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Laser Level/ Distance
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Blog

Success

A Way Of Life
at Pune Techtrol!

Case Study

Techtrol Gauging System

for Indian Navy and
Coast Guards

Save Water, Save Lives & Save Future!

'Techtrol' is recognized as most reliable and trusted name, delivering quality products unsurpassed in terms of accuracy, workmanship, performance, safety and ease of installation, providing long uninterrupted service in wide and varied industrial applications.



Why Waste Water Management?

For the rapidly growing human population, the availability of the abundant natural resources is decreasing; and the case of water is no different! Pune Techtrol Pvt. Ltd., the leading manufacturer of process automation, level measurement and control instruments, has always recognized the importance of preserving the environment and has believed in contributing to this noble cause.

Human beings can use and consume only fresh water. While three-fourths of the Earth's surface is covered in water, only three percent of it is fresh; and seventy percent of this three percent is locked up in the ice

caps of Antarctic and Arctic regions. What remains, is to be used by the entire human population of seven billion for their ever increasing needs, and habitual usage. Also, around ninety percent of the fresh water that is consumed goes down the drains as wastewater.

Industries, which are increasing continuously in numbers, create a lot of harmful pollutants that get mixed with water. The rate at which human beings are wasting water is indeed alarming.

This raises a dire need of wastewater management. Wastewater treatment is the

process of removing contaminants from wastewater and making it accessible for many purposes. Processing of wastewater is important with regards to the need of environment preservation in the current times. Wastewater, if allowed to flow untreated can be a havoc not only with humans but also to crops, forests and wildlife as well. Hence, the treatment of wastewater or effluents is increasingly becoming vital for the survival of human race as well as the environment.

All wastewater treatment processes require level monitoring and control. Level instruments are installed in almost all parts



“ The level measurement and control instruments manufactured and supplied by Pune Techtrol are widely used in the process of wastewater treatment. ”

of water and effluent treatment plants. The level measurement and control instruments manufactured and supplied by Pune Techtrol Pvt. Ltd. are widely used in the process of wastewater treatment. The useful feature of "Techtrol" instruments is that there is a wide choice of Material of Construction (MOC) for all the instruments to suit specific requirements of the medium or liquid whose level is to be measured, detected or monitored.

These level instruments are mainly classified into level gauges, level switches and level transmitters. These 'Techtrol' level measurement and control instruments are specifically designed for this particular applications and hence increasing the efficiency and reliability of the process. The applications of each of these level instruments for wastewater management are discussed below:

Level Gauges for Wastewater Management

Pune Techtrol's comprehensive range of level gauges useful in the applications of wastewater management is as follows:

- Tubular Level Gauge (TTG) and Reflex Flat Glass Gauge (RFG) are glass gauges used to indicate liquid levels of chemical tanks and other storage /process tanks.
- Magnetic Level Gauge (MLG) is used to indicate levels of storage tanks of acids and alkalis. It can also be improvised with alarm switches and transmitters for remote indication and control.
- Float and Dial Gauge (FDG) is used for indication of liquid level in underground tanks. It is particularly suitable for applications involving limited head-space above the tank. It can also be improvised with alarm switches and a transmitter for remote indication and control.
- Float and Board Gauge (FBG) is the simplest and a reliable instrument used for indication of liquid level in large storage tanks of effluent / treated water. It can also be improvised with alarm switches.

Level Switches for Wastewater Management

Pune Techtrol's comprehensive range of



level switches useful in the applications of wastewater management is as follows:

- Float Guided Switch (FGS) is single/multipoint level switch used in clarifier and aeration tanks. These switching contacts can be used for alarm indications or pump controls.
- Displacer Switch (DS) is more suited for application of clear effluent and potable water. Switching points rated for 5A, 250VAC and can be adjusted at the site as required.
- Cable Suspended Switch (FCS) is a simplest type switch and easy to install. These switching contacts are rated for 5A, 250VAC and can be used for alarm indications or pump controls and are ideally suitable for applications of settling tanks.
- Conductivity Type Switch (CNS) is used only for conductive liquids. It can be used for treated and potable water. More suitable for applications where the depth of tank is long.
- Float Pivoted Switch (FPS) is side mounted, single point switch rated for 5A, 250VAC. It is suitable for over ground tanks.
- Miniature Float Switch (MFPS/MFGS) is used for level detection in small /medium tanks.

Level Transmitter for Wastewater Management

Pune Techtrol's level transmitter useful for in the application of wastewater management is as follows:

- The Techtrol Ultrasonic Transmitter (TUS) is a non-contact type level transmitter, generally used for measurement of flow in open channel or level monitoring in tanks. It

is compact, non-contact, and easy to install, integral type transmitter for continuous level measurement of non-corrosive liquids and slurries. It is programmable through Keys. Owing to its aforementioned characteristics, it proves useful for wastewater management plants. It is used for various processes in storage tanks, filter beds, flotation cells, water/wastewater/effluent treatment (WTP, ETP).

Since its inception, Pune Techtrol Pvt. Ltd. has time and again innovated and added to the list of level measurement and control instruments which can be used for applications like wastewater management. It takes pride in being not only a company of products but a company of value too!

Why Pune Techtrol?

Pune Techtrol Pvt. Ltd. has evolved from a six-employee enterprise, in 1984 to become a premier Indian company recognized for quality level measurement and process automation systems for liquids and solids. We are an ISO 9001 2008 Company located in the Industrial belt of Pune, around 180 km from Mumbai, the commercial capital of India. Pune is famous globally for quality instrumentation industries with ample skilled and talented workforce.

Our products are designed and engineered for optimal performance and with practical experience gained over last several years has equipped us, to meet the most demanding user requirements.

For further information contact our experts on **+91 20 66342900**

From CMD's Desk



Dear Reader,

We have reached a point in our career where we have been through this journey witnessing the growth and progress altogether. And this month we take pleasure in welcoming our inaugural issue of the Bi-monthly Newsletter. Ushering this newsletter is a step towards keeping in touch with our Clients, Customers, Distributors, and Employees who have been an integral part of our journey. Pune Techtrol Pvt. Ltd. set another benchmark in the way by participating in the LANKA WATER EXPO 2017. We exhibited our new generation Level gauges, Level switches and Ultrasonic transmitters which are created to match the precise requirements of the medium.

For the rapidly increasing population, the availability of natural resources is reducing; and the case of water is no different! Pune Techtrol organized a Wastewater Management Campaign to create awareness among the public. We have always recognized the importance of preserving water and restore it for the near future and hence urged in contributing to this noble cause.

We believe our people are our strength and it is the organization's prime philosophy to respect them as individuals. We regard it that our reputation and our product quality and services are a result of their teamwork, a better understanding of our products and customer expectations of us. We have also initiated training services for the youth who are the upcoming torch bearers since we keep faith in the philosophy of learning.

We aspire to promote this newsletter as a tool to enrich our customers and employees. To ensure, they have been partnering well with us and help us in achieving our vision and mission. We hope for your continued support in this regard and wish that you would put this newsletter to a good quality use. This Newsletter covers diverse topics which includes Case study, Technical article, Events, achievements and our CSR Initiatives.

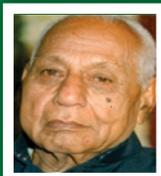
Nandalal Khatan

Vision

To be a leading provider of quality products and solutions in level measurement and process automation systems for liquids and solids.

Mission

To continuously upgrade our capabilities, to meet future challenges of an evolving process industry, through the incorporation of new technology, human resources and skills.



Late Mr. Paramanand Khatan
Our Inspiration



Mr. Manoj Khatan
Joint Managing Director



Mr. Mayank Khatan
Joint Managing Director

Ramesh Pabalkar
General Manager

Rajesh Wagulde
Technical Manager

Sudhakar Badiger
Marketing Manager

Prasad Chavan
D&D Manager

Bharatbhushan Gaikwad
Executive Quality Assistance & MR

Prakash Shahpurkar
Manager EDP

Pune Techtrol Pvt Ltd
S-18, MIDC Bhosari,
Pune - 411026, India
+91-20-66342900
ho@punetechtrol.com
Working Hours:
9.00 to 5.30pm
Weekly off: Sunday

Techtrol's Laser Solutions at a Price Never Before

Pune Techtrol, the industry leader in Process Automation, Level measurement and Control instruments announces the launch a nationwide distribution agreement for exclusively selling and distributing the new series of products of Laser Level/ Distance Transmitter (AL40/AL100).



The forefront product utilizes a high-speed pulse with the programmed and processing systems for measuring distances. This breakthrough technology permits user with the effortless and accurate level response with speed measurements over the short and the long range distances.

AL40/AL100 is designed and developed as a non-contact level and distance measuring instrument, for granular materials and opaque liquids. The transmitter is capable of relaying to continuous monitoring and

control action at 4mA to 20mA output by giving the user a friendly programming through a push button.

Pune Techtrol has many lucrative opportunities for the sell and distribution of these lasers products in India markets. These accurate and fast responding instruments have wider scope of applications in the sectors such as Chemical and Fertilizers, Food and Beverages, Coal and Mining Industry, Steel Industry, Cement Industry, Paper and Pulp, Plastic and Wood Chips.

Pune Techtrol adds TBLG as its latest innovation

Techtrol Bi Color Multiport Level Gauge (TBLG) is the latest addition to the list of high quality instruments offered by Pune Techtrol. The level gauge which is suitable for high pressure application, has multiple ports for continuous indication of water level in high pressure boilers, where presence of water is indicated by green color and steam/air by red color.

It comes with single or double expansion loop to accommodate high temperature and pressure conditions. TBLG consists of trapezoid shape liquid chamber with equi-spaced port along its non parallel sides. It has circular gauge glass with high quality mica fitted on each port with gasket, cushion and cover plate for protecting the inner surface of glass from steam erosion.

The gauge is an ideal instrument for application in boiler drum, feed water heater, utility boiler, recovery boilers, refuse and fluidized bed boilers, small industrial boilers, process heaters.

Techtrol
Innovating Level Controls Since 1984

BICOLOR MULTI-PORT GAUGE - TBLG

Widely used to Measure and Monitor the Steam & Water Level in High Pressure Boilers

WE MEASURE THE BEST FOR YOU!

Used for applications of high temp & pressure where Conventional Reflex and Transparent Level Gauges are not recommended

www.punetechtrol.com

Dream turned Reality: Techtrol's Global Footprint!

A journey of thousand miles begins with a single step. Pune Techtrol, established in 1984, evolved from a six-employee venture, is now recognized as the globally leading manufacturer of the level measurement and control instruments for liquids and solids. It all started with a dream that Mr. Nandlal P. Khatan had for his company, which has come true as a result of the great determination and dedication of these many years. We, at Pune Techtrol Pvt. Ltd., have always aimed to achieve the best and strive for the better, inspiring a series of success stories to the name of Pune Techtrol.



C N Shukla
shukla@punetechtrol.com



The company has come a long way against all the odds and earned a significant name in the level measuring instruments and process automation systems. It is the result of the consistent efforts and hard work invested by all the employees, for the growth of the company.

The main strengths are innovation, continuous quality improvement, and employee-driven growth. We have been expanding our horizon by reaching out to OEMs, manufacturers, large industries, MNCs, project consultants and semi-government and government sectors.

Pune Techtrol has provided the finest products to manufacturing industry, worldwide. The products have multifold applications in process automation with the quality instrumentation, up-to-date knowledge, and dedication of talented workmanship. We focus on continually learning so as to meet future challenges of an evolving process industry, through the incorporation of new technology, human resources, & skills.

"I have great confidence in my people and

their integrity and innovative thinking. It would not have been possible without their hard work and collective effort that they put for the good of the company. I am grateful for their dedication towards the company," quoted Mr. Nandlal P. Khatan, Managing Director, Pune Techtrol Pvt. Ltd.

Pune Techtrol celebrated a moment of pride in receiving an opportunity to serve to our Indian Navy. Supplying to Indian Navy has been one of the privilege; an opportunity to serve the nation. Our instruments qualified all the critical quality tests prescribed by Indian Navy and have received repeated orders. With this, we have added another chapter to our story of success in level measuring instruments. Be it working with Multinational Corporations or Defense Establishments, we take pride in our accomplishments.

"With our mission to provide best of products to our customers, we have always sought feedback from our customers and tried to meet their needs by customizing the products wherever possible. Their appreciations have boosted our confidence and helped us evolve stronger than before to

deliver the best. Our motto is to Measure the Best for our clients", expressed Mr. Sudhakar Badiger, Manager Marketing & Sales, Pune Techtrol Pvt. Ltd.

He further added, "I thankfully appreciate that our customers have recognized the product quality and services of Pune Techtrol. We believe that the feedback from our clients could actually prove constructive and help us improve and grow".

Pune Techtrol Pvt. Ltd. has experience in international marketing and providing expertise in process automation. The continual upgradation of services and operations has led to enablement in meeting the ever-evolving needs of dynamic manufacturing industries. We, at Pune Techtrol, feel that the success is a journey, and not a destination. We are fortunate enough to come a long way. We feel a responsibility towards our society as well. We wish to contribute for the 'Make in India' project and in the growth of this nation.

The author Mr. C N Shukla is the Training and Development Consultant at Pune Techtrol. For more details write to him at ho@punetechtrol.com



Techtrol Unleashes Innovations @Colombo, Srilanka

Sri Lanka Water Expo has explored the business opportunities for Pune Techtrol and bent a perfect business platform for knowledge sharing and discovering offshore markets. Pune Techtrol Pvt. Ltd. specializing in quality level measurement and process automation systems became a part of the LANKA WATER EXPO 2017 held at Bandaranaike Memorial International Conference Hall, Colombo, Sri Lanka from 7th to 9th July 2017.

The Expo was meant for an eternal purpose of how we can harness innovation to tackle the most critical issues faced by the world. Water, which is an integral part of our existence, needs to be preserved and recycled for future use. This event was an ideal place to get connected with the entire fraternity responsible for municipal and industrial wastewater collection and treatment systems. Pune Techtrol exhibited their new generation instruments which help in long-term monitoring of water level which can be used in many environments especially wastewater treatment plants. They are reliable regardless of salinity level, pollution level or any other harsh environmental conditions.

Pune Techtrol's level instruments such as Level gauges, Level switches and Ultrasonic transmitters are designed to match exact requirements of the medium or liquid whose level is to be measured, detected or monitored. These instruments are distinctively created for the particular application, and hence enhance the

effectiveness and steadfastness of the procedure. The juncture gave a platform to a voracious cultural program based on the theme. All the clientele across the globe came and participated in the event. Pune Techtrol played a crucial role in the Expo which included a stall of their own and demonstrations were being provided to the visitors by the guide about the products and services.

The event mainly focused on drinking water preservation, wastewater desalination, zero liquid discharge, clean water supply to urban and rural areas, rainwater harvesting, water treatment equipment, filtration systems, pumps, and process control instrumentation. The exhibition showcased a platform where the entire global community looks up to them for innovative solutions in providing clean and sustained water supply at economical rates. Sri Lanka Water Expo has explored the business opportunities for Pune Techtrol and bent a perfect business platform for knowledge sharing and discovering offshore markets across the globe.



Pune Techtrol's **Aqua Innovation** enlivened at Sri Lanka Water Expo 2017





Tank Gauging Systems for Fuel Barges

Techtrol Partners with Indian Navy and Coast Guards

Pune Techtrols' Tank gauging system is utilized for measurement of liquids in bulk storage tanks with an objective of quantifying how much product is in the tank. These days, oil and gas industry use the strategy of static measurement of the contents present in the tank to report the product stored and moved out of the gauging tank.

The entire array of operations in which a country's naval forces may be concerned is enormous, ranging from intense warfighting to charitable and calamity assistance operations. This broad range of operations can be divided into separate roles, each demanding a precise approach to the behaviour of operations.

The equipment used by them for various points also range from moderate to highly intensive, from easy to complex and unique.

Indian Navy and Coast Guards make use of fuel barges, which are self-propelled and proficient of replenishing various fuel oils to offshore patrol vessels in the harbour,

at anchorage and diverse fuel depots at remote locations.

The level gauges, switches and transmitters used by Indian Navy are highly modified and meticulous. The gauging system had to be optimized for monitoring number of fuel tanks and freshwater tanks on their barges.

Pune Techtrol created and delivered tank gauging system for their fuel barges with unique salient features along with IRS certification. We designed and produced a gauging system in line with their stringent specifications, which consisted of customized hydrostatic transmitters to be installed on designated tanks along with centralized HMI panel to be positioned in the

wheelhouse and two remote HMI panels at main deck and pump house. The transmitters for fuel tanks were provided with Zener barriers for intrinsic safety.

The liquid levels were displayed in digital format by HMI panel and also in animated format along with volumes and weight of the tank contents. The HMI panel

in the pump house, being a hazardous area was fitted with an ex-proof panel.

With continuous innovations Techtrol believes to be part of Make In India initiatives and be part of indigenisation of manufacturing in India. To know how we can ease your measurement process contact our experts on **+91 20 66342900**

“ The equipment used by Indian Navy and Cost Guards for various points also range from moderate to highly intensive, from easy to complex and unique. Pune Techtrol created and delivered tank gauging system for their fuel barges with unique salient features along with IRS certification. ”

Innovating & **Engineering**
Reliable Level Measurement Solutions Since 1984



Level
Gauges



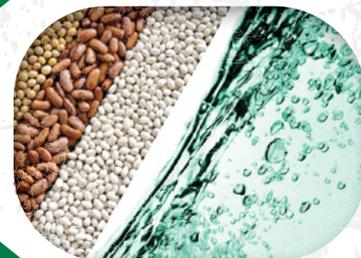
Level
Switches



Foam
Detectors



Ultrasonic
Radar / Laser
Transmitters



We measure
the best for you

Steam
Detectors



™

Pune Techtrol Pvt. Ltd.

📍 S-18, MIDC Bhosari, Pune - 411026, India 📞 +91-20-66342900

✉️ ho@punetechtrol.com 🌐 www.punetechtrol.com

📍 Works: J-52, MIDC Bhosari, Pune - 411026, India 📞 +91-20-67313600

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