

CURRICULUM VIATE

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Qualifications	B.E. (Electrical Engineering) – GTU- CPI 8.39/10 – 2014.		

Key Work Experience

A graduate electrical engineer of four years of professional experience in Feasibility Studies, Power System Studies, Detailed Engineering, Review Engineering & Technical Due Diligence of utility scale solar power plant, switchyard and industrial distribution plant. Well experienced in Power System Studies using ETAP tool.

Career Summary

September 2015 – To date SgurrEnergy India Private Limited, Pune, India (Wood Group).
Project Engineer – Electrical

February 2014 – September 2015 M/s. K.K. Project Consultant, Mumbai, India.
Project Engineer – Electrical

Responsibilities Include:

As a Lead Project Engineer & working as a part of taskforce:

- Preparation of key AC Single Line Diagram (SLD) including switchyard, bay extension and auxiliary power SLD.
- Visit site for data collection in order to conduct system studies. This further includes modelling of SLD in ETAP tool and study relevant applicable codes.
- Power System Studies using ETAP16.2.0 tool viz load flow, short circuit, protection coordination setting, arc flash, grounding and cable ampacity studies.
- Calculations for fault level, transformer sizing, earthing for plant and switchyard, battery and battery charger sizing, UPS sizing, cable sizing, conductor sizing, CT and PT sizing, Illumination, capacitor bank sizing, fire detector sizing, lightning protection for plant and switchyard.
- Preparation of turnkey request for proposal (RFP) for entire solar power plant, electrical balance of plant (EBOP) RFP, switchyard RFP, transmission Line RFP, electrical erection works specification and individual component wise specification and datasheet.
- Preparation of switchyard plan and sectional view, lightning protection and earthing layout. Apart, preparation of control room equipment layout and cable routing layout required for civil detailing.
- Preparation of power, control and communication cable schedule.
- Owners/Review engineering which includes review and approval of EPC engineering document such as SLD, system studies, design calculation and layout related documents.
- Vendor drawing review such as Inverters, Power Transformer, Circuit Breaker, HV Switchboard, Inverter Transformer, Cables, Isolator, CT, PT, LA, conductor, insulator, termination kit, battery and battery charger, UPS, NIFPES and SAS panel.
- Feasibility studies which includes grid connection assessment, site selection and identification of potential risk.
- Technical due diligence of complete solar power plant including switchyard. This essentially includes construction monitoring, quality check of components and technology assessment.
- Assist client for liaising related activities i.e. preparation of MNRE, SLDC, CEIG SLD and utility approval SLD.

- Co-ordination with client, other disciplines and vendors for timely execution of engineering activities.
- Witnessed testing and inspection at manufacturer shop for Power Transformer, Inverter Transformer, Distribution Transformer, Inverter, HV/LV switchgear, Cables, Isolator etc.

Electrical Design Software Experience – ETAP, AutoCAD, MATLAB(Basic).

Conversant with Standards – Indian Standards (IS), IEC, IEEE and NEC.

Achievements

- Topped in collage by securing 9.47 SPI during final semester of Electrical Engineering.
- Awarded as Performer of Year in SgurrEnergy India Private Limited for 2016-17.
- Published research paper in IJAREEIE journal on “Development of generator protection using multifunction numerical relay in laboratory” during April 2014.

Key Project Executed:

Project	Country	Client	Role/Task Performed
648MW Solar Power Plant	Kamuthi, Tamil Nadu, India	Adani Group	Detail Engineering of 648MW Solar Power Plant. Major function included system studies document of power plant.
41MW Cuyama California Solar Power Plant	USA	First Solar	Detail Engineering upto 34.5kV in which major function included system study and design calculation document of solar power plant.
12MW Essakane Hybrid Power Plant	Africa	Wartsila Energy Solutions	Detail Engineering of 12MW Solar Power Plant which included system studies of Solar Power Plant which was connected with diesel generator plant (i.e. hybrid).
2X52.5MW Bathinda Solar Power Plant- (Punjab)	India	Adani Group	Detail Engineering of two units of 52.5MW Power Plant. This project was consisting of designing Electrical system upto 132kV evacuation.
90MW Solar Power Plant	India	GRT Jewellers	Presently working on this Owners Engineering having 11/66kV switchyard and system studies of 90MW solar power plant.
100MW Khulana Solar Power Plant	Bangladesh	Orion Group	Presently working on this detail engineering project which includes grid impact studies and switchyard engineering of 132kV system.
20+50MW Dhule Solar PV Plant (Maharashtra)	India	Suzlon Energy Limited	Owners (Review) Engineering of 20+50MW Power Plant. This project consists of designing Electrical system upto 33kV evacuation. Reviewing and approving EPC documents.