

One of the largest chemical manufacturers saved 16 hours of machine downtime with Smart Predictive Maintenance Solutions.

About the client



INDUSTRY
Chemical



PLANT CAPACITY
INR 132.49 Cr



MACHINES MONITORED
Spray Draw(SD) Blower &
Motor

Business Impact

16

HOURS

**Total Unexpected
Downtime saved**

~32

TONS

**Production
Losses Avoided**

800

USD

**Collateral
Damage Avoided**

Business Case:

The client wanted to revolutionize production and manufacturing processes, avail more time and capital for development and help its team build better and higher quality products for their consumers. One of their facilities in India manufactures spray and has SD blowers powered by motors. The Variable Frequency Drive (VFD) motor operating 365X24X7 impacted the overall throughput of the production in the plant.

Achieving the production target with zero downtime, retaining the functionality of the blower, and guaranteeing safety was the topmost priority.

Solution:

Infinite Uptime's Industrial Diagnostic Service supported with a patented Vibration Monitoring System offered instantaneous engaging insights into the health of the Spray Drawing (SD) Blower and the Motor. Vibration monitoring & Diagnostic tools map equipment health status and track the performance of the rotating equipment. This method uses statistical analysis and Machine Learning to predict the state of the equipment.

The real-time health recommendations enabled the workforce to prioritize the recommended measures and prevented unexpected downtime.

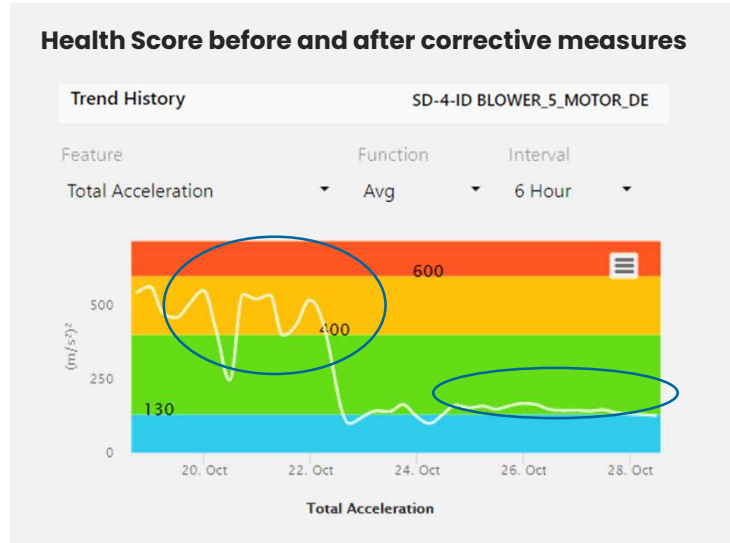




Implementing digital machine health solution

The Spray Drying Blower and the motor operating at a variable speed is crucial to the manufacturing process, and the unexpected breakdown of either of these adversely influences the production.

Infinite Uptime’s Predictive Maintenance solution tracked the live data of the equipment, submitted notifications before the abnormality impacted the plant, and recommended practical corrective decisions. Practically devised reliability programs thus stopped unexpected production shutdown and improved net plant productivity.



Summary:

The client wanted to focus on speed, quality and safety of their manufacturing and maintenance processes. The responsively designed Diagnostics and Predictive Maintenance Solution assured significantly increased operating time and extended the life of their rotating assets.

The in-depth study of the SD Blower ensured the achievement of the production targets, facilitated the replacement of the bearings and prevented damage to the rotor, stator and windings. The expert remedial guidelines also encouraged a reduction in wrench time, improving net asset availability.



Infinite Uptime is a global Predictive Maintenance Services and Plant Reliability solutions company. We help the maintenance and manufacturing teams to attain the highest level of plant reliability by reducing unplanned downtime, mitigating operational risks, and improving overall efficiency. We leverage industry 4.0 technologies and a digital-first approach to create responsive maintenance strategies for diverse global manufacturing industries including Cement, Steel, Metals & Mining, FMCG, Chemicals, Oil & Gas, Power, Pharma, Tire & Rubber, Automotive, Construction, Pipes and more.

Our advanced analytics and real-time industrial diagnostics help plant maintenance leaders and condition-based monitoring teams to accurately predict and avoid machine failure every single time. To create a reliability-based maintenance strategy contact our Customer Success Team today. Write to us at contact@infinite-uptime.com or visit <https://www.infinite-uptime.com> to know more.

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