

**VENKATESHKUMAR.R**

**[B.E Mech.; 11 years exp as QA/QC and Welding Engineer]**

Mobile no : +91-8136847327, 8778728213,

E-MAIL : [kumar26790@gmail.com](mailto:kumar26790@gmail.com)

Address : LIG 69, Old ASTC HUDCO, Hosur-635109, Tamilnadu

# Career Objective

In depth experience in QA/AC activities, welding technology, problem solving techniques and quality improvements, looking for a challenging position to utilize my strengths and abilities in Quality and Welding Engineering.

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| **Professional Experience** | | | | |
| **Designation** | **Organization**  **Name** | **Nature of business/ Projects** | **Duration** | **Years of**  **experience** |
| Inspection Engineer (Third Party Inspector) | TUV SUD South Asia Pvt Ltd., Chennai | Third Party Inspection of 1.2m Trisonic Wind Tunnel Project, **ISRO, Trivandrum** | Sep 2020 to Present | --- |
| Senior  Welding Engineer | Velmurugan Heavy  Engineering Industries, Trichy | Windmill tower and accessories manufacturers | Jan 2020 to Sep 2020 | 9 months |
| Senior QA/QC Engineer | Rishi Consfab Private Limited, Bangalore | Manufacturers of earth moving parts and truck mounted concrete mixers. | Dec 2017 to  Dec 2019 | 2 years and  1 months |
| QA/QC  Engineer | Kwik Steel Structures, Dubai | High capacity structural steel fabrication | Dec 2015 to  Nov 2017 | 2 years |
| QC Engineer- Welding | AKE Infrastructure Pvt Ltd., Bangalore | Fabricators of Stator frames for alternators, truck mounted concrete mixers. | Oct 2012 to  Sep 2015 | 3 years |
| Welding Engineer | Cethar Limited, Trichy | EMPC of Thermal Power Plant and Manufacturing of Boiler Equipment & Piping | June 2011 to  Sep 2012 | 1 year and 3 months |

# Professional synopsis:

* Proficiency in various codes and standards such as ASME Sec IX, ASME Sec II, ASME Sec VIII, ISO 15609, ISO 15614, EN 287-1, AWS D1.1, AWS D1.3 & AWS D1.6 and ISO 5817
* Expertise in managing quality related activity & planning in-process inspection and coordination.
* Sound knowledge in problem solving techniques using **Seven QC tools and 8D method**.
* Sound knowledge in **PPAP, FMEA and Control Plan**.
* Excellent knowledge in Material inspection, Dimensional Check and Documentation.
* Strong relationship management and communication skill with an ability to identify and network with clients/contractor/third party inspector/consultants/vendors.
* Sound knowledge in welding processes such as ***GMAW, GTAW, SMAW, FCAW* and *SAW*** and capability to implement appropriate process according to welding projects.
* Extensive knowledge in Fixture development and implementation of **Poka yoke method**.
* Extensive knowledge in documentation as well as maintenance of relevant reference standards of welding inspection (WPS, PQR & WPQ).

# Certificate course

* Completed *CSWIP 3.1 Level II*- Welding Inspector (Cert.no: 95724/2) (valid through 22 January 2025)
* Accomplished *ASNT* (American Society for Non-destructive testing) *Level II (RT, UT, MT & PT)* (valid through 18 April 2027)
* Successfully completed *Six Sigma Yellow belt* at Noble Institute of Quality Certification.

# Roles and Responsibilities at TUV SUD SouthAsia Pvt Ltd.,

# Project Name: 1.2m Trisonic Wind Tunnel Project, ISRO III, Thiruvanthapuram.

# Witnessing Welder qualification test and procedure qualification test.

# Approving WPQ certificate and WPS/ PQR after the successful completion of NDT/ DT requirements as per ASME Sec IX.

# Carrying out site inspection activities including Fitup, Weld visual, NDT as per approved FQP and reviewing inspection reports

# Reviewing for RT films and interpreting acceptance as per ASME Sec VIII.

# Witnessing Hydro test and pneumatic test as per approved FQP and Code requirements and reviewing Hydro/ Pneumatic test reports.

# Alignment inspection of Mechanical Equipments including Valves, Pumps, Compressors, EOT Cranes etc.

# Referring the P&ID, GAD & Isometric drawings and ensuring all the Instruments and Process are completed.

# Reviewing traceability reports and Test packages of Piping.

# Alignment and assembly inspection of Sensitive equipments such as Silencer Section, Settling Chamber, Flexible Nozzle, Transonic Test Section, Model Cart, Variable diffuser, Movable diffuser, Fixed diffuser, Ejector section and Muffler.

# Blasting inspection and painting inspection of all equipments as per project specification and Reviewing Corresponding inspection reports.

# Monitoring all Pressure gauges, measuring instruments, welding machine, Mother oven and portable oven are in working condition and reviewing the calibration reports.

# Inspection of incoming materials and reviewing IMIR

# Preparing Inspection Visit Report (IVR) and reporting the inspection activities carried out to the End user (ISRO) and Reporting Manager on daily basis.

# Roles and Responsibilities at Velmurugan Heavy Engineering Industries

* Qualification of WPS/PQR/WPQ/WOPQ as per relevant codes and Standards.
* Maintaining Welders continuity records, Master list of WPS/PQR and welder’s list.
* Preparing Weld Map ***-*** welding process, electrode, Preheat & PWHT to be adopted for a weld joint
* Estimation of welding consumables and raise PI for project requirement.
* Conducting tool box meeting before start of every shift and creating safety awareness in work station.
* Responsible for welding department control of all welding supervisors/ welding operators and equipment.
* Improve welder performance by facilitating training, system and tooling.
* Responsible for controlling the defect rate within 0.5% by continuous process developments and process monitoring.
* Developing welding techniques and procedures involving fabrication of metals, utilizing knowledge of product specifications, properties and characteristics of metals and metal alloys and engineering principles.
* Conducting research and development investigations to develop and test new fabrication process and procedure, improve existing or develop new welding equipment, develop new or modify current welding methods, techniques and procedures.
* Preparing technical reports as result of research and development and preventive maintenance investigations.
* Evaluating new developments in welding field for possible application to current welding problems or production processes.
* Directing and coordinating technical personnel in performing inspections to ensure workers compliance with established welding procedures and standards on testing welds for conformance with national code requirements or testing welding personnel for certification
* Contacts personnel of other agencies, engineering personnel or clients to exchange ideas information or offer technical advice concerning welding matters
* Performing experimental welding to evaluate new equipment, techniques and materials.

# Achievements

* Successfully implemented TWIN Arc SAW welding machine and reduced the production time by 35%.
* Produced zero UT defect in five sections in a single month by improving process stability.

# Roles and Responsibilities at Rishi Consfab Private Limited

* Ensure safe working environment for all personnel working on job site and eliminating unsafe work practices.
* Oversee all quality control operations, including making team assignments, review PDI reports and providing support to junior QC inspectors.
* Collate all inspection reports from QC inspectors and create detail production reports on daily basis.
* Developing jigs/ fixtures/ templates wherever necessary in order to reduce production time and increase quality efficiency.
* Developing quality control requirements and procedures for new products and improving the quality level of existing product.
* Coordinating in all inspections, monitor the required tests, record inspections in Pre-Delivery Inspection (PDI) Reports.
* Carrying out feasibility study and accordingly preparing technical review report for New Product Development.
* Carrying out Layout inspection, preparing FMEA, control plan and process flow charts for New

Product Development.

* Conducting process audit on all components and validating fixtures accordingly.
* Assisting QA/QC Manager in conducting internal and external quality audits.
* Ensuring that Non-Conformance Reports (NCRs) raised once the activities deviated from the Specifications or normal construction industry practices.
* Preparing Corrective and preventive action plan for NCR raised by customer and executing the same in shop floor.
* Attending Monthly Quality Review Meetings (QRM) with customers and resolving the issues of previous month.
* Monitoring and ensuring the Fabrication processes are carrying out as per fabrication procedure.

# Achievements

* Reduced defect rate from 2.5% to 0.5% by implementing inspection templates for inspecting all parts in order to avoid manual errors.
* Represented as a single point of contact for all quality related activities by the customer (Ajax and Komatsu)

# Roles and Responsibilities at Kwik Steel Structures

* Coordinating the document controls of technical submittals, drawings, etc. with the Project Team and to ensure that the QA/QC validation have been done, to ensure their issue, amendments and recall of controlled documents.
* Preparation of Inspection Test Plan with respect to the Purchase Order and Contract Specifications
* Coordinating in all inspections, monitor the required tests, record inspections and tests made as per the Contract Plan and Contract Specifications.
* Preparing and maintaining the Material Traceability record for all the parts.
* Liaise with the Client's representatives for the conduct of day-to-day quality related project activities.
* Coordinating with the Project Manager regarding work performance and hold authority to stop work in any area where discrepancies remain uncorrected and/or cancel the stop work order upon satisfactory correction of noted deficiencies.
* Coordinating with the project staff to compile and maintain pertinent records of inspection and testing until end of the contract and all pertinent records for retention on completion of the project.
* Preparing Manufacturing Record Book and submitting it to the Client for Approval
* Attending Monthly Project Review Meetings (PRM) and alert the project team of any potential problems.

# Roles and Responsibilities at AKE Infrastructures Private Limited

* Raw material inspection, Dimensional check, welding inspection and NDT
* Preparing fit up, weld visual and final inspection Reports
* Planning Welding consumables for all components.
* Implementation of welding sequence for the critical components to eliminate the distortion.
* Checking the welding variables during production weld.
* Follow up for closing Non-conformances and guide the other departments if they feel difficulty.
* Reporting unsafe practices and unsafe zone to the production supervisor.
* Conducting training for welders, creating awareness on welding and welding safety.
* Troubleshooting Weld defects and responsible for providing good quality weld.
* Responsible for calibration of all machineries/instruments periodically and maintaining the records of the same.

# Roles and Responsibilities at Cethar Limited

* Conducting *Procedure Qualification Test*, preparing *Procedure Qualification Record* and

*Welding Procedure Specification* as per AWS D1.1/ ASME Sec IX/ ISO 15614.

* Responsible for co-ordinating and facilitating the *welders training* and *Qualification testing*

activities as per the relevant codes AWS D1.1/ ASME Sec IX/ EN 287-1.

* Preparation of the *welder list,* maintaining the *continuity record* for welder / welding operator and revalidating the same on regular basis.
* Preparation of *Welder Certificates* for qualified welders as per appropriate Codes.
* Study of the manufacturing drawings and prepare *Weld matrix / Weld Map* **-** welding process, electrode, Preheat & PWHT to be adopted for a weld joint.
* Review of sub-contractors *WPS / PQR* and *WPQ* as per relevant codes.
* Perform responsibilities of *monitoring welding parameters* and report any deviations to the Supervisors or In-charges.
* Responsible for maintaining *safe working environment* for all personnel working on job site.

# Educational Summary

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| **Course** | **Institution** | **Board of**  **study** | **Year of**  **passing** | **Percentage** |
| B.E  (Mechanical Engineering) | Alagappa Chettiar College of Engineering and Technology,  Karaikudi, Tamil Nadu, India | Anna University | 2011 | 73.22 |
| HSC | P.A.C.M Higher Sec School, Rajapalayam, Tamil Nadu, India | State Board | 2007 | 89.11 |
| SSLC | P.A.C.M Higher Sec School, Rajapalayam, Tamil Nadu, India | State Board | 2005 | 90 |

**Software Skills**

* Microsoft Office
* Auto CAD

# Personal details

* Father's name : D.Rajamanickam
* Date of birth : 26th July, 1990
* Nationality : Indian
* Marital Status : Married
* Languages known: Tamil, English, Hindi & Kannada*.*
* Passport No. : L1036574 (14.05.2013 to 13.05.2023)

# Declaration

I hereby declare that the information furnished above is true, correct and complete to the best of my knowledge.

# VENKATESHKUMAR R