



TUSHAR CHAVAN

Plant Operations & Maintenance /
Erection & Commissioning / Project Management

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Profile Summary

- ❑ A result-oriented Mechanical Engineer Professional with over 14 years combined experience in Maintenance and Project. Can perform Predictive, Preventive & Breakdown Maintenance of Machines
- ❑ Pivotal in managing Contract Workforce of 60 people involved in Electrical, Fabrication, Civil, Material Handling Equipment (MHE), Scaffolding & Insulation.
- ❑ Successfully executed various tools such as Equipment FMEA, RCA, TPM, Kaizens, Poka Yoke & 5S; led the deployment of 21 in-house workmen in 3 shifts for regular maintenance activities
- ❑ Rich working exposure in Preventive, predictive & breakdown maintenance of Paint and Resin processing equipment's like Reactors, Agitators, Mixers, Twin Shaft Dispersers, Ball mills, Filters, High speed mixers, Sand mill, Pumps, Blowers, Centrifuge, Packing Machines, Pneumatic systems, Hydraulic system, Storage tanks, Lab Equipment
- ❑ Skilled in LOTO system & Permit compliance, HAZOP, MOC, HIRA; followed all safety rules & regulation released by Safety Department
- ❑ Spearheaded plant activities with accountability for strategic utilization & deployment of resources to achieve organizational objectives
- ❑ Introduced manufacturing processes and promoted new technology to minimize customer costs and improve margins
- ❑ Enhanced plant service quality and equipment reliability by improving workflows & optimizing maintenance processes
- ❑ Determined and monitored the overall resource capacity (personnel and equipment) for the factory and set priorities to maintain production expectations
- ❑ Reviewed annual maintenance of critical equipment and debottlenecking for enhancement of plant capacity; identified areas of obstruction and took steps to rectify it

Core Competencies

Plant Operations & Maintenance

Project Management

Erection & Commissioning /
Troubleshooting

Techno-Commercial Functions

Root Cause Analysis / FMEA (Failure
Modes & Effect Analysis

Process Enhancement

Predictive & Preventive Maintenance

Quality & Safety Management

Resource Optimization / Trainings

Work Experience

Jun'21 - Feb'23: M/s Kansai Nerolac Paints Ltd., Lote Parshuram MIDC Chiplun as Executive- Maintenance & Projects

Role:

- ❑ Managing preventive & breakdown maintenance of Powder Coating Unit processing equipment's like Single & Twin Screw Extruders, Chilled water belt conveyor, Air Classifying Mill, Pre-mixers, Blending Tanks, Double Cone Mixers, Blowers, AHU, Heat Exchangers, Box Taping Machines and Polyester Resin Unit processing equipment's like Thermic Fluid Heated Reactors, Heat Exchangers, Holding Tank, Agitators, Solution Tanks, Pack Column, Vapour Column, Scrubbing System, Lab Equipment
- ❑ Performing:
 - Preventive, Predictive & Annual shutdown maintenance of Utility equipment such as Thermic Fluid Heaters, Air Compressors, Chilling plants, Cooling Tower, Heat Exchangers, Water Ring & Dry Vacuum Pumps, Centrifugal Pumps, AODD Pumps, N2 Plant, RO Units, DM Plant, WTP, ETP & Fire Hydrant system.
 - Maintenance of MHEs like Diesel Forklifts & Battery-operated Stackers, Hi-Reach, BOPT & HOPT.
- ❑ Achieving breakdowns of critical equipment's & provided the corrective action in minimum period of time.
- ❑ Sustaining MTTR & MTBF of all the production equipment; maintaining adequate number of spares for smooth maintenance activity.
- ❑ Conducting CAPA / Why-why analysis for critical breakdowns.
- ❑ Handling all the AMCs related to MHEs, Utilities & Weighing Equipment
- ❑ Complies the PM schedule as defined in the system. Identified loop holes in the system & develop new techniques
- ❑ Performing & supervising the erection and commissioning activities of the Plant Project
- ❑ Acting as Reliability Manager for the entire plant, focusing on proactive maintenance and conducting root cause analysis
- ❑ Monitoring preventive-predictive maintenance, plant shutdown activities and utilizing manpower and machinery as required.
- ❑ Responsible for preparation of various external audits such as ISO/IATF/Customer audits

Jul'11 - Jun'21: M/s. Asian Paints Ltd., Santacruz Head Office Central Engineering as Sr. Officer – Maintenance & Projects

Role:

- Ensured maintenance of utility equipment like Air Compressors, Air Driers, Nitrogen Plant, Chilling plants, Cooling Tower, Heat Exchangers, UV units, RO Units, DM Plant, Water Treatment Plant & ETP
- Performed:
 - Maintenance of MHEs like Diesel & Battery-operated Forklifts & Stackers, HOPT & BOPT
 - Predictive & annual shutdown Maintenance of the Paint & Resin Reactors, Mixers & Utility equipment
 - Capital expenditure projects including procurement and erection in the plant
 - Maintenance of HVAC System of Offices & Labs
 - Maintenance of CCTV, Fire Hydrant System, Fire Alarm System & PA System
- Led the procurement including vendor development, negotiations; maintained adequate number of spares for smooth maintenance activity as well as executed various tools such as Equipment FMEA, Kaizens, Poka Yoke & 5S.
- Onboarded new vendors for spares & services; evaluated technical specification of new instruments & carry out inspection visits whenever required
- Created annual budget at the beginning of the 4th quarter; assured safe working conditions for contractors & workers
- Assured regular delivery of TBT's to workers & contractors regarding safety, 5S, engineering activities
- Led Contract Workforce of 40 people involved in Electrical, Fabrication, Civil, Material Handling Equipment (MHE) and scaffolding as well as deployed 15 in-house workmen in 3 shifts for regular maintenance activities

Projects Executed all-over India for Asian Paints Ltd

- Procurement, Execution & Commissioning in Brown Field Project of Plant Expansion for Rohtak Phase-3 & Green Field Project of Mysore Phase-1
(Installation of Emulsion Reactors, Pre-Emulsion Tanks, Twin Shaft dispersers, Mixers, Day Tanks Storage Tanks, Chillers, Cooling Towers, Heat Exchangers, Agitators, UV Units, RO Plant, Water Treatment Plant, ETP, Air Compressors, Automatic Storage and Retrieval System(ASRS), AODD, Peristaltic, Barrel, Twin Screw, Centrifugal, Gear & Progressive cavity Pumps, Dock Doors & Dock Levellers, Fire Hydrant System)
- Procurement, Execution & Commissioning of Solar Power Plant 800 kWp in Sriperumbudur Plant
(Installation & Commissioning of Roof top solar panels, Inverters, Array junction Box, Control Panel, Climate Monitor, Electrical panels & Earthing Pits)
- Procurement, Execution & Commissioning of Solar Hot Water System for Emulsion Block in Khandala Plant.
(Procurement, & Installation of Solar Hot water Collector, Secondary & Primary Circuit with PHE, Pyranometer, Vertical Inline Pumps, Expansion Tank)
- Procurement, Execution & Commissioning of Process Engineering Lab & Accessories Setting up in Khandala Plant
(Procurement, Execution & Commissioning of High & Low Pressure Reactors, Pre-Emulsion Tanks, High & Low Pressure Condensers, AODD & Metering Pumps, Cage Lifts, Non-IBR Boiler, Storage Racks)
- Procurement, Execution & Commissioning of Spray Dryer Unit in Khandala Plant
(Procurement, Installation & Commissioning of Air filter, FD blower, Hot air ducting, Electrical heater, Spray chamber, Atomizer, Powder ducting, Cyclone, Conveying duct, Bag filter, ID blower, Feed pump)
- Procurement, Execution & Commissioning of Ystral Paint Machine in Khandala & Ankleshwar Plant
(Procurement, Execution & Commissioning of Conti TDS, Anchor, Powder Feeder, Jet Stream Mixer, Air Booster)

Previous Experience

- Jun'11 – Jul'11: M/s. Rashtriya Metal Industries Ltd., Mumbai-Andheri as Maintenance Supervisor
- Nov'09 – Jul'10: M/s. Zydus Nycomed Healthcare Pvt. Ltd., Navi Mumbai Koparkhairne as Jr. Executive Engineer
- Dec'07 – Dec'08: M/s. Tata Power Company Ltd., Trombay Thermal Power Station as Trainee Engineer

Technical Skills

- MS-Office, Advanced Computer Operating skills with MS Office products
- SAP R/3 in applications such as procurement, inventory management, preventive & breakdown maintenance
- AutoCAD 2D & 3D
- Typing speed of 50 W.P.M

Education

- Pursuing Bachelors of Engineering from Birla Institute of Technology & Science(BITS Pilani)
- Diploma in Mechanical Engineering (4 Years course), Veermata Jijabai Technological Institute (V.J.T.I), Mumbai with 62.07% in 2009

Personal Details

Date of Birth:18th November 1988

Languages Known: English, Hindi &Marathi

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