SUSHOBHAN ADHIKARI

Engineer - Production & Process Operations (CPC/ Petrochemical Plant)

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KEY SKILLS

- Operations & Production – Continuous Chemical / CPC Plant).
- Continuous Petrochemical / chemical plant operations (24×7) Capacity - 250,000 MTPA .
- CPC / thermal process operation with production & quality control.
- DCS & field coordination for stable and safe unit operation.
- Root Cause Analysis(RCA)- Breakdown & Process deviation .
- KPI monitoring (OEE, Yield, Energy Consumotion) .
- Startup, shutdown & emergency handling of process units.
- Monitoring & control of critical process parameters (temperature, pressure flow).
- High-temperature furnace / kiln operation with safety compliance.
- Strict adherence to SOPs, interlocks & trip logic systems understanding .
- Safety-first operations with PTW, LOTO, HIRA & JSA practices.
- Achieving production targets, yield improvement & loss reduction.
- Shift operation, manpower (20 + Men) coordination & shift handover.
- Troubleshooting of process deviations & abnormal conditions.
- Maintenance Coordination (BD,PM, shutdown activities).
- Process documentation (log sheets,ERP System, production reports, DPR).
- Compliance with statutory requirements & safety audits.
- Effective coordination with QC, utility & safety departments.
- Awareness of an environmental norms & emission control systems(FGD & GCCRP System) .
- Exposure to coal tar pitch / CPC / carbon-based chemical processes.
- Experience in continuous improvement & operational discipline.

PROFESSIONAL PROFILE

Production & Process Operations Engineer with 8+ year of experience in continuous Calcined Petroleum Coke (CPC) / petrochemical plant operations (250,000 MTPA capacity). Strong expertise in DCS-controlled process operation, startup-shutdown management, high-temperature furnace/kiln systems, yield optimisation, and energy efficiency improvement. Proven record of improving production efficiency by 20% and reducing SO_2 emissions by 94% through FGD system implementation. Adept at cross-functional coordination with maintenance, QC, utilities, and safety teams to ensure safe and stable plant performance.

EDUCATION

B.TECH / B.E - MECHANICAL ENGINEERING
MAKAUT UNIVERSITY | YGPA - 9.11 & DGPA - 8.43

DIPLOMA - MECHANICAL ENGIMEERING
WBSCTE UNIVERSITY | 2014 - 2017 | 80.5 %

12th - SCIENCE
WEST BENGAL BOARD | 2013

10th - GENERAL
WEST BENGAL BOARD | 2011

EXPERIENCE

Engineer - Operation & Production
India Carbon Ltd. 07/2017 - Present

Led day-to-day operations and production activities in a Calcined Petroleum Coke (CPC) plant, ensuring optimal output, quality, and equipment reliability. Monitored and controlled process parameters to maintain product quality within specifications and minimize energy consumption.Maintained accurate production reports, process logs, and Logsheet record for performance evaluation and decision-making.

- Ensured safe plant operation in compliance with statutory, safety, and environmental standards during 24x7 shift operations.
- Coordinated closely with maintenance teams for preventive maintenance, breakdown rectification, and planned shutdown activities to minimise downtime and operational upsets.

Actively supporting senior management in production planning and unit operations.

KEY SUCCESSFUL PROJECTS

FGD Installation * 3 Months

- Integrated the system with an ID Fan having a power of 16- Led the successful installation of FGD system, reducing sulfur dioxide emissions by 93% and ensuring compliance with environmental regulations.
- Coordinated a 3-month FGD installation project, completing it 1 week ahead of schedule and 10% under budget, showcasing strong project management skills.
- Implemented innovative techniques during the FGD installation, resulting in a 20% increase in operational efficiency and contributing to cost savings.

Cooler Venting Cyclone With Bag Filter Erection * 155 Days

- Implemented cooler venting cyclone with bag filter system to improve dust collection efficiency and ensure environmental compliance.
- Integrated ID fan system, resulting in improved suction performance and reduced fugitive emissions in the plant area.

New Vibro Section including Crusher & Bucket elevator * 160 Days

- Executed the successful completion of the New Vibro Section including Crusher & Bucket elevator project within a stringent timeline of 165 days, ensuring adherence to quality standards and specifications.
- Managed the seamless integration of the New Vibro Section including Crusher & Bucket elevator, resulting in a 20% increase in production efficiency and a 15% reduction in operational costs.
- Coordinated cross-functional teams to deliver the New Vibro Section including Crusher & Bucket elevator project, achieving a 30% improvement in equipment performance and reliability.

New Vibro Screen for RPC Material (3mm) * 45 Days

- A vibratory motor mounted on the vibro screen generates a multi-plane gyratory motion. This motion involves the screen shaking in multiple directions, ensuring thorough movement of materials.
- This motion is powered by eccentric weights attached to the motor, which control the intensity and direction of the vibration.
- RPC materials (petcoke) are feed onto the screen surface. As the screen vibrates, fine particles (smaller than 3 mm) pass through the mesh, while larger particles remain on top.
- The vibrating motion ensures that the RPC material is processed quickly and efficiently, reducing time spent on manual sorting and processing.

Declaration :- The furnished details are true to the best of my knowledge. I assured you Sir, if given an opportunity in your esteemed organization. I would serve the company to the best of my knowledge and your expectations.

Sushobhan Adhikari.