



ABIZER INDIA INNOVATIONS PVT LTD



Established in 2007, **ABIZER INDIA INNOVATIONS PVT LTD (AIIPL)** has grown and diversified to become a global player with businesses in key industry verticals such as Oil & Gas, Petrochemical, Power, Marine, Infrastructure, Process Industries and Renewable Energy.

We are in the business of Domestic and International Procurement and Supply of Engineering Products, Stocking, Distribution, Product Marketing and Engineering Services to various Industrial Sectors.

Over the period we have pioneered in providing quality, innovative and cost-effective services and solutions in the field of engineering services such as Condition Monitoring Services to various industrial sectors and Solar Power Plant Installations for residential and commercial buildings.

Endowed with a team of experienced and young committed professionals with Global foot prints in various Engineering and business fields with proven track record in providing innovative and cutting-edge solutions.

We will always be creating or adding value to our customers and partners, continuously learning about new technologies, improving our skills, and providing high quality services and processes with integrity. We will strive to expand our knowledge, our suppliers network, and our customers reach.

MAINTENANCE SERVICES



We provide operation and maintenance services for Industrial Plants, commercial & residential complexes. Our expert team brings the best by implementing Performance-based Operation and Maintenance Services which reduces downtime and surprise Breakdowns in turn contributing the following:

- Optimum Plant availability
- Minimization of Maintenance Costs
- Optimization of Inventory

CONDITION MONITORING SERVICES



We provide innovative products and services in the field of proactive and predictive maintenance.

Tools and Techniques

At 'AIPL', we have the expertise and resources required to implement cost-effective condition monitoring programs that help organisations of all sizes reduce downtime, increase machine productivity and eliminate repair costs caused by unexpected breakdowns.

Generally, condition monitoring techniques are used on a variety of assets such as pumps, electric motors, internal combustion engines, gearboxes, fans, electrical control panels, compressed air and hydraulic systems etc. We enable our clients to actively prevent breakdowns, reduce maintenance costs, extend machine life and spare parts consumption while saving energy and the environment.



We support in assessing the health of plant equipment by periodic monitoring, trending, and advanced analysis using Vibration Analysis, Thermography and Ultrasound Inspection Analysis techniques.

Our services span different industries including but not limited to:

- Onshore and offshore Oil & Gas plants and related industries
- Power & Water stations
- Marine and aviation

- Aluminum, steel, pulp & paper, pharmaceutical, and cement
- Commercial buildings like hotels, malls, hospitals, airports, and warehouses.
- Food processing and FMCG Storage and Manufacturing Facilities

The following techniques can be used solely or in combination as part of a condition based maintenance (CBM) strategy to monitor the performance of a machine or a component whilst in operation.

- **VIBRATION ANALYSIS**
- **THERMOGRAPHY**
- **ULTRASOUND ANALYSIS**
- **FIELD BALANCING**
- **LASER ALIGNMENT.**
- **MOTOR CURRENT ANALYSIS**
- **PARTIAL DISCHARGE (PD) TESTING**
- **OIL ANALYSIS**

VIBRATION ANALYSIS

Vibration Analysis determines the rotating machinery health condition under various operating conditions by evaluating mechanical vibration. A change in vibration amplitude at specific frequencies can indicate a change in machine health condition.

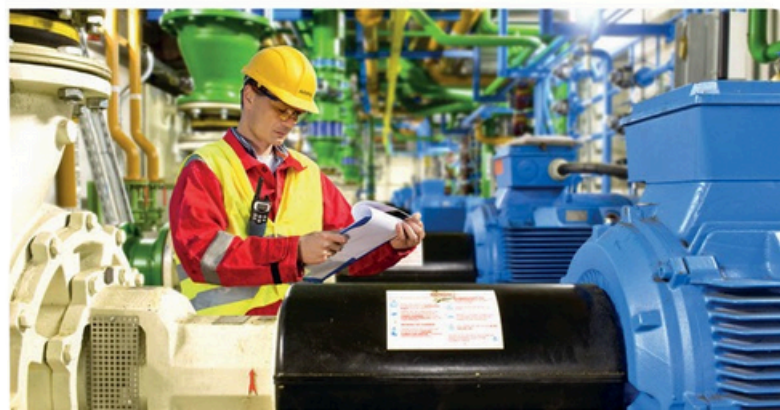


Chiller Inspection Service

The chiller compressor is typically the main component and highest cost asset of the system. To ensure the chiller system is operating at peak performance, AIPL offers a testing package which includes:

- Vibration data collection and analysis on the chiller compressor and related pumps
- Infrared inspection on the motor starter, motor connections, the motor control center and frequency drive
- Motor signature analysis

Our chiller inspection service identifies impending problems which limits damage, unplanned downtime or catastrophic failure. Other benefits of this service include; reduced energy consumption, minimized repair costs and extended asset life.



THERMOGRAPHY



Infrared inspection services are a proven effective part of an overall condition-based maintenance strategy. Clients continue to rely on this cost-effective means of testing during normal operations to keep their electrical and mechanical equipment operating safely and efficiently.



- Quick detection of problems without service interruption
- Documented energy savings
- Increased safety and reduced fire risk
- Significant reduction in unscheduled power outages
- Minimized preventative maintenance and troubleshooting time
- OEM warranty protection
- Reduced insurance premiums
- Infrared inspections are a simple way to ensure your equipment is operating optimally

ULTRASOUND ANALYSIS

Ultrasound Inspection provides an early warning sign of bearing failure, detects leaks, detects lack of lubrication and over lubrication problems.

Nowadays saving of energy is an important topic in all areas in which compressed air systems are used. The finding and elimination of leaks in compressed air systems alone can save up to 35 % of the energy costs associated with the use of a compressor. Regular ultrasonic inspections and preventative maintenance can also increase the operational reliability of equipment.

- Ultrasonic Leak Detection
- Ultrasonic Tightness Testing
- Steam Trap & Valve Inspection
- Bearing Monitoring & Lubrication
- Detection of Partial Discharges



KEY BENEFITS OF THE 'AIPL' SERVICE SOLUTION



Minimize
Equipment
Downtime



Optimize
Equipment
Life



Reduce
Maintenance
Costs



Increased
Client
Profits

We are passionately committed to fully understand our customers' needs and developing easy-to-use, end-to-end solutions that meet their exacting requirements.

We would be glad to extend our services to your esteemed organization. Our reputation and experience in this industry would be an added advantage for us to provide you quality service and support.



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