

PANKAJ ANAND

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CAREER OBJECTIVE :

Looking forward to work in a demanding environment that will enhance my knowledge and also enable me to use my existing theoretical base and practical expertise for the overall benefit of the organization I work with. I am seeking an environment in solar energy in project management, Installation, Commissioning & Design field where my knowledge can be shared and enriched giving me ample opportunity to learn as well also serve.

PROFESSIONAL SUMMARY :

- **Hand-on experience of design of Solar Power Plant with a cumulative capacity of 18MW for project execution and design of more than 500MW for bidding process.**
- Competent and diligent professional with hand-on experience in Designing, Installation, Commissioning, Operation & maintenance, Inspection and Site supervision of Solar Power plant.
- Knowledge in Electrical distribution system, Statutory requirements, Codes & Standards, IS / IEC, IE Rules, CPWD specifications, equipment & material costs, Electrical safety, site testing & commissioning methodologies.
- Design and preparation of substation layouts, Control & Power circuit diagram, Cable sizing & selection, Cable trays, Equipment layout, Lighting and Grounding layouts, Inverter, Fuse, Transformer, LT & HT Panel, Earthing, Lightning.
- System calculations and system design including Electrical load flow, Short circuit analysis.
- Experience as Designing Erection, Testing of all type of Industrial L.T. Panels which includes MCC, PCC, PDB, Junction Box, Capacitor Panel & Instrument Panel, and Relay Panel, Control Desk, Synchronizing Panel etc.
- Analysis and development of meteorological files and long term solar energy assessments in PVsyst software.
- Extensive knowledge of output, performance and reliability factors of various commercially available PV modules, inverters and monitoring systems.
- Knowledge on preparation of BOM, RFP & RFQ
- Site selection and analysis of yield for various locations.
- Experience as Designing, drawings of DRIVE (VFD) & Soft Starter panels.
- Quality inspection of equipments at manufacturer end.

WORK EXPERIENCE: (7 Years and 4 Months)

Employer: Genus Innovation Ltd, Jaipur

Duration: Sept 2016 to till date.

Designation: Assistant Design Manager

Name of Projects:

- 200kW Solar Power plant at Bhartiya Vidyashram, Jaipur.
- 240kW Solar Power plant at Fogla Ashram, Vrindavan.
- 1 MW Ahlcon Parenterals (india) Ltd, Bhiwadi.
- 50kW Solar Power plant at Manav Mandir Hospital, Solan.
- 150kW Solar Power plant at Genus power infrastructure Ltd, Ramchandrapura.
- 250kW Solar Power plant at NBFGR, Lucknow.
- 12kW Solar Power plant at PHOENIX PVT LTD., Jaipur.
- 250kW Solar Power plant at Indian Institute of Sugarcane Research, Lucknow.
- 250kW Solar Power plant at Geological Survey of India, Lucknow.

- 300kW Solar Power plant at Account General Office, Allahabad.
- 400kW Solar Power plant at Allahabad University, Allahabad.
- 350kW Solar Power plant at Rapid Action Force, Allahabad.
- 100kW Solar Power plant at Allahabad Museum, Allahabad.
- 100kW Solar Power plant at Satya Nistha Bhawan, Allahabad.
- 250kW Solar Power plant at Center Institute for Subtropical Horticulture, Lucknow.
- 100kW Solar Power plant at Composite Regional Center, Lucknow.
- 50kW Solar Power plant at Genus power infrastructure Ltd, Sitapura..
- 35kW Solar Power plant at Genus power infrastructure Ltd, Sitapura.
- 50kW Solar Power plant at Genus power infrastructure Ltd, Ramchandrapura.
- 200kW Solar Power plant at Mastana Shah Blochistani Asharam, Sirsa.
- 500kW Mini Grid Power project at KEI.
- 3.5MW Solar Power plant at SECI.
- 731 kW Solar Power plant at RRECL.
- 700kW Solar Power plant at KSEBL.
- 385kW Solar Power plant at HIPA.
- 2.5MW Solar Power plant at SECI.
- 170kW Micro Grid Project at WBSEBL.

Work Responsibilities:

- Design and Preparation of Overall Single Line Diagram, Array Layout, Metering & Protection SLD.
- Preparation of Project Bill of Quantity (BoQ).
- Design and Preparation of MV and LV Breaker and relays control schematics.
- Design calculations for CT/PT sizing, Grounding system, Cable sizing, Lightning protection system, Transformer sizing, Battery & Battery Charger, Indoor & Outdoor lighting, DG sizing, Fault current, Power loss Calculation, Lighting/Illumination system
- Development of annual, using PVsyst; Analysis of energy production data from PV projects, including comparison of operating vs. modeled data, Shadow analysis, downtime analyses, and various other comparative analyses using quantitative data analysis techniques.
- Site survey of proposed plant for designing work.
- Preparation of Detail Project Report (DPR) and Project completion Report (PCR)
- Product evaluation and comparative analysis of identified Manufactures/Suppliers.
- Supervision of Installation, Commissioning and Operation & maintenance of Solar Power Plant.

Employer: Indiatech Solution

Duration: Oct 2015 to Aug 2016.

Designation: Sr.Design Engineer

Name of Projects:

- 25 kW Solar Power plant at Satya Sai Engineering College, Balasore
- 30 kW Solar Power plant at Denkanal Engineering College, Denkanal

Work Responsibilities:

- Solar plant location feasibility analysis for designing and Installation work.
- Installation, Commissioning, Testing, Operation & Maintenance of Off-Grid and Grid connected Solar Power plant.
- Designing & sizing of solar module, charge controller, inverter, batteries, string box, DC disconnect, cable and all essential accessories for rooftop plant.
- Preparation of Array layout, single line diagram, power circuit diagram and Control circuit diagram.

Employer: C&C Energy Pvt. Ltd.

Duration: July 2013 to Sept 2015.

Designation: Sr. Design Engineer.

Name of Projects:

- 5 MW Solar Power Plant Talchar, Odisha.
- 90kW Solar Power plant at TS Alloys Ltd.
- 250kW Solar Power plant at BRG Steel Ltd.
- 110kW Solar Power plant at Sri Jagannath Roller Flour Mill.
- 110kW Solar Power plant at Utakal Alumina International Ltd.
- 315kW Solar Power plant at Hindalco smelter ltd.
- 400kW Solar Power plant at OCL.

Work Responsibilities:

- Identification of vendor, floating enquires, coordinating with business development department.
- Supervision of installation work as per the plant designed.
- Work with a team of engineers in designing, & installation of solar PV systems, mounting structures and power evacuation system for residential and commercial used.
- Design the layouts in AutoCAD. Load calculation and power backup sizing.
- Preparing the SLD for rooftop solar plant.
- Conduct site inspections to check on work progress and compliance to work specifications.
- Checking of Bill of Materials and Scope of works on projects.

Employer: Vdeal System , Bhubaneswar

Duration: Sep 2010 to June 2013).

Designation: Electrical Design and Site Engineer

Name of Projects:

- 7.5kW Solar Power Plant, SSAB Energy Ltd.
- 50kW Solar Power plant at Grid Steel & Alloys ltd.
- 15kW Solar Power plant at Balasore Alloys Ltd.
- 7.5kW Solar Power plant at Agresen Rice Mill.
- J.K Paper Ltd.(15kW Drive panel),
- IFFCO Ltd.(30kW VFD with DOL bypass panel)
- Sesa Sterlite Ltd. (90kW VFD with S/D bypass panel)
- Tata Steel & Power Ltd.(200kW VFD with S/D bypass panel)
- National Aluminum Company Ltd.(250kW VFD with S/D bypass panel)
- Vedanta Steel & Power Ltd.(150kW VFD with S/D bypass panel)
- Jindal Steel & Power Ltd.(315kW VFD with panel)
- BALCO Ltd.(90kW Crane panel).

Work Responsibilities:

- MCC, PCC, PDB, Instrument, Soft starter, ABB Drive (VFD) Panel design.
- Panel design using software (AutoCAD, PC schematic automation [PCS CAD], E-Plan).
- Commissioning of ABB Drives (ACS550, ACS800, and ACS850).
- Panel testing, maintenance, commissioning & Installation.
- Design of General arrangement, single line diagram, power circuit diagram and Control circuit diagram.
- Designs power circuit & control circuit diagram of high mast and streetlight.
- Inspection of panel, dispatch report & test certificate.
- Selection of SCADA system
- Preparation of BoQ of materials for Assembly of Panels.
- Erection, Commissioning and O&M of Solar Power Plant.
- Preparation of monthly/ daily project progress report and co-ordinates with higher authorities regarding work status and issues on site.

- Vetting of technical specification for solar rooftop and stand-alone system.
- Technical assistance for site survey and resource assessment.
- Co-ordination with EPC contactor for work related issues.
- Reviews of engineering drawings and construction drawings, foundations, vetting of vendor drawings.

QUALIFICATION:

- B.Tech in Electronics & Telecommunication Engineering from BPUT in 2010, Rourkela, Odisha.

TECHNICAL SKILLS:

- AutoCAD- 2010, 2014
- PC schematic automation [PCS CAD]
- E-PLAN
- PVSyst.
- Meteonorm
- Google SketchUp

PERSONAL DETAILS :

- Father's Name: -Shri Hari Prasad Sahu
- Date of Birth: -19th Feb 1987
- Nationality: Indian
- Marital Status: Unmarried
- Languages Known: -English, Hindi
- Passport availability: Yes

DECLARATION :

I, hereby declare that the above statements made are complete and true to my knowledge and belief.

DATE:

PLACE: JAIPUR

(Pankaj Anand)