

CURRICULUM VITAE

KARTIKEYA SINGH

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New Delhi -110017

Career Objective

Highly skilled and dedicated Solar & Substation Design Engineer with 5 years of experience in the renewable energy industry. Demonstrated expertise in designing and implementing solar power systems to optimize energy production and transmission. Seeking a challenging position to contribute technical knowledge and innovation to further the growth and success of a progressive Renewable energy organization.

Strengths

- A go-getter with a never say die attitude and outstanding problem-solving abilities.
- Leadership qualities and team management skills.

Educational Qualifications

COURSE	INSTITUTION	YEAR OF PASSING	PERCENTAGE
Bachelor of Vocational in Solar Energy	Jamia Millia Islamia, New Delhi	2018	88.26%
12 th	D.P.S Vidyut Nagar (C.B.S.E.)	2015	87.8%
10 th	D.P.S Vidyut Nagar (C.B.S.E.)	2013	95%

Experience

Senior Engineer-Design

09/2023-Present

Ampyr Energy Tech Solutions Pvt Ltd

- Preparation of the Solar PV Layouts and EYA report using PVSyst for Europe based projects specifically in Netherlands.

Manager-Design (Solar & Substation Engineering)

10/2021-09/2023

ShivShankar Energy Pvt Ltd.

- Reviewing the vendors drawing, GTP & TTR according to the Technical Specifications of POWERGRID/IEC/IS and get these documents approved by POWERGRID.
- Pre-Tender Engineering including estimation of BOM (Bill of Materials) and offer reviews.
- Conducted site visits to assess project feasibility, identify potential challenges, and provide technical support during construction and commissioning phases.
- Calculations-Inverter sizing, LV/MV cable sizing, DC cable sizing, Voltage drop, Short circuit calculations, CT/PT sizing, LA sizing, electrical clearances, etc.
- Collaborated with cross-functional teams, including project managers, electrical engineers, construction teams and clients to ensure seamless project execution.
- Preparation and compilation of As-built drawings, schematics, O&M Manuals and Test reports for 220kV POWERGRID line bay.
- Preparation of GTP of the equipment's according to the Tender specification of AVVNL for the RDSS (Revamped Distribution Sector Scheme) project and coordination with technical vendors.
- Electrical design for Solar PV plant- Both AC & DC. Developing SLD based on the electrical requirement on the site.
- Preparing Energy Estimation & Tilt-Pitch optimization of the Solar PV Plant using PV Syst.
- Preparation of detailed Electrical BOQ-Solar.
- Maintaining professional working relationships with the material suppliers/vendors, contractors and any other that affect the quality, schedule, and cost of the project.

Engineer- Design (Solar)

10/2018-10/2021

SolarSmith Energy Pvt. Ltd, New Delhi

- Preparation of Detailed Plant Layouts (Module, SLD, String, Earthing& LA Layouts, etc.) using various software's.
- Led the design and engineering efforts for Solar PV plants, ensuring compliance with industry standards and project requirements.
- Preparation of BOQ according to the site feasibility.
- Provide technical support for detailed and optimum calculation of the Solar Power Plant.
- Support the BD Team in the feasibility stage.
- Designed and optimized solar energy systems for residential and commercial clients, considering factors such as energy consumption, available space & shading analysis.
- Logistic planning and coordination with the Purchase Manager as per the Order Confirmation basis.
- Guiding the Site Engineers and making them understand the site drawings and implementation of those drawings on site.

Achievements

- Received Gold Medal from the former President of India Mr. Ram Nath Kovind for securing 1st place in Graduation.
- Qualified the IGBC Accredited Professional – Associate Examination securing 90%.
- Acknowledged and commended for successful commissioning of the 220 kV Bay at PGCIL Khandwa effectively & efficiently from the Kick-off meeting stage to the handover of the As-Built documentation.
- SolarSmiths Employee of the Month, June 2019.

Projects

- 220 kV bay extension work at POWERGRID, Khandwa.
- 11 MW Solar plant-DC at Rajasthan.
- MECL- 245 KW
- SAIL- 100 KW
- IOCL- 50 KW
- Industrial Projects- 50 KW to 200 KW.
- Residential Projects- 3 KW to 20 KW.

Skills

- Well versed with AutoCAD.
- Well versed with PVSyst.
- Well versed with Google SketchUp.
- Well versed with Helioscope.
- Basic ETAP.
- Verbal & written communication skills.
- Site assessment.
- Microsoft office.

Personal Information

- Father's Name: Mr. Maheep Kumar
- Date of Birth: 23rd August 1997
- Nationality: Indian
- Languages known: Hindi & English.
- Hobbies: Chess, Football & listening music.