Resume

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Yogesh Joshi

Career Objective:

Aspiring to work in a professionally managed environment, where I intend to prove myself through my managerial and interpersonal skills, technical knowledge, experience and innovative ideas, learn new things always and to contribute to the success of the organization.

Professional Synopsis:

- **I am currently associated with Engie Solar (formerly Solairedirect India LLP) as Senior Engineer-Electrical Design since past three years and three months.**
- A dynamic, result oriented professional with cumulative six years of experience of working in rooftop and ground mounted Solar PV system electrical design, review, testing and validation, management, cost reduction activity, DC side, AC side engineering and SCADA system integration, drawing review, planning, coordination and value engineering.
- Key technical person in the design and engineering of cumulatively 230 kWp rooftop and around 820 MWp (completed and ongoing) ground mounted and grid connected solar PV projects till date.
- Hands on quality experience on AutoCAD and PVSyst software.

Core Competencies:

- Responsible for the all design and engineering related works. Ensuring design and Engineering according to the Indian and / or IEC standards or any other global compatible standards.
- Solar Photovoltaic grid-connected plant system design and engineering having central and string inverters. Design and engineering of off-grid, LT grid tie SPV systems with/without battery, thin film and polycrystalline modules.
- Site visits, attending technical meetings with clients and vendors. Coordination with owner's engineer and lender's engineer to achieve optimized design and engineering. Ensuring scope clarity among contractors.
- Simulation in PVSyst software during different stages of the project such as pre-bid, after technology selection and loss computation, after plant commission (as built).
- Simulations on fixed tilt, seasonal tilt and east to west tracker systems, P75, P90, P99 probability calculations. Tilt-pitch analysis, DC/AC ratio analysis, ensuring full use of land and ground occupation ratio, manual string sizing calculations.
- Work experience on SolarGIS, Meteonorm and NASA meteorological hourly and monthly average databases.

- Design and engineering of AutoCAD layouts from the contractors, ensuring plant operation philosophy, preparation of detailed engineering drawings such as DC and AC side Single Line Diagrams (SLD), CT-PT selection, relays selection, circuit breaker sizing calculation and selection, isolator drawings review, plant layout, array layout, 66kV and 132 kV switchyard layouts (AIS), earthing and lightning arrester layout, control room layout, trench/cable routing layout and cross section etc.
- Preparation of Bill of Quantity/Material (BOQ/BOM), Detailed Project Report (DPR), Techno-Commercial Tender (Request for Quotation/Proposal), evaluation of quotations/proposals.
- Cable sizing, short-circuit, voltage drop and power loss calculations, design and engineering of LT, HT switchgear panels and Transformers, UPS, cable schedule, auxiliary power supply system, substation design 33kV, 66 kV and 132 kV, ensuring breaker auto reclosing philosophy, electrical and mechanical interlocking.
- Preparation of enquiry specifications of inverters, transformers, string combiner/monitoring boxes, cables and evaluation of Guaranteed Technical Particulars.
- Review of SCADA system related drawings and documents such as I/O list, SCADA general architecture, functional analysis, cabinet drawings and FAT reports, preparing generic I/O list, specifications of fiber optic cables, SCADA operation manual.
- Planning and coordination with the SCADA vendor and the general contractor related to I/Os, protocol, wiring, Modbus mapping details etc. for the successful and timely commissioning of the SCADA system.
- Apart from the design and engineering, exposure to handle the project as site manager, project (SCADA) coordination as manager.
- Coordination with the vendor for the required plant data communication to the state load dispatch center, scheduling and forecasting.
- Review of government tenders of grid connected solar photovoltaic plants which include Solar PV plant with Battery Energy Storage System (BESS).
- Finalizing specifications and requirements of BESS as per the tender, techno-commercial discussions with BESS suppliers.
- Defining CCTV camera and periphery light locations, reviewing design documents from vendor.
- Preparation of enquiry specifications of the inverters, transformers, string combiner/monitoring boxes, cables and evaluation of GTPs. Involvement in technology selection, PV module, inverter and transformer (oil filled and dry type) selection.
- Inspection of testing on the inverters, cables, transformer, switchgear panels, RMUs, SCADA IOs.
- Drawing review of substation automation system for 132 kV substation.
- Witnessed tests on transformer as well as on inverters such as heat run test (load test), functional tests etc.
- Technical and strategical discussions with colleagues in India and France.

- Performed tasks other than technical i.e. preparing WO/PO for various jobs, approving contract and long-term service agreements (LTSA) with inverter manufacturers.

Employment Recital:

Current Employer:

M/s. Engie Solar (formerly Solairedirect India LLP)

Designation: Senior Engineer Electrical Design

Duration: 3 years and 3 months (from March 2015 till present)

Previous Employer:

M/s. Arbutus Consultants Pvt. Ltd.

Designation: Electrical Design Engineer

Duration: 3 years (from March 2012 to February 2015)

Projects worked on:

Projects at Engie Solar:

Ongoing Projects:

1. 250 MW Solar PV power plant at Kadapa Ultra Mega Solar Park in Andhra Pradesh:
   Prebid support, PVsyst simulations, support in finalizing technical specifications, EPC contractor, technical review of offers from contractor and SCADA vendors.

Completed Projects: Grid Connected:

1. Solar Photovoltaic Power Plants: 2x70 MW Bhadla solar park Rajasthan + 75 MW plant in Uttar Pradesh:
   Prebid support, DC Engineering, AC Engineering, SCADA Engineering of the complete plants, coordination with the owner's and lender's engineers, kick-off meetings with the allotted EPC contractors. 132 kV switchyard. SCADA works planning, coordination and integration

2. 25 + 35 MWp in Rajasthan, 25 + 25 MWp in Punjab, 24 + 24 + 12 MWp in Telangana (total 7 different plants):
   Tasks: Review of drawings and GTPs of major components, project drawings such as switchyard erection key diagram, plant layout, earthing layout etc. coordination with the owner's engineers, vendors and contractors for the successful commissioning. Site visit, inspection of the testing of equipment. Plants substations 33 kV, 66 kV, 132 kV

Completed Projects at Arbutus Consultants:

1. 30 MWp (DC) + 55 MWp SPV Grid-Connected Project in Gujarat and in Rajasthan:
   Tasks: Array layout, cable selection calculations, voltage drop and power loss calculations, earthing calculations, DC side SLD, BOQ preparation etc.

2. 4 MWp (DC), rooftop SPV-grid connected Project in Gujarat:
   Tasks: Site visit/investigation, PVSyst simulations, DC side SLD, array layout, preparation of BOQ.

3. Rooftop Captive use LT Grid Tie SPV plants in Mumbai and Tarapur MIDC:
   Tasks: Site visit/investigation, preparation of site investigation report.

4. Standalone SPV, hybrid (biomass + SPV) and SPV DC supply system Project (Village Electrification through Solar PV):
   Tasks: Preparation of tentative conceptual DC and AC side design and electricity distribution system, Site visit, Analysis of residential and commercial load requirement of villages in Uttar Pradesh and Bihar.

5. 4.2 MWp (DC) SPV Grid connected project in Punjab:
   Tasks: Design and review of E-W tracking system, PVSyst simulations, DC and AC SLD, Preparation of Technical Enquiry Specifications of inverters, transformers and technical assessment of GTPs of various equipment, QAPs and drawings, Review of Switchyard design.

Rooftop Solar PV Projects (Off-grid Standalone, LT Grid-Tie):

1. 80kWp (DC), rooftop SPV Off-grid Standalone Project (with battery) in Andhra Pradesh:
   Tasks: Array layout, power loss calculation, battery and cable sizing calculations, ACDB design, BOQ preparation.

2. 150kWp (DC), rooftop SPV-Grid-DG set LT Grid Tie Project (without battery) in Chennai, Tamilnadu:
   Tasks: Site investigation, PVSyst simulations, DC side SLD, array layout, preparation of BOQ, preparation of techno-commercial tender, evaluation of quotations.

Projects outside India:

Mexico 100MW (AC), Myanmar 150MW (AC), A University Campus in USA, At an Airport in USA, Egypt 222MWp (DC), Botswana 45MW (AC), Botswana 100MWp (DC)

Tasks: Preparation of pre-bid support documents and drawings such as BoQ, PVSyst simulation, array layout; of ground mounted and rooftop solar PV plants and solar PV plants at parking spaces.

Skills and Interests:

Interests:

Renewable Energy, Energy, SCADA System, PLC hardware, Instrumentation, electric vehicles

Software:

AutoCAD (Proficient), PVSyst (proficient), SCADA (Beginner), E-Plan (Beginner), MS Office (Word, Excel and PowerPoint)

Soft skills:

Excellent oral and written communication, good analytical skills, presentation skills, managerial skills, interpersonal skills, leadership qualities

Education:

B. Tech. in Electrical from Dr. Babasaheb Ambedkar Technological University, Lonere (Maharashtra), Year: 2007 to 2011, Result: CGPA 6.16

HSC Maharashtra State Board, Year: 2006 – 2007, Result: 68.67%

SSC Maharashtra State Board, Year: 2004 – 2005, Result: 80.66%

Graduation Project and Seminar:

Project: Power quality survey in M/s. Mahindra Composites Ltd. Mangaon Maharashtra India.

Seminar: Three phase improved power quality converters

Hobbies:

Swimming, Tabla playing, reading books, trekking, chess

Professional Details:

Notice Period:	60 days

Personal Details:

Date of Birth:	09th September 1989
Marital Status:	Unmarried
Gender:	Male
Languages Known:	Marathi, Hindi and English (read, write, speak)
Current Address:	Hadapsar, Pune, Maharashtra, India
Permanent Address	Parbhani, Maharashtra, India
Nationality	Indian
Passport:	Yes

Declaration:

I hereby declare that all the information given above is true to the best of my knowledge and belief.

Place: Pune

Date: 19th June 2018

Yogesh Joshi