



# UTKARSH SCIENTIFIC INSTRUMENTS SUPPLIERS

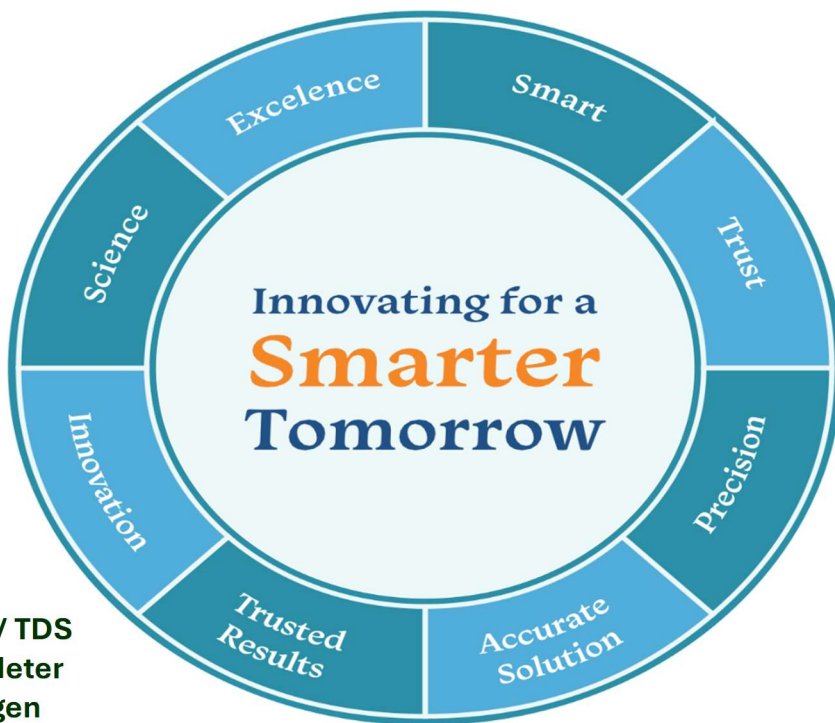
ISO 9001:2015 Certified

Works: Plot No. 280, Flat No. 202, Ashoka Building, Sector No.04, Sant Nagar, PCNTDA, Nashik Highway, Moshi, Pune-412105-----

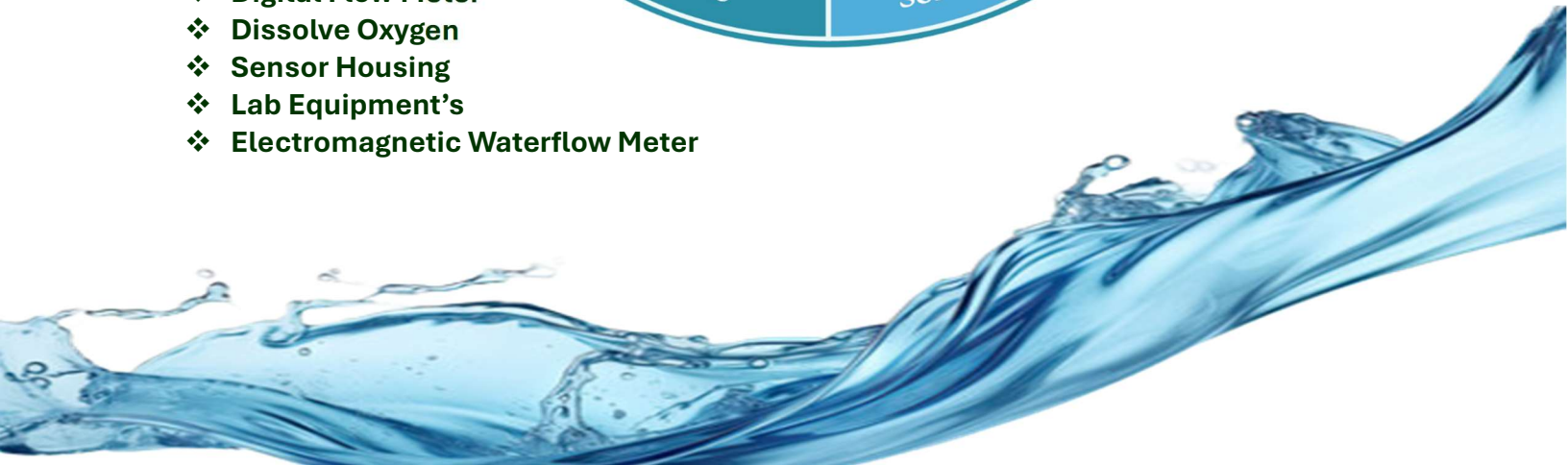
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## Process Equipment's & Automation

Utkarsh Scientific Instruments **has emerged as a leading OEM in electronic online process instrumentation and automation, serving clients since 2012. Backed by a robust in-house R&D team, stringent quality control, and advanced manufacturing infrastructure, we consistently deliver high-quality, reliable instruments. Our expertise spans flow meters, online pH/TDS/ORP indicators, controllers, and sensors, tailored for industries such as water treatment, chemicals, pharmaceuticals and food processing. Supported by a pro-active technical support and after-sales service network, we're equipped to assist clients at every stage – from consultation and commissioning to long-term maintenance**



- ❖ pH / ORP
- ❖ Conductivity / TDS
- ❖ Digital Flow Meter
- ❖ Dissolve Oxygen
- ❖ Sensor Housing
- ❖ Lab Equipment's
- ❖ Electromagnetic Waterflow Meter






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## Application

Industry	Typical Fluid	Benefit
Water/Wastewater	Clean/dirty water, sludge	Accurate, clog-resistant
Chemical	Acids, bases, solvents	Corrosion-resistant liners
Food & Beverage	Milk, beer, juice	Hygienic, CIP-ready
Mining	Ore slurry, tailings	No moving parts
Pharma	Sterile liquids	High accuracy, sanitary
Power	Cooling water, steam condensate	High pressure/temp capable


Sr. No	Product	Specification	Image
1	pH meter	<p><b>Type:</b> Microprocessor Based</p> <p><b>Display:</b> LED / LCD / Touch Screen, 3 digits</p> <p><b>pH Range (pH):</b> 0.00 to 14.00</p> <p><b>Accuracy (pH):</b> <math>\pm 0.05</math></p> <p><b>Power Requirements:</b> 230 V <math>\pm</math> 10, 50 Hz AC</p> <p><b>Temperature Compensation</b></p> <p><b>Type:</b> Automatic, Manual, Manual or automatic with ATC probe</p> <p><b>Temperature Accuracy (Degree C):</b> <math>\pm 0.3</math></p> <p><b>Temperature Compensation Range (Degree C):</b> 0 to 100</p> <p><b>Resolution (pH):</b> 0.01, 0.1</p>	



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3	Conductivity / TDS Meter	<p><b>conductivity Range:</b> 0<math>\mu</math>S to 200.0 mS  <b>Resolution:</b> 0.01 / 0.1 / 1 <math>\mu</math>S;  0.01 / 0.1 mS  <b>Accuracy:</b> <math>\pm 1</math> % full scale  <b>Cal. Points:</b> Up to 5  <b>Cell Constant:</b> 0.1, 1.0, 10.0 (selectable)  <b>TDS Range (Depending On TDS Factor):</b> to 100.0 ppt @ 0.5 fact (200.0 @ 1 factor)  <b>Resolution:</b> 0.01 / 0.1 / 1 ppm;  0.01 / 0.1 ppt  <b>Accuracy:</b> <math>\pm 1</math> % full scale <b>Cal. Points:</b> Manual (5 points); maximum 1 per range  <b>Temperature Range (Meter):</b> 0.0 to 100.0 <math>^{\circ}</math>C / 32.0 to 212.0 <math>^{\circ}</math>F  <b>Resolution:</b> 0.1 <math>^{\circ}</math>C / 0.1 <math>^{\circ}</math>F  <b>Accuracy:</b> <math>\pm 0.5</math> <math>^{\circ}</math>C / <math>\pm 0.9</math> <math>^{\circ}</math>F  <b>Coefficient (Per <math>^{\circ}</math>C):</b> 0.00 to 10.00 %  <b>Normalization:</b> 15.0 to 30.0 <math>^{\circ}</math>C / 0.02 59.0 to 86.0</p>	 
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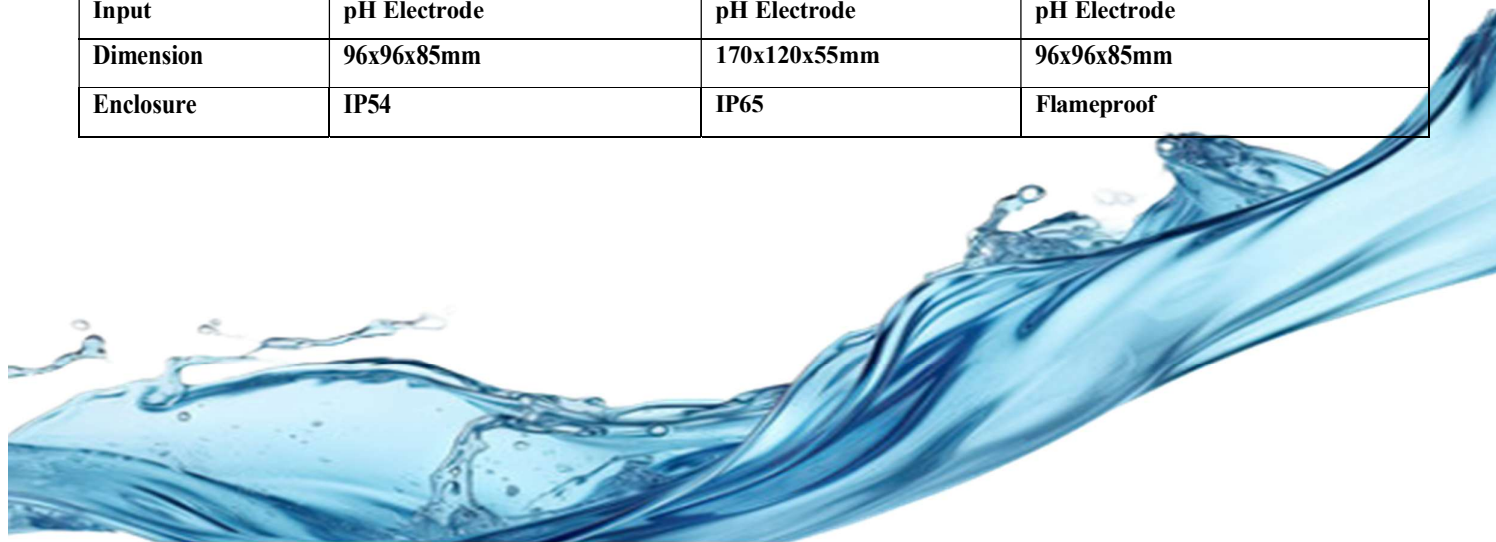


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Product Image			
pH Range	0-14 pH	0-14 pH	0-14 pH
Type	Panel Mount	Field Mount/ Whether proof	Flameproof
Accuracy	0.1 pH	0.1 pH	0.1 pH
Output	4-20mA,	4-20mA	4-20mA
Set Point Relay	04 No , Hi / Low	04 No , Hi / Low	04 No , Hi / Low
Alarm Relay	02 No. ON/OFF	02 No. ON/OFF	02 No. ON/OFF
Power Input	230 VAC ±10%; 50/60 Hz	230 VAC ±10%; 50/60 Hz	230 VAC ±10%; 50/60 Hz
Operating Temp.	-9.9 to 100°C	-9.9 to 100°C	-9.9 to 100°C
Comm. Protocol	RS485/MODBUS	RS485/MODBUS	RS485/MODBUS
Input	pH Electrode	pH Electrode	pH Electrode
Dimension	96x96x85mm	170x120x55mm	96x96x85mm
Enclosure	IP54	IP65	Flameproof








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Specification Model no.	Coriolis mass Flowmeter	Electromagnetic Flowmeter	Thermal Gas Mass Flowmeter
Product image			
Line Size	3 ~250mm	10~2000mm	15 ~ 4000mm
Accuracy	±1%,±0.2%,±0.5%	±0.5%/±0.2%	±1%,±2.5%
Output	Pulse 4-20mA	4-20mA	Pulse 4~20mA
Power Input	18~36VDC or 85~260VDC	85~265VAC,24VDC	24VDC or 220VAC
Operating Pressure	1.6,2.5,4.0,6.4,10,16,25 MPa	1.0,1.6,2.5,4.0,MPa	1.6,2.5,4.0,MPa
Operating Temp.	(-)50°C~350°C	≤150°C	(-)40°C ~ 450°C
Comm. Protocol	RS485 or HART	RS485/MODBUS/HURT	RS485,HART
Sensor/Body Material	SS304L/SS304/SS304L	SS304/SS316	SS304/SS316
Ambient Temp.	(-)25°C ~ 55°C	(-)10°C ~ 80°C	(-)20°C ~ 50°C
Protection	IP67, Explosion Proof	IP67/IP68	IP65





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Specification Model no.	Vortex Flow meter(Switzerland base)	Turbine Flowmeter	DP Mass Flowmeter	Oval Gear Mass Flowmeter
Product image				
Line Size	15 ~400mm	4~200mm	0.3`30t/h	10~200mm
Accuracy	±1%	±0.5%,±1%	±0.5%,±1%	±0.2%,±0.5%
Output	Pulse/4-20Madc	Pulse 4-20mA	4~20mADC	4~20mADC
Power Input	24VDC(±10%); Remote version with 3.4V Lithium Battery	24VDC (±10%); 12VDC	12 ~ 36VDC	24VDC
Operating Pressure	Standard 1.6 MPa; Custom 2.5-4.0MPa	1.6,2.5,4,6.4,10,16,25 MPa	From 3.5 kPa Absolute pressure	1.6,2.5,4.0,6.3 MPa
Operating Temp.	(-)10°C~60°C	(-)20°C ~ 120°C	(-)40 ~ 85°C	(-)20 ~ 280°C
Comm. Protocol	RS232 & RS485, HART Protocol	RS485/Modbus	HART	RS232,RS485, Modbus
Sensor/Body Material	SS321/SS304/SS316	SS304/SS316	Stainless Steel 316L	SS,MS,CI
Ambient Temp.	(-)30°C ~ 60°C	(-)20°C ~ 60°C	0 ~ 65°C	0 ~ 85°C
Protection	IP65, Explosion Proof: (Flame Proof);	IP65, Explosion Proof	IP67	IP67





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4	Hot air oven	<b>Size:</b> 300x300x300 <b>Capacity:</b> 28 liter. <b>Shelves:</b> ½ <b>Temp. stability:</b> $\pm 0.5^{\circ}\text{C}$ <b>Material:</b> CRC/ Mild steel with powder coated. <b>Power consumption:</b> 220/230 V $\pm 10\%$ , AC supply Single Phase 50 Hz	
5	Rotary Shaker	<b>Size:</b> 12x12 <b>Capacity:</b> 9 flask of 250 ml <b>Power consumption:</b> 220/230 AC supply AC 10%, single Phase 50 Hz.	
6	Hot Plate	<b>Size:</b> 7.5 dia <b>Heater:</b> 1.5 kw <b>Power consumption:</b> 220/230 AC + supply 50 Hz single phase	







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7	Distilled water unit	Capacity: 2, 4, 6 liter. Heater wattage: 1.5 ,3, 4.5 kw	
8	Laminar air flow	<b>Type:</b> Horizontal and vertical <b>Size:</b> 2x2x2, 3x2x2, 4x2x2, 6x2x2 <b>Illumination:</b> 1x20 watt <b>Electrical load required:</b> 220 volts	
9	Autoclave	<b>Type:</b> Horizontal and vertical <b>Heater load:</b> 2.0 kw <b>Pressure range:</b> 5 to 20 PSI $\pm$ 3 PSI <b>Temp.:</b> 120°C approx. at 15- 20 PSI approx	








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10	Microscope	All Type	
11	Micropipette	All Rang	
12	Visible Spectrophotometer	Wavelength Rang: 325-1000 nm Wavelength Accuracy: < 2nm Transmittance Accuracy: $\pm 0.5\%$ Dimensions: 56x 48 x 29 cms Spectrum Bandwidth: 2nm/1nm Stray light: <0.5% (at 360nm, NaNo) Type: single beam, double beam	
13	BOD Incubator	Capacity: 112 Ltrs. To 336Ltrs. Shelves: 2 to 3 Temp. Rang: 5°C- 60°C Material: CRC/Mild steel sheet with power coated Power Consumption: 220/230V AC $\pm 10\%$ , 50 Hz	







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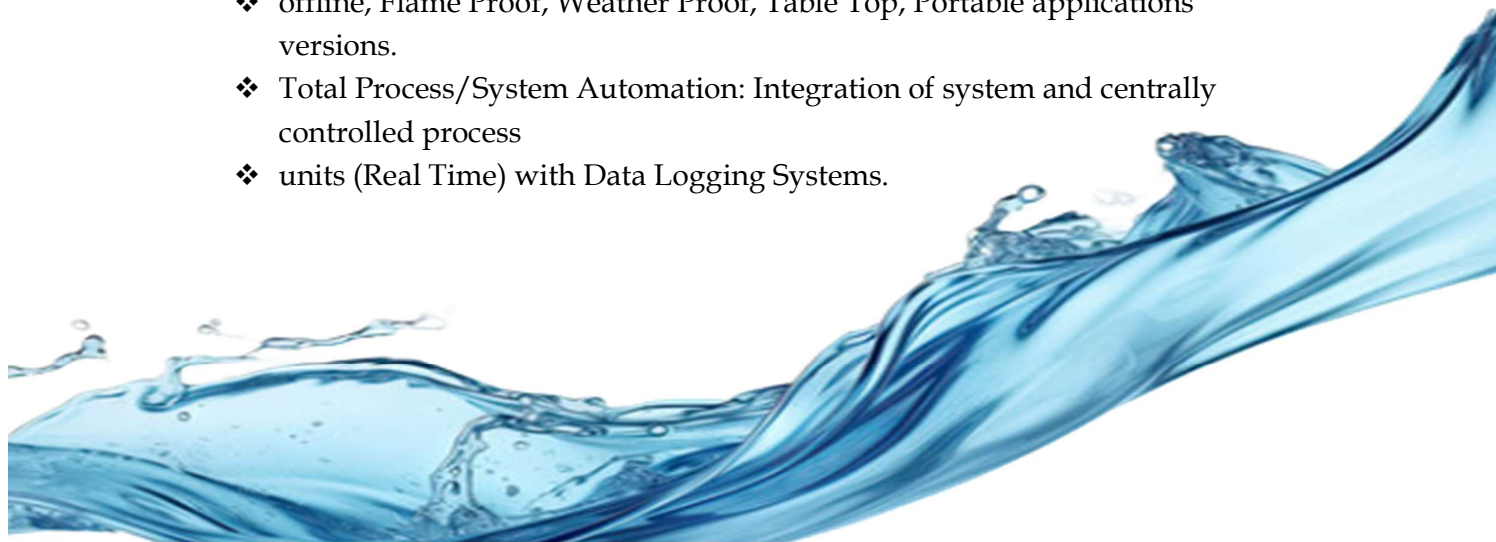
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14	Kjeldahl Digestion and Distillation Unit	Capacity: 03 and 06 test Heating System: Mantle type	
15	Microprocessor Base digital Turbidity Meter	Display: 16-character X 2-line Alphanumeric BL LCD Power supply: 230V $\pm$ 10% 50 Hz AC Accuracy: $\pm$ 3% FS $\pm$ 1 digit Rang: -20.0 <sup>0</sup> C to 200 <sup>0</sup> C Calibration: Two-point manual Sensor: Pt 100 probe Light Source: 6V Tungsten Lamp Rang	

## Our various Product Range as below:

- ❖ Electromagnetic Flow meter with GSM /GPRS System.
- ❖ Process Instrumentation like pH/ORP, Conductivity/TDS , DO, Humidity, Temperature,
- ❖ Pressure, Electromagnetic flow meter etc. Indicator / Controller / Transmitter with online,
- ❖ offline, Flame Proof, Weather Proof, Table Top, Portable applications versions.
- ❖ Total Process/System Automation: Integration of system and centrally controlled process
- ❖ units (Real Time) with Data Logging Systems.





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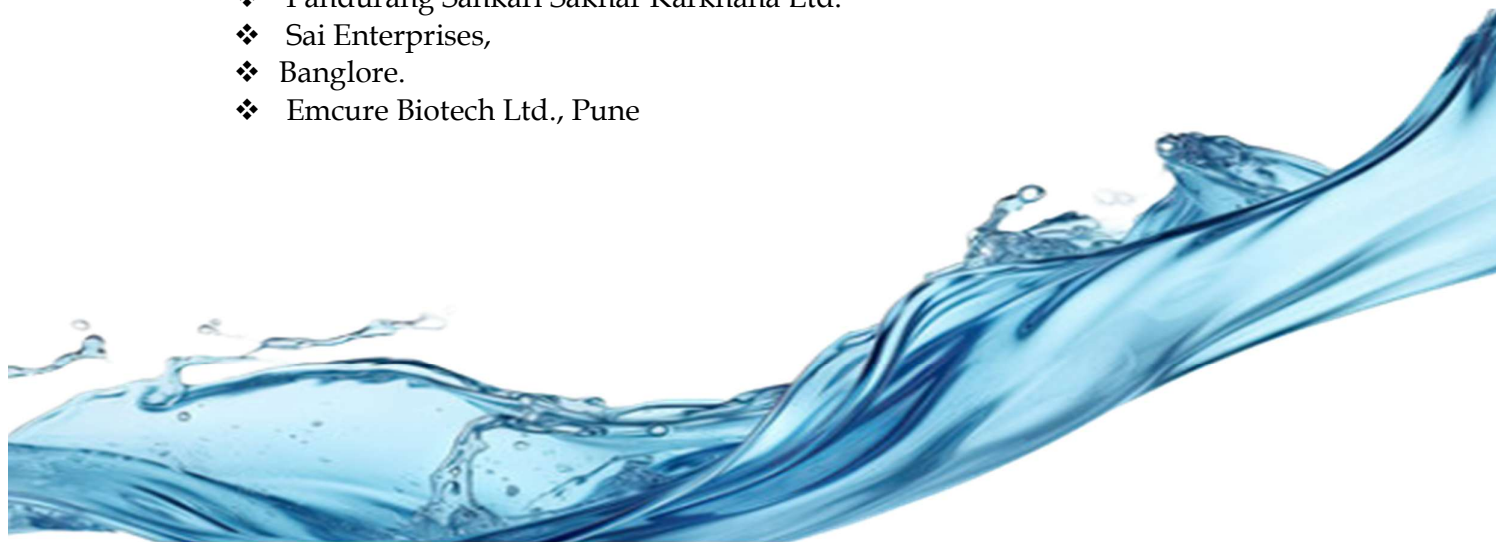
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- ❖ Products: online, Table Top, pH & Conductivity meters, Temperature, sensors, Transmitters
- ❖ both for pH and Conductivity etc. Temperature transmitter, Data logger.
- ❖ Electromagnetic Flow meter, Full Bore - 15mm to 300mm & Insertion Type 300mm to 2000mm
- ❖ Mass Flow Meter along with density and brix measurement.
- ❖ Sensors and Transducers for pH, Conductivity, temperature, ORP, DO, Ion, Flow, etc.
- ❖ Online and Offline Data Logger for 8 to 246 Channel
- ❖asonic Level Sensor

## To list a few following customers are using our products widely.

- ❖ Gangakhed Sugar & Energy Ltd., Pune
- ❖ Thermax Ltd , Pune
- ❖ Pepsico India Ltd, Pune
- ❖ Essar Steel .
- ❖ Intervet India Pvt. Ltd, Pune
- ❖ Alfa Laval, Pune.
- ❖ Bharat Forge Ltd., Pune
- ❖ Tata Motors, Pune
- ❖ Indian Institute of Tropical Meteorology (IITM), Pune.
- ❖ Crompton Greaves Ltd, Aurangabad.
- ❖ Sai Enviro Engineers Pvt. Ltd.
- ❖ National Chemicals Laboratory (NCL) , Pune
- ❖ Lupin India Ltd
- ❖ Kalyani Forge Ltd, Bhima Koregaon, Pune.
- ❖ Wockhardt Ltd, Aurangabad,
- ❖ Century Enka Ltd. , Pune
- ❖ Shreenath Mhaskoba Sakhar Karkhana
- ❖ Pandurang Sahkari Sakhar Karkhana Ltd.
- ❖ Sai Enterprises,
- ❖ Bangalore.
- ❖ Emcure Biotech Ltd., Pune







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To name few of our projects, we have successfully taken up and completed projects listed

**Below.**

- ❖ Water Treatment Plants (Waste / Effluent / Mineral)
- ❖ Automation for DM water Plant
- ❖ Boiler Automation
- ❖ Auto pH control system for Juice clarification and Pan Automation in Sugar Industry

## UTKARSH SCIENTIFIC INSTRUMENT

Mr. Yogesh. M. Patil

9511262146/ 8149216056

*Thank You...*

