

Integrated Industrial Services

(SRI RADHA RAMAN ENTERPRISE, Pune)

(At service since 2015)

Business Portfolio



Plant Asset Care Solutions

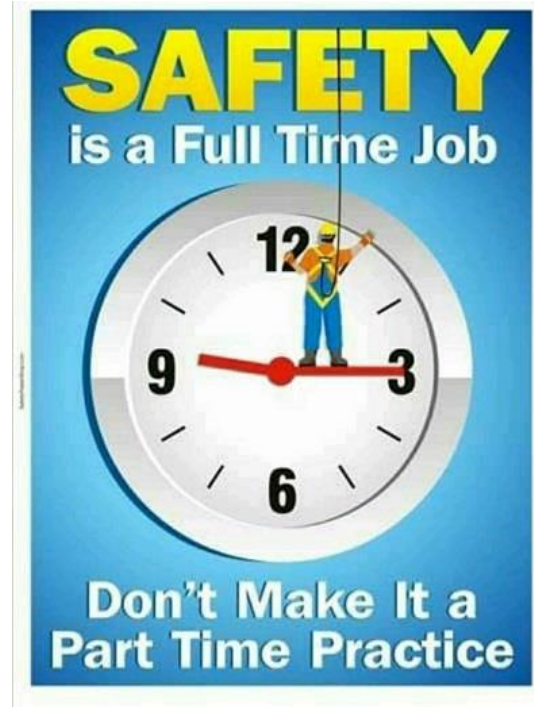


Industry 4.0 Customized Solutions



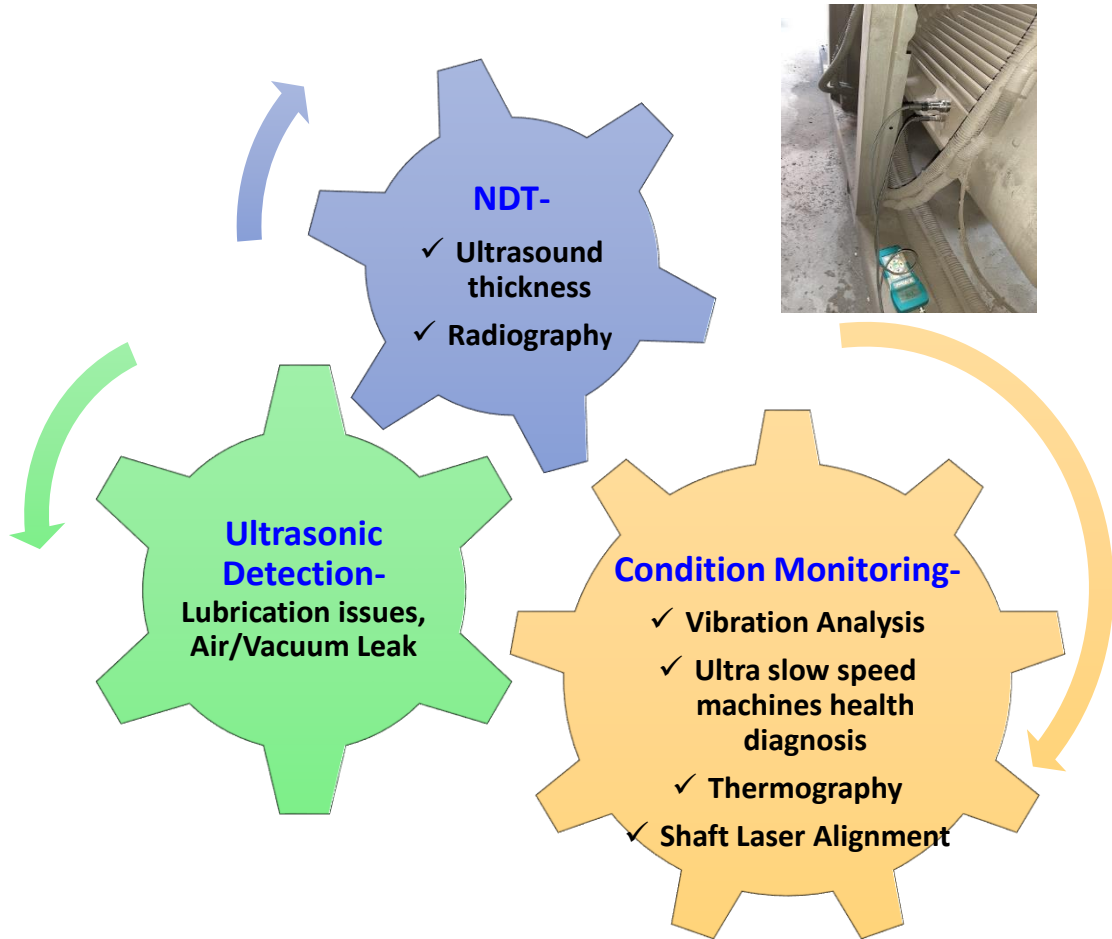
Engineering Products

Safety is our First Priority

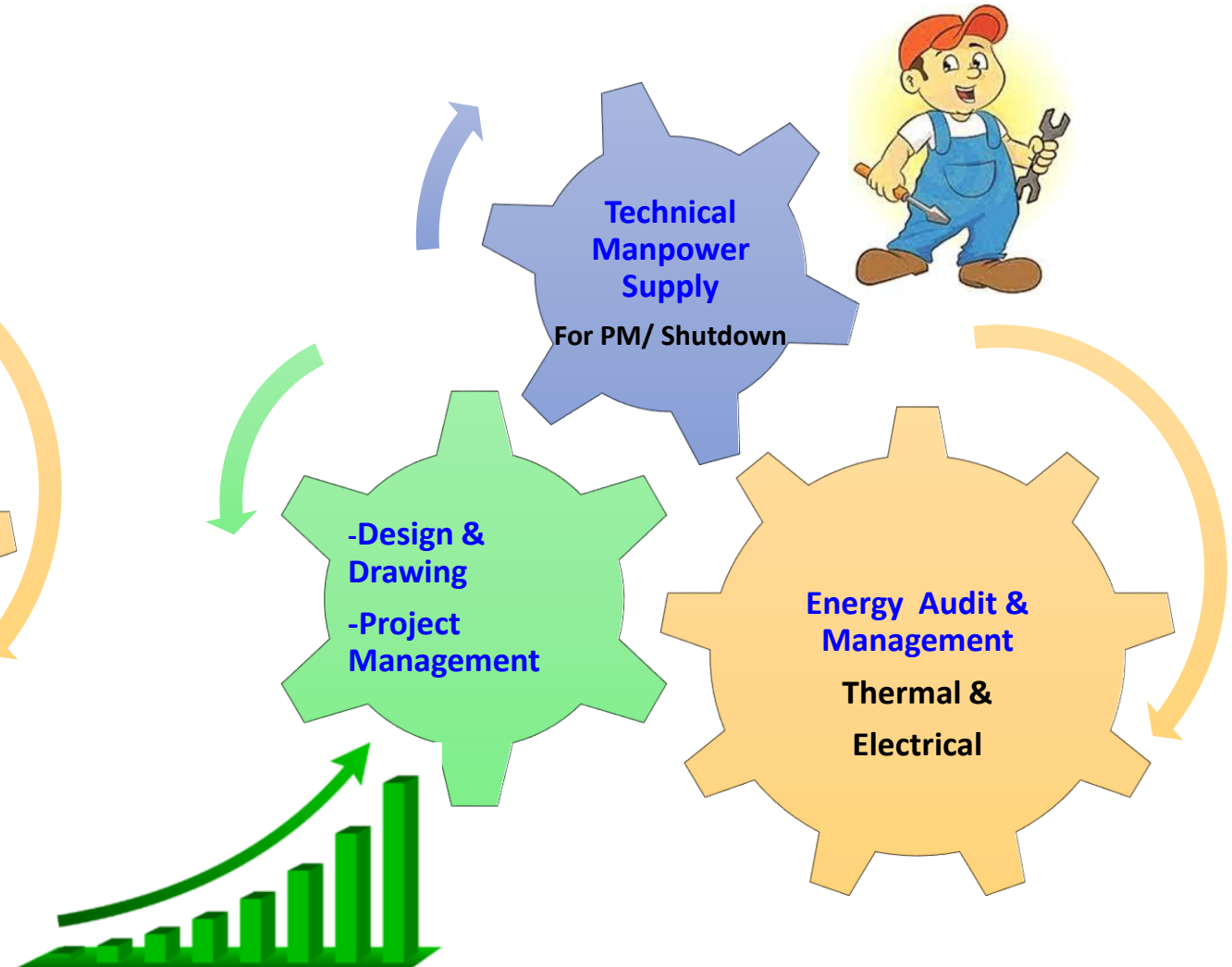


A.1. Plant Asset Care Solutions

On Site Machine Monitoring / Diagnosis



Operations Excellence



A.2. Plant Asset Care Solutions

Training & Development

S. No.	Course	Topics Covered	Duration
1	Machinery Vibration Measurements and Analysis (Basic)	Basic Concepts , Measurements techniques and basic vibration analysis.	01 Day (08 Hrs.)
2	Machinery Vibration Measurements and Analysis (Advance)	Detailed vibration analysis and various case studies.	02 Days (16 hrs.)
3	Integrated Asset Management	Approach to holistic maintenance methodology, introduction to effective Processes for managing the physical assets and reduce life cycle cost of equipments	01 Day (08 Hrs.)
4	Comprehensive Condition Monitoring Approach	Various condition monitoring approach to assess the health of equipments.	½ Day (04 Hrs.)
5	Practical approach to installation and maintenance of bearings.	Introduction of industrial bearings, installation & inspection procedures and maintenance methodology.	01 Day (08 Hrs.)
6	Maintenance Strategies	Introduction to Reliability Centred Maintenance and derive right maintenance strategies for plant and machinery	01 Day (08 Hrs.)



A.3. Plant Asset Care Solutions

MRO Products



Super Strong Metal Putty Paste –

1. Fast repair & maintenance of failed equipment's on site without big outages & production loss

2. Energy Saving Putty



Cientele List



IndianOil



B.1. Industry 4.0 Customized Solutions

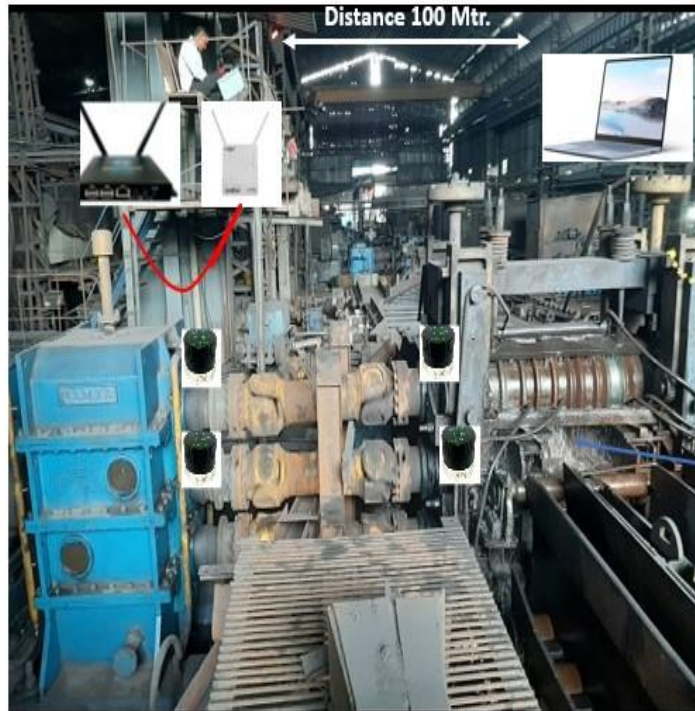
Predictive Maintenance

Real Time wireless Monitoring of Vibration & Temp. with FFT spectrum

Process Parameters

Real Time wire or wireless Monitoring of Process Parameter like Temp., Pressure, Humidity, Gas, Flow etc.

Vibration System Architecture at Plant Site



Laptop loaded with DHCP software is kept at height inside the office. The vibration data transfer from wi-fi router router to laptop

Water Splash

Router & SIM card based wi-fi router kept in control room just above machine

Vibration data from wireless sensor to gateway



B.2. Industry 4.0 Customized Solutions

Mechanical Integrity

Real Time wire or wireless Thickness Monitoring

Utilizing ultrasound technique, pipes, plates or boiler tubes thickness can be measured accurately, so that defects such as corrosion and erosion can be found.

Mechanical Integrity

Underground Leak Detection

Underground pipes and pipelines are everywhere. Sensors can monitor underground leaks with ultrasound and sound sensors remotely

Mechanical Integrity

Real Time wire or wireless Monitoring of Structure Health Monitoring

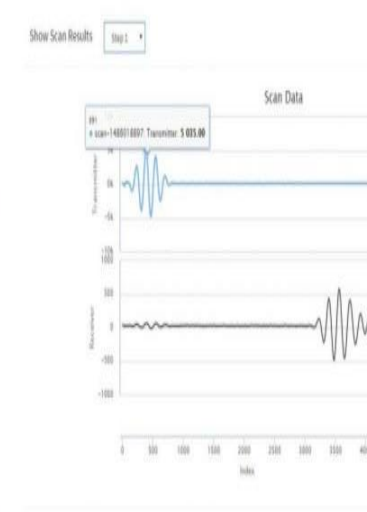
Metal structure such as steel, aluminum, iron is widely used in trains, railroads, power plants, heavy machinery, bridges. The sensors can detect cracks, deformation, corrosion & erosion.



Sensors

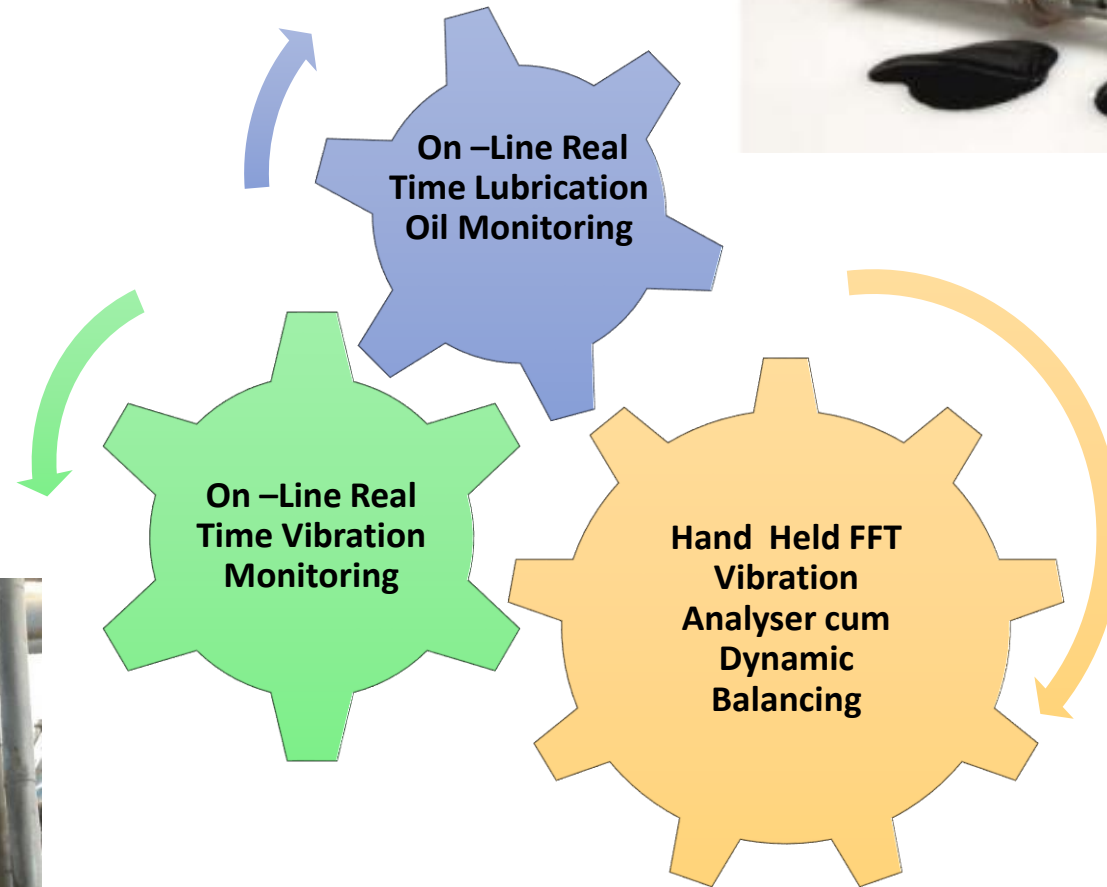


Data acquisition devices



Software

C. Engineering Products



Key Clients of SRRE

Our Clients



Shah Pulp & Paper, Vapi



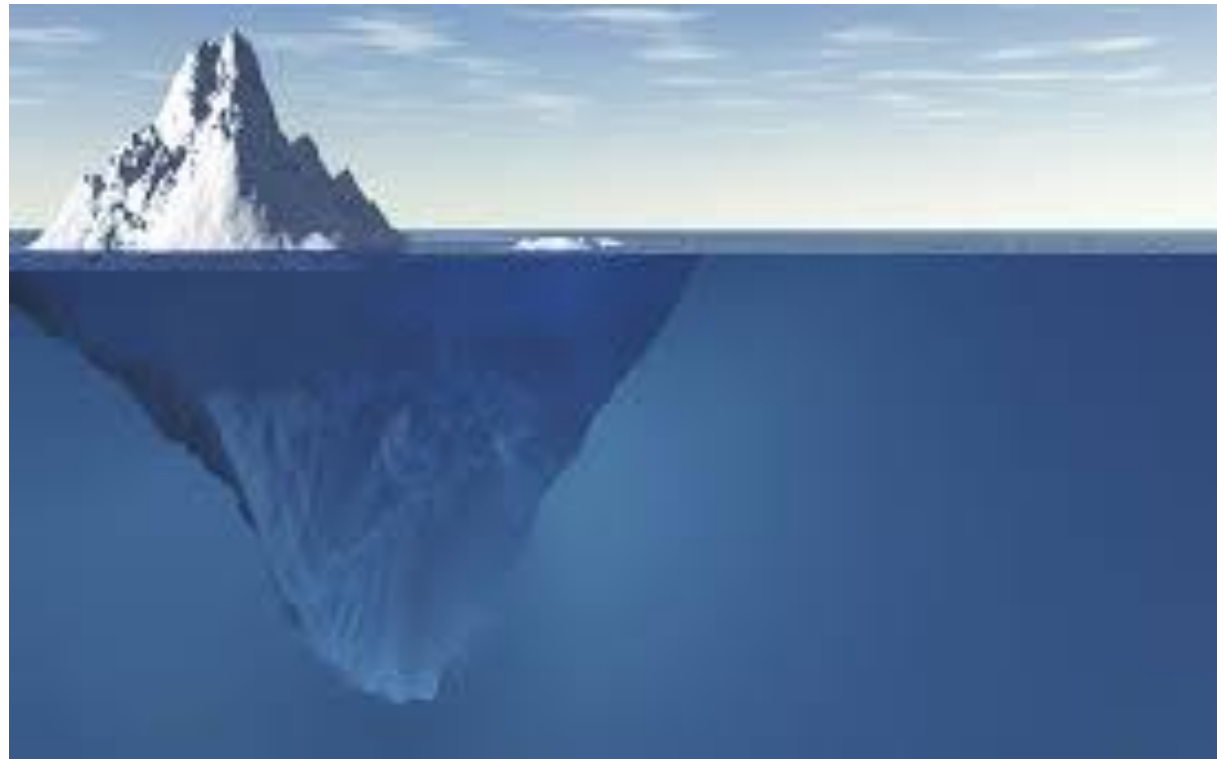
flexible solutions



Since 2015... sharing relation of trustworthiness and loyalty with our Clients

Result of Our Services/ Solutions is to reduce your

- ✓ **Direct Maintenance Cost** which is like a tip of ICE BERG
- ✓ **Indirect Maintenance cost** which contributes 90% and is hidden like the bottom of ICE BERG. This is the primary focus of our holistic approach towards integrated plant maintenance or physical asset management





- **SRRE Team At Work**



Project Profile: DNV-GL Mumbai

ONGC- On- Shore Oil Rig

Location: India

Year: 2015



Work Scope:

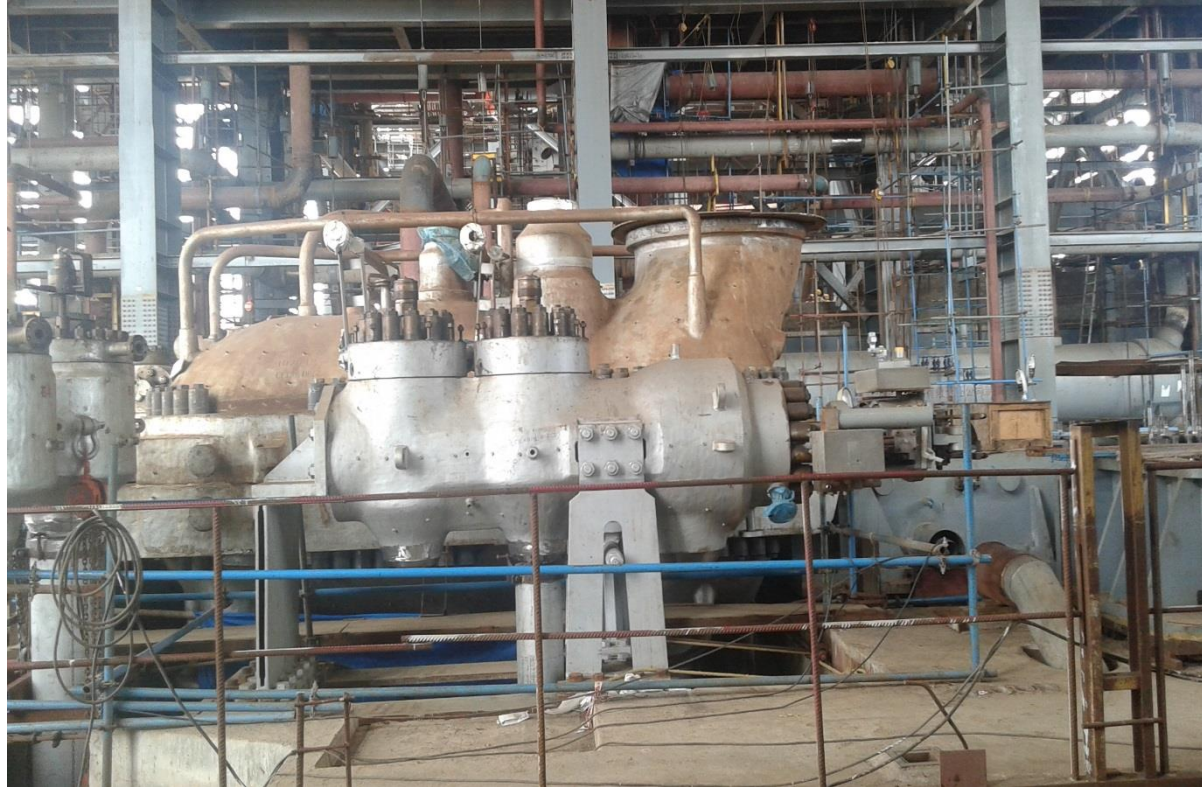
1. Vibration Analysis
2. Acoustic Emission
3. Thermography

Plant Data:

Total: 20 Oil rigs (at KARAIKAL, RAJAMUNDRY , SHIVSAGAR-ASSAM, MAHAISANA- GUJARAT, BORHOLLA & JORHAT- ASSAM

Ref.: DNV-GL: Mr. Vardaraja Salian

Project Profile: Forbes Marshall, Pune
Warna Power Generation , Kohlapur



Location: India
Year: 2015

Work Scope:

Vibration analysis of high vibrations in STG

Plant Data:

Sugar Mill & Dairy Plant

40 MW STG

Ref. : Mr. Pranab , Forbes Marshall , DGM- Services

Project Profile: TIMKEN INDIA LIMITED

HINDALCO FRP , Talaja, Mumbai



Ref.: Mr. Dinesh Jain, TIMKEN INDIA

Location: India

Year: 2015-17

Work Scope:

1. Permanent deputation of 1x engineer at site
2. Vibration analyser
3. Thermography Camera
4. Dynamic Balancing

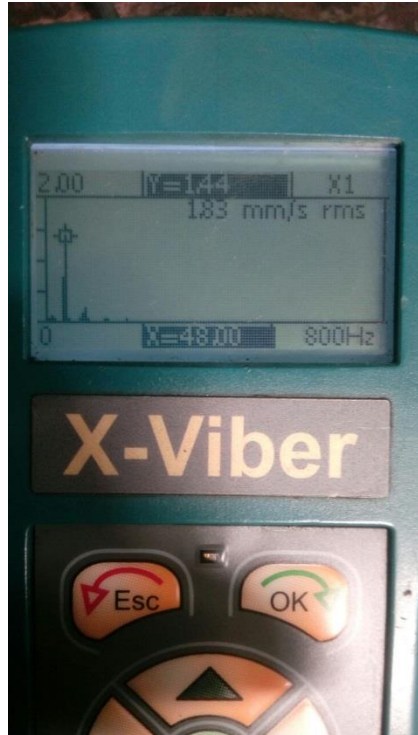
Plant Data:

Aluminum scrap recycling plant 20 KTPA capacity (FRP-Flat Rolled Products)

1. Remelter
2. Holder
3. Annealing Furnace
4. Soaking Pit
5. Cold Rolling Mill
6. Hot Rolling Mill
7. Realer , slitter – Finishing House

Project Profile: TIMKEN INDIA LIMITED
HINDALCO, Sambhalpur, Odisha

Location: India
Year: 2015-17



Work Scope:

1. Permanent deputation of 1x engineer at site
2. Vibration analyser
3. Thermography Camera
4. Laser Alignment Kit
5. Dynamic Balancing Kit

Plant Data:

Aluminum Conversion Plant: 135 KTPA FRP recycled metal

1. Remelter
2. Holder
3. Annealing Furnace
4. Soaking Pit
5. Cold Rolling Mill
6. Hot Rolling Mill
7. Reeler , slitter – Finishing House

Ref.: Mr. Dinesh Jain, TIMKEN INDIA

Project Profile: HPCL, Solapur
Hindustan Petroleum Corp. Ltd. (HPCL)



Location: India
Year: 2016

Work Scope:

- 1. RCM Training at HPCL Vadodara**
- 2. Vibration Analysis of Product Handling Pumps (Petrol & Diesel) at Solapur**

Plant Data:

HPCL Oil Depot at Solapur

Ref.: Mr. Susheel Kumar, HPCL Solapur

Project Profile: Thermax, Pune
Reliance Industries Limited, Hazira & Dahej

Location: India
Year: 2017



Work Scope:

1. Vibration Analysis

2. Dynamic Balancing of ID fan of 90 MW CFBC Boiler (Thermax)

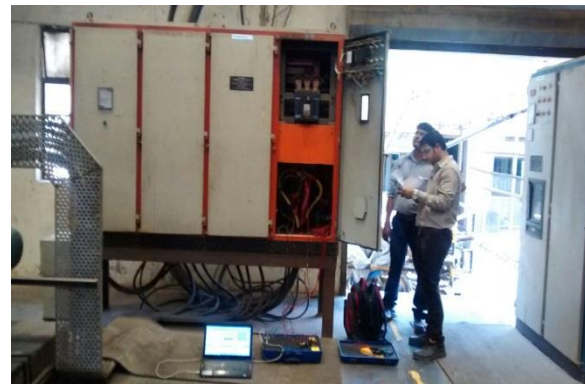
Plant Data:

RIL Petroleum Complex- Captive Power Plant

Ref.: Mr. Tambi, Thermax, Pune

Project Profile: ENERCO Energy Solutions LLP, Mumbai
Primal Glass Ltd., Bharuch

Location: India
Year:2015



Work Scope:

1. **Vibration Analysis**
2. **Motor Current Signature Analysis**
3. **Corona Discharge**

Plant Data:

340 TPD capacity
Glass Products

Ref.: Mr. Rathin Vyas, CEO

Project Profile: ISMT Group

ISMT Limited (Ahmednagar , Jijuri and Baramati Plant- Seamless Tube Steel Plant

Location: India

Year: 2016-2022



Work Scope:

1. Vibration Analysis
2. RCM Training
3. Supply of hand held vibration analyser -02 nos.

Plant data: 6mm to 273 mm dia. Seamless tubes

Hot Finishing Equipment at Ahmednagar Plant

All Hot Finishing equipment has been supplied by Mannesman Huttentechnik, Germany

- Piercing Mills
- PQF Mill
- Assel Mills
- Stretch Reducing Mill
- Hot Sizing Mill

Cold Finishing Equipment

- Cold Pilger Mills
- Cold Draw Benches
- Cold Sizing Mill

Finishing Facilities

- Heat Treatment Furnaces (Normalizing, Annealing, Hardening, Spheroidizing, Quench & Tempering)
- End Finishing Machines (Cutting, Threading, Beveling, Upsetting)
- Peeling Machines
- Cold Ring Rolling Machines (Bad Deuben)
- Swaging Machines
- Stenciling & Lacquering Machines

Ref.: Mr. Durga Prasad Rao – Head Projects, ISMT, Viman Nagar Pune office

Project Profile: JK Cement

J K Laxmi Cement Ltd. , Sirohi, Rajasthan

Location: India

Year:2016



Work Scope:

1.RCM Training at RTC

2. RCM- Study and recommendation of frequent failures of VRM mill

Plant Data:

Cement Plant- 13 MTPA

Mr. P. Kabra, HOD- Mech. Maintenance

Project Profile: HVD Group, Mumbai

Shah Pulp & Paper Mill, Vapi



Location: India

Year: 2016

Work Scope:

Vibration Analysis of Paper Machine

Plant Data:

300 TPD Newsprint Paper Mill.

Reference: Mr. Sudhir Choudhary- Head- Operations

Project Profile: Delfingen

Delfingen India Pvt. Ltd., Pune

Location: India

Year: 2017-18

Year: 2018-19

Year 2019-20

Year 2021-22



Work Scope:

AMC of Vibration Analysis of Extruders and
Other equipment's

Plant Data: Automotive Parts

Extruders

Blower & Fans

DG Sets

Cooling Towers

Ref.: Mr. Gorakh Bhong, HOD- Mech.

Project Profile: Turtle Turbines Pvt. Ltd.,Pune

Deepak Nitrite Ltd. , Dahej



Location: India

Year: 2017

Work Scope:

Vibration Analysis of 250 kW turbine

Plant Data:

Mfr. Of Sodium Nitrite, Sodium Nitrate etc..

Ref.: Mr. Venkatesh- Business Head , Turtle Turbine

Project Profile: Millennium Paper Mill , Morbi

Unit: Duplex Board

Location: Morbi, Gujarat India

Year: 2017-18

Year : 2021-22



Work Scope:

Root Cause Failure Analysis of repetitive bearing failure in 2nd press roll

Plant Data:

Recycling 100% Waste Paper with production of approximately. 225 MT per day

Reference: Mr. Rahul Bhai Patel- Director Technical

Project Profile: Orchid Laminates Pvt. Ltd.

Unit: Duplex Paper Mill (UNIT-1 & 2)

Location: Bangalore, India

Year: 2017-18/ 2018-19/ 2019-20



Work Scope:

AMC of Vibration Analysis and Thermography of Paper Mill including Boiler auxiliaries (UNIT-1)

3rd Party Inspection(NEW UNIT-2)

Bearing Assly. Support (NEW UNIT-2)

Design review of new felt roll and bearing life calculation

Plant Data:

300 TPD with Utility (UNIT-1)

300 TPD, Twin Wire Kraft Machine (400 MPM, UNIT-2)

Reference: Mr. Pramod Tantia – Chairman

Project Profile: Venkraft Paper Mill Pvt. Ltd.

Unit: Duplex Paper Mill

Location: Housur, Tamilnadu, India
Year: 2017-18 / 2018-19



Work Scope:

AMC of Vibration Analysis and Thermography of Paper Mill including Boiler auxiliaries

Plant Data:

300 TPD with Utility

Reference: Mr. Subhas Chandru – Chairman

Project Profile: **Filtrum Fibre Technology Ltd.**

Unit: **Paper Mill (Automotive Filter Paper/synthetic paper)**

Location: **Nandur, Pune,India**

Year: **2018-19 , 2019-20, 2020-21, 2021-2022**



Work Scope:

Vibration analysis and thermography of Paper Machine, Coating Plant and Boiler unit

Plant Data: 25 TPD Paper machine /50 MPM

Reference: Mr. D. Kulkarni- Maintenance Head

Project Profile: **Indotech Industrial Solutions Pvt. Ltd**

Unit: **Pune**

Location: Warje, Pune, India

Year: 2019-20



Work Scope:

Audit of plant and issue the chartered engineer certificate for:

Achieved annual production rate certified and Statement of installed manufacturing capacity certified

Plant Data:

Turn key projects of Dairy, Sugar, Textile, Telecom Network Establishment, Power Infrastructure Development, Renewable Energy System (Solar, Wind, & Hybrid).

Reference: Mr. Bhausahab Janjire– MD

Project Profile: **Filtrum Fibre Technology Ltd.**

Unit: **Paper Mill (Automotive Filter Paper/synthetic paper)**

Location: **Nandur, Pune, India**

Year: **2019-20**



Work Scope:

Ultrasonic thickness gauging of 40 Mtr. Boiler chimney

Plant Data: 25 TPD Paper machine /50 MPM

Reference: Mr. D. Kulkarni- Maintenance Head

Project Profile: Orchid Laminates Pvt. Ltd.

Unit: Duplex Paper Mill (UNIT-1 & 2)



Location: Bangalore, India

Year: 2019-20

Work Scope:

AMC of Vibration Analysis and Thermography of Paper Mill including Boiler auxiliaries (UNIT-1)

3rd Party Inspection(NEW UNIT-2)

Bearing Assly. Support (NEW UNIT-2)

Design review of new felt roll and bearing life calculation

Plant Data:

300 TPD with Utility (UNIT-1)

300 TPD, Twin Wire Kraft Machine (400 MPM, UNIT-2)

Reference: Mr. Pramod Tantia – Chairman

Project Profile: Sri Ramaligeswara Paper mill Pvt. Ltd

Unit: Printing & Writing Paper Mill

Location: Rajahmundry , A.P, India

Year: 2019-20



Work Scope:

Energy Audit of mill

Study and suggest Paper making process/ quality improvement

Identify process and engineering losses and suggest remedies to increase machine up-time

Study and suggest actions for paper machine capacity enhancement

Plant Data:

25 TPD , Printing and writing paper mill

Reference: Mr. Ramesh Reddy – Director

Project Profile: IOCL Mumbai (Head Quarter)

Unit: IOCL

Location/ Venue : Hotel Hindustan International, Pune, India

Year: 2019-20



Work Scope:

01 day training on bearings, compressors and vibration analysis to IOCL Mumbai core technical support team and sales team

Plant Data:

IOCL Mumbai

Reference: Mr. Rajesh Nambiar- Business Development Head

Project Profile: Hindalco, Mauda, Nagpur

Unit: Aluminium Converting Unit

Location: Mauda, Nagpur, India

Year: 2019-20



Work Scope:

Root Cause Failure Analysis of Castor Mill Top Roll Planetary Gear Box and assistance in supervision of dismantling of planetary gearbox

Plant Data:

Rolling Flat Rolled Products & foil manufacturing

Reference: Mr. M V Raghu- Mechanical Head

Project Profile: Sudarshan Chemicals Ltd.(Through Turtle Turbine , Pune)

Unit: Pigment, Dye and Chemical

Location: Mahad, Raigad, Maharashtra
Year: 2021-22



Work Scope:

- Root Cause Failure Analysis of high vibrations in 2.5 MW steam turbine during commissioning period
- Dynamic Balancing at site after RCA findings

TG data Data:

55 kg/cm² back pressure turbine, 6000 RPM

Reference: Mr. Venkatesh, Turtle Turbine , Pune

Project Profile: SRJ Petty Steel Pvt. Ltd, Jalana, Maharashtra

Unit: Cast Billets/ Tor steel Bar (Shree OM Steel)

Location: Jalana, Maharashtra

Year: 2021-22

Work Scope: Reliability Centered Maintenance

- Root Cause Failure Analysis of Roll & Bearing failure in Mill
- On Shop Maintenance supervision for roll & bearing assembly with best practices and training to technicians
- Training vibration analysis and best maintenance practices



Reference: Mr. Rohit Kapoor (Roll Shop Head)

Project Profile: **Filtrum Fibre Technology Ltd.**

Unit: **Paper Mill (Automotive Filter Paper/synthetic paper)**

Location: **Nandur, Pune, India**

Year: **2022-23**



Work Scope:

Asset Integrity Testing of Methanol Tank and Pipe Line – Ultrasonic Thickness Mapping, Tank & Pipe Welding Joint UT + Boiler Chimney Foundation Bolt Integrity Testing

Plant Data: 25 TPD Paper machine /50 MPM

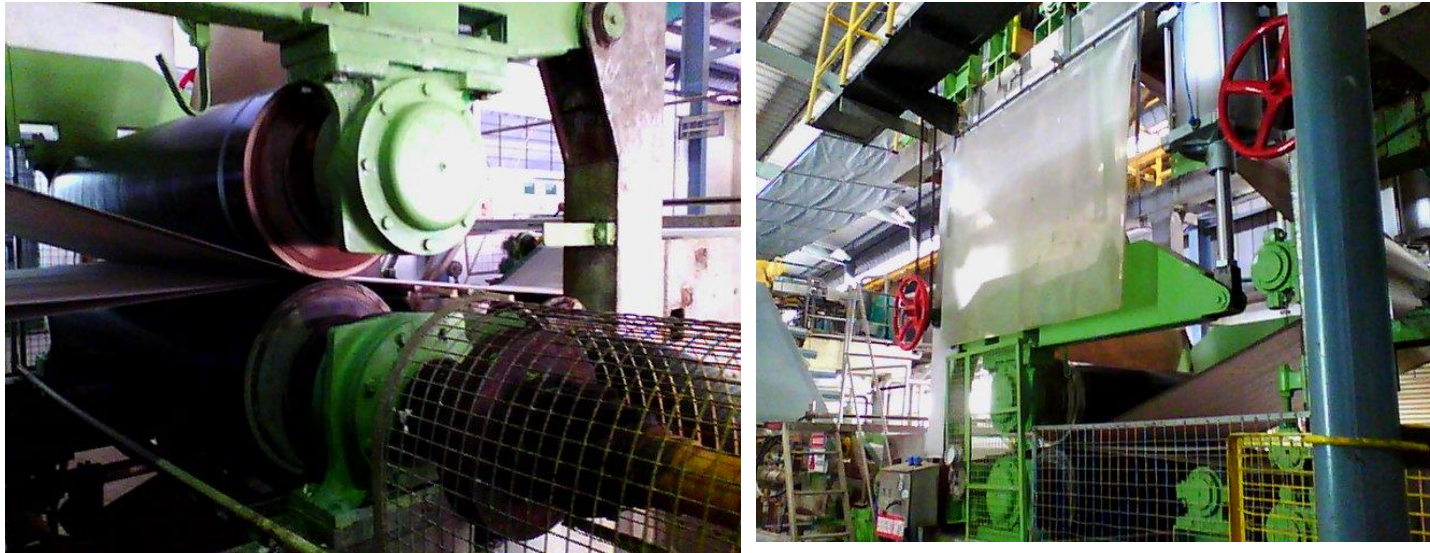
Reference: **Mr. Vishwanath Ugade (Maintenance Manager)**

Project Profile: **Filtrum Fibre Technology Ltd.**

Unit: **Paper Mill (Automotive Filter Paper/synthetic paper)**

Location: **Nandur, Pune, India**

Year: **2022-23**



Work Scope:

Asset Integrity Testing of Paper Machine Wet End Structure before machine speed up

Plant Data: 25 TPD Paper machine /50 MPM

Reference: Mr. Vishwanath Ugade (Maintenance Manager)

Project Profile: **Filtrum Fibre Technology Ltd.**

Unit: **Paper Mill (Automotive Filter Paper/synthetic paper)**

Location: **Nandur, Pune, India**
Year: **2023-24**

Report No.: SRRE/NDT/2023-24/307/UDTM/01 **Date:** 03.08.2023

Duration: 2FD



Work Scope:

Ultrasonic thickness gauging of 40 Mtr. Boiler chimney

Plant Data: 25 TPD Paper machine /50 MPM

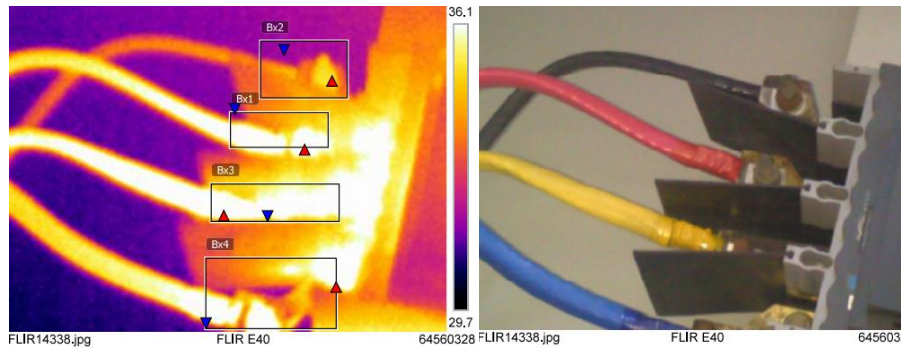
Reference: Mr. Vishwanath Ugade (Maintenance Manager)

Project Profile: **Filtrum Fibre Technology Ltd.**

Unit: **Paper Mill (Automotive Filter Paper/synthetic paper)**

Location: **Nandur, Pune, India**

Year: **2023-24**



Work Scope:

Vibration Analysis and Thermography

Plant Data: 25 TPD Paper machine /50 MPM

Reference: **Mr. Vishwanath Ugade (Maintenance Manager)**

Photo Gallery



Committed to Deliver the Excellence
Thanks