M.SENTHILKUMAR

# INSTRUMENT ENGINEER

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### PROFILE

**Instrumentation Engineer** with **11 years’ 5 Months experience** which includes Erection & Commissioning in field instrument **ADNOC** (Transmitters, Control Valves and Analyzers) in **Oil** &**Gas** and **Power Plant** with **DCS** and **PLC** knowledge.

#### PROFESSIONAL QUALFICATION

* **BE (Electronics and Instrumentation Engineering)** – **2008**
* **Diploma in (Instrumentation Control Engineering) – 2005**

**GULF EXPERIENCE: 7 YEARS 2 MONTHS**

* **Sr. Instrumentation Engineer in M/s AL Turki Enterprises LLC** worked with client **PDO upstream & downstream Pipeline Project** involved in Engineering, Procurement Construction, Installation & Commissioning of oil and gas plant from (Jan–2018) to (Jan -2020).
* **Sr. Instrumentation Engineer in M/s Control & Applications Emirates** worked with client **ZADCO Offshore upstream Project** (Upper Zakum 750 - Island surface facilities Project (EPC2)) involved in Engineering, Procurement Construction, Commissioning of oil and gas plant from (July–2016) to (Oct -2017) in Abu Dhabi, UAE.
* **Instrumentation Engineer in ESSAR Constructions Overseas Limited** worked with client **Abu Dhabi National oil company** (**GASCO)EPC Gas Pipeline Onshore Project** involved in Erection& Commissioning of oil and gas Plant from (June -2014) to (July-2016) in Abu Dhabi, UAE.
* **Instrumentation Engineer in M/s Control & Applications Emirates** worked with client **ADGAS IGD offshore Project down Stream** involved in Erection &commissioning Refinery Plant of oil and gas from (Sept-2012) to (May-2014) in Abu Dhabi, UAE.

**INDIA EXPERIENCE**: **4 YEARS 3 MONTHS**

Past associated with **CETHAR LIMITED in** Tamil Nadu.

* **Instrumentation Engineer** worked with Client “INDIAN OIL LTD” (Scope includes E&I Erection and commissioning Plant in Cuttack, Orissa) from June-2011 to August-2012.
* **Instrumentation Engineer** worked with client “Reliance’s Petrochemical LTD” (Scope of work includes erection and commissioning Plant in Gujarat) from Jan-2010 to May-2011.
* **Instrumentation Engineer** worked with client “NANDAN EXIM LTD” (2\*150MW Thermal power plant Ahmadabad, Gujarat) in CFBC Boiler from June-2008 to Jan -2010.

**TRAININGS UNDERGONE**

* Successfully trained in “**Basic H2S training**” in Gulf Technical and safety training Centre (GTSC) (OPITO approved), Abu Dhabi. (Certificate No. : 52519014100816219828).
* Successfully trained in “**Travel safely by boat**” training in Gulf Technical and safety training Centre (GTSC) (OPITO approved), Abu Dhabi. (Certificate No. : 52515605100816219868).
* Successfully trained in “**ZADCO offshore safety**” in Gulf Technical and safety training Centre (GTSC) (OPITO approved), Abu Dhabi. (Certificate No. : 220160).
* Successfully trained in “**Fire safety training**” training in Gulf Technical and safety training Centre (GTSC) (OPITO approved), Abu Dhabi.

**RESPONSIBILITIES**

* Construction and Commissioning Activities to FAT & SAT on ESD System, Installation in field instrument selection in Calibration, Loops Testing and Interlock & function test checking and troubleshooting of the Instruments.

**OIL & GAS PROJECTS EXECUTED IN UAE**

* Executing “IGD Project Development” in M/s Abu Dhabi Gas Liquefaction Company for Offshore Oil Operations. **ADGAS-ADMA** has committed to increase gas production capacity up to900 MMSCFD of high pressure gas from Umm Shaif to Habshan via Das Island using30” offshore associated gases pipelines by additional capacity for providing future expansion of associated gas from onshore gas production. CAE Scope of works covers the supplying and installation of Electrical Instrumentation (E&I) works under EPC contract from Hyundai Heavy Industries offshore project division, Ulsan, South Korea.
* In GASCO Pipeline project, Brown field experience in Installation to RTU, F&G System, SDH, Fiber optical Cable, ROV valves and HIPPS valves, etc.
* In PDO Pipeline Project experiences in Well head control panel SSSV,SSV,IPF Values & telecom panel in optical cable process control system .
* Including DCS/ESD Logics field instrument selection and sizing Layout Hook-up Procurement Support SPI application in Site support.
* Have Strong Experience in trouble shooting of Fire and gas equipment (GD, SD, YFD Sounder, Beacon, MCP, and HD.
* Have Strong Experience in Construction and Commissioning of instrumentation system in upstream and downstream oil & gas facilities with proven leadership capability.
* Experience in Control System on YOKOGAWA DCS (Centum 3000), ABB DCS, SIEMENS S7 400 DCS Allen Bradley RS Logic X 5000 Series and SCADA operations.
* Handling of pressure, level, flow and temperature transmitters, pH Conductivity, ORP analyzer through HART communicator which includes calibration and troubleshooting
* Working with Electronic, Pneumatic Controller, Control Valve, Power Cylinder, SMART Transmitters, Converters and Solid Level, Flow, Pressure and Temperature switcher.
* Mounting of Transmitters, Control Valve, and Analyzers etc. Respect to the type of line and process control.
* Cable laying and Cable scheduling according to the specification.
* Handling of shutdown jobs and daily routine checking of DCS and PLC Fire Fighting System hardware.
* Installation and commissioning of Transmitter, Junction boxes, cable tray, tubes Valves, Control desk as per P & I Diagram.
* Knowledge on trouble shooting of all Measuring Instruments like Pressure transmitter and Flow transmitter and RTD& Thermocouple.
* Familiar with Preparation of specification Cable schedule and junction boxes allocated, Trays, Instrument air lines, Impulse Lines Erection as per PI Diagram.
* Familiar to configuration of field instruments through Field foundation bus communication.
* Familiar to configuration of drives through Profit bus communication.
* Familiar with preparation of specification I/O panel field instrument termination details loop checking and commissioning of Yokogawa centum 3000.
* Experience to handling and programming in single loop& multi loop PID controllers.
* Familiar with servicing, Testing of Pneumatic Cylinders, Pneumatic Pilot operated values and Pneumatic Controller.
* Installation & Commissioning of security & Fire System (Chubb)Card reader/Door Lock switch Read switch, smoke detector. Fiber optic interface links Mimic panel Erection & testing .
* Testing, Commissioning & Integration of various sub systems like Fire & Gas System, Security System etc.
* Installation of Security System Equipment, Fire Detection Equipment, Communication system.
* In later stage involve in per-commissioning ,commissioning for Project till handover.

##### PERSONAL PROFILE

Date of Birth : 24th October 1985

Gender : Male

Marital Status : Married

Nationality : Indian

Passport No : Z3947002

Date of Expiry : 20/10/2027

Permanent Address : 4/179, Kalaivanar Nagar,

Near Shakti Nagar,

Kattur, Trichy-19

Tamil Nadu.

Languages Spoken : English, Hindi, Tamil.

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