**BASKAR**

**BASKAR.353189@2freemail.com**

**Education:**

**1996 – 1999:** Diploma in Electronics and Communication Engineering, Tamil Nadu, India.

**2005 – 2009:** Bachelor of Electronics and Instrumentation Engineering, Tamil Nadu, India.

**Additional Training/Courses:**

**2005 – 2005:** ROTORK Q- PAK Motorized Actuator and Control Valves on-siteTraining done by ROTORK, Chennai, India.

**2010 - 2010:** Safety Handling of Chlorine Training done by Al Kout Industrial Project Company, Kuwait

**2010 – 2016:** Confined Space Entry, First Aid, H2S Gas Monitoring, Authorized Gas Testing, Work at Height Training done byEnertech and DHSS, Qatar.

**2012 –** **2012:** Internal Auditor Training for Quality Management System done by Veolia Water Head of Quality Department, Qatar.

**2014 – 2014:** Participated Customer Seminar Water and Wastewater Industry, Conducted by Endress+Hauser Academy, Switzerland.

**2015 – 2015:** Problem Solving and Decision making Training Program, Time Management Program conducted by Qatar Centre for Training and Career Development, Qatar.

**2016 - 2016**: Variable Frequency Drive (VFD) Training conducted by ABB Qatar for ACS 800 drives.

**2017-2017**: Auma Motorized Actuator and Control Valves Training attended in Auma Product Manufacturing Factory, Germany

**Employment Record:**

**From 2009: VEOLIA WATER, DOHA QATAR.**

Working as an **ENGINEER – INSTRUMENTATION AND CONTROLS**

**PROJECT:** **Doha South And Industrial Area Sewage Treatment Plant Works, Doha, Qatar.**

**CLIENT : Ashghal Road and Drainage External Affairs of Ministry, Doha, Qatar.**

**CONSULTANT: HYDER and PARSONS International Limited.**

**Role:** To Lead Instrumentation team, Monitoring and Maintaining the Instruments, PLC Systems in two different located plant’s (Doha South & Industrial Area). Initiating to the team for internal Calibration Includes **Endress&Hauser DO, pH, Chlorine, Redox, Turbidity Analyzer’s**, Siemens Level Transmitters, Temperature, Pressure related Instruments, SKF, I-ALERT from ITT Vibration monitoring Systems, **Westfalia, Huber Centrifuges and Decanter Units.** Coordinating with External service (OEM) for the field Instruments calibration and calibration verification of **ABB, E&H, Badger and Siemens Electromagnetic Flow Meters, Krohne & Teledyne Oil in Water Analyser**

Maintaining and trouble shooting of Ziton, Photain, Esser, Honeywell Fire Alarm Control Panels, Honeywell fixed H2S Transmitter, %LEL Detectors, Jesco Chlorine Gas Leak Detectors.

Issuing the appropriate PTW (Permit to Work) to the team for Completing the Preventive Maintenance and Corrective Maintenance Jobs comply with the safety standard Procedure by using the **CMMS (Computerised Maintenance Management System)** software.

**Hands on experience in On-Line Analyser** **Endress+Hauser** COM 253, CM442 Transmitter COS61 and COS61D DO Analyser, Liquisys Turbidity, CLS50 Conductivity, CPS11D pH Sensor, CPA 250 Redox Sensor, Delta Pilot S Hydrostatic Level Transmitter, CAS51D COD Sensor, CUS31 Chlorine Sensor, PROMAG series Flow meters.

**Chlorine Plant** Jesco Evaporators (250KG/Hr), Chlorinators Instrumentation CM/PM Maintenance work performing as per the CMMS Schedule.

**PLC /SCADA:** Operation and Maintenance of the GE Fanuc 90-30, 90-70 Series PLC, RX3i and PAC8000, HMI SCADA, Siemens winCC S7 300&400 series PLC MMI SCADA, and Kingfisher PLC CP-21 Citec SCADA System PLC’s at Doha South and Industrial Area Plant.

**CCTV/Tele Communication:-** BOSCH CCTV Camera System, Automatic Number Plate Recognition system (ANPR), Card Access Control System (ACS), Automatic Raising Arm Barrier Control System Maintenance and trouble shooting in Doha South and Industrial Area plant.

***Ultra Filtration Plant***

In Doha South **Norit** **Pentair** Ultra filtration Plant (Capacity 230 MLD) and Industrial Area **Inge** Ultra Filtration plant (Capacity 35 MLD) commission done by the contractor in the year of 2015. We involved plant initial start-up and created maintenance task for performing the plant maintenance.

***SBR 8 Part Operation Modification Project***

 In Doha South plant Veolia Water Solutions and Technologies (VWS) **Sequential Batch** **Reactor process modification** work. I participated in the modification project and we have successfully done the 8 Part modification and demonstrated to the Ashghal.

***Key Responsibilities and Achievements:-***

* Prepared Instruments Asset list with Full Technical Specification for Doha South and Industrial Area Plants.
* Developed **Asset Management System** Maintenance Schedules for the Instrumentation Department for Doha South and Industrial Area Plants and it’s uploaded in the **CMMS** System.
* Developed good relation with OEM and External Service Providers. It’s helped to resolving the Plant Issue without getting delay in the Process.
* Automation projects completed as per the project Schedules. This is support to process and more efficient deployment of manpower to operate process.
* Developed the critical spare list and purchased 2 Years Critical Spare from appropriate suppliers.
* Prepared the Three Years Annual Budget for the Instrumentation Department and reviewed the Budget as per the past Expenses Scenario.
* Developed Internal/External calibration schedules for Doha South and Industrial Area Plants based on the critical and safety aspect.
* Trained to the technician skill gaps in Preventive Maintenance and Calibration and comply the Safety System of Work Procedure.
* Coordinate to the Quality Assurance team as a part of Internal Auditor and achieved the sustained the ISO 9001:2008 QMS certification.
* Coordinate and reviewed the Contractor L&T Scope of Work in Instrumentation and issuing the Permit To Work for the CP361/1 Expansion Project.
* Coordinate and reviewed the Contractor Petroserv Scope of Work in Instrumentation and issuing the Permit To Work for the CP737/1 Expansion Project.
* Covering the Electrical Team Work during the Electrical Engineer Vacation/Emergency Leave.
* Covering the Maintenance On-call In - charge Duty Roaster and attending the Operation Issue to maintain the availability of Critical Plant with minimum down time.

**2005 – 2009: MAHINDRA WATER UTILITIES LIMITED, MAHINDRA & MAHINDRA** group joint venture with **United Utilities Ltd, UK**

Worked as a **SENIOR ENGINEER – INSTRUMENTATION**

**PROJECT:** **185MLD Water Treatment Plant, Tamil Nadu, India.**

**CLIENT : New Tirupur Area Development Corporation Limited, Tamil Nadu, India.**

**Role**: To Lead the Instrumentation Maintenance Team and Supervision of three Plants (River Water Intake, Water Treatment Plant and Booster Pumping Station) Initiating Internal Calibration and Coordinating to the External Calibration for Field Instruments Calibration Includes Level Transmitters (Siemens, E&H), Electromagnetic Flow meters (E&H, Khrone Marshall, ABB), Rotork Motorized Actuators, ROTEX pneumatic operated Actuators, On-line Analyzers pH, Turbidity, Chlorine (E&H, HACH), Motor Protecting system such as Vibration Monitoring System Khrone Marshall, Masibus Bearing and winding temperature monitoring system, Fire Alarm Control Systems.

**PLC /SCADA**: Operation and Maintenance of the GE Fanuc PLC, HMI SCADA system at WTP, Siemens PLC MMI SCADA system at all pumping stations (RWI, BPS and MBR) and the Telemetry Communication is based on VHF Radio link for voice and UHF radio link for Data through the Remote Terminal Unit (Foxboro IA20RTUs).

***Key Responsibilities and Achievements:-***

* In Instrumentation core job of Calibration taken care by me as a FPR (First Person Responsibility) for all the three locations. Calibration is includes to be carried out the Internal calibration verification, Necessary Training to the Technician and preparation of the calibration certificate and follow up with OEM for External calibration certification as per the Contract Requirement.
* Ensured and implementation of the preventive maintenance as per the MAXIMO CMMS System.
* Preparing Instruments Asset list with Full Technical Specification for River Water Intake, Water Treatment Plant and Booster Pumping Station Plant.
* Monitoring the performance of the Instruments as per our Vendor/OEM (Original Equipment Manufacturer) Specification.
* Monitoring the Critical Spare Requirements and follow up with Purchase Department for the Spare Procurement.
* Preparing the Annual Budget for the Instrumentation Dept and reviewing the Budget as per the past Expenses Scenario.
* Preparing the Failure Analysis and reporting to the Management and client.
* Comply the proper adoption of Safety Procedure and usage of PPE’s and providing the necessary Training to the Instrument Technician.
* As an Internal Auditor, Coordinate with MR (Management Representative) and IMS Team. We successfully implemented the IMS System. And **IMS** Implementation certificated by **TUV. (ISO 9001:2000, ISO 14001:2004, BS OHSAS 18001:2007)**
* Within two years continuously got Promotion from Junior Engineer- Engineer- Senior Engineer.

**2003 – 2005: VA TECH WABAG LIMITED,** Tamil Nadu, India.

Worked as an Instrumentation Engineer

**PROJECT : 180 MLD NEW VEERANAM WATER TREATMENT PLANT, Tamil Nadu, India.**

**CLIENT : Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB)**

**CONSULTANT: MECON LTD.**

**Role**: As a Commissioning Engineer to Lead the Project in Instrumentation Erection and Commissioning the Water Treatment Plant.

***Key Responsibilities and Achievements:-***

* Erection and commissioning done in all Rapid Gravity Sand Filter Bed Electrically Operated ROTORK Actuators and Control Valves.
* Erection and Commissioning done in all Rapid Gravity Sand Filter Bed Control Panels, Clarifloculator, Backwash Pumps and Filter Bed associated Control Panel.
* Erection and Commissioning done in **Endress+Hauser** pH, Turbidity and Residual Chlorine On-Line Analyser. And Field Instruments Includes Level Transmitter (Siemens) Level Probes (Nivelco) for Tanks, Pressure Gauge and Pressure Transmitter.
* Coordinate with OEM for Installing and Commissioning the Inlet and Outlet Khorne Marshall Electro Magnetic Flow Meter.
* Commissioned the Sand Filters and Modified the logic as per the site necessity and successfully operated the Rapid Gravity Sand Filter bed Backwash and Service in Auto Mode by using the MODICON PLC (PL7 PRO) & Magelis HMI.
* Erection and Commissioning done in Chlorine and Ammonia Plants.
* Erection and Commissioning done in the Chlorine Gas Leak Detectors and Fire Alarm system in all located Buildings.

 **PROJECT: C & I System for Existing De-Mineralization Plant, Orissa, India.**

 **CLIENT : National Aluminium Company Limited. (NALCO)**

 **CONSULTANT: MN.DASTUR, Kolkata, India.**

**Role:** To Lead the Project for commissioning the Demineralization Plant.

***Key Responsibilities and Achievements:-***

* Coordinated with GE Fanuc and Commissioned the GE FANUC PLC System (90-70 Series)
* Installed and Commissioned On-Line HACH pH, Conductivity, Khrone Marshall Turbidity, Silica and Sodium Analyser as per the contract requirement.
* Refurbishment done in all the Vessel Pneumatic Valves for the Auto Operation.
* Performed the Loop checks between Remote I/O Panels and Marshalling Panel.
* Successfully operated the De-Mineralization Plant Operation Service and Backwash sequence in Auto mode, Semi Auto mode.
* The De-mineralization Plant Operation and Maintenance done and demonstrated to the client and consultant as per the contract period.

**1999 – 2003: KG DENIM LIMTED, Tamil Nadu, India.**

From 1999 to 2001 Worked as an Electrical & Instrumentation Supervisor

From 2001-2003 Promoted as a Project Co-ordinator.

**Role:** To Supervise the Loom Shed Maintenance and Coordination for the Development Project. Loom Shed is Heart of the Plant which decides the Plant Production and Profit to the Company.

***Key Responsibilities and Achievements:-***

* Maintenance and Trouble Shooting of the Air Jet PICANOL and PICANOL OMNI Looms.
* Coordination with PICANOL Service Engineer, Belgium for performing the Annual Maintenance.
* Ensuring the Preventive and Corrective Maintenance as per the Schedule.
* Reducing the Breakdown Maintenance and Initiating to the technician for the innovative improvement projects.
* Promotion achieved as a Project Coordinator for the Development project. In this role lead the team to commission the PICANOL CAPITAL PAT-A Looms.
* Coordinated with Engineering Department and Quality Management team, successfully implemented the **Integrated Management System**. And IMS Certified by TUV.

**Skills:**

General:

* Greater ability to identification of areas of improvement within the department and implementing required changes.
* Initiate to the team for supporting with them for their innovative projects.
* Failure Analyse and hardware troubleshooting in the PLC and Control Panels.
* Coordinating with MR and QMS Team for performing the Internal Audit and Sustaining the QMS System.
* Developing the Good Relationship with Contractor, Client, Consultant and the Service Provider (OEM).
* Coordinating to the contractor work and performing the Technical and safety evaluation of the submitted document and their Scope of Work for Issuing the Permit to Work.
* Challenging to the PLC Hardware issue and interested to tracing the fault findings/Trouble Shooting.
* Coordinating to the Technical Team for the Various Project Evaluation and finalizing the Scope of work.

Computer skills:

* Windows MS Office.
* AUTOCAD Basic and Primavera Learned.
* GE FANUC PLC 90/30, 90/70 Series, RX 3i, Cimplicity HMI Software
* Siemens Step 7 300,400 Series, MMI SCADA Software
* Modicon PLC (PL7 PRO) and Magelis HMI Software
* Allan Bradley PLC, King Fisher PLC and Citec HMI Software
* Dwyer, Omega, Siemens, ABB and Masibus Data Logger
* Siemens, ABB Electro Magnetic Flow Meter verificator Tool and Software hook up.
* GE Druck and Masibus Universal calibrator and software configuration.

Languages:

* English (Speak, Read and Write)
* Tamil (Speak, Read and Write)
* Hindi (Speak)

 I hereby declare that all the above mentioned information is true and correct to the best of my knowledge.