



Ramesh Krishnan

An experienced professional targeting assignments as a senior position in Electrical & Instrumentation Engineer- Design, Detail Engineering, Technical Review , Proposal & Quotation , Planning & Project Management in an organization

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Profile Summary

- A **Senior Engineer in E & I** with an overall experience of over 11 years in **Design, Detail Engineering & Technical review, Tender Proposal & quotation, Planning & Project management**
- Power system study using ETAP -load flow & short Circuit, Relay coordination, Motor starting current, Arch flash & Harmonic analysis
- Familiar with IEEE & IEC standards
- Design, Sizing & Selection of Electrical Equipment's / Lighting & Power/ Lightning protection & Earthing system/ Single line drawing
- Electrical load list calculation/Cable voltage drop calculation/ Familiar with Layout & cable routing
- Design, Sizing & Selection of Instrument tubing & fittings/ Control & Signal cables/RIO Panel /JB/ Manifold
- Design, Sizing & Selection of ELV system (Data/ Telephone/PA speaker/ Fire alarm/CCTV)
- Successfully executed high value turnkey projects from the stage of feasibility study including planning, budgeting, bidding, estimation & tendering and capacity planning
- Hazardous area classification (CompEx Exproof certification) /Dialux evo 9.2 Lighting design/Revit /AutoCAD
- Highly motivated professional with excellent communication, courtesy, patience, problem-solving capabilities



Core Competencies

ETAP -Power system study
Design -Electrical
Detail Engineering, Technical Review
Tender Proposal, Quotation& BOM
Planning, Project Management
Hazardous area classification
Dialux, Revit, AutoCAD
HSE management



Academic Details

- Bachelor of Engineering –E&I from **Kamaraj College of Engineering & Technology Under Anna University**. Pass out 2009 First class



Career Timeline

- Since Nov'13 with **Cyclelect Electrical Engineering Pte Ltd., Singapore** as **Senior Engineer E & I**
- April'12-Oct'13 **Enmas GB Power Systems Projects Ltd., Client JK Paper Ltd Rayagada** as **I&C Engineer**
- Nov'10-Feb'12 with **Voltech Infrastructure Pvt. Ltd., Client GMR Warora 2X300MW Thermal Power plant** as **E&I Engineer**
- Oct'09-Oct'10 with **L&T Accurate logistics, Client Cairn Energy Oil&Gas plant** as **Asst. Instrument Engineer**



Soft Skills



Since November 2013 with Cyclect Electrical Engineering Pte Ltd., Singapore as Senior Engineer E&I

Key Result Areas:

- Power system study using ETAP -load flow & short Circuit, Relay coordination, Motor starting current, Arch flash & Harmonic analysis
- Familiar with IEEE & IEC standards
- Selection of Material / Equipment's according to the hazardous area classification
- Design, Detail Engineering & Technical review including vendor document
- Prepare and check Electrical load list/ Cable sizing Calculation
- Design of Single line drawing/ Cable routing/ Equipment layout/ Prepare and Check Cable Schedule & Cable termination Schedule
- Design Lighting & Small power/Lightning protection & Earthing system
- Design, Sizing & Selection of MSB/MCC/SSB/DB/Transformer/ Genset/ Capacitor bank
- Design, Sizing & Selection of ELV system (Data & telephone/ CCTV/ fire alarm). HVAC system & Fibre optic cable
- Sizing & Selection of Glandings & Termination including its accessories
- Rendering Pre & Post Tender/ Proposal /Attend client meeting/ Raise RFQ/Prepare and Check Quotation & BOQ
- Planning, Mobilization & Documentation
- Closely monitor the work/ Technical advice to the Purchase team & Follow up the PO. Follow up the site work until completion, Until DO sign off. Request the Invoice upon DO sign off. Leading the team of (Engineer -5 pax, Drafter -2 pax)
- Direct liaison with Client/ Prepare & Monitor the project schedule/ Man power loading
- Full understanding in the scope of work/ Prepare deviation list/ VO work
- Prepare and Monitor the Manpower & Equipment costing at the various stage of project
- Familiar with Material selection / Catalogue / Quality and safety standards in industry
- Sizing, Selection of Instrumentation & Control are followings- Tubing & Fittings, Signal & Control Cables, 2-way manifold, Air manifold/ Junction box/ Cable termination schedule/RIO Panel/PLC /HMI/ Field instruments/ Marshalling panels
- Performing study of P&ID, control schematics & specification sheets; reviewing & preparing wiring diagram (signal distribution and power distribution); verifying material and instrument datasheet and certificates
- Maintaining strict adherence to Quality, Health, Safety and Environment standards
- Executing projects involving capacity planning, technology transfer and pre-commissioning & commissioning of equipment and maintenance support; developing work breakdown structure and progress invoices
- Strong exposure in study of Process Flow Schematics, P&ID, General Assembly, Equipment Fabrication Drawing, Cause & Effects, Instrument List, I/O List, Set Point List, Design Basis, Instrument Philosophies & Specifications, Cable Route Layout, Datasheets & Typical Hookup Drawings, Loop Termination Drawings, Earthing Layouts, F&G Layouts
- Skilled in diagnosis & rectification of faults aimed at enhancing operational effectiveness of equipment; resolved technical issues through root cause analysis of problems

Projects

- Neste Oil Project (No. 1 Tuas South Lane, Singapore)
- WWTP Nalco Champion Project (Jurong Island, Singapore-637301)
- Ramo Singtec JV Mega Shipyard (Tuas South Boulevard, Singapore)
- Airliquide (Soxal) -J10 (10 Tembusu Drive, Jurong Island, Singapore)
- Alcon Manufacturing & Logistics (133 Tuas south ave 3, Singapore-637550)
- Changi New Water Plant-2 (10 Changi East Coast, Singapore-498785)
- Chemical Specialist Limited (31 Ayer Merbau Road, Jurong Island, Singapore-627717)
- Tuas Power (Tuas South Avenue 9, Singapore -637607)

April'12-Oct'13 Enmas GB Power Systems Projects Ltd., Client JK Paper Ltd Rayagada as I&C Engineer

Key Result Areas:

- Installed field instruments/ Gauges/Switches/ Manifold & tubing with fittings
- Ensured loop check, testing and commissioning of field instruments, valves & special type flow meter /level transmitters
- Supervised Hook up, P&ID, verified and checked the specification instruments and valves as per area classification
- Engaged in Handle/ Familiar PLC/ SCADA
- Familiar to handle Emerson HART 475/ Process Meter Fluke 787/ Loop Calibrator Fluke 707 / Megger Meter Kyoritsu /Multi-meter

Nov'10-Feb'12 with Voltech Infrastructure Pvt. Ltd., Client GMR Warora 2X300MW Thermal Power plant as E&I Engineer

Key Result Areas:

- Engaged in sizing and selection of Cable Glandings Accessories (Glandings, Lugs & sleeve)
- Prepared Power & Control Cable Schedule, Power & Control Cable Termination Schedule
- Assessed the installation of DB/ Lighting and Power/LCS for motors/Earthing
- Supervised Megger Test & Motor No Load Test
- Lighting and Power Testing with DB; coordinated with cable joint works, Hi Pot Test & Relay Test
- Performed maintenance activity – daily check/ MOC/PPM/Monthly check

Oct'09-Oct'10 with L&T Accurate logistics, Client Cairn Energy Oil&Gas plant as Asst. Instrument Engineer
Key Result Areas:

- Installation of Instrument & Control Cable as per Cable Schedule
- Supervise Glanding & Termination as per Cable termination Schedule
- Supervised the installation of cable tray with supports, cable laying

Notable Achievements Across the Career

- Designed and developed Projects in given time line
- Created a project road map and successfully executed project development & completion with quality and safety manner
- Negotiated cost, product placement, and production, thereby saving costing for the organization
- Successfully reduced rejection rate of the product through circuit rectification against supply variation; Controlled product quality by defining number and limits of parameters for manufacturing; drove PQC improvements through close interface with vendors; provided recommendations to vendors for achievement of the goals

Courses for Safety

- Construction Safety Orientation Course for Project Manager
- Supervise Workplace Safety Health in Process Plant
- BCSS Tunneling
- Work at Height for Accessor/ Manager

Technical Skills/ Key Skills

- ETAP 16.0.0 Power System Analysis
- Revit 2016 & AutoCAD
- Dialux Evo 9.2 Lighting Design
- CompEx Exproof Competency Certification – Hazardous Area Classification
- Microsoft Project Planner / MS Excel, Word & PowerPoint

Personal Details

Date of Birth: 11th May 1988

Languages Known: English / Tamil/ Hindi

Address: 63/1A , Mohammed shapuram, Tirumangalam,. Madurai,Tamilnadu-625706

Nationality: Indian

Marital Status: Married

No. of Dependents: 2

Passport No.: T8980595, Expiry date 14-06-2030

Aadhar card No :728395504353

Driving License: TN58Z20120003806