

**SUMMARY**

- Instrumentation with 14 years' 3 Months experience in Project Execution, Operation & Maintenance, Engineering and Construction activities of Process Plants in India and Gulf.
- At present working as a Manager-Instrumentation in Arochema Ingredients Pvt. Ltd (Previously known as Shimoga life sciences pvt ltd (MANE Group,France)),Industrial Park, Attivaram, Nellore(Dt).
- Handling the Expansion Projects, Operation & Maintenance of Aroma chemical plant.

**QUALIFICATION**

**Degree : B.E (Electronics and Instrumentation Engineering)**

**College : Maharaja Engineering College, Coimbatore-54.Affiliated to Anna University.**

**Year of Passing : 2006**

**Performance : 76% (First class with Distinction)**

**TRAINING EXPERIENCE :**

1. SIEMENS SIMATIC PCS-7 DCS training has successfully completed of **M/s Siemens Ltd** authorized training center of **M/s, Esskay Training Center, Mahape, Navi Mumbai.**
2. Detailed **CS3000 DCS FUNDAMENTALS AND ENGINEERING** course has successfully completed in the training center of **M/S Yokogawa India Ltd, Bangalore, India.**

**IMPORTANT PROJECTS COMPLETED :**

1. 'Gas & NGL Export Facilities Project' for Al-Khafji Joint operation (Kuwait gulf oil & Saudi Aramco joint venture company).
2. 'Doha North Sewage Treatment works' for **Ashgal, Qatar** through **M/s,Keppel Seghers Singapore Pte Ltd.**
3. Commissioning and Maintenance activities for '**M/s, Sastha Paper Mills Pvt Ltd**, Kanchipuram, TamilNadu.
4. Construction and Commissioning of '**M/s, Tamilnadu Newsprint Papers Ltd** 'Plant Expansion project', Kagithapuram, Tamilnadu.

**EMPLOYMENT HISTORY**

1. **Company : Arochema Ingredients pvt ltd (Previously known as Shimoga Life Sciences Pvt Ltd (MANE GROUP, France)), Industrial Park, Attivaram, Nellore (Dt).**  
**Designation : Manager-Instrumentation.**  
**Duration : 2-July- 2018 to till date**

**Roles and Responsibilities:-**

- Operation and Maintenance of Aroma chemical plant Reactors, Flash and Fractional distillations instruments.
- Programming and Logic validation of Schneider Unity PRO M-580 controllers with Vijeo Citect SCADA.
- Choosing zone wise FLP instruments and ensure control narrative for ESD related logics for safety of handling equipment's as per production requirements.
- Validation of Reactors, Flash and Fractional Distillation units as per safety standards.
- Control narrative discussion for logics and programming and validation with our France team as per requirements of process with high range of safety standards.

- Operation and Maintenance of all type of field instruments, VFD drives.
- Maintenance of Utility Equipments of 2 x 3.5 Tons FO Boiler, 2 x 36TR Water Chiller(12Deg.C), 2x24TR Brine chillers (-15Deg. C) , Nitrogen plant, ETP and RO plants PLC and field instruments.
- Maintaining documentation such as SOP, SMP, KPI and ISO audit related documents.
- Plan and Execution of all field instruments NABL calibrations.
- For Expansion projects, Engineering related procurements in SAP as per consultant design drawings, Getting competitive quote from different vendors to projects execution and plant commissioning activities as per standard norms.
- Planning and Scheduling Preventive maintenance tasks.
- Communicate with team on daily basis and decision making on issues related to productivity, Safety and cost reductions.
- Achieving the objectives target.
- Responsible for overall maintenances of process.

2. **Company** : M/s, Siemens Ltd, Mumbai.

**Designation** : Senior Engineer-Instrumentation.

(On Role through; M/s, Radiant Engineering Pvt Ltd, Chennai (From 05-April-2014 to 30-Apr-2016)&M/s, Thejo engineering Ltd, Chennai (01-May-2016 to 18-09-2016)

**Client** : M/s, Dalmia Cement (B) Ltd, Yadwad, Belgaum, Karnataka

M/s, Dalmia Cement (B) Ltd, Ariyalur (Dt) – 621705, Tamilnadu.

**Duration** : 7-Apr- 2014 to 25-Jun-2018.

#### **Roles and Responsibilities:-**

- Operation and maintenance activities of 4500TPD **cement plant**.
- Operation and Maintenance with trouble shooting of Siemens PCS 7 DCS & ABB XA800 DCS, S7-300, S7-200 PLC systems. Adding of new AI, AO, DI, DO card in the I/O panel and internal wiring also done for modification works and new projects.
- Operation, Maintenance, Calibration and troubleshooting of ABB analyzers A02020 modules such as Magnos27 (O2) &URAS 26(CO,NO,SO2) .New module configuration with communication, syscon board, AO and DI card adding and configuration also done.
- Preventive and corrective maintenance with problem solved skills of VFD Drives (Make: ABB ACS 800,Yaskawa A1000,G7&F7).
- Preventive maintenance, calibration & problem solved skills of stack opacity monitor (Make:Forbes Marshal).
- Maintenance knowledge of Kiln,cooler camera (Make: Spyrometer M554, M553 and Thermoteknix)&Raytek Pyrometers.
- I/O Testing, Field Instruments (PCS, BSS, ZSS, RTD, Thermocouple, Level Transmitter, Level Switch, SMART Pressure and Temperature Transmitter, Pressure Switch, Motorized actuator & pneumatic damper, vibration sensor) testing, maintenance and calibration.Experience in Erection & maintenance radar & ultrasonic level transmitters
- Maintenance and trouble shooting of Schneider make UPS 5, 10, 20 & 30KVA.
- Maintenance and calibration of Weigh feeders, Belt weighers, PfisterRotoscale,Solid flow meters Coriolis feeder Multicor K80),and hopper load cells(Make: Schenck, Transweigh)
- Knowledge about maintenance of Robot Lab, XRF analyzer(ARL9900), Offline & Online Particle size Analyzer.

- Having knowledge of mill hydraulic systems, Basic knowledge of EEL 16spout packer and LTMR feeder.
- Trouble shooting knowledge in Roller Press, VRM and Ball mill instruments.
- Trouble shooting & Knowledge of control circuits in Stacker and Reclaimer.
- Participated Erection, Commissioning / Pre -commissioning activities of cement plant modification works and new AFR system projects.
- Having good knowledge in Work permit system, 5S Plant maintenance and Standard Operating procedure (SOP) ,SMP and Job safety analysis(JSA) for filed instrument maintenance activities.
- Ensure good working conditions and safety standards are maintained within all areas of maintenance operations.
- Prepare work schedules and shift schedule for Instrumentation technicians.
- Prepare tools, materials and equipment necessary for maintenance activities.
- Actively participate in RCFA (Route cause failure analysis) of breakdowns and Documentation for future.

**3. Company : M/s, Bezel Arabia Co. Ltd, Al-Jubail, Kingdom of Saudi Arabia.**

**Designation : Lead Engineer -Instrumentation**

**Duration : 9-Feb- 2012 to 11-Feb-2014.**

**Client : KJO-Saudi Aramco, Ashgal.**

**Projects / Location :**

1. Gas & NGL Export Facilities for **KJO(Kuwait Oil Company& Saudi Aramco joint venture)** Al-khafji, Kingdom of Saudi Arabia.
2. RAS Al-KHAIR 2400MW Power plant Erection and Commissioning
3. Doha North Sewage treatment works, Umm salal, Qatar.(M/s, Keppel seggers Singapore PteLtd, Qatar).

**Profile:**

- Review P & ID's, Instrument Index, Instrument data sheet, I/O list, Loop drawings, Sequence drawings, Cause and Effects, Functional Design Specification, Hook up drawings, Control Panel drawing, etc.
- Responsible for work scheduling, Manpower handling and job supervision, Pre-commissioning and commissioning activities for Instrument DCS,ESD&FIRE/GAS Marshaling Panels installation, Consoles/Cabinet Installation, Installation of Transmitters, Sensors, Switches, Control valves, ESD valves, ON/OFF valves, Combustible/Toxic Gas detectors, Flame Detectors, Heat Detectors ,Fire Alarm system, MOV's, Instrument JB's, Instrument cable laying etc.
- Responsible for Loop checking, Sequence checking of DCS loops, ESD loops and Fire/Gas Loops.
- Responsible for QC activities of Instrumentation includes Calibration, Instrument installation, Hydro test of impulse lines, Leak test of instrument airline, Megger test of Instrument cables, Continuity test, Loop checking and punch clearing etc. Maintaining records of same.
- Preparing Weekly and Monthly Progress Reports, Co-ordinate preparation of commercial timesheets for reimbursable projects.
- Installation and Pre Commissioning of Honeywell Experion PKS DCS system, Honeywell FCS ESD System and Fire/Gas system.

**4. Company : M/s, Siemens Ltd, Kharghar, Navi Mumbai.**

**Designation : Executive-Plant Services.**

**Duration : 24-June- 2010 to 2-Feb-2012**

**1. Client :M/s, Sastha Paper Mills Pvt Ltd, Kanchipuram, (Jan-2011 to Feb-2012).**

**200TPD KRAFT PAPER PLANT Operation and maintenance**

**2. Client : M/s, Tata Motors, Pant Nagar, Uttarkhand.(Jun-2010 to Jan-2011).**

**BIW-1C E&I Operation and Maintenance**

**Profile:**

- Operation and Maintenance with trouble shooting of Siemens PCS 7 DCS , S7-300PLC systems. Adding of new AI, AO, DI, DO card in the I/O panel and internal wiring also done for modification works and new projects.
- As per Client requirements Participate in Software configuration works like Configuration of new loops, Interlock modification as per client requirements, Graphic modifications, Alarm assignments, Group assignments, etc. Diagnosing and Troubleshooting.
- Responsible for work scheduling, Sub-con Manpower handling and job supervision for Commissioning, Operation and Maintenance activities of Paper Plant and boiler.
- Support Service of Commissioning, O&M, diagnosing and troubleshooting for Paper machines and Siemens S-120 drives with BLM(Basic Line Module)& SLM (Smart Line Module) and stand-alone drives such as SiemensSinamicsG-120 drives, Micromaster drives and Delta make drives.
- Trouble shooting, configuring Simocode - ES &Soft Starter Communication profibus networks as per client requirements.
- Calibration, Maintenance, diagnosing and troubleshooting of paper machine QCS Scanner BTG-3000PP(Make: Jasch Industries Ltd).
- Operation and Maintenance in the Automation field of **BIW-1C TATA ACE (0.75Ton and 1Ton) and Microbus** manufacturing shop.
- Preventive maintenance& corrective maintenance of field instruments.
- Preparation and Execution of reports such as Standardized Operating Procedure (SOP),Standardized Maintenance Procedure(SMP),Key Performance Indicator(KPI), Monthly report, PM checklist, Daily checklist for PLC & Drives Panel, Safety report, Training report, History card and Why-Why Analysis report.

**5. Company : M/s, Thiru Arooran Sugars Ltd, A.Chittur ,Cuddalore.**

**Designation : Executive-Instrumentation**

**Duration : 13-Feb-2008 to 12-June-2010.**

**Profile:**

- Operation and Maintenance of 18.68MW power plant and 3500TCD Sugar plant.
- Modification project of **Siemens OS220EA DCS to Yakogawa CS3000 DCS for the Power Plant.**
- **Yokogawa CS-3000 DCS** – Programming, Hardware Installation includes Installation of I/O cards. Diagnosing and troubleshooting and testing of logic as per cause and effect.
- Operation and Maintenance, diagnosing and troubleshooting CEGELEC-ALSPA 80-35 Governor Control (Make: Moog) PLC and GE FANUC 90-30 Turbine control PLC.
- Operation and Maintenance of SCADA system for Energy saving Operation of sugar plant(Make:SEDL)
- Operation, Troubleshooting and Maintenance of Turbine vibration System (Make: Bently Nevada 3300).
- Handling and troubleshooting of Bagging Machines(Make: Hi-Tech Engineering).
- Procurement of material for repairs, replacement, and servicing.
- Preparation of **Preventive, Breakdown and shutdown schedule calibrations.**
- **ERP Plant maintenance.**

**6. Company : M/s, Karuna Enterprises, Kothagudem, Andhra Pradesh.**  
**Designation : Site Engineer- Instrumentation.**  
**Duration : 19-Oct-2006 to 21-Jan-2008.**  
**Client : M/s, Tamilnadu Newsprint Papers Ltd, Kagithapuram, Karur.**

**Profile:**

- Erection and Commissioning of Honeywell C-200 DCS Panels, Field JB's, Field Instruments installation with cable laid as per cable schedule in according to P&I drawings such as 7-Effect Evaporator, 197TPH Recovery Boiler, 25MW Turbo-Generator, ClO<sub>2</sub> Plant, Chemical Baggase Plant-2, Digester and Hardwood Plant.
- Responsible for work scheduling, Manpower handling and job supervision and progress updating to the Site-In charge. Support service of Commissioning and loop checking activities..
- Calibration and installation Field instruments such as Transmitters & Switches (Level, Temperature, Flow, Pressure), Control valves and On/Off valves.

**7. Company : M/s, Skynet Technologies Pvt Ltd, Chennai-78 .**  
**Designation : Associate Customer Engineer**  
**Duration : 31-July- 2006 to 16-Oct-2006**

**Profile:**

- Installation, Servicing and Maintenance of Canon copiers, Panasonic Fax Machines, LCD Projectors, OHP and programming of Matrix EPABX.

**PERSONAL PROFILE:**

Indian + Male + Married + Born 9<sup>th</sup> May, 1984

Proficient in English, Tamil, Hindi.

Passport No: R3508389

Contact address : 7/111, South Street, Chinna Anandavadi(Post),

Sendurai (Taluk), Ariyalur (District), Tamilnadu, India, Pincode- 621 718.

**DECLARATION:**

I hereby acknowledge that all the information given above is true to the best of my knowledge and belief.

Date :

Your's Sincerely,

Place : Naidupet

T.Manivel