Jagannathan. S

Electrical & Instrumentation Engineer

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**OBJECTIVE**: "Eagerly seeking a **challenging role** which will enable me to **utilize my resourceful extensive engineering experience and management skills**, continue my professional development and provide opportunity for mutual growth and advancement".

**PROFESSIONAL PROFILE:**Electrical Engineer **(E&I) with over 23 years seasonal experiences** in **Green and Brownfield** projectspredominantly in **Oil & Gas, Power,** Steel industries and Air-force**.**

Fully committed and Engaged in **Technical and supervisory** roles & responsibilities in **Middle East, Africa, Asia-pacific** by both **onshore and offshore**, with **Shell, Chevron & Saudi Aramco** Projects.

Experience extends across project life cycle including **Engineering, Construction, Quality, Testing & Commissioning, and Completion including Project Management**, energetically and efficiently worked in multicultural environments.

## PROFESSIONAL ACCOMPLISHMENTS:

## SITE ENGINEERING DESIGN & CONSTRUCTION & PROJECT MANAGEMENT:

## A strong foundation in electrical engineering and extend field engineering design knowledge.

* Technical and/or team lead for project activities to improve product quality, reduce project cost, resolve engineering and construction issues.
* Familiarization with power generation, distribution & process electrification engineering (Voltage drop, short circuit, relay coordination, Equipment layout, cable tray load calculation, Earthing /cable routing and cable schedule, and termination details preparation).
* Verifying of design drawings, calculations against layouts, electrical one line diagrams, cable block diagrams and cable and conduit schedules, AC control schematics, wiring distribution schemes, etc.
* Handling of various type of HV/LV breakers (SF6, VCB, ACB, OCB & OMCB), Power transformers, (DG / STG / GTG) Generators, Protective systems and relays.
* Familiarization of corrosion and erosion systems, and cathodic protection systems.
* Tasks and Duties Supervision and management of vendor engineering and equipment deliverables to ensure compliance with project standards and specifications.
* Provide technical Support to Construction and Commissioning groups.
* Reporting sharing information horizontally and vertically, where required.
* Excellent in troubleshooting, problem solving and decision making skills.
* Ability to lead teams and providing technical support, coaching & mentoring staff about work performance.
* Awareness on Hazardous area classifications and selection of electrical equipments.
* Develop and preparation of work packs, Method statement, Inspection & Test plans and check sheets (ITR).
* Knowledge on UPS and variable frequency drive (VSD / VFD) and their application & trouble shooting.
* Hand on experience in cathodic protection, Corrosion monitoring systems for piping, tanks & upstream piping.
* Preparation and implementation of work execution plan as relevant to the construction activities.
* Directing and coordinating construction work within company policies and procedures.
* Monitor quality, quantity and security of work, performance of direct labor and subcontractors
* Identifying and implementing corrective actions in collaboration with project management.
* Establishing management expectations, standards, goals and objectives for training, and then communicates expectations to reporting staff.
* Maintaining clean and safe construction and work environmental.
* Establishing and maintaining a positive community relationship.
* Fostering a well-trained and motivated staff, conducting employee performance reviews, and other duties as assigned by the senior management.
* Knowledge and familiarization of International Standards (IEC, NEC, NEPA70, IECEx), and Procedures and Shell DEPs, Chevron Standards/Specs, Safety in designs (SID), Qatar Kharhama, etc.
* Familiarization with material take offs (MTO), budget estimates, scheduling, spare parts & inventory control management system.
* Support Project Planning, Cost Control, Budgeting, Contract Administration, Project Reporting, Change Management and Gate Approval activities for the offshore (Well Head Jackets / topside platforms) project scope in coordination with the Project Services Manager and other PMT managers.
* Communicate with stakeholders and Technical Authority in areas related to the engineering, safety, quality, and operational aspects in order to manage and resolve technical and engineering issues in a timely manner and ensures clarity and effective interface management (MoC).
* Assure that Construction Processes sustain preservation steps for all equipments from receipt of materials at construction site throughout project lifecycle MCC to Turnover.
* Monitor the storage and preservation requirements of equipments to ensure that contractors’ plans are still adequate to the project management plan and procedure on a timely manner.
* Main focal point to interface & coordinate with Asset Team for offshore on Site technical queries.

**TESTING & COMMISSIONING**:

* Hand on Experience in testing of Generators, Transformers, HT/LT motors & control circuits, synchronization of generators /grid, troubleshooting of generators, 66/33/13.8/11/6.6/4.16/3.3 KV **switchgears & LV Switchboards**.
* Testing of **protective relays** (GE, ABB, Schneider), and **Power Management Systems, RTUs, DCS**.
* Capable of testing various types of electrical equipment like Transformer oil, Relay, breakers etc.
* Hand on experience in testing process **Instruments** and **Valves** and Fire Alarm & Fire Suppression systems.
* Familiar in testing of Rectifies, **AC/DC UPSs, Batteries, HV/LV Soft starters, VSDs & VFDs**.

QA/QC & PROJECT COMPLETION:

* Perform surveillance, inspections throughout the electrical construction work activities to ensure that electrical installation work activities Comply with all phases of the engineering design, applicable codes, specifications or standards and to meet the client’s expectations / requirements.
* Use sound construction work practices, methods and lesion learned.
* Preparation of **Inspection & Test Plan, check sheets, Test procedure and training** to applicable staffs.
* Accomplish meeting with client representative, sub-contractors and vendors as applicable.
* Material receipt inspection, maintenance and preservation/storage records.
* **Perform routine inspections** that to ensure a safe and quality installed products, which may require a signature signoff, include Equipment (Transformers, Switchgears, MCCs, bus ducts, UPS, Batteries, Motors), field instruments, substations & FAR installation activities.
* Inspection of trench, tray, supports, cable pulls, Cable terminations or splices, wiring installations & Tubings.
* Cathodic protection system (UG Piping, Tanks) Grounding, Lighting, receptacle installation and circuit verification.
* QA/QC documentation, RFI, NCR and Systems/Facility package preparation & turnover records.
* Familiar with their specific project inspection requirements, adhere to the parameters of acceptance, and ensure the condition has been corrected.

OPERATION & MAINTENANCE:

* Plans all corrective and campaign electrical maintenance activities in order to facilitate related project work.
* Leads a team of skilled Electrical Technicians and manages interfaces with operations, engineering, to ensure that plant integrity and safe operations are maintained.
* Directs all electrical maintenance activities of various process plants and act as interface between management and technical team.
* Conversant with Central control systems, telecommunication equipment, power generation, electrical switchgears, power monitoring systems.
* Leads the contractors and vendors for construction and maintenance work as required.
* Ensures that plant and equipment is maintained according to compliance and integrity standards in order to meet expected reliability and Key Performance Indicators.
* Ensures that procedures for the safe execution of tasks are in place and adhered to (including TSTI, TSTO, Permits-to Work, Job Site Risk Assessments, and Toolbox Talks).
* Ensures that all activities are accurately recorded in the maintenance management system, providing all necessary reports to the Operations team.
* Assists in recruiting, mentoring, training, and appraising Construction & maintenance personnel.
* Participates in Emergency Response Team as required (includes responsibilities in Search & Rescue and Fire Fighting Systems and Procedures).
* Continuously improve maintenance systems and procedures which will improve the effectiveness of the maintenance functions.
* Develops maintenance policies and guidelines for the smooth, efficient and effective delivery of all operations.
* Reports to the Maintenance Supervisor on all issues relating own responsibilities.
* Recommends improvement actions and practices to senior management.

ORGANISATIONAL EXPERIENCES - OVERSEAS PROJECTS:

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| --- | --- | --- |
| POSITION HELD | COMPANY & COUNTRY | DURATION OF SERVICE |
| QA/QCs Engineer (E&I Specialist) | **Brunei Shell Petroleum** Ltd, Champion waterflood project, ORMC, **Brunei.** | 01-Oct 2013 – 31-Dec-2017 |
| Electrical Engineer (Project Management Team) | KBR-Saipem JV (SGC Ltd), **Chevron EGTL Project**, **Nigeria.** | 09-May-2009 to 13-Jun-2013 |
| Lead QA/QC Engineer – (E&I) | Chiyoda-Hyundai Consortium (CHC) Ltd, Ras Laffan, **Pearl GTL**, **Qatar**. | 15-Jan-2008 to 31-May-2009 |
| Project Superintendent – Off base projects | Al-Yamama Contracting Co., Al-Taif, King Fahad Airbase, **Saudi Arabia** | 13-Feb-2007 to 10-Jan-2008 |
| Project Electrical Engineer (Air Field Facilities) | Al-Afras Contracting Company, Al-Taif, Western Sectors, **Saudi Arabia** | 12-Feb-2002 to 13-Feb-2007 |
| Electrical Supervisor – (Technical & Ammunition) | Saudi Services & Operating Co. Ltd, King Fahad Airbase, **Saudi Arabia** | 13-Nov-1996 to 12-Feb-2002 |

Oct’ 2013 to Dec 2017 - Brunei Shell Petroleum Company (Contractor)
Position: Discipline Engineer (E&I Specialist) – Offshore & Onshore

* Review Contractors Scope, Quality, Plan and Schedule documents and ensure that comply with project standards and specifications.
* Routine **surveillances and inspection on all construction activities, materials storage, throughout the project lifecycle**.
* Conduct Quality audit within the specified interval to ensure contractors are comply with standards, procedures.
* Ensure the design and construction complied with **SHELL DEPs and IEC and IECEx,** as well as **BSP standards, Procedures**, and mentoring and sharing lesson learned with sub-contractors...
* Participate/**Conduct daily toolbox talk and construction meeting with contractors**, to ensure the project is progressing according to the project base plan, and necessary action if falls back, when necessary.
* Ensure **all personal and safety measures are in place and intervene** when required & Comply with **Life Saving rules**.
* Provide expert technical guidance to design house to improve the constructability issues throughout the project(s) life cycle.
* Prepare Construction Technical Integrity Verification Plan and review contractors Inspection plan, Project Quality documents.
* **Liaison with GoCCMS focal point to ensure ITR closure** status reported and updated promptly within the next day.
* Strive for continual quality improvement of project processes and deliver product and services to the quality requirements.
* **Prepare and issue CQSR, PIN, NCR when necessary to improve the performance** and compliance to the projects requirements.
* Organize and participate tri-party walk down, and issue MC certificate upon satisfactory and verifying all necessary documents.

**Jun ’09 – 12th Jun 2013 – Southern Gas Constructors (KBR – Snam/Saipem JV)**Position: **Electrical Engineer (E&I Team Lead)** – **Project Management Team (EPC)
Client:** Chevron-NNPC, Escravos GTL Project, Escravos, Nigeria.

* Generally responsible for **implementation, executing and monitoring of all E&I related works** at site.
* Manages directly and provide engineering and technical supports to all the electrical and other work groups at site.
* Interprets construction drawings and studies the contract documents and applicable standards or specifications prior to execution of any jobs.
* Carryout site engineering design using **ETAP and manual method** for cable, relay coordination and short circuit calculations.
* Establishes and **maintains communications with the FEED groups** in the resolution of field installation concerns, design conflicts, queries, and constructability per **NEC, NEPA-70** and **Chevron project specs**, and field engineering design.
* Plans the **execution of all E&I related works and coordinates the works** to mechanical and civil groups.
* Determines area priorities for UG/AG installation (13.8kV), Equipments (Transformers, Turbines, Steam Turbine Generators 13.8kV, Air/Steam Compressors, HV/LV Motor-Pumps), and organize the materials according to overall project schedule.
* Reviews the **project schedule and working with production supervision, develops appropriate schedules, resource requirements and task / milestone durations**.
* Ensures that all the works done are in accordance with the approved construction drawings, contract documents, project specifications, and **all applicable standards whether local, national or international standards**.
* Performs **routine inspections** of ongoing work activities on a continuous basis and oversees a final check out of electrical equipments, control circuits and testing prior to turnover to the client.
* Troubleshoots, resolves and responds to identify **electrical circuitry problems, in HV/LV power systems, Drives, MCCs, Power Management Systems, DCS, and field instruments**, etc,
* **Execute field material takeoffs** from design drawings, initiates material requisitions, testing equipment, spare parts, bulk electrical material**, field materials requisition and coordination with Warehouse/Material procurements**.
* Updates daily installed quantities, reports to Project Controls, identifies new work scope, rework, site instructions and etc.
* Maintains, provides**, updated/current as-built drawings for the electrical installation** for Power generation, under and/or above ground electrical distribution systems, lighting, grounding, cathodic protection, cable tray, cable, jumpers, and termination changes.
* **Coordinates with Client / Consultant’s representatives** for any site instructions and inspection of works.
* Assist with vendor representatives to support installation, testing, troubleshooting, field changes and design related issues.
* Directly responsible for the safety of all electrical groups’ personnel of the project by ensuring that the project execution will be done according to all applicable health, safety, sanitary and environmental standards.
* Assists and coordinates with permit office/contractor such as excavation, energisation, hot work, LOTO, etc.
* **Prepare Work pack, SI, assist to sub-contractor** throughout the construction and support to system turnovers (TOSTR).
* Assist to maintain records, electrical test results, NCR dispositions, design or field documentation changes, as built & OS&D.
* Participate in **walkthroughs, generate punch list, and provides technical assistance** to rectify them and documentation.
* Establish & **organize temporary construction power requirements**, such as preservation, lighting, testing equipments throughout the construction.

**Jan ’08 – 15th May ’09 – Hyundai Heavy Industries Ltd., (Chiyoda - Hyundai JV- C4, FGP)**Position: **Lead QA/QC Electrical & Instrumentation Engineer** (EPC)
**Client:** Qatar Shell Pearl GTL project, Ras Laffan, Qatar.

* Perform surveillance, inspections throughout the electrical construction work activities to ensure that electrical installation work activities Comply with **all phases of the engineering design, applicable codes, specifications or standards and to meet the client’s expectations / requirements (Shell DEPs, and Project Specification, Project Quality** **Management** Policies)
* Use **sound construction work practices**, methods and lesion learned.
* **Preparation of Inspection & Test Plan, check sheets, Test procedure and training** to applicable staffs.
* Accomplish meeting with client representative, sub-contractors and vendors as applicable.
* Perform **routine electrical inspections** that to ensure a safe and quality installed products, which may require a signature signoff, include Equipment (Transformers, Switchgears, MCCs, bus ducts, UPS, Batteries, Motors), field instruments, substations & FAR installation activities.
* Inspection of trench, tray, cable pulls, Cable terminations or splices, wiring installations.
* **Cathodic protection system** (UG Piping, Tanks) Grounding, Lighting, receptacle installation and circuit verification.
* **QA/QC documentation, RFI, NCR** and Systems/Facility **package preparation & turnover records**.
* Familiar with their specific **project inspection requirements, adhere to the parameters of acceptance**, and ensure the condition has been corrected.

**Nov ’96 – Jan ’08 - King Fahad Airbase with various contractors (EPCM).**Position: **Superintendent / Electrical Engineer / Supervisor
Client:** Royal Saudi Air force, Western Sectors, Al-Taif, Yanbu, Jeddah, Kingdom of Saudi Arabia.

* Installation and Commissioning of Generators, HT/LT Switchgears 13.8kV, Power Transformers 110kV, 66kV and Control panels.
* Assist with Engineering for site survey, design and materials Takeoff for all Special projects in Western sectors.
* Preparation of Work schedule and Implementation of Preventive and Breakdown Maintenance Scheduled.
* Troubleshooting of Power Generators Wartsila, Caterpillar, Cummins, HVAC Systems, and Automation Systems.
* Installation and commissioning of DCS, RTUs (GP-Elliott’s, VAX/VMS, Johnson Controls, CMS), & Instruments.
* Installation & Maintenance of safety devices, CCTV, Security Systems, Fire Alarm & FS systems, (SCADA-GP Elliott)
* Installation & maintenance of Aircraft Re-fuelling system and Cathodic protection systems for tanks, UG piping’s.
* Maintenance of HV/LV ATS, VCB, ACB and SF6 Switchgears 66kV, 13.8kV, Ring-main Units and IS Stations 110kV.
* Fault rectification of Fault Finding System, Aircraft re-Fuelling system, Taxiway equipments & Hook Arresting Systems.
* On existing assets, perform periodic reviews and upgrade and modification, ex. Power plant, LOX & Water treatment plants.
* Co-ordination with Sub-Contractors and regular inspection of Sites and Technical supports.
* Technical support to operations and maintenance in assigned area, for example, trouble-shooting, turnaround scoping, spares management, and so on.

ORGANISATIONAL EXPERIENCES – INDIA (HOME COUNTRY):

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| --- | --- | --- |
| Service Engineer | Fluidtherm Technology (pvt) Ltd, Chennai, Tamilnadu, India | 15-Jan-1995 to 10-Nov-1996 |
| Electrical Engineer (Senior Electrical Authority) | Sri Krishna Alloys & Smelters, Tamilnadu, India | 23-Oct-1990 to 15-Jan-1995 |
| Electrical Supervisor | Sri Mohan Industries, Mettur Dam, TN, India. | 02-May-1990 to 20-Oct-1992 |

 **Jan ‘95 – Nov ‘96 - Fluidtherm Technology (Pvt) Ltd, Ambattur. (Chennai, Tamilnadu, India)**Position: **Service Engineer (Manufacturing & Service)**

* **Design and establish power and control panels** manufacturing for heat treatment furnaces, transport, gas panels.
* Manufacturing of Heat Treatment furnace, Control Panels, quenching tanks, and Transport units
* Installation & Commissioning of Heat treatment Furnace Automobile industries, public sectors, small scale industries.
* Assisting for R&D projects and materials procurement with the assistance of logistics.
* Installation & commissioning, Maintenance of Generators, UPS system.
* Regular inspecting all equipments during manufacturing and **maintain Quality Standards** (ISO 9000 standards.)

 **Oct ‘93 – Jan ‘95 - Sri Krishna Alloys (Pvt) Ltd. Sankari (Tamilnadu, India)**Position: **Electrical Engineer**

* **Installation, testing and commissioning of Structured Substation & Water Treatment Plants**, etc.
* Installation and **commissioning of induction furnaces, cooling systems,** overhead cranes.
* Installation of **MV** **Power Transformer, Sub-Station Equips, Switchgears (ACB), Solid State Control Panel** (Inductotherm).
* **Maintenance of Substations, Re-Rolling mills, Furnaces**, OHT cranes, pumps, cooling water plant, Lightings, Earthings and etc.

 **Oct ’92 – Oct ‘93 Tamilnadu Electricity Board** (Mettur Dam, Tamilnadu**, India**)
Position: Trainee – Electrical Proficiency

* Installation of Transmission and Distribution of Power to Industries and commercial (11KV, 22KV) feeders.
* **Repairing and Testing & commissioning of Power Transformers** and switchgears (OCB, OMCB, ACB, VCB)
* **Testing and Calibration of HT Metering Units**, Energy Meters, **Transformer oil**, Gloves Test.
* Maintenance of **Safety devices, Switchgears, Transformers, backup batteries**, Carrier Communication & etc.
* Installation, testing & commissioning of 110kV grid station control panels, and 110kV /11kV substation.
* Operation and Maintenance of **Sub-Station 110KV/11kV and distribution transformers in Mettur Electricity Distribution circles.**
* Familiar with HV/MV switching operation **(LOTO**) and Electrical safety rules and regulation (IE Rules1956)

 **Apr ’90 – Oct ’92 - Mohan Industries. (Mettur Dam, India)**Position: Electrical Supervisor (Construction in various projects incl. thermal power plants).

* Manufacturing and Installation of Panel Boards, Cabling, Transformer yards and Switchgears
* Installation & Commissioning of heavy equipments in Thermal Power plants, Textile and steel Industries
* Installation and Commissioning of Pumps, Air Compressors, Conveyers, Boilers, Overhead Cranes.
* Renovation of Industries, Maintenance of diesel Generators, Motors and Textile processing machineries.
* Repairing & installation of Auto transformers, AC/DC Motors, thyristors controller panels, etc.

ACADAMIC CREDENTIAL:

* Perusing Masters of Technology in Electrical (**M.Tech**) & Chartered Engineer (**CEng**)
* Credential of **Project Management Professional** (**PMP**) from PMI®
* IRCA certified **QMS Auditor ISO 9000:2015** & Certified Six Sigma - Green Belt
* Certificate of Core Competency (**CompEx**),
* **Bachelor of Technology** in Electrical (**B.Tech**).
* Diploma in **Electrical and Electronics Engineering** (**DEEE**).
* One year Apprenticeship Training in Tamilnadu Electricity Board (**Electrical Proficiency**).
* Certificate course in **High Voltage Testing of Electrical Power Equipments**.
* Certificate course in **PLC, SCADA & HMI** Systems.
* Certificate Course in **Visual Basic 6.0 & Oracle 8.0**.

**PROFESSIONAL REGISTRATION & MEMBERSHIP**

* The Institute of Engineering and Technology (**MIET** : 1100115107),
* **IEng** Professional Registration with Engineering Council, UK,
* Project Management Institute member (**PMI** member id. 1232870)
* ST member of **IEI** (India) & Member of **IEEE** (membership No.: 90262305)

**COMPUTER KNOWLEDGE & SOFTWARE SKILLS:**

Programming : Visual basic & Oracle, Autocad.
Software Skills **: ETAP**, PLC’s, HMI & **SCADA** (Wincc, Simatic Manager, Step 7, Cimplicity,
 Rockwell Automation).
Operating System : Win2000, XP, Red Hat LINUX.
Networking : Familiar with LAN, Proxim, Tsunami, Linksys, Benkin wireless routers.
ERP : **Maxima** - O&M Project, **i-DMS, Documentum, ERP/SAP**, CMS/CCMS, etc. **WinPCS, TOSTR, GoCCMS** - (Project Completion Systems).
Office Package : MS Office, MS Projects and **Primavera**.

**ONSITE TRAINING COURSE**

* **TBOSIET**, HSSE Training, Fire & Safety, Incident and injury Free (IIF).
* Supervisory skills Knowledge (SSK) & **Flawless Start-Up & Initiative** (FSI / FPD)
* Supervision within Life Critical Activity (LCA), Train the trainers (Communication Skills).
* Practical Leadership, TSTI, TSTO, **PTW**, GWP, ERP, **LoTo**, WRP etc,
* **Certified Equipment for Hazardous Area** Training **(IECEx)**.

**REFERENCES**

* **Mr. Sinakalai, Suppayah**, Lead Electrical Engineer (Technical Authority), Shell Brunei Petroleum (**BSP**).
* **Mr. Raimin Abdul Rahim**, Supervisor QA/QCS, Shell Brunei Petroleum (**BSP**)
* **Mr. Rick Christman,** Completion Manager**, Chevron Nigeria,** EGTL Project, Escravos**, Nigeria.**
* Mr. Mike Webb (mike.webb@kbr.com) – Project Manager (**KBR**) –Escravos GTL Project, **Nigeria**.
* Mr. Sam Bassir P.E (sam.bassir@kbr.com) – Sr. Principle Electrical Engineer – Qatar Pearl GTL Project, **Qatar**.

Date of Birth **:** 24-04-1972
Nationality **:** Indian
Passport Particulars : Z 2738527 - dated 31/31/2013, Brunei Darussalam, Valid till 30/12/2023.
Marital Status **:** Married
Licensure **:** Had Electrical Supervisory Competency (“C”) Certificate (Expired)
 **:** Having Valid India and Saudi LMV driving License (expired).
Language Known **:** English, Hindi, Arabic (basic), Tamil.

The above information is true within the best of my knowledge and belief.

Signature: S. Jagannathan