

AERATION AIR FLOW MEASUREMENT IN ONE OF THE LEADING PHARMACEUTICAL INDUSTRIES, INDIA

APPLICATION

Aeration air flow rate monitoring for control of Dissolved Oxygen levels in Effluent primary treatment plant.

PROBLEM

An Integrated pharmaceutical plant with various departments such as API bulk drugs, tablets, liquid syrup manufacturing facility has a variable load of effluent water with a wide range of toxic organic and inorganic effluent into the effluent treatment plant for processing. This poses a challenge to maintain DO levels with respect to aeration air injection for BOD,COD & TOC control as per regulatory norms for resuage. Air Blowers are operated on a fixed pressure control loop which creates a problem on inefficient DO controls. DO is a function of air flow not pressure. Efficient Dissolved Oxygen (DO) control is a challenge to obtain without accurate aeration air flow metering. Ineffective DO control means loss of energy and insufficient bacterial growth for optimum BOD levels.

OUR SOULTION

Leomi – 586 Insertion Thermal Mass flowmeter:

- Doesn't require a shutdown for installation.
- High turndown down ratio of 100:1.
- No pressure drop against the existing flow meter installed saves energy cost
- Allows leakage detection with better accuracy. No maintenance than the existing flow meter used.

INSTALLATION FACTS

Leomi 586 is installed in the main branch of the Aeration air from Roots Blowers on 12" (DN300) pipe with 1400 Nm3/hr flow rate working for 5 years satisfactorily. Customers have repeated orders for their new projects last year 2021.

CUSTOMER

India's biggest Pharmaceutical drugs manufacturing group, Gujarat.

PRODUCT

LEOMI- 586, Insertion Thermal Mass Flowmeter.

WHY LEOMI

- An ISO 9001:2015 company, Startup India recognized
- German technical collaboration Engineered in India
- India's First In-house fully automatic wind tunnel calibration system
- Product quality proven for more than 20 years installed worldwide.







