



Agradeep Deb

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Summary

Supply Chain Operations Expert with 7.5+ years of experience, with background of Mechanical Engineering. Skilled in Production & Planning, Digital Transformation, Quality Assurance, Engineering and Procurement & Logistics, along with Project Management and Manpower Management, aiming to improve Process Efficiency, Product Superiority and Operations Productivity.

Professional Experience

Senior Executive, Manufacturing Excellence & Digital Transformation | Hindustan Unilever Limited | Kolkata

- Worked as a Process Engineer for Operational Efficiency Improvement to innovate Automation solutions and setting digital KPIs for various product-wise and function-wise departments
- Spearheaded unit's integration of Supply Chain Nerve Centre for real-time, end-to-end demand planning and distribution and development of proprietary applications- PW Die Tracker (for PC, HC Soap Die ageing), and WMS lite (for backward traceability of FG with batching)
- Headed the premiere event of Site Level Internal Kaizen Competition 2023 & 2024 end-to-end from team formation to execution singlehandedly and creating the best kaizens, generating and showcasing ideas with cumulative worth of 25-30 Crs each year
- Led to increased usage of DFOS for Packing Equipment to automating L4 losses to 100% and SPC Implementation for Process Parameters for establishing Golden Batch and increasing Sigma Mixer Dosing Accuracy by 18% which ultimately led to Tech Eff improvement worth of 1.4 Cr of RM Cost.
- Negotiated with Trade Unions for Long Term Settlement (4 years settlement) improving HR function efficiency, along with assisting in planning of Union Election (2 years frequency) with Unit and Central HR team in collaboration of Local Government Labour Office.
- Achieved top position in Digital Transformation Index League across Unilever sites and holding top position in Business Group League for 18 months in 21 months tenure.

Senior Executive, Engineering | Hindustan Unilever Limited | Kolkata

- Headed Mechanical Engineering Department for unit wide projects and equipment maintenance of Bar Soap Plant.
- Handled team of 19 talented fitters and 4 production executives with plant OEE improvement by almost 800 bps, simultaneously enhancing both MTBF (Plant average from 18 days to 85 days) and MTTR (Plant average from 72 hrs to 12.5 hrs).
- Awarded SMED 2.0 Award Top position for leading 'Changeover Time Reduction' project to attain Agility using 3D modelled assembly change parts, and No-Highbay changeover through formulation flexibility, reducing DBNR to less than 1 day (from 4 days).
- Conceptualized Wrapper Innovation Station-for GSM, COF and Curling tracking for reducing soap bar wrapper related issues, at factory as well as Supplier Level, reducing E incidents by more than 80% and Depot DPMU by 73%
- Spearheaded Process Readiness through Sigma Mixer Installation and Starch Unit Commissioning Project- fastest stabilization and vertical startup in PC Category (2.5 months vs average of 6-8 months)
- Singlehandedly conducted FAT and recommended improvements at supplier site for procurement of IMA Bundle Case-packers worth 300 crores for Unilever Engineering. Led plant OEE improvement by almost 800 bps, simultaneously enhancing both MTBF (Plant average from 18 days to 85 days) and MTTR (Plant average from 72 hrs to 12.5 hrs).
- Handled Plant Layout Reconfiguration through overhead FG transfer lines, improving operational efficiency and reducing product recyclable reworks by 10-12% and non-recyclable reworks by 6-7% across variants.

Senior Executive, Quality Assurance and Quality Control | Hindustan Unilever Limited | Kolkata

- Handled QA Management team of 23 excellent chemists, Line QC and Central Lab QA (each practicing GLP, GMP and HH guidelines) for various RM, PM, SFG, and FG, through strict PLM and COA management.
- Led Digitalization in QA systems like Chemical Inventory Management, SPC- Auto Micro RM dosing, Live PCRO, T5Z interlock, Auto Soap bar Hardness Monitoring, and Digital Lab.
- Led Savings project in QA Lab through implementation of Split Petri Dish in Micro Biology, NIR Analysis of FG and SFG, and installation of On Demand Water Double Distillation Unit of around 1L the year onwards.
- Achieved category lowest DPMU of around 5000, across PW sites through detailed Q-EWOs, and resulting QIPs, and using various WCM tools.
- Led 'Visual Defect Management System' project integrating AI models in In-pack and On-pack camera systems reducing 40% defects per million units, improving overall retail product quality.

- Directed regulatory negotiations with Central and State Government bodies like Directorate of Drug Controls, India and Directorate of Legal Metrology, West Bengal, as FDA certified HUL representative to securing timely approvals for upcoming products and formulations.

Executive, Production | Hindustan Unilever Limited | Kolkata

- Handled 2 different shift teams with cumulative manpower of 200+ along with DFA and Boiler Operation, improving both teams OEE by 10% .
- Achieved yearly highest shift OEE figure of 88% along with lowest shift DMPU and D-incident figures
- Developed different Kaizens for cross functional usage such as Cut Soap Elimination, Mill 360 Guarding, FLT Eye Level Safety Interlock.
- Achieved best shift OEE and DPMU figures for 2 calendar years.

Education

BE (Mechanical Engineering) – Assam Engineering College | Guwahati

Accomplishments and Awards

- Coauthored a scientific research paper titled “A study of Micro-alloying of Tin on Ageing Behaviour of 6xxx- series Al-Alloys” published in Springer Publication Book – Advances in Mechanical Engineering.
- Recognized in The Limca Book of Records as musician in largest guitar ensemble in 2020
- Awarded Hons. Degree in Bachelor of Engineering
- Awarded ‘Best Quality Kaizen’ in Central Kaizen Competition across all HUL BPC sites for 2 calendar years straight (2023 & 2024).
- Awarded AU (Asset Utilization) Champion for achieving Globally best AU figures (>60%) for 2 years straight (2023 and 2024)
- Awarded Supply Chain Superstar for contribution in business continuity during COVID-19 and Amphan super cyclone.

License & Certifications

1. CATIA v5 R20
2. ESG - Fundamentals of Sustainability, Health & Safety

Co/Extra-curricular

- Senior Diploma (Ankan Bivakar) in Arts and Painting