

# ANKIT BANSAL



## CONTACT

### Address:

D-303, The Earth Infinity,  
Bhayli, Vadodara -391410

### Phone:

+91-7574804708

### Email:

[1985.ankit@gmail.com](mailto:1985.ankit@gmail.com)

## SKILL HIGHLIGHTS

- Risk Based Inspection (RBI)
- Asset Management
- SAP-PM
- Mechanical Integrity
- FMECA
- RCA
- RCM
- NDT methodology
- Vibration Analysis
- Spare Management
- Bad Actors
- Fit for services(FFS)

## LANGUAGES

- English
- Hindi

## PROFESSIONAL SUMMARY

A result oriented and Certified Maintenance and Reliability Professional (CMRP) with 12+ years of experience, seeking assignments in **Reliability Engineering / Maintenance Management /Asset Management**.

## WORK HISTORY

### August'18 – Present

#### Reliability Engineer (Mechanical) - Ineos Styrolution India Limited at Vadodara Gujarat

- Responsible for improvement of the **reliability** of all Mechanical - Static and Rotary equipment for 2 plant (Katol and Moxi) in India.
- Develop and implement **Preventive and Predictive maintenance** plans for site in line with maintenance policy.
- Contribute to achieving and maintaining **Reliability** goals and objectives.
- Collect the failure data in each plant to study and find out the real issues and **Bad Actors**.
- Lead a Cross Functional Equipment Improvement Team to address **chronic issues**.
- Constant focus on continuous improvement; **best practice, sharing learnings** and communications to promote the cultural shift towards total plant reliability.
- Investigate equipment failures using **Root Cause Failure Analysis (RCA)** principles and work order history to identify failure modes.
- Study and suggest at each plant, the scope for implementation of **Risk based inspection (RBI), Mechanical integrity (MI)** and plan for mitigation measures for improving overall reliability & life of plant as applicable.
- Support in working through **SAP-PM** at each plant for improving equipment reliability.
- Monitor the **Critical Spares** including minimum inventory must be identified in coordination with operations based on the **criticality of the equipment** and as recommended by OEM.
- Contribute to INEOS Styrolution **Asset Care program**; take responsibility for maintaining the asset and integrity of the protective system.
- Accountable for following and practicing INEOS 20 principles of Behavior Safety and Process Safety at site.
- Generate **KPI reports** pertaining to reliability and other related activities in each plant and follow up with plant team for completion of the jobs.

**January'16 – July'18**

**Manager -Maintenance – Flint Group at Vadodara Gujarat**

- Lead all engineering activities for PAN India at four manufacturing location.
- Lead all 4 sites **Asset Health Evaluation process** (equipment listing, asset hierarchy, asset criticality, maintenance strategies, etc). Evaluates failure data and makes recommendations for adjustment to equipment maintenance strategies that optimize maintenance.
- Optimizes the **Availability** and safe operation of production assets through appropriate predictive and preventative maintenance.
- Optimizes costs through effective **budget planning and management**, a cost effective approach toward **asset management** and minimizing loss and waste.
- Train maintenance staff on effective maintenance practices, including effective use of the maintenance management system, problem solving tools, risk and failure analysis, **maintenance scheduling** and analysis of maintenance related data and equipment histories.
- Support and lead **RCM activities** including implementation and management of the **Mechanical Integrity** program.
- Write and execute **Maintenance & Reliability Capital projects**. Interfaces directly with the project team on reliability build deliverables to ensure reliability principles are applied on projects on site.
- Work with Engineering and Original Equipment Manufacturers (OEMs) to develop equipment **reliability standards**.
- Implement 'Global engineering standards' inclusion during design phase of Projects including **HAZOP, HAZID and What –If Analysis**.
- Share / implement Reliability Excellence best practices across the site and region.

**August'14 – December'15**

**Mechanical Engineer (Global Technical Excellence) – Huntsman Corporation at Vadodara Gujarat**

- Work as a Global functional advisor for **Mechanical Integrity**.
- Develop and Facilitate Mechanical Integrity Program to ensure highest **reliability**. (Operations and Safety)
- Develop a comprehensive **Maintenance Strategy** for all assets.
- Prepare **WSE (Written Scheme of Examination)** for all major equipment and Implement them.
- Prepare **FMECA (Failure Mode Effect Critically Analysis)** Report for **critical Equipment** as per Huntsman Global Standard.
- Modifications or **re-rating** assessed through Management of Change process. Determine operating **life of equipment** with life- limiting **deterioration mechanisms**. Recalculate residual life after modification.
- Successfully completed **FFS (Fitness for Service)** Assessment for 2 obsolete equipments as per **API-579**.
- Work on **RBI (Risk Based Inspection)** Methodology as per **API -580**.
- Develop and Facilitate **Energy Conservation Program**.

**Jan'10 – July'14**

**Senior Executive (Project) – Siegwark India Pvt. Limited at Bhiwadi, Rajasthan (Chemical Plant)**

- Handled various **projects** as team member throughout complete execution cycle.
- Implement Siegwark Global Standard on **reliability** during project Phase.
- New **Assets testing** should be done as per Siegwark Global Reliability Standard.
- Preparation of Mechanical Datasheet.
- Preparation of Inquiry Documents and handling Pre Order Technical Clarification with vendors.
- Conducting Pre and Post Order Technical Clarification meeting with vendors.
- Review the vendor drawings and documents.
- Co-ordination with Piping Layout, Quality Control, Instrumentation, Civil & structural, Piping Stress, Documentation, Procurement.
- Technical Inspection at vendor workshops.
- Selection of Equipment like Pumps, Valves, Pipe, Pipe Fittings, Etc.
- Update the WBS, Scheduling and prepares all Project Planning Report.
- Software Knowledge in **Microsoft Project, Auto-Cad, Microsoft Office**.

**Projects**

- Handled **Green Field** project of **Polyurethane Resin Manufacturing Plant** projects which include Reactors, Pressure vessel, Piping, Piping Supports Instrumentation, Nitrogen Plant and Boiler. **(Capex 2.5 M USD)**
- Handled **Green Field** project of **Tank Farm Area** which include Planning ,Erection, Fabrication & Commissioning of tank Farm Area, MS cylindrical tanks of various capacities up to 80KL with all Pumping, Piping,& instrumentation by using **IS 803 & IS 800**. **(Capex 1.6 M USD)**

**Aug'07 - Dec'09**

**Engineer (Mechanical) – Vardhman Yarns (A unit of Vardhman Textile limited) in Mandideep (Near Bhopal)**

- Handled various **Projects** assigned by senior management to timely completion, by identifying schedule risk and developing plans.
- Handled projects for **Humidification plant** and **utility equipment** installation and comissioning.
- Complete Overhauling and Maintenance of utility Equipment with includes **Air compressors, ETP, Softening Plant, Chillers, Cooling Tower** and **Hydrant system**.

**CERTIFICATION**

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- **Certified Maintenance and Reliability Professional (CMRP)** by Society of Maintenance and Reliability Professional **(SMRP)** in 2019.
- Certification in **Theory and Practice of Non-Destructive Testing (NDT)** by National Programme on Technology Enhanced Learning **(NPTEL)** in 2019.
- Certification of **Lead Auditor** in **Energy Management System ISO 50001:2011** by British Standard Institute **(BSI)** in 2019.
- Certification of **Internal Auditor** in **Integrated Management System (IMS) ISO 9001:2015, ISO 14001:2015, ISO 45001:2018** by Bureau Veritas in 2019.

**ACADEMIA**

EXAMINATION / DEGREE	INSTITUTE / UNIVERSITY	YEAR of PASSING	SUBJECTS / DISCIPLINE	% of MARKS	CLASS
Secondary School Examination	Guru Nanak School	2000	All Subjects	76.83%	1st Class
Senior Secondary Examination	M. A. Govt. Senior Sc. School	2002	Physics, Chemistry, Mathematics, English	67.38%	1st Class
B.E. (mechanical)	Govt. Engineering College Bikaner	2007	All Mechanical Subjects	60.38%	1st Class

**PERSONAL DETAILS**

➤	Nationality	:	Indian
➤	Marital status	:	Married
➤	Date of Birth	:	October 26, 1985
➤	Native Place	:	Bharatpur (Rajasthan)
➤	Passport No.	:	R1289212