**CHELLAIAH MUTHALAGU**

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**Mechanical Engineer|CO2 Plant,Dry Ice & Utility Maintenance/Operations|FMCG Indust.Exp**

15 years or rich experience in delivering optimal results by implementing effective maintenance systems

**CAREER PROFILE**

* Seasoned and technically competent professional, extending career success of 15+ years in managing multiple technical functions with reputed FMCG companies across industry in Maintenance & Utilities.
* Enthusiastic professional and Operational Excellence in Utilities as Maintenance & Operation In-charge position of 6 years and Liquid CO2 Manufacturing field as Plant Engineer (Operation & Maintenance) position of 9 years' Experience and also Dry ice Manager (Operation,Maintenance & Project) position of 4 years 7 months Experience
* Possesses Sound Knowledge in ISO 9001:2008 and FSSC 22000:2008 as Internal Auditor Course Completion.
* Possessing valuable insights, keen analysis and team approach to implement best practices, adept at working in high pressure environments with strict deadlines and multiple deliverable.
* Hands on experience in Breakdown & preventive maintenance, troubleshooting, analysis of breakdowns, RCA, selection of equipment, erection & commissioning, calibration,spares planning, inventory control, product quality control,maintenance, HACCP monitoring,SOP developing,operation & maintenance budgeting.
* Well-developed communication, collaboration & team building skills with proficiency at grasping new technical concepts quickly & utilize the same in a productive manner.

**FUNCTIONAL COMPETENCIES**

* Possess sound knowledge of Maintenance & Operation of below-imported CO2 Plants
* ASCO CO2 Plant (Feb 2013 to Jan 2017)
* Wittemann CO2 Plant (Oct 2012 to Jan 2013)
* Union CO2 Plant (Oct 2012 to Jan 2013)
* SICGIL CO2 Plant ( Jan 2008 to Sept 2012)
* Possess sound knowledge of Maintenance & Operation of below-imported Compressors
 CO2 reciprocating compressors (Khosla,IR &Carbonic brand)
 NH3 reciprocating compressors (Kirloskar Cummins & GEA brand)
 Freon reciprocating compressors (Bitzer & ASCO brand)
 Air reciprocating compressors (Ateliers Francois brand - 40 bar)
 Air screw compressors (Atlas Copco, Comp Air & Kaeser brand - 10 bar)
* Possess sound knowledge of Maintenance & Operation of below-imported chiller systems
 Freon based blow molding refrigeration system
 NH3 based process refrigeration system (Hansa brand)
* Possess sound knowledge of Maintenance & Operation of below-imported steam boilers
\* LOOS boiler

 \* Thermax boiler

* Possess sound knowledge of Maintenance,Operation & Projects of Coldry (dry ice) press
\* Press design & development

 \* Operation & Maintenance

 \* Loss control & cost saving

 \* Innovative projects & design upgrades

 \* Inventory control

* Basic Knowledge of Auto CAD

**EMPLOYMENT SPAN**

 **Operation & Maintenance Manager – Dry ice| Sicgil Industrial Gases Ltd, Chennai, INDA Sep 2018- Till date**

* Entire responsible for dry ice production, business operation & machine maintenance.
* Monitor the losses of Process, Storage and Transit losses at manufacturing and Depot's on daily / Monthly basis to control effectively.
* Implementation of new designs in upcoming dry ice machines for trouble free operation & best quality product from first block production
* Developing Automatic Slice cutting machine
* Developing new packing machine for pellets / slice
* Safety precautions / systems for loading and unloading of dry ice in storage & mobile containers
* Innovative projects to improve the efficiency
* Co-ordinate with branch to ensure the production resources (raw material,labor,spares) for match production demand & projects resources(design,BOM,labor) for match management requirement.
* Monitoring the raw materials price continuously and control the price of packing materials
* Identifies and facilitates the correction of all safety hazards and quality deficiencies
* Arrange the refresh training for machine operation and maintenance SOP to the field labor by regularly.

**Maintenance Engineer –Utility | Al- Ghurair Foods (AGF), Dubai, UAE Feb 2017-June 2018**

* Entire responsible for Utility machinery (Air compressor Unit & Boiler) Maintenance & Troubleshooting.
* Have to monitor & Analyze the boiler water quality.
* Arrange the regular preventive maintenance & OVH for compressors with third party service team as per contract.
* Arrange the monthly & yearly preventive maintenance for boilers (LOOS & Thermax) with third party service team as per contract.
* Have a knowledge of handling AMC(service scope review,contract renewal,follow up with technician for routine maintenance & emergency breakdown with service providers of Air Compressors & Steam Boilers.
* Responsible for implementing the company's safety standards & procedures for operation & maintenance activities and take ownership of the safety of self and co-workers.
* Maintains and revises the various utility standard operating procedures (SOP's), manuals and policies.
* Reporting to Technical Manager for maintenance and project activities on daily basis.

**Sr. Supervisor- CO2 & Utilities | Saudi Industrial Beverages Company (SIBCO)-PEPSI, Jeddah, Saudi Arabia**

 **Oct 2012-Jan 2017**

* Daily tracking and analysis of all breakdowns and Root Cause Analysis.
* Preparing risk analyses(Work Method Statement) in each projects,contract work & Overhauling and implementing
* Log-out & Tag-out in each maintenance work which is applicable.
* Responsible for implementing the modification/project in Boiler & Air compression unit
* Have to prepare the PR & GRV preparation for boiler & compression unit service & spare parts purchasing
* Have to fix the Hazard reports related to boiler & air compression unit.

 Managed Utility machinery (HP/LP Air Unit, Chillers & Boiler) Operation, Maintenance & Troubleshooting.

* Controlled the FDT related to CO2 & Utilities and reporting to Tech. Manager for the daily basis.
* Handled Detailed MTTR & MTBF for each machine
* Have to monitor the Quality parameters of Liquid CO2 as per Pepsi cola-International standards.
* Met the daily CO2 production volume with rated output
* Prepared the One Point Lesson (OPL), Current Best Approach (CBA) & Continuous Improvement Process (CIP) for plant operation & maintenance activities.
* Played as M&W Energy conservation team leader for control the consumption of diesel,LPG & Electricity and successfully achieved the targets by consecutively 3 years(2014 to 2016)
* Played as Team leader for implementing 5S in Utility Dept.
* Active member of Net efficiency team for the year of 2013
* Handled basic operation & maintenance of diesel generators (DG)

**Plant Engineer (Operation&Maintenance) - CO2 Plant | SICGIL India Limited, Goa Factory, India Jan 2008-Sept 2012**

* Handled:
* Entire operation of the CO2 Plant
* Hydro Testing of CO2 storage vessels,CO2 cylinders, and High pressure vessels (CO2 & NH3)
* Internal calibration of safety valves & pressure gauges
* Preventive maintenance &breakdown of Cooling towers, CO2 transfer pumps & Water pumps
* Loading & unloading of CO2 tanker and Storage tanks/Pressure vessels
* Preventive maintenance, breakdown & OVH of CO2 compressors,NH3 compressors & Refrigeration systems(HP/LP receivers, Evaporators, Sub-coolers & Condensers)
* Monitoring & troubleshooting of Customer Premises Equipment’s (CPE) like level monitoring system.
* Handled the shift operation of dry ice production & quality analysis
* Worked as Project Engineer for new CO2 plant erection
* Conducted the training for new employees like Shift Engineers, Technicians & Operators.

**EDUCATION**

**B.E- Mechanical Engineering** | Anna University, India | 2002-2006
**HSC** | Govt.HSS, Manamelkudi, India | 2002
**SSLC** | Govt.HSS, Kottaippattinam, India | 1999

* **Trainings attended**
* Institution of Occupational Safety and Health (IOSH) Training by Euro link, Dubai, UAE
* Steam & Condensate System Training by Spirax Sarco, Sharjah, UAE.
* The Steam Optimization Program for Food & Beverage Training by Spirax Sarco, Sharjah, UAE.
* Basic Food Hygiene for Food Handlers Training by Al- Ghurair Foods, Dubai, UAE.
* Emergency First Aider Training by Municipality of Dubai, UAE
* Reliability Centered Maintenance (RCM) Training by the Aladon Network.
* Risk Assessment Training by Infovision Consultants Group.
* Air Compression Training at KAESER.
* Basic Fire Fighting, First Aid, Emergency Response Plan & Safe Chemical Handling Training by SIBCO, KSA.
* FSMS (ISO 22000:2005) Training by TUV Nord, Pune, India.
* ISO Internal Quality Auditor Course by TUV Nord, Mumbai, India.
* Gas Chromatography M/C Training by Thermo fisher scientific ltd, Nasik, India.
* Automobile Technical Training by Tamil Nadu Transport Corporation, India.
* In-Plant Training by Hydraulics Private Ltd, India.
* In-Plant Training by SHOL Breweries Private Ltd, India.

**Date of Birth:** 11-02-1984 | **Marital status:** Married | **Passport No:** Z4851760 (valid till: 13/06/2029) | **Linguistic Skills:** English, Hindi,Urdu,Tamil | **Permanent Address:** 43B, Athiya villa,Ambal Garden,Avadi, Chennai, Tamil Nadu, India-600019