



## K.B. RAMESH

### QA/QC Manager

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## MECHANICAL ENGINEER

## PROFILE

Mechanical Engineer with wide experience in Gas & Oil Projects, Having 18 Years' experience working on Oil & Petrochemical refineries, Power plant, Fabrication Shop, above ground storage Tanks, Pressure Vessels, Columns, Piping, Jacketed Piping and Structural Fabrication. with skills to apply my knowledge in the development of projects in these areas of Management, Coordination, Construction, Pre-commissioning Good exposure of Codes & standard's interpretations.

## SKILLS

- Leadership
- Good Teamwork
- Communication and public speaking
- Decision making
- Resource management
- Planning, perseverance and persistence to obtain the objectives.

## IT Proficiency

Microsoft Office (Excel, Word, Power Point, Access 2010, Project 2013), AutoCAD.

## Experience

- QC Manager
- Lead QC Supervisor / Engineer
- Sr. QA/QC Engineer
- Vendor / Material Inspector

## Qualification

B.Tech Mechanical  
Diploma in Computer Technology

## Certification:

- ASNT LEVEL II – RT, UT, MT & PT
- LEAD AUDITOR ISO 9001:2015
- CSWIP 3.1Welding Inspector Level-II
- Certified as Level-II "Coating Inspector" by BGAS International, UK.

## Capabilities & Skills

- Proven track records in the field of QA/QC, Fabrication, assembly, testing, inspection. Pre-commissioning and commissioning of piping, pumps, Compressors, air fin fan, air cooler condensers, pressure vessels, heat exchangers, etc.
- Able to prepare quality control plan, work procedures, review of test certification, inspection reports, data sheets and tender documents, etc.
- Responsible for establishing quality management system and formulating construction quality.
- Capable of working in computerized environment and familiar / experienced with ISO 9001 Quality Management System.
- Accountable for quality awareness and training for all employees in the project.
- Experience in inspection testing & Maintenance of rotating equipment's, maintenance o valves and piping familiar with machinery alignment, vibration analysis and pre-commissioning and commissioning activities.
- Ability to supervise, co-ordinate and monitor construction and fabrication activities in oil & Gas industry. Familiar with HSE rules and regulations followed in oil & Gas industry.
- Can read and interpret different kind of engineering drawings (PFD's, P&ID's GAD's, piping isometrics, Equipment drawings, Fabrication and erection drawings of tanks, pressure vessel drawings and equipment drawings).
- Inspection for high integrity welding. Familiar with ferrous and non-ferrous materials used in piping and its identification and authentication, authentication of welder and welding procedure approvals, witnessing WPQT and WQT and authentication of results, checking equipment, weld preparations and fit-up prior to production, checking during welding, final visual inspection, NDT and PWHT requirements as required.
- Conducting interview for discipline inspectors / engineers, Fabricators and Welders.
- Conduct internal quality audits as per the audit schedule. Prepare audit reports and raise NCR's Observations (if required) and follow up the closeout of NCR's and Observation
- Conducting Management review meeting and submitting the MOM to client as per contractual requirement.
- Assure that adequate training of quality control personnel is done to ensure optimum utilization of inspectors / Engineers and NDE Specifications.

# WORK EXPERIENCE

Duration	Projects	Organization	Designation	Client
Oct-2018 to Present	Rastunara Refinery Clean Fuel Project	AYTB-KSA	Lead QC Supervisor	ARAMCO
Mar-2017 to Sep-2018	Sulfur Railcar Loading Facilities Project	AYTB-KSA	QC Manager	ARAMCO
Mar-2013 to Aug-2016	Construction Of Oil Terminal at Hamriyah Free Zone, Sharjah (UAE)	SINOPEC -UAE	Lead Engineer	TAKREER /Abudhabi
Nov-2011 to Mar-2013	Construction of Michelin Tyre Factory	MW High Tech Projects India Pvt. LTD,-Chennai	Sr.QA/QC Engineer	MICHELIN
Dec-2010 to Oct-2011	Sulfur Expansion Project-Tengiz- Kazakhstan. (Product and Melter Tank and related piping)	Gateway Int.- Kazakhstan	Sr.QA/QC Engineer	TCO (Tengiz-Chevron Oil)- Kazakhstan
Nov-2008 to Nov-2010	COGEN (80 MW), Desalination and Polishing Plant & DHDS Revamp Muscat-Oman	HIRBODAN – Oman	Sr.QA/QC Engineer	Oman Refinery and Petrochemicals Company- Oman
Apr-2006 to Nov-2008	Fabrication Facility	ABJ Engineering & Contracting Co, Kuwait	QA/QC Engineer	Various
Apr-2002 to Mar-2006	-	Air Liquide Engineering, India	Vendor Material Inspector	Various

## Responsibilities:

- Monitoring and implementing site inspection activities of QC inspectors, supervisors and coordinating with Client QC team, Project Management team, construction representatives.
- Coordinates with third party NDT services, Sub-contractors and client inspectors.
- Proposing the corrective and preventive action for non-confirmations raised during construction phase, internal audits and assessments.
- Review and approval of QC documents as per project requirements & coordinate with third party for the procedure qualification. Welder qualification etc. and ensure the inspection are carried out as per the inspection level requirements.
- Assisting QA manager for the MQMR preparation and assuring the submission of same to the client every month before twentieth. Also involved in reviewing and achieving the two week look ahead inspection schedule for construction activities through required quality Reviewing and approving weekly welder Performance report, weekly weld rejection summary report etc.
- Deals with client regarding the Quality matters for the smooth running of the activities to assure the productivity with quality.
- Attending the progress meetings and Quality meeting with client and implementing the requirements through meetings with QC department.
- Coordinating and attending the internal QMS and program audits and providing proper dispositions for observations and NCRs after consulting with concerned departments.

- Assure that adequate training of quality control personnel is done to ensure optimum utilization of inspectors and NDE specifications. Attend the Weekly Quality tool box meeting with the Quality staff and the construction crews to resolve the technical / Quality issues.
- Responsible for Implementation, operation and maintenance of Quality Management System in compliance with ISO 9001,
- Conducting Pre-Inspection meeting with vendor before start of work. Providing technical supports to other departments for resolving quality related issues.
- Allocation of routine site works to the inspectors, Supervisors. Coordination of inspection activities at site with Construction / production team members.
- Ensuring the work sequences are executed as per the plan, procedure, work instruction and contractual documents
- Study of Scope of Work, Contract, Company Specifications, and Standards & perform the work in compliance to the specified requirements.
- Conversant with code and standard and project specification such as ASME B.31.3, ASME 31.4, 31.8 sec II, V, VIII, IX, API 1104, AWS D1.1
- Witnessing VI, PT, MT, Hardness, Vacuum box & PMI. Review of RT films & UT Reports.
- Alignment checking (linearity and verticality) for Skid package using Theodolite & leveling instrument. Inspection of out circularity of cylinder surfaces flatness of decks.
- Reinstatement, Erection and alignment of Rotary equipment like pumps, motors & compressor rotor.
- Pre-alignment inspection of DBSE & Soft foot inspection before base plate grouting.
- Checking for Leak test for duct installation by conducting light test method before joint insulation.
- Inspection of AHU & Condensing unit erection and ensure orientation, elevation & level as per drawing.
- Preparation and review of WPS, PQR, WPQ and Welder certificate.
- Witnessing Mechanical Test for Procedure Qualification.
- Preparing & offer request for NDE activities as per Project Specification.
- Witnessing VI, PT, MT, Hardness, Vacuum box & PMI. Review of RT films & UT Reports.
- Inspection activities like, fit-up, verticality, roundness, weld visual, NDE as per the approved drawings, purchase order specifications, company standards and international codes.
- Final dimensional inspection of equipment upon completion of fabrication activities.
- Verification of isometric drawing with respect to P&ID.
- Verification of pipe line completion with respect to fit up, welding and NDE inspection and clearance for Hydro test.
- Issuing inspection release note (IRN) for various vendor items/package based on source inspection, PO & Client technical requirement.
- Checking the piping/mechanical materials and monitor preservation and storage of materials as per codes and process standard specifications

## Activities Involved:

### ➤ **Management**

- ♦ Participating in various project related meetings with client for project updates, resolving quality related issues.
- ♦ Conducting Pre-Inspection meeting with vendor before start of work along with Corporate QA/QC Manager.
- ♦ Providing technical supports to other departments for resolving quality related issues.
- ♦ Preparation of QC documents like QAP, ITP, and Method statements etc.
- ♦ Allocation of routine site works to the inspectors. Coordination of inspection activities at site with production team members.
- ♦ Review and approval of vendor documents like ITP, NDE, WPS/PQR, Procedures/method statements for vendor items.
- ♦ Solving various QA/QC related issues at site and vendor places in coordination with PMC and Client.
- ♦ Resolving of NCR in coordination with internal departments, PMC & Client.

### ➤ **QA Experience:**

- ♦ Internal Auditing to ensure the quality systems with respect to the Company QA manual and ISO 9001:2008 requirements.
- ♦ Study of Scope of Work, Contract, Company Specifications, and Standards & perform the work in compliance to the specified requirements.
- ♦ Review & Approval of Contractor's Procedures related Fabrication & Erection.
- ♦ Meeting with senior management (PMT & PMC) to improve the working system & quality.
- ♦ Ensuring the work sequences are executed as per the plan, procedure, work instruction and contractual documents.
- ♦ Monitoring the inspection activities and testing works at site as required by Inspection and Test Plans and ensuring compliance with respect to the engineering drawings, specifications, codes & standards and project contract documents.
- ♦ Initiating Non-conformance Reports where the quality discrepancies found against the requirements.
- ♦ Preparation of inspection status report for management & client review and record.

### ➤ **Material Inspection at Vendor consign & Site**

- ♦ Coordinating and scheduling the Third party inspectors based on criticality rating & inspection class as per approved overall vendor inspection plan.
- ♦ Inspection of Material / equipments, Plates, Pipes, Fittings, Valves, Structural steel, Pressure Vessels, Storage Tanks, Off Shore Baskets, Skids, Ducts, Cranes, and various Rotary equipments with respect to PO, Code and project specification at vendor place.
- ♦ Stage wise inspection activities as Inspection and Test Plan during Fabrication.
- ♦ Witnessing of FAT, hydro test for various equipments and piping system.
- ♦ Coordinate with vendor to submit all required documents before the items are being delivered to site for clearing material after receiving inspection at site.
- ♦ Issuing inspection release note (IRN) for various vendor items/package based on source inspection, PO & Client technical requirement.

➤ **Welding**

- ♦ Preparation and review of WPS, PQR, WPQ and Welder certificate.
- ♦ Review and approval of WPS according to project requirements.
- ♦ Witnessing Mechanical Test for Procedure Qualification.
- ♦ Monitoring welding consumables as per requirement of established Standards & Specification.
- ♦ Review, approval and issue of job clearance card for welder according to their qualification done by approved third party company.

➤ **NDE**

- ♦ Preparing & offer request for NDE activities as per Project Specification.
- ♦ Witnessing VI, PT, MT, Hardness, Vacuum box & PMI. Review of RT films & UT Reports.

➤ **Static Equipment (Tanks & Pressure vessels)**

- ♦ Inspection activities like, fit-up, verticality, roundness, weld visual, NDE as per the approved drawings, purchase order specifications, company standards and international codes.
- ♦ Witnessing of testing like, NDE, pneumatic test, cleanliness inspection, destructive testing, and vacuum box test for the bottom plate.
- ♦ Inspection of incoming materials like, plates, fittings, forgings, prefabricated components, etc.,. With respect to the purchase order and technical data sheet requirements.
- ♦ Visual inspection upon completion of welding of the tank bottom for any potential defects like sumps, dents, gouges, three plate laps, bottom plate's breakdowns, arc strikes, temporary attachment removal areas and welding lead arc burns.
- ♦ Roof Sealing system inspection i.e. rubber seal, seal plate and etc. Roof leg supports inspection; Pontoon gasoil leak testing, internal coating inspection (if any) and Roof drain system.
- ♦ Final dimensional inspection of equipment upon completion of fabrication activities.
- ♦ Visual and dimensional inspection of access holes, man ways and nozzle openings
- ♦ Witnessing of hydro, pneumatic test. During hydro testing of tanks, verification of settlement and verticality as per API 650 requirements.

➤ **Piping**

- ♦ Verification of isometric drawing with respect to P&ID.
- ♦ All inspection activities (Adhesive joints, Lamination Joints, Bell & Spigot Joints and Flange Joints) Of GRE,GRP,FRP Pipe line at shop and site.
- ♦ Witnessing of Barcol impression hardness test for GRE, GRP, FRP piping.
- ♦ Verification of pipe line completion with respect to fit up, welding and NDE inspection and clearance for Hydro test.
- ♦ Witnessing of alignment, orientation and dimensions of installed piping.
- ♦ Assures that all joints are exposed for examination during pressure test.
- ♦ Making a re-instatement punch list and clearing the items.
- ♦ Witnessing of Flange joint assembly and bolt torque.
- ♦ Inspection of supports, valves prior to line reinstatement acceptance and ensure the blinds are removed and correct rating gaskets are installed.
- ♦ Prepare & Verification of piping test package with respect to the project requirements.

➤ **Rotating Equipment**

- ♦ Inspection during erection, alignments and field run test.
- ♦ Inspection of Equipment Alignment, Elevation, Verticality/horizontalness, Orientation & centering checks and ensure requirement before release for Grouting.
- ♦ Alignment checking (linearity and verticality) for Skid package using Theodolite & leveling instrument. Inspection of out circularity of cylinder surfaces flatness of decks.
- ♦ Reinstatement, Erection and alignment of Rotary equipment like pumps, motors & compressor rotor.
- ♦ Pre-alignment inspection of DBSE & Soft foot inspection before base plate grouting.
- ♦ Final alignment inspection of pumps (with/without piping connection), DBSE & Soft Foot inspection.
- ♦ Recording Vibration, noise level & RPM and condition monitoring as per procedures
- ♦ Executing functional and pre commissioning checks coordination with field engineers and Technicians.

➤ **HVAC**

- ♦ Perform routine inspection as per approved ITP. Layout and elevation drawing and Project specification.
- ♦ Ensuring the installation of Duct accessories, duct heater, Volume damper, sound alternator, Air terminal device, Flexible connections, Fire damper & motorized dampers as per approved drawing & requirement.
- ♦ Checking for Leak test for duct installation by conducting light test method before joint insulation.
- ♦ Inspection of AHU & Condensing unit erection and ensure orientation, elevation & level as per drawing.
- ♦ Pre-Commissioning checks for HVAC System includes equipment, duct, dampers & copper Tubing.
- ♦ Final Visual inspection of HVAC system includes identification tag for equipments, Air flow direction on the duct Air terminal devices.

## **Personal Profile**

Date of Birth : 11-01-1982  
Permanent Address : No 12 RANGANATHAPURAM,  
Mylapore, Chennai – 600 004, India.  
Passport No : M6460028  
Date of Expiry : 22.02.2025  
Place of Issue : Dubai  
Nationality : Indian  
Marital Status : Married  
Languages Known : English, Hindi, Tamil and Malayalam

**K.B.Ramesh**

Place: Kingdom of Saudi Arabia