENT DIGITAL  
CONTROL



POWERED WITH REMOTE  
MONITORING SYSTEM



GPRS/WIFI ENABLED &  
BLUETOOTH CONNECTIVITY

# A1 SMART STARTER

## Applications

Suitable for 1-Phase / 3-Phase AC induction motor.

## Features

- Energy Metering
- Ensures longer life of the motor
- Better protection
- GPRS & Blue tooth Enabled
- User Friendly Display

## Power Rating

- 0.5 HP to 15 HP (1 Phase)
- 0.5 HP to 15 HP (3 Phase)

## AMP Rating

- 1 to 30 AMP



## FEATURES



ENSURES LONGER  
LIFE OF THE MOTOR



BETTER  
PROTECTION



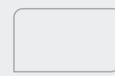
INTELLIGENT ELECTRONIC  
FUNCTIONALITY



STRESS FREE  
OPERATION OF THE MOTOR



USER FRIENDLY  
DISPLAY



GPRS ENABLED &  
BLUETOOTH CONNECTIVITY



REMOTE  
CONTROL



INBUILT AUTO  
SWITCH

# DU DT FILTER

## Applications

- All in one solution for driving of various motors like AC-IM, PMSM, IPMSM for solar pumps or any other general applications.

## Features

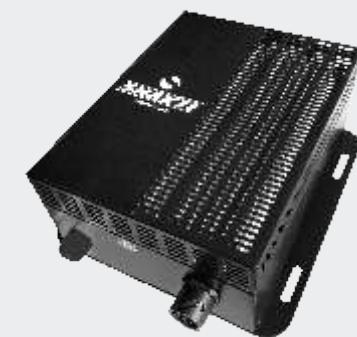
- Supports wide varieties of motors
- Independent data logging facility
- Dust-proof & rain-proof IP 65 design
- Wide temperature range
- Graphical LCD for easy operation
- Inbuilt mobile charger port
- Powered with remote monitoring system

## Power Rating

- 10 to 100 HP

## AMP Rating

- 25 AMP to 150 AMP



## FEATURES



PLUG & PLAY  
SHOCK-PROOF  
CONNECTORS



DUST-PROOF &  
RAIN-PROOF  
IP 54 DESIGN



SUPPORTS WIDE  
VARIETIES  
OF DRIVES



WIDE  
TEMPERATURE  
RANGE

## KALPAVRIKSHA (USPC) UNIVERSAL SOLAR PUMP CONTROLLER

## KALPAVRIKSHA HYBRID INVERTER

## KALPAVRIKSHA GRID TIE INVERTER

3-10 kW | 3 PHASE | 2 MPPT

### Applications

- Runs various agrarian applications from solar such as pump, thresher, chaff cutter, atta chakki etc.
- Increases farmer's income

### Features

- Multiple applications run from solar
- Supports a variety of solar motor pump sets
- Shock proof connectors
- Inbuilt protection
- Remote monitoring & control
- Mobile charging port
- Supports a variety of solar pumps
- Agrarian application support
- Intelligent digital control
- Powered with remote monitoring system
- GPRS enabled & bluetooth connectivity
- Shock-proof connections
- Dust & rain proof IP 65 design

### Power Rating

- 3 HP to 10 HP VFD (3 Phase)



### FEATURES

DUST & RAIN PROOF IP 65 DESIGN	SUPPORTS A VARIETY OF SOLAR PUMPS	USER FRIENDLY LCD DISPLAY	AGRARIAN APPLICATION SUPPORT
SHOCK-PROOF CONNECTIONS	INTELLIGENT DIGITAL CONTROL	POWERED WITH REMOTE MONITORING SYSTEM	GPRS ENABLED & BLUETOOTH CONNECTIVITY

### Applications

- Runs pump for agriculture
- Feeds extra power to the grid
- Increases farmer's income

### Features

- Pump runs from solar
- Pump operation without grid is also possible
- Works with ACIM, PMSM & IPMSM
- Simultaneous operation of VFD & inverter
- Delivers additional power to grid
- Maximum utilization of energy

### Power Rating

- 3 HP to 10 HP VFD (3 Phase)
- 3 kW to 10 kW Grid Tie (3 Phase)



### FEATURES

DUST & RAIN PROOF IP 65 DESIGN	POWERED WITH REMOTE MONITORING SYSTEM	INTELLIGENT DIGITAL CONTROL	GPRS ENABLED & BLUETOOTH CONNECTIVITY
PLUG & PLAY SHOCK-PROOF CONNECTIONS	SUPPORTS WIDE VARIETIES OF MOTORS	FEEDS EXTRA POWER TO THE GRID	INCREASE FARMER'S INCOME

### Applications

- Rooftop solar installation & grid-tie inverter in domestic small & big commercial establishments.

### Features

- Plug & play shock proof unique connections
- In-built PV insulation protection
- Feeds power to the grid
- Simple installation & operation
- Suitable for outdoor installation
- In-built surge protection
- Dust & rainproof IP 65 design
- User friendly LCD display
- Intelligent digital control
- Powered with remote monitoring system
- GPRS/WiFi enabled & bluetooth connectivity

### Power Rating

- 3 kW to 10 kW (3 Phase)



### FEATURES

DUST & RAIN PROOF IP 65 DESIGN	INTELLIGENT DIGITAL CONTROL	POWERED WITH REMOTE MONITORING SYSTEM	GPRS ENABLED & BLUETOOTH CONNECTIVITY
USER FRIENDLY LCD DISPLAY		INBUILT MOBILE CHARGING PORT	

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## SHAKTI RMS DONGLE



### Benefits

- Extraction of offline data
- Plug & Play connection
- Compatible up-to IP65 products
- Works on GSM/ WiFi

## SOLAR PSUBMERSIBLE PUMPS

### POSITIVE DISPLACEMENT SERIES

#### Applications

- Ground water lowering
- Irrigation systems
- Industrial Application
- Drip irrigation, Sprinkler
- Tank / Cistern filling
- Wildlife Refuge

#### Features

- High flow system for faster tank fill and significant water output.
- Proven motor and pump technology for long-term reliability
- Clean and pollution free energy, Eco-friendly.
- Ideal for remote areas, where electricity is not available or availability is capital intensive.
- Suitable for day time irrigation, Continuous supply for 6-8 hours in a day.
- Soft start feature prevents water hammer and increases system life
- Easy to operate.
- Simple installation and maintenance free.

#### Controller Features

An easy to use interface is provided to enhance configurability and enable remote system monitoring.

- Supports wide varieties of motors
- Graphical LCD for easy operation
- Powered with remote monitoring system

#### Protection Features

- Dry run Protection.
- Overload Protection
- Open Circuit Protection
- Short Circuit Protection
- Over Heat

#### Technical Specification

Head Max : 250 m.  
Flow Max : 150 LPM  
Power Range : 500 to 4800 watt



# SOLAR SUBMERSIBLE PUMPS

## SOLAR DC SUBMERSIBLE SERIES

### Applications

- Ground water lowering
- Irrigation systems
- Industrial Application
- Drip irrigation, Sprinkler
- Tank / Cistern filling
- Wildlife Refuge

### Features

- High flow system for faster tank fill and significant water output.
- Proven motor and pump technology for long-term reliability
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- Ideal for remote areas, where electricity is not available or availability is capital intensive.
- Suitable for day time irrigation, Continuous supply for 6-8 hours in a day.
- Soft start feature prevents water hammer and increases system life Easy to operate.
- Simple installation and maintenance free.

### Controller Features

An easy to use interface is provided to enhance configurability and enable remote system monitoring.

- Supports wide varieties of motors
- Graphical Lcd for easy operation
- Powered with remote monitoring system

### Protection Features

- Dry run Protection.
- Overload Protection
- Open Circuit Protection
- Short Circuit Protection
- Over Heat

### Technical Specification

Head Max : 300 m.  
Flow Max : 240 m<sup>3</sup>/h.  
Power Range: 900 to 55000 watt



## SOLAR DC SURFACE SERIES

### Applications

- Ground water lowering
- Irrigation systems
- Industrial Application
- Drip irrigation, Sprinkler
- Tank / Cistern filling
- Wildlife Refuge

### Features

- High flow system for faster tank fill and significant water output.
- Proven motor and pump technology for long-term reliability
- Clean and pollution free energy, Eco-friendly.
- Ideal for remote areas, where electricity is not available or availability is capital intensive.
- Suitable for day time irrigation, Continuous supply for 6-8 hours in a day.
- Soft start feature prevents water hammer and increases system life Easy to operate.
- Simple installation and maintenance free.

### Controller Features

An easy to use interface is provided to enhance configurability and enable remote system monitoring.

- Supports wide varieties of motors
- Graphical Lcd for easy operation
- Powered with remote monitoring system

### Protection Features

- Dry run Protection.
- Overload Protection
- Open Circuit Protection
- Short Circuit Protection
- Over Heat

### Technical Specification

Head Max : 50 m.  
Flow Max : 140 m<sup>3</sup>/h.  
Power Range: 300 to 24000 watt



## FIRE PROTECTION PUMP

### Applications

- Industrial and domestic building
- Hotels and hospitals
- Power plant and hydro plant

### Features

- High efficiency
- Suitable for slightly aggressive liquids
- Reliability
- Service friendly
- Space saving

### Technical Specification

Pressure Max. : 30 Bar  
Flow Max. : 4550 LPM ( 1202 GPM)

Design Standard : NFPA 20, IS 5020, EN 12845, NAC, NBC



## SUBMERSIBLE MOTOR

## PREMIUM 100 & SUPER PREMIUM 150

### Applications

Submersible motors are suitable to couple with deepwell submersible pumps end, used for Irrigation, Domestic water supply Fountains, Industrial water supply, Pressure Boosting units, Ponds, Gardens, Sprinklers Systems and Mining

### Features

- Hermetically sealed Stator , Anti Track, Self Healing Stator Resin prevents motor burn out
- Removable " water resistant lead connector"
- Available an standardised NEMA head and shaft end
- Water lubricated radial and thrust bearings
- High efficiency electrical design low operation cost, cool running winding

### Motor Sizes

Premium 100 Motor : 0.37 to 7.5 kW  
Super Premium 150 Motor : 4 to 22 kW



## SUBMERSIBLE MOTOR

### SS 100, 150,200,250 REWINDABLE SUBMERSIBLE MOTOR

#### Applications

Submersible motors are suitable to couple with deepwell submersible pumps end, used for Irrigation, Domestic water supply Fountains, Industrial water supply, Pressure Boosting units, Ponds, Gardens, Sprinklers Systems and Mining

#### Features

- High operating efficiency
- Water cooled rewirable motor
- Can be easily dismantled & repaired
- Available an standardised NEMA head and shaft end
- Sic Shaft Seal for maximum sand protection.

#### Motor Sizes

MCIP 100 Motor	: 0.37 to 5.5 kW
SML 150 Motor	: 2.2 to 15 kW
MTSF 150, 200 & 250 Motor	: 4.0 to 185 kW



## SUBMERSIBLE PUMP

### QF V4, V6, V8, V10, V12 & V14 SERIES

#### Applications

- Ground water supply to water works
- Irrigation, Domestic water supply
- Pressure boosting units, Ponds
- Fountains, Industrial water supply
- Gardens, Sprinkler Systems and Mining

#### Features

- High operating efficiency
- Highly durable & hygienic
- Good resistance to sand
- Can be easily dismantled and repaired
- Long service life as all components are stainless steel

#### Technical Specification

Head Max. : 660 m.  
Flow Max. : 440 m<sup>3</sup>/h.  
Liquid Temp. : 0 to 60°C  
Power Range : 0.37 kW to 250 kW



## WATER FILLED SUBMERSIBLE PUMPS & MOTORS

### SSDM SERIES 50 Hz

#### Applications

- Domestic and industrial water supply
- Sprinkler and drip irrigation systems
- Farmhouses, Nurseries

#### Features

- Motor easy to repairable and rewirable
- Motor withstand wide voltage 180/240V/ 50Hz for single phase

#### Technical Specification

Head Max.	:	285 m
Flow Max.	:	350 LPM
Power Range	:	0.5 to 5.5 hp
Liquid Temp. Max	:	30 °C



### MULTISTAGE SUBMERSIBLE PUMP

### SSPO 5 SERIES 50 Hz

#### Applications

As a result of their high efficiency and reliability they are suitable for use with clean water in domestic, civil & agricultural applications such as the distribution of water in combination with pressure sets, for the irrigation of gardens and allotments and for pressure boosting, etc.

#### Features

- High Quality Of Stainless Steel Motor Body
- Build In Winding Parts
- Stainless Steel Shaft
- Stainless Steel Impeller

#### Technical Specification

Head Max.	:	78 m
Flow Max.	:	130 LPM
Power Range	:	1.0 to 2.0 hp
Liquid Temp. Max	:	30 °C



# HYDROPNEUMATIC BOOSTER SYSTEM HYPN

## Applications

Shakti Hydro SMPC Booster system are design for transfer and pressure boosting of clean water in places such as :

- Water works
- Hospitals
- Hotels
- Schools
- Industries
- Municipal corporation water supply

Depending on the applications, Shakti hydropneumatic systems comes in different configurations

- SMPC-E : fixed speed type.
- SMPC-F : variable speed systems with externally mounted single frequency drive in Shakti control panel e/w Shakti controller and HMI display.
- SMPC-S : variable speed systems with externally mounted frequency drive per pump in Shakti control panel e/w Shakti controller and HMI display (non standard).

## Features

- Over voltage Protection
- Fully automatic cascade control
- Auto On/Off as per requirement of water
- Protection against VFD failure
- Pump start / stop count

## Technical Specification

Head Max.	: 20 Bar
Flow Max.	: 360 m <sup>3</sup> / h
Power Max.	: 45 kW
Liquid Temp.	: 0 to +120 °C
Degree of Protection	: IP 55
Class of Insulation	: 'H'
Type of Duty	: S1
No. of Pumps	: 2 to 5



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## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### SCR, SCRI & SCRН SERIES

#### Applications

The pumps are suitable for liquid transfer & pressure boosting in :

- Washing systems in Industries
- HVAC
- Water supply systems
- Water treatment systems
- Fire fighting systems
- Industrial plants
- Boiler feeding systems
- Pharma plants

#### Features

- High operating efficiency
- Suitable for slightly aggressive liquids
- Dynamically Balance Mechanical Seal : Sic vs Sic / Optional
- Precise parts for hygiene
- Space saving

#### Technical Specification

Head Max.	: 320 m
Flow Max.	: 3200 LPM
Power Range	: 0.5 to 75 HP
Liquid Temp.	: -40 to +180°C, on request after +120°C
Degree of Protection	: IP 55
Class of Insulation	: 'H'
Type of Duty	: S1



## SCR, SCRН HIGH HEAD PRESSURE BOOSTER

### SCR, SCRН HIGH HEAD PRESSURE BOOSTER

#### Applications :

The SCR, SCRН high-pressure series is a multi-purpose pump Max suitable for a variety of different applications demanding reliable and cost-efficient supply.

SCR, SCRН handles a variety of liquids from potable water to industrial liquids within a very wide temperature, flow and pressure scale. Below is a list representing some general examples of applications requiring a high pressure.

#### Pressure Boosting

- Process water systems
- Washing and cleaning system in industries
- High-pressure washdown systems
- Boiler feed and condensate system

#### Water Treatment

- Ultra-filtration systems
- Reverse osmosis systems.

#### Features

- High operating efficiency
- Precise parts for hygiene
- Suitable for slightly aggressive liquids
- Space saving
- Dynamically Balance Mechanical Seal : Sic vs Sic / Optional

#### Technical Specification

Head Max.	: 475 m
Flow Max.	: 150m³ / h
Power Max.	: 75 kW
Liquid Temp.	: 0 to +120°C
Degree of Protection	: IP 55
Class of Insulation	: 'H'
Type of Duty	: S1



## IMMERSIBLE PUMPS

### SMTR SERIES

#### Applications :

- Boring                      • Turning
- Milling                      • Chilling
- Grinding                      • Part Washing
- Spark Erosion              • Condensate System
- Wire Cutting                • Pumping of cooling lubricants for machine tools

#### Features :

- Excellent hydraulic performance
- Study and compact design
- Stainless steel shaft
- Dynamically balanced rotation of all parts
- Quiet and maintenance free
- Interchangeability for easy replacement

#### Technical Specification :

Head Max.	: 330 m
Flow Max.	: 80 m <sup>3</sup> / h
Power Range	: 60 HP
Liquid Temp.	: -10 to +90 °C
Degree of Protection	: IP 55
Class of Insulation	: 'H'
Type of Duty	: S1



## SINGLE SHAFT VERTICAL MULTISTAGE PUMP

### RO SERIES

#### Applications

- Industrial & Domestic Pressure Booster
- Domestic Water Supply
- RO/DM Plant/Water Circulation
- Air Conditioning & Chiller Plant

#### Features

- Stainless Steel Impellers, Shaft and Stage casings (SS 304/SS 316)
- All single phase motors are fitted with thermal motor protector
- Strengthened cartridge seals
- Enhanced hydraulic efficiency
- Good compatibility and environment friendly
- Low noise level and low vibration level

#### Technical Specification

Head Max.	: 149 m
Flow Max.	: 4.8 m <sup>3</sup> / h
Power Range	: 0.37 to 2.2 kW
Liquid Temp.	: 0 to +90 °C
Degree of Protection	: IP 55
Class of Insulation	: 'H'
Type of Duty	: S1



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## HORIZONTAL MULTISTAGE CENTRIFUGAL PUMPS

### SH, SHI, SHN, SHNG SERIES

#### Applications

- Suitable for liquid transfer
- Small industries water supply systems
- HVAC
- Water treatment system
- Industrial plants
- Pressure boosting systems
- Domestic water supply
- Horticulture irrigation systems

#### Features

- Compact Design
- Worldwide usage
- High reliability
- Easy to service and install
- Wide performance Max
- Silent operation
- Fully stainless steel design
- Booster sets for domestic water supply
- Automatic start / stop when equipped with pressure control or pressure tank

#### Technical Specification

Head Max.	: 60 m.
Flow Max.	: 14 m <sup>3</sup> /h
Power Range	: 0.5 to 03 HP
Liquid Temp.	: 0-90°C
Degree of protection	: IP 55
Class of Insulation	: 'H'
Type of Duty	: S1



## PRESSURE BOOSTER PUMPS

### SCM SERIES

#### Applications

- Suitable for liquid transfer
- Small industrial water supply system
- Washing system
- HVAC
- Water treatment system
- Industrial plants
- Pressure boosting systems
- Domestic water supply
- Horticulture irrigation systems

#### Features

- Compact Design
- Worldwide usage
- High reliability
- Easy to service and install
- Wide performance Max
- Silent operation
- Fully stainless steel design
- Booster sets for domestic water supply
- Automatic start / stop when equipped with pressure control or pressure tank

#### Technical Specification

Head Max.	: 130 m.
Flow Max.	: 30 m <sup>3</sup> /h
Power Range	: 0.5 to 10 HP
Liquid Temp.	: 0-90°C
Degree of protection	: IP 55
Class of Insulation	: 'H'
Type of Duty	: S1



## DOMESTIC WATER PRESSURE BOOSTER PUMPS

### SJP SERIES

#### Applications

- Wide variety of water supply and transfer duties in Homes
- Used for Horticulture Irrigation
- Used for small scale service Industries
- Gardening and Hobby activities

#### Features

- Self-Priming Pump
- Stable operation even in case of air pockets in the liquid
- A plug having two different setting possibilities (open & close) for maximum discharge, maximum efficiency, etc.
- Easy installation
- Dynamically balanced rotating parts to ensure minimum vibration during running
- Replaceable wearing parts and hence longer life
- Easy maintenance and spares availability
- Automatic start/stop when equipped with Press control or pressure tank.
- Booster sets for small-scale water supply
- Silent Operation

#### Technical Specification

Position (1) if the valve is completely open

Head Max. : 30 - 10 m

Flow Max. : 14 m<sup>3</sup> / h

Position (2) if the valve is completely close

Head Max : 23 m

Flow Max : 4.5 m<sup>3</sup> / h

Power Max : 0.75 kW

Liquid Temp. : 0 to +40°C

Degree of Protection : IP 44

Class of Insulation : 'H'

Type of Duty : S1



## SPLIT CASING PUMP

### SHS SERIES

#### Application

- Fire-fighting system
- Air-conditioning circulation.
- Electric power station.
- irrigation, building, industrial water supply system.
- Liquid transpotation for water work

#### Feature

The Shakti SHS split case pump is a single stage, centrifugal volute pump with high energy efficiency and low life-cycle costs. Ease of service and long-term reliability are two of the selling features of the SHS pumps. The split case design enables removal and dismantling of the internal pump parts (bearings, wear rings, impeller, and shaft seals) without disturbing the motor or pipework. The two bearing design means less vibration and higher reliability. The separate bearing housings allow for inspection of the seals, sleeves and bearings without removing the top half of the casing.

The double-suction design reduces axial forces by directing flow into both sides of the impeller. The double-volute design, available on most models, reduces the radial load and minimizes noise and vibration. Shaft sleeves are used to protect the shaft from corrosion and wear, thus extending the overall life of the shaft and the pump.

- The pumps are non-self-priming, centrifugal volute pumps with radial inlet and radial outlet ports and horizontal shaft.
- The rotating assembly is dynamically balanced.
- Impellers are hydraulically balanced.

#### Technical Specification

Shakti SHS pumps are available with 2, 4, 6 and 8 pole motors.

Head Max.	:	65 m.
Flow Max.	:	266 m <sup>3</sup> /h.
Power Range	:	30 kW.
Liquid Temp.	:	<105°C.



## SUCTION VERTICAL CENTRIFUGAL PUMP STP INLINE (SINGLE STAGE)

### STP SERIES

#### Application

1. STP series vertical centrifugal pump is used to transport pure-water and other liquids, the physical properties of which are similar to those of pure-water, in industrial and cities water supply and drainage, high buildings booster water supply, gardens irrigation, fire-fighting booster, remote water supply, warming systems, circular booster of cold & hot water in bath rooms as well as in competitions of equipments, the operation medium temperature is below 80 .

#### Features

1. Compact structure, small volume, beautiful outlook. The lower barycenter of the vertical structure which coincides with the center of the pump feet strengthens the stability of running and the duration.
2. Easy to mount. Because of the same apertures of both inlet and outlet which also locate on the same central line, the pump can be directly mounted on any part of the pipeline just as a valve. Mounting feet are equipped with the pump so that it can be stably mounted.
3. Stable running, low noise, high concentricity of components. Bearings of low noise are used for the motor, the impellers are of best dynamic and static balance, no vibration at running and the environment thus being improved.
4. No leakage. The shaft is mechanically sealed with carbide alloy wearable material, settling the serious leakage of the filling seal of a centrifugal pump, extending the duration and ensuring the operation place clean and tidy.
5. Easy to maintain. Not necessary to remove the pipeline for check-out and maintenance, only to take out the nuts on the pump lid, the motor and the driving components.

#### Technical Specification

Head Max.	:	39 m.
Flow Max.	:	200 m <sup>3</sup> /h.
Power Range	:	30 kW.
Liquid Temp.	:	<80°C.



## END-SUCTION LONG COUPLED PUMPS

### SNK SERIES

#### Applications

- The end suction pumps are especially suitable for water distribution in large scale irrigation system.
- Industrial liquid transfer
- HVAC
- Fire fighting system

#### Features

- The pumps have back pull out design enabling the removal of the motor without dismantling the pump.
- The pump can be driven by diesel engine, DG set and TEFC motor
- Dynamically balanced mechanical seal C vs. SiC / Optional.

#### Technical Specification

Head Max.	: 168 m
Flow Max.	: 300 m <sup>3</sup> / h
Power Range	: 2.0 to 220 hp
Liquid Temp. Max	: 120°C
Degree of Protection	: IP 55 / 54
Class of Insulation	: 'H'
Type of Duty	: S1



## END-SUCTION CLOSE COUPLED PUMPS

### SNB SERIES

#### Applications

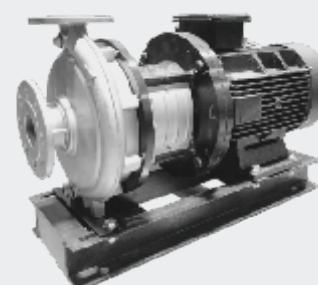
- The end suction pumps are especially suitable for water distribution in large scale irrigation system.
- Industrial liquid transfer
- HVAC
- Fire fighting system

#### Features

- The pumps have back pull out design enabling the removal of the motor without dismantling the pump.
- Dynamically balanced mechanical seal C vs. SiC / Optional.

#### Technical Specification

Head Max.	: 96 m
Flow Max.	: 192 m <sup>3</sup> / h
Power Range	: 0.37 HP to 50 HP
Liquid Temp. Max	: 120°C
Degree of Protection	: IP 55 / 54
Class of Insulation	: 'H'
Type of Duty	: S1



## END-SUCTION SINGLE SHAFT PUMPS

### SMB SERIES

#### Applications

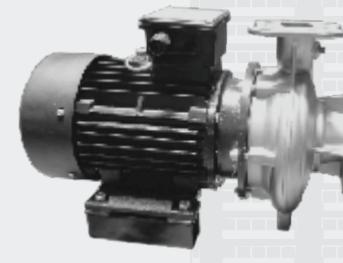
- The end suction pumps are especially suitable for water distribution in large scale irrigation system.
- Industrial liquid transfer
- HVAC
- Fire fighting system

#### Features

- Ultra modern design
- Superior design material as well as manufacturing process assure longer life

#### Technical Specification

Head Max.	: 78 m
Flow Max.	: 126 m <sup>3</sup> / h
Power Range	: 0.5 HP to 15 HP
Liquid Temp. Max	: 120°C
Degree of Protection	: IP 55 / 54
Class of Insulation	: 'H'
Type of Duty	: S1



## OPEN-WELL PUMPS

### SHOS CA/SA SERIES

#### Applications

- Rural and Urban water installations
- Water supplies for high rise buildings
- Water circulating system for lawn & gardens
- Agriculture lift sprinkler and drip irrigation
- Decorative water fountains

#### Features

- Ultra modern design
- Superior design materials and manufacturing processes assure a longer life
- Easy installation
- Silent vibration free running

#### Technical Specification

Head Max.	: 94 m
Flow Max.	: 156 m <sup>3</sup> / h
Power Range	: 3 HP to 20 HP
Liquid Temp. Max	: 33°C
Degree of Protection	: IP 58
Type of Duty	: S1



\* Considering continuous product development the information/performance/specifications and illustrations disseminated in this catalogue are subject to change without notice.

## OPEN-WELL PUMPS

## SELF-PRIMING PUMPS

## PERIPHERAL PUMPS

### SOMB SERIES

#### Applications

- Rural and Urban water installations
- Water supplies for high rise buildings
- Water circulating system for lawn & gardens
- Agriculture lift sprinkler and drip irrigation
- Decorative water fountains

#### Features

- Ultra modern design
- Superior design materials and manufacturing processes assure a longer life
- Easy installation
- Silent vibration free running

#### Technical Specifications

Head Max.	:	33 m.
Flow Max.	:	22 m <sup>3</sup> /h
Power Range	:	0.5 to 2.0 hp
Liquid Temp. Max	:	33°C
Degree of Protection	:	IP 58
Type of Duty	:	S1



### CRP SERIES

#### Applications

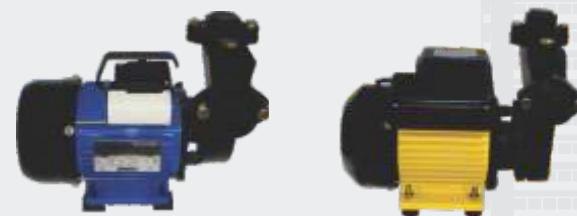
- Domestic water supply
- Water transfer applications
- Home pressure boosting
- Construction site
- Garden / fountains

#### Features:-

- High quality die cast aluminum motor body
- Anti corrosion coated cast iron parts
- In built thermal overload protection
- SS shaft
- Bronze impeller
- Double sealed ball bearings

#### Technical Specifications

Head Max.	:	60 m.
Flow Max.	:	3.5 m <sup>3</sup> /h
Power Range	:	0.5 to 1.0 hp
Liquid Temp. Max	:	Max. 33°C
Degree of Protection	:	IP 58
Class of Insulation	:	B
Type of Duty	:	S1



### NSP SERIES

#### Applications

- Residential
- Washing system
- Gardens
- Civil applications

#### Features:-

- Excellent hydraulic performance
- Sturdy and compact
- Good suction lift characteristics
- Brass insert is provided in the pump casing
- Dynamic balanced rotating parts
- Quiet and maintenance free

#### Technical Specifications

Head Max.	:	46 m.
Flow Max.	:	3.0 m <sup>3</sup> /h
Power Range	:	0.5 to 1.0 hp
Liquid Temp. Max	:	40°C
Degree of protection	:	IP 58
Class of insulation	:	F
Type of Duty	:	S1
Max. Suction lift	:	8m



# WASTE WATER PUMPS

## SVX SERIES

### Applications

- Draining flooded water from the basement / car parking
- Drainage water / car washes / empty Swimming pools
- Municipal Corporation Drainage Line
- Municipal Corporation Drainage Tankers

### Features

- High Quality of Stainless Steel Motor Body
- Built-in Winding Parts
- Rewindable and easy to repair
- Solids passage
- upto Ø35 mm for SVX10-15/35
- upto Ø50 mm for SVX 10-15/50

### Technical Specification

Head Max.	: 15 m
Flow Max.	: 30 m <sup>3</sup> / h
Power Range	: 1 to 1.5 HP
Liquid Temp. Max	: +40 °C
Degree of Protection	: IP 68
Class of Insulation	: 'H'
Type of Duty	: S1



## SSEG SERIES

### Applications

The SSEG pumps are ideal for use in sparsely populated areas where gravity sewage systems are not available. Examples include small villages, farm areas, and areas with difficult topography, such as rocky terrains with large differences in levels, or any other area where a pressurized system offers advantages.

### Features

- Clamp connection between motor and pump.
- Cartridge shaft seal.
- Grinder system at inlet of pump ensures extremely high efficiency and reliable operation.
- Smart Trim system enables quick and easy impeller clearance adjustment in order to maintain peak performance.

### Technical Specification

Head Max.	: 46 m
Flow Max.	: 17 m <sup>3</sup> / h
Power Range	: 0.9 kW to 4 kW
Liquid Temp. Max	: +40 °C
Degree of Protection	: IP 68
Class of Insulation	: 'F'
Type of Duty	: S1



## WASTE WATER PUMPS

### SDW SERIES

#### Applications

- Waste water drainage in factories, Construction Sites and Commercial Facilities Drainage system in municipal sewage treatment plant
- Industrial Sewage and Effluent treatment Plants
- Municipal Projects
- Residential and building projects

#### Features

- High efficiency motor
- Anti-Rust Corrosive motor housing
- Non -clogging, minimized abrasive wear
- Superior back to back double mechanical seal
- Maximum particle size upto 45mm

#### Technical Specification

Head Max.	: 5-34 m
Flow Max.	: 2-234 m <sup>3</sup> / h
Power Range	: 0.75 kW to 7.5 kW
Liquid Temp.	: ≤ 40 °C
Degree of Protection	: IP 68
Class of Insulation	: 'B'
Type of Duty	: S1



## SHAKTI PIPES

### Complete Solutions in Agricultural Irrigation.

#### Application

- Domestic portable water supplies.
- Agriculture & Irrigation purpose.
- Industrial Mining & Chemical distribution purpose.



#### Features

- Light Weight, Easy to Transport, carry, Handle & Install.
- Saves energy very cost effective, long lasting.
- Resistant to chemicals.
- Superior Design
- Leak proof and economical and maintenance free.

## SHAKTI CABLE

#### Application

- Applicable for submersible motor
- Applicable for surface motor
- Applicable for domestic & industrial



#### Features

- Manufactured from bright annealed 99.97% pure bare copper conductors these cables have low conductor resistance.
- The inner cores are insulated with a special grade PVC compound formulated and manufactured in - house.
- The tough robust outer PVC jacket protects it from the oils, greases, various chemicals and abrasions, thereby giving long life and electrical safety.

# DRIP IRRIGATION

## PLAIN LATERAL

### Applications

Agriculture & Horticulture  
Irrigation of fields & plants

### Features

- Made of imported virgin raw material
- Long life
- UV resistant
- Water & power saving
- Lesser supervision required

### Technical Specification

Max. Working Pressure : 4 kg/cm<sup>2</sup>  
Size : 12mm, 16mm, 20mm, 32 mm  
Thickness : ISI class I and class II  
Coil Length : 100m and 300 m



## FLAT DRIP

### Applications

Agriculture & Horticulture  
Irrigation of fields & plants

### Features

- Made of imported virgin raw material
- Long life
- UV resistant
- Customized coil length option
- Uniform flow
- Imported dripper

### Technical Specification

Max. Working Pressure : 2.5 kg/cm<sup>2</sup>  
Discharge : 1 LPH, 2 LPH & 4 LPH  
Sizes : 12 mm, 16 mm, 20 mm  
Thickness : 14 MIL (Safer), ISI Class I , II & Class III  
Dripper Spacing : 30 cm to 150 cm  
Filtration required : 130 micron



## ROUND DRIP

### Applications

Agriculture & Horticulture  
Irrigation of fields & plants

### Features

- Made of imported virgin raw material
- Long life
- UV resistant
- Customized coil length option
- Uniform flow
- Imported dripper

### Technical Specification

Max. Working Pressure : 2.5 kg/cm<sup>2</sup>  
Discharge : 2 LPH & 4 LPH  
Sizes : 12 mm, 16 mm, 20 mm  
Thickness : ISI Class I , II & Class III  
Dripper Spacing : 30 cm to 150 cm  
Filtration required : 130 micron  
Coil Length : 300m,500m & 100m



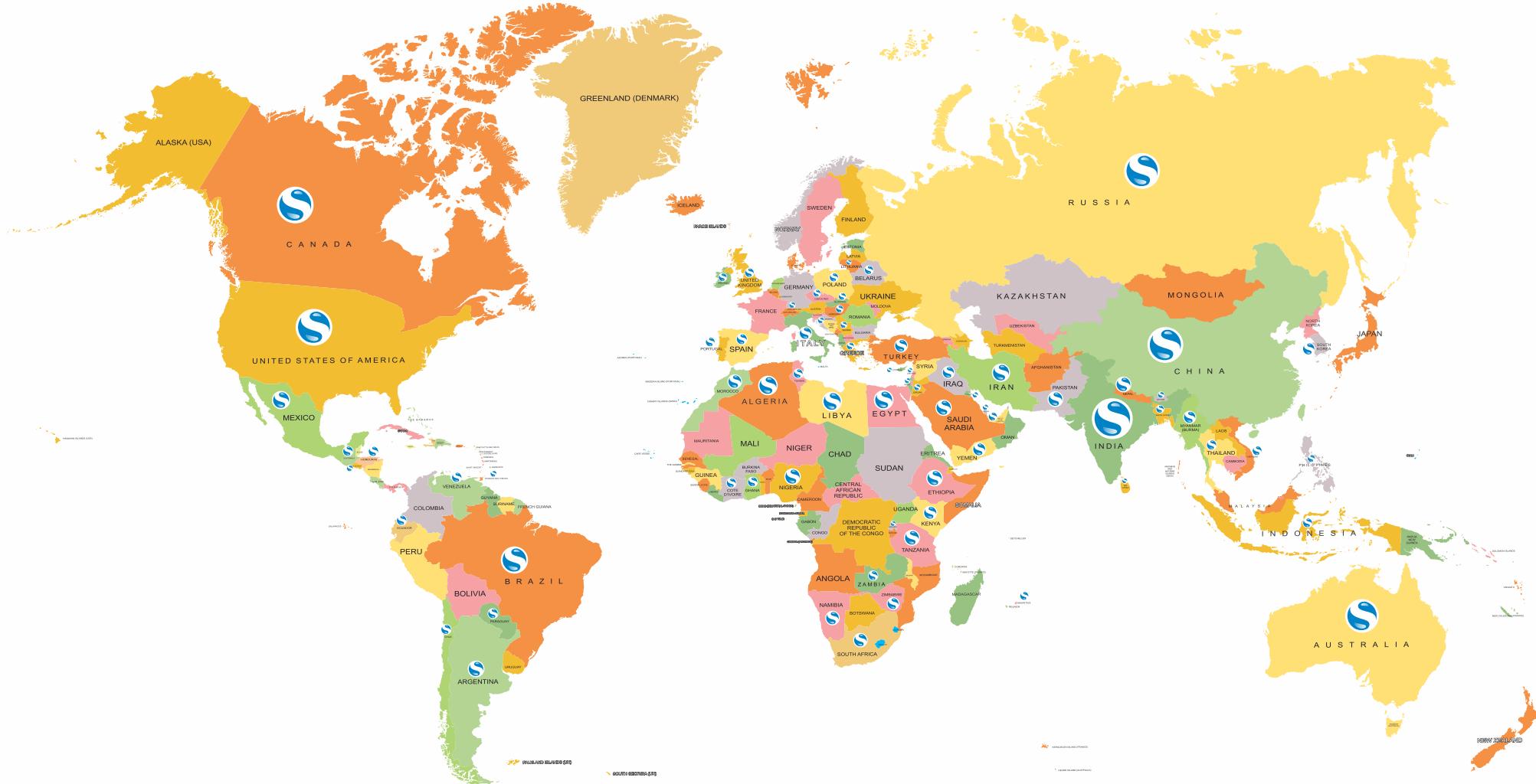


# Various certifications - a proof of our excellence.

Various certifications recognize our commitment to excellence. Bureau of Energy Efficiency (BEE) has granted 5 star ratings to more than 260 of our pump models for their superior energy efficiency. We have also been certified by independent bodies like UL, CE, ISO, BIS, ISI, etc.



# OUR PRESENCE



**SHAKTI PUMPS (INDIA) LIMITED**

Plot No. 401, 402, & 413, Industrial Area, Sector - 3, Pithampur - 454774,  
Dist. - Dhar, (M.P.) - INDIA, E-mail: info@shaktipumps.com,  
Visit us at : [www.shaktipumps.com](http://www.shaktipumps.com)

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