Techno Bangla Engineering Ltd provides a non-contacting flow measurement solution to the pharmaceutical industry.

Water is one of the major utilities used by the pharmaceutical industry. It can be used for the reconstitution of products, during synthesis, during production of the finished products or as a cleaning agent for rinsing vessels, equipment and other materials. Plant operators know that the key to making sure your operations run smoothly is having a production process that is running efficiently and ensuring you are maximizing your resources.

After the water has been distributed around the plant, there are sometimes chemicals added especially in the pharmaceutical industry, to ensure that equipment is clean and sterile or to aid the production of pharmaceutical products. Therefore, it is common to see Influent and Effluent Treatment plants located on-site so that wastewater is treated effectively before being released back to the local environment. Operators in the pharmaceutical industry must understand how much water is coming into their sites and how much is leaving, so having accurate flow measurement is an important part of everyday operations.

What was the problem?

It came to the attention of one key pharmaceutical manufacturer that their current electromagnetic flow meter was not working correctly. They were receiving large flow rates and knew that this wasn't right, so they reached out to Techno Bangla Engineering Ltd. for help with their application. As electromagnetic flowmeters are contacting devices, meaning they sit within the measurement medium and come into contact with the water as it flows past, the pharmaceutical company were facing some problems with dust and particles, especially at the inlet flow.

"We are really satisfied with the Pulsar Measurement equipment. We have received the necessary technical support from Techno Bangla Engineering Ltd, and the equipment is giving us some high accuracy results. The installation was successful, and the staff were friendly."

Non-contacting Open Channel Flow Measurement

After taking a look at the application and listening to the issues that the end-user was facing, Techno Bangla Engineering Ltd decided that it was best to go down the non-contacting route. This meant that the pharmaceutical manufacturer did not need to shut down its operations for installation or worry about the maintenance of the products as they do not touch the water.

Engineers at Techno Bangla Engineering Ltd opted for the Ultra 4 controller with dB3 transducers to monitor flow at both the inlet works and final effluent stages. The Ultra 4 is formally recognized by MCERTS, an industry standard in the UK, for its accuracy when it comes to flow measurement. Although not recognized as a requirement in the Asia Pacific region, it can give manufacturers peace of mind that what they are investing in has been tested and proven to be accurate. As the end-user already had a Primary Measuring Device, such as a flume or weir, it made the Ultra 4 and dB3 the first choice for engineers at Techno Bangla Engineering Ltd.

Success with Pulsar Measurement Flow Solutions

After the installation and some tinkering with Pulsar Measurement unique DATEM Echo Processing Software, Techno Bangla Engineering Ltd was able to get a good performance. The end user said, "We are really satisfied with the Pulsar Measurement equipment. We have received the necessary technical support from Techno Bangla Engineering Ltd, and the equipment is giving us some high accuracy results. The installation was successful, and the staff were friendly."

Techno Bangla Engineering Ltd is one of Pulsar Measurement's official partners and experts located in Bangladesh and have installed over 100 pieces of open channel flow equipment, so they can draw on a wealth of experience. To find your local Pulsar Measurement partner, visit our partner locator.

More Information

Ultra 4 Wall Mount Controller: www.pulsarmeasurement.com/ultra4

dBMACH3 Flow Transducer: https://pulsarmeasurement.com/dbmach3-db3-with-sun-shield

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