



RELIABILITY MAINTENANCE– A case study



FERTILIZER, FOOD & PHARMA AUTOMATION MEET-2019

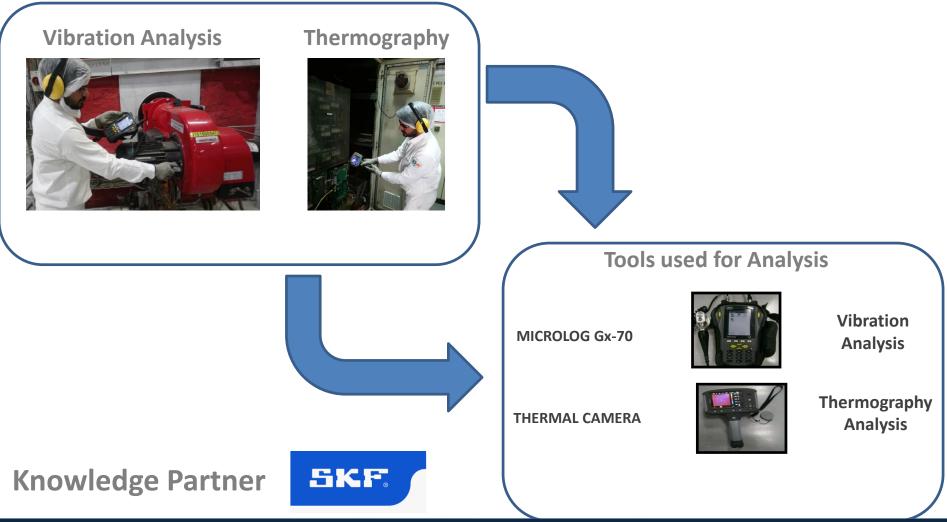
23rd November 2019

Presented by:-Harjot Ghuman Nestle India Ltd

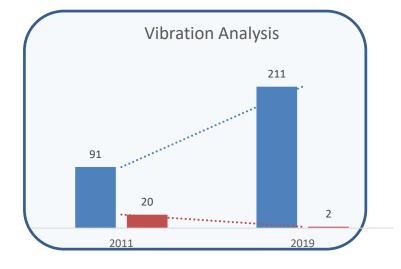


Journey of Condition Driven Maintenance started in 2009

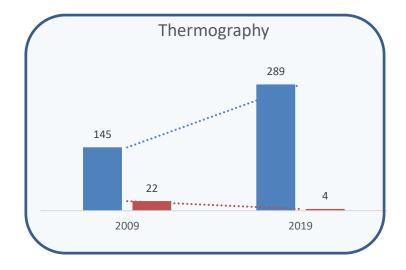
Objective: To improve equipment reliability by routine inspection of rotating machines & electrical panels.











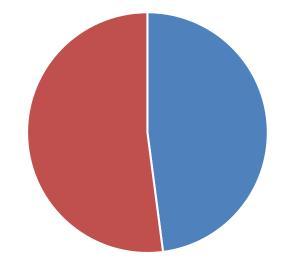




Scope of Reliability maintenance was expanded for Steam trap monitoring in 2017 **Objective:** To reduce steam leakages from traps



Steam Trap Monitoring No. of equipment covered in Sound monitoring



2017 2019

Year	No. of equipment covered
2017	162
2019	176

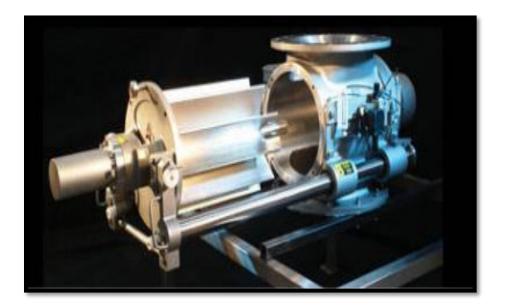
Reliability Maintenance – Ensuring Food safety



Scope of Reliability maintenance was expanded further for Sound Monitoring **Objective:** To ensure proper fitment of rotating equipment

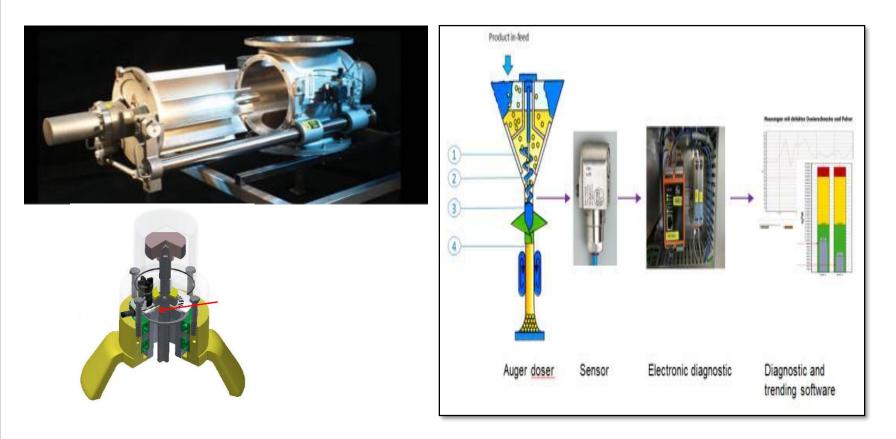
RISK: Food safety is the prime priority. Considering that interventions during cleaning can lead to wrong fitment, sound monitoring of the rotary equipment was started.





Reliability Maintenance – Online Monitering

Online contact detection system was installed on rotary equipment



Nestlé

Good Food, Good Life

Knowledge Partners



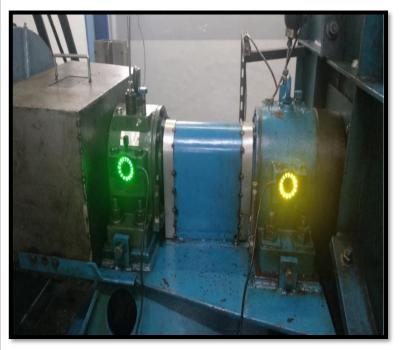
WAY FORWARD - IOT



Reliability Maintenance – IOT



Online Vibration & Temperature monitoring using IOT enabled sensors



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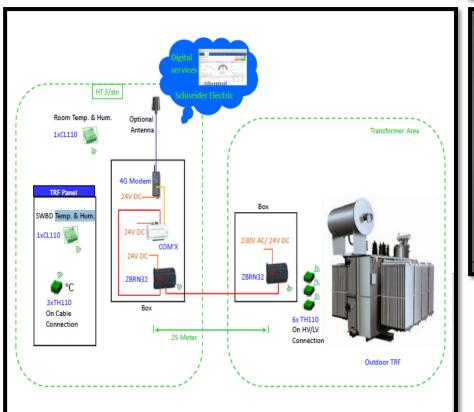
Vibration Dashboard IOT Solution

Reliability Maintenance – IOT



With EcoStruxure Asset Advisor, proactively identify and address issues inside electrical equipment to:

- 1. Mitigate electrical failure risk
- 2. Reduce downtime
- 3. Optimize maintenance work







Knowledge Partners Schneider



THANKS