

DEVANSH MANGAL

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PROFIE - SUMMARY

Experienced Mechanical Engineer with 3 + years of experience in plant engineering. Represented Asian Paints in National level **CII competition** & received Platinum & Gold awards. Skilled in project management, also designed (SolidWorks) and developed one of its kind in-house Filtration Device for Distemper **saved ₹ 4.25. Reduced Customer complaints by 98%**. Seeking a challenging role in a company that values innovation and collaboration.

PROFESSIONAL WORK EXPERIENCE

ASIAN PAINTS LTD.

NOIDA, UP

Senior Executive – Plant Engineering Dept

July 2021 - Present

- **PLATINIUM, Gold, & Silver award Winner in National level CII** quality circle competition in SHE(Safety-Health-Environment), Productivity & Quality, competing against 30 MNC's while representing Asian Paints.
- Directed automated packing section for **Asia's largest coating industry**. Overseen 10 FPMs, ABB robots, Cobots, case erectors, AGVs, Domino IJPs to pack 350 KL solvent paint daily across various SKUs. Also managed manual filling for distemper, PU, and water-based paints in bulk and retail formats.
- Reduced the number of **Repetitive Breakdowns by 54%** in Mount FPMs. **Achieved highest ever plant level OEE (60%) and production(101KL)** single shift for 3 times in row to cater whole Northern and Eastern India Needs for Solvent.
- Analyzed and innovated an Automatic Filtration system for Distemper paint, improving productivity, reducing defects, and resulting in savings of **4.25cr**. Innovative solution, the **1st of its kind executed** across Asian Paints and its OPCs.
- Fabricated an automatic **lacquer testing machine**, one of its kind in the industry. Administer various **Safety (30)**, Quality (7), Production (13) & and General Improvement Kaizens (25) based on strong data set points across the section.
- Maintaining SSR throughout the Financial Year and **saving 7-Lakh** by in-house repair in FY, 23-24 alone.
- Innovated & deployed a **Nozzle-Plunger filling m/c** for PU paint (Less Viscous) which prevents splashing, dripping, and weight variation issues in the machine by **90%**. The same was horizontally deployed across other plants of APL.
- Engineered a **splash-proof mounting (IP-64)** for retro-reflective sensors to protect against paint spillage on production lines, reducing downtime from 15 min to 1 min and improving asset care by proving **360deg coverage**.
- Received **Recognition from GM** for playing a key role in bringing the Sword of Honor from the **British Safety Council** to APL, Kasna after 17 years and played a key role in making 1st ever **Generative** chemical plant across globe by TRIBE.
- Proposed 360° AFM guarding to protect from paint ingress and ease maintenance, reducing breakdown resolution time from **30 to just 5 min**. Also Conceived in-house automatic label dispenser to **improve 5S in section**.
- Implemented Six Sigma DMAIC methodology, leveraging RCA tools and Pareto analysis to **reduce major downtime by 30%**. Improved FPM performance **from 45% to 63% in a GET project**.
- Managed goals and objectives for FPM replacement **Capex. Negotiated 7.3% cost reduction** for spare parts from OEMs. Installed and stabilized **2 new FPMs under Capacity enhancement Capex** of plant.
- Created an **onboarding training plan** for new outsource technicians and workmen in the plant through Brainstorming with the team. Also designed vacuumized Spray Jet machine lead to **reduction of Handle misorientation issue by 90%**.
- Facilitating an Engagement program for all stakeholders during **Multi-Disciplinary Team meetings (MDTs)** helped in delivering the record-setting highest output and solving issues at the plant level involving various stakeholders.
- Led multiple initiatives with the Quality team, including redesigning carton erector design for see-through cartons and providing ongoing support to existing team for **stabilizing the OCR-OCV setup & installation of COGNEX AI cameras**.
- Analyzed and **reduced customer complaints by 98%** by eliminating the Tape miss, short tin issue & carton misprinting.

EDUCATION

S.G.S.I.T.S – GOVERNMENT UNIVERSITY -

Indore, MP

Bachelor of Technology, Mechanical Engineering

June 2017 – June 2021

- Secured AIR-**23,395** (Among 1.5 million) in JEE Mains & TOP-1 % rank in state also got **full merit scholarship** at college.

SCHOLASTIC & EXTRACURRICULAR ACHIEVEMENTS

- Led team to 2nd Runner Up in National NBC NEI competition with over 10,000 participants in 6 rounds, securing INR 50,000 prize; collaborated on **Shape Memory Alloy R&D with IIT and DRDO, India**.
- **Best Demonstration award in International Conference** hosted by IIT-Indore. Mentored team at national competition.

SKILLS

- Project Planning, Procurement – Negotiation, Relationship Management, Data Analytics, SAP - Procurement of spares, PLC Coding - basic, ANSYS – Simulations, SolidWorks, MS-Office – PPT & Advance Excel Dashboard.
- **SOFT SKILLS** - Leadership & Teamwork, Communication & Public Speaking, Troubleshooting – RCA, Mentoring exp.