



DATA
ANALYSIS

CONDITION MONITORING

“Optimize your plant maintenance activities via implementing state of the art Condition monitoring techniques with IMMUSCO”

Industrial stability is driven by the enhanced machinery availability to meet the production targets. IMMUSCO experts help in analyzing the equipment health while in operation to understand and plan the maintenance procedures accordingly. Condition monitoring goes one step ahead in ensuring equipment reliability by timely diagnosing the troublesome machinery for its critical parameters.

CONDITION MONITORING



Condition Monitoring Techniques

IMMUSCO provides complete plant integrity assessment solution via implementing following technologies:

Vibration Analysis

Over the years vibration monitoring and trending has evolved as a prominent source of condition monitoring and fault diagnosis. Every rotating and reciprocating machinery is studied for its baseline acceptable vibration limits upon commissioning and then trended over standard deviations measured in a scheduled vibration data acquisition and monitoring. Plant maintenance activities shift from preventive to proactive by timely addressing the vibration diagnostics, and thus enabling a reliable operation.

CONDITION MONITORING



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Vibration Diagnostics

With the help of state of the art vibration analyzers and internationally trained professional, IMMUSCO helps in identifying following major issues related to industrial machinery:



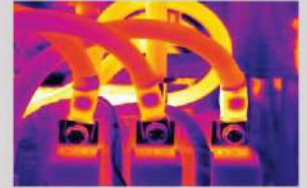
Structural looseness
Unbalance
Misalignment

Rotating looseness
Bearing early stage faults
Soft Footing

Resonance
Pump cavitation
Flow turbulence

Infrared Thermography

Asset health assessment is performed through temperature data analysis via utilizing world class diverse range of infrared thermal imaging cameras. Changes in temperature of a body is monitored through non-contact thermal imaging, which produced a contoured plot of the captured image with a readable scale of temperature gradients. IRT industrial applications include:



Transformers
Electrical Panels

Heat ducts
Wall seepages

Motors
Circuit breakers

Ultrasonic Acoustic Emission Testing

Pneumatic valves and compressed air/gas supply systems are analyzed for leakages through non-contact leakage detection procedure by utilizing an ultrasonic acoustic signal analyzer. Furthermore, a contact module enables the instrument to measure performance drops in the steam traps and valves.



Field Balancing and Laser Alignment

IMMUSCO's Providers field as well as workshop balancing facilities as per ISO Standard though its qualified inspectors decide this IMMUSCO also perfume Alignment jobs and have specialty in cooling tower balancing and alignment



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