

# High Saving Potential Using Anderson-Negele Turbidity Meter

**Amul Pvt (Formerly known as Mother Dairy - Gandhinagar)** India's one of the largest dairy product manufacturers since 1970s in Gujarat. Their focus is to produce best quality "Amul" under the Indian dairy market. The dairy is handling its own 400000000 litres daily for production. It is a complete own discharge dairy and always strive for continuous process improvements.

Amul Pvt India has awarded around seven turbidity meters to their QIP team especially Anderson Negele as they were convinced by the performance of TM 4 because they were able to achieve water saving in their QIP process.

## The requirement

The plant head of Amul Pvt, Ahmedabad was facing a challenge where accurate amount of water recovery was not achieved during QIP process. This was because the plant had a Three-Phase process and they used to do water recovery via under-dairy water during their QIP process within a defined flow rate. As there was no automation to achieve exact gpm, amount and time for water recovery the client was looking for a solution which would operate their QIP process in order to save more water.

With this objective to recover maximum water from their QIP process, the team from Mother Dairy approached Anderson Negele to realize the issue professionally in a cost efficient way.

## The Anderson Negele solution

Anderson Negele team identified that since their QIP process was done via under-dairy water the recovery of water and the product was not done as desired by the customer. Under-dairy measurement cannot deliver exact phase separation of two or more different liquids in a QIP process of a dairy plant and that is why TM 4 Turbidity Meter was installed in the QIP process to detect different phases. This will provide the exact phase separation in a more precise manner. Amul Pvt was convinced with the solution and the client is expecting their QIP process as it will help to reduce the loss of Amul's treatment plant (QIP) since they were able to set the exact range of water recovery and bring large amount in savings saving by reducing the number of QIP's.

## The advantages

- Compact design, no separate installation and recovery
- Reduced QIP load
- Reduced Power consumption
- Measurement free
- MS (Stainless steel instrument) is faster

## Features

- The TM 4 measures turbidity using the 4 beam attenuating light method
- 4 beam ultraviolet and externally adjustable measurement design
- Standard measurement range (0.1 NTU to 0.1 NTU)
- Large measurement range (0.000001 NTU to 0.1 NTU)
- Colour independent measurement principle (near bright infrared)
- It is compatible with process connection 1/2" Clamp and hygienic thread connection

**Customer Amul Pvt (Formerly known as Mother Dairy - Gandhinagar)**



**TM 4 Turbidity Meter**

**Installed TM 4 in QIP Lines**



**Product information and QR code**



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