

SUDALAI MUTHU SUBRAMANIAN

Senior QA/QC Engineer, MME/UPDA Registered Engineer, CSWIP 3.1 Welding Inspector

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PROFESSIONAL SUMMARY

Results Oriented and highly motivated Mechanical Engineer with more than **11 years of experience in Quality Assurance / Quality Control inspections on Power, Oil and Gas construction projects**. Primary Inspection responsibilities are monitoring, supervising and appraising the Contractor's / Sub-contractors fabrication, construction and repair performances in the area of Quality Control including evaluation of materials and procedures in accordance to specific Project Specifications, Codes & Standards. Such Inspection responsibilities includes monitoring and checking the quality works in the areas of **Mechanical, Structural, Pipings, Pressure Vessels, Storage Tanks, Heat Exchangers, Skid Packages, Welding, Non-Destructive Testings, Protective Coatings, Linings and Conformity Assessment of Products and Services**.

Distinctly been an **Internal Auditor for ISO 9001:2008 Quality Management System** and familiar with International Codes & Standards like **ASME, ASTM, API, BS EN, ISO, etc.,**

CERTIFICATIONS

- Qatar MME / UPDA Engineers Committee Registered Mechanical Engineer (Registration No. 29316)
- CSWIP 3.1 – Certified Welding Inspector (Certificate No. 91819/2)
- ASNT NDT Level II – UT, RT, PT & MT
- Certified ISO 9001:2008 & OHSAS 18001:2007 QOHS MS Internal Auditor

SKILLS

- Inspections & Testings
- ASME Codes & Standards
- Engineering Drawings
- Microsoft Office

WORK HISTORY

QC ENGINEER

April 2015 to Current

Debaj Industrial Services W.L.L. | Doha, Qatar

Projects Summary

- EPC to install Side Stream Filtration Unit for FCW System Train 6 & 7 in QG3&4 – Qatar Gas – **Fabrication, Assembly and Testing of Entire Skid Package with Filtration Vessels, Interconnecting Pipings, Acces Platforms, Handrails, Ladders and Structures.**
- **QAPCO Mega Turnover Shutdown 2021** – Qatar Petrochemical Company – **Heat Recovery Steam Generators Tie-in points replacement works.**
- **QAPCO Mega Turnover Shutdown 2021** – Qatar Petrochemical Company – **Fabrication and Replacement of Thermofluid Storage Tank.**
- Hamad International Airport Expansion Project – Consolidated Contractors Company – **Fabrication, Testing, Painting and Erection of Surge Tanks, Sampler Vessels, Sample Return Vessels (ASME Section VIII Division 1), Pipings (ASME B31.3) and Support Structures.**
- Qatar Petroleum / PALL Corporation – **Fabrication of Naphtha Feed Filter (ASME “U” Stamp).**
- Umm Al Houl Power IWPP Plant – Samsung C & T – **Fabrication of SS Surge Vessels and Alloy Pipings.**
- Ras Laffan Olefin Project – Aquatech – **Replacement of Rubber Lining for Mixed Bed Vessels.**

- Occidental Petroleum of Qatar Ltd – **Fabrication of Drain Knock Out Pot & Instrument Air Receiver.**
- Qatar Fuel Additives Co. Ltd – **Fabrication of Spent Caustic Degassing Drum (ASME “U” Stamp).**
- Kahramaa / Leighton Contracting – **Fabrication of Surge Vessels (PD 5500).**
- T-Type Sea Water Supply Strainers – Qatar Fuel Additives Co. Ltd – **Fabrication of Strainers with Housing (Titanium & Monel Materials).**
- Dolphin Energy Limited – **Fabrication of Methanol Drum (ASME Section VIII Division 1).**
- Repair Work – Qatar Petroleum / Energy Technical Services – **Repairing of Hydrogen Bullet (ASME “R” Stamp / ASME Section VIII Division 2).**
- Umm Al Houl Power IWPP Plant – Acciona Agua – **Fabrication of Stainless Steel (SS), Duplex (DSS) and Super Duplex Stainless Steel (SDSS) Pipings (ASME B31.3).**
- EPICC for Wastewater Recycle & Reduction Project – Qatar Gas / SNC-Lavalin – **Fabrication of Pipings (CS, SS, DSS & Haste Alloy) and Structural (Pipe Supports & Access Platforms with Handrails).**
- Desalination Project – Qatar Electricity & Water Company – **Fabrication of Tanks (ASME Section VIII Division 1 & API 650) and Pipings (ASME B31.3).**
- Poly Silicon Project – Qatar Solar Technologies – **Fabrication of Pipings (DIN Standard).**

Roles & Responsibilities

- Attends Kick-Off Meetings with Clients to get clarifications of all aspects after reading through all the Project Specifications at the start of every project.
- Ensured to capture all Critical-To-Quality parameters in the Inspection & Test Requirements / Plans / Procedures for the Equipment / Packages & Material for implementation based on Project requirements.
- Involved in ISO 9001, ASME Stamp Certification Audits and Client Audits, following up and closure of any observations, Areas of Improvement or NCR’s identified.
- Review of Fabrication drawings completely and get clarifications from the Design department if any discrepancies observed.
- Supported the projects with proposed WPS and to prepare the WPS/PQR and WPQ for the works.
- Reviewed the weekly and monthly progress based on project program along with Project Manager, Procurement and Construction Teams.
- Monitoring of Quality department KPI, Welder’s Performance and Rework Analysis on monthly basis.
- Monitor Witness, Hold points of ITP and send notifications to the Clients for upcoming inspections.
- Supporting and liaising with Third Party Inspectors, Authorized Inspector (AI) and Clients.
- Monitoring of welding activities, performing welding inspections and following up of NDE and Hydro Test activities based on requirements and reviewing of NDE reports.
- Visited Suppliers & Sub-suppliers works for field expediting & inspection visits to verify progress and for stage / final inspections.
- Verified the vendor / sub-vendor deliverables by means of reviewing the quality documents.
- Verification of Calibration Records of all instruments and equipments used.
- Monitored processes to identify areas for improvement and implemented plans to achieve results.
- Performed field walk-downs of proposed installation sites, inspecting facilities for potential issues, preparation of Punch lists and follow up for closure of the same.
- Performing Surface Preparation and Coating Inspection as per the approved procedure including Adhesion Test, Salt Level Check, DFT Check, Holiday Testing, etc.,
- Preparation of Documents and Compilation of Manufacturer’s Record Book (MRB).

QA/QC INSPECTOR

February 2013 to February 2015

Rotating Offshore Solutions Pte Ltd | Singapore

Projects Summary

- MOPU – BOSS-1 (Ship) – Pertamina, Indonesia – **Refurbishment of Oil & Gas Production Facilities.**

- Gas Dehydration Unit Package – Pertamina, Indonesia – **Fabrication of Pressure Vessels (ASME Section VIII Division 1), Piping (ASME B31.3) & Skid Installation (Singapore).**
- LP & MP Gas Compressor Skid Packages – Petrofac, Sharjah – **Fabrication of Pressure Vessels (ASME Section VIII Division 1), Piping (ASME B31.3) & Skid Installation (Singapore).**
- Gas Compressor Skid Packages – Hyundai Engineering Company, Oman – **Fabrication of Pressure Vessels (ASME Section VIII Division 1), Piping (ASME B31.3) & Skid Installation (Singapore).**

Roles & Responsibilities

- Receiving Inspection of Raw Materials, Bought-Out items and Welding Consumables, checking its compliance with Material Certificates & Project Specifications and reviewing of Material Certificates as per applicable Codes and Standards.
- Performing Inprocess inspection of fabrication works of Structural, Piping and Pressure Vessels as per applicable Codes and Standards.
- Performing Fitup, Orientation and Alignment Inspections, Final Dimensional Checks and Welding Visual Inspections as per the approved drawings and applicable procedures.
- Monitoring welding activities at each stage and resolving any welding issues if occurs.
- Performing Line Check and Reinstatement of the total package as per the isometric drawings and Piping & Instrumentation Diagram.

QC INSPECTOR

December 2010 to August 2012

Cethar Limited | Tiruchirapalli, India

Projects Summary

- Ind Bharath Power Plant Projects – **Fabrication of Steam Drum, Mud Drum, Bed Coil Assembly, Water Wall Panels, Bank Tubes and other accessories (IBR).**
- Shree Cements Projects – **Fabrication of Steam Drum, Mud Drum, Bed Super Heater Assembly, Economiser Coil Assembly, Water Wall Panels, Bank Tubes and other accessories (IBR).**

Roles & Responsibilities

- Inspected products, components and materials for defects and compliance with tolerance standards.
- Reported repeated issues to supervisors and other departments, collaborating to identify issue roots and rectify problems.
- Communicated with production team members about quality issues.
- Evaluated components and final products against quality standards and manufacturing specifications.
- Studied blueprints and design specifications to uphold best-in-class knowledge of respective products.
- Performed visual inspections and non-destructive tests where appropriate.
- Monitored production processes to gain understanding of problematic steps and rectify issues.
- Operated, calibrated and maintained testing equipment.
- Utilized visual inspection techniques as well as performing detailed measurements with hand-held tools and devices.
- Monitored performance and generated reports detailing quality of product and defect rates.

EDUCATION

Bachelor of Engineering | Mechanical

August 2006 to May 2010

Institute of Road and Transport Technology | Erode, India

DECLARATION

I do hereby declare that the above particulars of information and facts stated are true, correct, and complete to the best of my knowledge and belief.