Ismail E K

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Objective

To be associated with a progressive renewed organization that gives me scope to apply my knowledge and skills and involve my self as part of the team that dynamically works towards the growth of the organization.

Education

2011-2013 **Master Degree in Electrical Engineering (Power Systems)**, *National Institute of Technology, Calicut*, Kerala, *India*.

2003-2007 **Bachelor Degree in Electrical and Electronics Engineering**, *Government Engineering College Idukki*, Kerala, India, *University: Mahatma Gandhi*.

Projects Handled

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- 500kW On-Grid Solar project at MES Medical College, Kerala-India (Duty Handled: Consulting, Scheme Checking, Material and Machine Selection, Testing and Commissioning)
- 80.96kWp Grid tied Solar Power Plant Project at MES College of Engineering, Kuttippuram-2013 -(My Role in Project Execution: Consulting, Design, Material and Machine Selection, Supervision, Installation, Testing and Commissioning).
- Consulted 40kW On-Grid Solar Plant at Dr. Shameer's and Dr. Shaju's residential home, Andathode-Thrissur.
- Consulted 10kW Solar battery back-up system at Irshad's residential home, Mankada-Malappuram, Kerala-India.
- 3 No.s of 5kW Grid Tied Solar Power Project at residential homes, Kerala.
- Areakode Kerala State Electricity Board (KSEB) 400kV/220kV Substation: 400kV feeder from Karnataka State to Areakode, three feeders of 400kV/220kV 12.5MVA Transformers commissioning and its protection commissioning
- Melattur KSEB 33kV Substation extension project: 33kV/11kV 10MVA Transformer and its protection commissioning.
- 11kV/440V, 400kVA and 160kVA Indoor Substations project at MES Engineering College.

Certification in Grid Tied Solar Systems

Certified in Grid Connected Solar Systems from SMA Academy Mumbai

Professional Experience

2016 On-wards **Electrical Consultant(Power) Engineering Department**, *EEP Hossana-Under Ministry of Ethiopia*.

Key Deliverables.

- Consultation of 1.5MW On-Grid solar project in the Hossana area.
- Planning to implement hybrid energy system.
- Consultation of Distribution project (15kV) of 500km - On Going
- Consult the work to energise the remaining villages that has no power currently.
- Coordinate Research and Development activities in the Department.
- Provide technical support for the coming projects.

2010-2011,2013-2016 **Testing and commissioning Engineer (Electrical)**, *Wuqud Power, Malappuram, Kerala, India*.

Key Deliverables-SOLAR.

- Employed Systems in On-Grid Solar Power Projects:- SMA (German) Inverters: SUNNY CENTRAL 1000CP XT, SUNNY CENTRAL 500CP XT, SUNNY TRIPOWER 20000TL, SUNNY TRIPOWER 10000TL, SUNNY TRIPOWER 5000TL; SOLAR PANEL MAKE:VIKRAM/RADIANT/TATA; DC and AC Surge arrestor, Net-Metering System (Secure Make), RPR Relay, Control Panel with Bus-Bar arrangement.
- Design Metering panel and Slar MSB Panel which includes NET-Metering Unit, RPR Device, UV Relay,TPN Swicthes, MCBs, Surge Protective Devices etc.
- On-Grid, Off-Grid and Hybrid Solar Power Projects: Work with a team of engineers in designing, developing, testing and homologating solar photovoltaic systems, support structures (Aluminium), solar panels, modules, batteries, electric power generation units for residential and light commercial use and Prepare all pertinent documentation for each manufactured product like users manual, installation manual, operations manual and technical reference manuals.
- Conduct site inspections to check on work progress and compliance to work specifications of Solar Power Projects.
- Testing and commissioning of On-Grid Solar Power Projects (Tests - U/V, O/V, U/F, O/F, Harmonics Injection into the grid, Power Flow, RPR Device)

Key Deliverables-EHV/HV PROJECTS.

- EHV/HV Substation projects: scheme Preparation, getting approval for the projects.
- Preparation of cable schedule and inspection of the equipments/materials received at site.
- Testing and commissioning of HV/EHV Protection, Power Transformers, High Voltage Circuit Breakers (VCB, SF6),Distribution Transformers, ACB, CTs, PTs, Earthing and Lightening Protection.
- Protection testing and commissioning after HV/EHV equipments erection, testing of all numerical relays by using test device.
- Providing after commissioning services, fault analysis, retrofitting and relay setting coordination.
- Reviewing the design aspects and as built documentation.
- Coordinate and supervise the works of all testing and commissioning activities and keep all people under safety conditions and monitor final completion of the work.
- Arrange all documents and records of the project (Operation and Maintenance manuals, specification, factory test results, site test results, approved drawings etc.).
- Technical support and supervise the testing/commissioning activities.
- Inspects and rectifies with routine and preventive maintenance the electricity distribution substation equipments.
- Providing services for all types of switch-gears and associated equipment such as step voltage regulators, auto-reclosers, etc.
- Performs other related duties as needed upon request by the firm.

July 2007-September 2010 **QA Engineer (Electrical)**, *Alind Switchgear Division Mannar*, Kerala, India.

Key Deliverables.

- Procurements of Switchgear components.
- Inspection of incoming materials, processed and sub contract works.
- Conduct Tests on Vacuum Circuit Breakers both indoor and outdoor ranging from 11KV to 33KV and 33KV outdoor MOCBs
- Conduct Tests on 25KV VCB and Vacuum Interrupters for Indian Railway application.
- Make Quality Assurance of finished Switch-gears in connection with its tests conducted as per the standard IS: 13118-1991(Performs All kinds of Tests on the medium voltage panel boards and high voltage Circuit breakers).
- Conduct Internal quality auditing to Maintain Quality systems.
- Assist Main Quality auditing conducted by BIS (Bureau of Indian Standards).
- Visually Inspect the Circuit Breaker before despatch from the company.
- Check and verify the test results as in test report made.
- Provide technical support and supervise the commissioning of Switchgear at work site.

Experience in Instruments and Softwares

Megger Make Protective Relay Test (MPRT) System, Fluke Make Power Quality Analyzer, Fluke Make Thermal Imager, Softwares:ETAP, PSCAD, MATLAB, MiPower, AUTOCAD

Training Undergone

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- On-Grid and Off-Grid Solar Systems - Training completed from SMA (German Technology) Solar Academy.
- High Voltage Direct Current Transmission: Past and Present - conducted by Electrical Engineering Department, Indian Institute of Technology Roorkee (IIT Roorkee), India.
- IET certified course on Smart Grid and Integration of Distributed Energy Resources along with Hands-on PSCAD Training conducted by Nayak Power Systems Pvt. Ltd., IET and MGR Chennai Network.
- Power System Stability Issues with Distributed Generators - conducted by Electrical and Electronics Engineering Dept., National Institute of Technology Tiruchirappalli (NIT Trichy), India.
- Smart Grid Engineering - conducted by Electrical Engineering Deptartment, National Institute of Technology Calicut (NIT Calicut), India.
- Advances in Hybrid Enegy Systems - conducted by Mechanical Engineering Department, National Institute of Technology Calicut (NIT Calicut), India.
- Distributed Generation and Power Quality - conducted by Electrical Engineering Department, National Institute of Technology Calicut (NIT Calicut), India.

Personal Information

Passport No:	M6535328
Date of Expiry	19-February-2025
Age and DOB	34 years; 05-May-1983
Sex	Male
Marital Status	Married
Languages	English, Malayalam, Hindi
Current location	Kerala, India

Place: Hossana, Ethiopia
Date : October 12, 2017

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