Case Study

Predictive Maintenance with Vibration Sensors in a 24,000 TPA Petrochemical Plant

Case Brief

Customer Requirement

This large petrochemical complex manufacturing various chemical products depends on the undisrupted supply of polypropylene raw material for manufacturing. The polypropylene plant has a cluster of critical assets and any unplanned failures will result in productivity stoppage and huge financial loss. The operations team contacted SANDS to provide a solution for 24x7 online continuous condition monitoring.

Solution

We installed ARGUS Sensors to monitor the critical assets such as blowers and centrifuges on 24x7 online basis with an automatic data collection frequency of 1 minute. The vibration data spectrum was analyzed in-depth and found to be within normal limits.

Result

We received feedback from the plant condition monitoring team on the performance of ARGUS Sensors. They have predicted minor defect frequencies at the very initial stages & performed timely corrective actions resulting in avoiding breakdowns & major maintenance activities in the advanced stage.

About Us

Signals & Systems (India) Private Limited, known by the brand name SANDS, is primarily a technology company, developing and manufacturing niche-technology products using embedded technology for the Industrial segments, Generation, Transmission & Distribution segments of the Power Industry. On the Services front, we specialize in Meter Data Analytics for Power Distribution companies, to curb energy thefts and help in revenue protection. We also undertake online testing of energy meters on behalf of the utilities as part of the regulatory requirements.

📞 +91 8056020558

✉️ sales@sandsindia.com

🌐 www.sandsindia.com

📍 15/D-19, Third Main Road, SIPCOT IT Park, Siruseri, OMR, Chennai-603 103

Follow us on:

in f ▶️ 𝕏

SANDS