**Sudheer Kumar Sirra**

Mobile: +91 9677267821

Email: Sudheerkumarsirra@gmail.com

***Electrical Design Engineer with over 14+ years of strong experience in***

* ***Subsea, Oil and Gas industry in Norway/India***
* ***Renewables Energy, France @India***
* ***Health care industry, USA @India***

# Summary of Qualification



**Handled multifaceted roles: Electrical design Engineer, Project Engineer, Costing and Sourcing Engineer, Cost-out Engineer, Team Lead**.

* 7.8 years of experience with FMC technologies, Norway @Tata Consultancy services in Subsea Oil and Gas
* 1 year of experience with Bharat Heavy Plates and Vessels Limited an EPC Company in Oil and Gas
* Have 3 years of experience in Costing and Souring Engineer in GE Health care @Tata Consultancy services
* Present – 2 Years of Experience with GE Renewable Energy @Tata Consultancy services as Electrical Design Engineer for Offshore Wind turbine

# Present Work Experience



***Jul 2007 - Till date:***

## Below are the current and previous Assignments with **Tata Consultancy Services, India**

* *Sep 2020 – Till date (2 Years):*

**Electrical Design Engineer** on assignment to **GE Renewable Energy**

**Projects:** Haliade-X offshore wind turbines – Ocean Wind, Vineyard, Dogger Bank

# Tasks and Responsibilities

* Provide innovative design solutions to meet requested functionality, timing, cost and reliability targets.
* Execute Engineering design work on wind turbine electrical components and their assembly within the wind turbine system.
* Ownership for electrical wind turbine components (such as Generator Boxes, Cables, Power racks..etc), which includes definition of requirements and characteristics, technical clarification, interface definition, prototyping, testing, homologation and introduction into manufacturing up to issue resolution in the installed fleet.
* Drive compliance of components and their use to international codes and standards like IEC, UL, CSA, ISO, CE, CCC, DIN etc.
* Support other departments (Service, Supply Chain, Manufacturing, Services, EHS…) integrating their needs in the design and defining contingency actions when needed.
* Work closely with the Supplier Quality organization to ensure design CTQs are tested properly, as well as met and maintained in the serial production process.
* Work closely with the project teams to identify all required product customization and drive the corresponding engineering processes to meet the requirements (NCR, ECO, SDR, RFI, etc.)
* Identify reliability and performance improvements for components to ensure that the wind Turbine excels in commercial performance. Promote design for reliability and ensure the return of experience to the new product introduction teams
* Participate in the technological watch, actively promoting both the protection and the development of GE’s intellectual property.
* Effectively communicate and provide recommendations through analysis, preparation, and presentation of technical material to internal and external audiences

* *July 2007 – March 2015 (7.8 years):*

# DESIGN ENGINEER On assignment to FMC Technologies, Norway - Subsea Oil and Gas

**Projects Handled:**

Egina, Wheatstone, Statfjord, RLWI Stack4, Thunder Horse 615, Snorre B WOS, Julia HIPPS, Owirs, Hydro, Lihua, Laggan Tormore, Terra Nova, Eni Kitan, Pazflor, BP Block 18, GJOA, Houston Stocking V3, Perdido, Aquila, Hibernia, Pluto Expansion, Marshal Madison, BP Lando.

**Products:**

Subsea Electronic modules (SEM610, SEM620, SEM200) for various SCMs for Production XT, Injection XT, Manifold, Work over control Modules (WOCM with SIL3 rated PSD boards), Subsea Router Modules (SRM), Subsea Power & communication Router Modules (SPCR) and Portable SEM Simulators (PSEMS) for different projects.

# Tasks and Responsibilities

* Participating in Concept design and Project detail engineering for Electrical Equipment.
* Monitoring and review of supplier documents and internal Technical Documents, drawings, Circuit diagram, specifications, calculations and manuals related to Electrical systems and equipment.
* Preparation of Specifications
* Preparation of Bill of Materials (BOM)
* Preparation of Configuration Board component list
* Preparation of Cable kit
* Preparation of power budget calculation
* Preparation of Resource configuration based on Sensor and Hydraulic Schematics
* Preparation of Circuit Diagrams and Block Diagrams in Cadett elsa and Autocad
* Preparation of wiring list
* Preparation of HW Test procedures
* Preparation of Assembly procedures
* Preparation of datasheets for miscellaneous Electrical equipment and packages.
* Preparation of FAT procedures
* Conducting DR meetings / TR Meetings.
* Handling Engineering Change Notice (ECN), NCR
* Technical follow-up of Suppliers and supplier documentation review
* Co-ordination with different departments and workshop assistance for clarifications and support
* Attending FAT at supplier locations and witnessing
* Project tracking reports to FMC managers & TCS.
* Mentoring new designers in the team.
* *Jun 2015 – Jul 2017 (2 Years):*

**DESIGN ENGINEER** - On assignment to **DANAHER**

**Products: Water Treatment Equipment**

# Tasks and Responsibilities

* Designing of Electrical Panels for Different Water treating equipment
* Preparing Load calculations
* Cable sizing calculations
* Preparing single line diagrams
* Preparing block diagrams
* Preparing BOM
* Preparing Wiring list
* *Jul 2017 – Aug 2020 (3Years):*

**Costing and Sourcing Engineer** *-* On assignment to **GE Health Care**

# Tasks and Responsibilities

* Cost-estimation services for clients according to stated needs and objectives.
* Developed comprehensive strategies for increasing efficiency and lowering costs.
* Should costing of Electrical items of the Equipment.
* Re-Designing of Cable Harness based on existing Cables for minimising the Cost
* Getting quotations from different suppliers/Manufacturers to build the price.
* Finding Alternate parts for all the electrical items in order to optimize the Cost
* Preparing Total cost report for Assemblies which including components cost and Assembling cost, Shipping cost..etc which helps in negotiating with Vendors
* Develop cost saving measures according to client’s unique requirements and operational functionality.
* Sourcing for Motors, Cable assemblies, Encoders, Electrical Enclosure Assemblies…etc

# Previous Work Experience



* *Mar 2006 to July 2007 (1Year):*

**Graduate Apprentice Trainee (Electrical Design) - Bharat Heavy Plates and Vessel Limited, India - Engineering Services (EPC) in Oil & Gas**

**Products:** Boilers & Fired Heaters

**Projects:** 2x100TPH Boilers @ M/s HPCL – MUMBAI, Fired Heaters @ M/s HPCL – Visakhapatnam

# Tasks and Responsibilities

* Design and detailed engineering of Boiler plants and fired heaters as an electrical Designer.
* Preparation of drawings such as area classification, cable routing, equipment, Earthing, lighting, Distribution transformer, HT/LT motors etc.,
* Preparation of single line diagrams for electrical equipments, which includes HT switch gear panel, PMCC, MCC, LDB, HT/LT distribution transformers as per customer requirement.
* UPS Sizing Calculations, Battery sizing calculations and Charger sizing calculations
* Selection & sizing calculations of switchgear, earthing & lighting system etc.
* Preparation of HT/LT motor data sheets.
* Sizing calculations of HT/LT cables, Lighting Transformer, earthing system, lightning protection system, indoor & outdoor lighting system.
* Preparation of specifications for various Electrical equipments, material indenting, scrutinizing, preparation of technical recommendations & delivery conditions.
* Have knowledge in preparing Single line diagrams, Load Analysis, Short Circuit Analysis and Arc Flash in eTAP

# Education Qualtification



**2001 - 2005 BACHELOR OF ENGINEERING IN ELECTRICAL AND ELECTRONICS.**

Andhra University **[ First Class ]**

**1997 - 2000 DIPLOMA IN ELECTRICAL AND ELECTRONICS ENGINEERING.**

Govt. Polytechnic **[ First Class ]**

# Organizational Skills



* Quick learner with excellent research ability and self-motivation.
* Analytical thinking.
* Strong verbal and personal communication skills.
* Accuracy and Attention to details.
* Organization and prioritization skills.

# Technical Skills



* SAP.
* Team Center Engineering.
* Enovia
* MS Excel with,MS Visio, MS Office.
* Cadett Elsa
* AutoCad
* Outlook
* Knowledge on Six Sigma and HSE.
* Agile Methodology

|  |  |
| --- | --- |
| **Personnel information** | |
| DOB | 3rd April 1980 |
| Sex | Male |
| Nationality | Indian |
| Marital Status | Married |
| Languages known | English, Hindi, Telugu |
| Passport No. | Z3953168 |
| Norway Personal Number | 03048024393 |
| Permanent address | D.no 60-32-177, Janatha Colony, Malkapuram post, Visakhapatnam, Andhra Pradesh, India, Pin:530011 |