

# BIBHU RAJ

F-127, Katwaria Sarai , Hauz Khas, New  
Delhi

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## ELECTRICAL ENGINEER, DESIGN ENGINEERING, PROPOSAL ENGINEERING

### PROFILE

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- Seasoned executive with experience in Solar Power Projects projects in various assignments such Design engineering (Electrical), Project coordination, Proposal Engineering, Design review, & Layout Development.
- Proven abilities to Design the any type Solar Power Plant Grid Tied, Off Grid, Hybrid by optimum utilization of resource & capacity; escalate energy yield & operational efficiencies; while curtailing costs/ expenses
- High proficiency in Preparation of Technical Specifications, BOQ, Technical Evaluation Reports, MIS Reports and other Project management Activities.

### CAREER BACKGROUND

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#### **ACME SOLAR POWER PVT LTD** Senior Engineer

Feb 2015 – Present

#### **Job Responsibility**

##### **SOLAR ENGINEERING:-**

- Solar data resources and analysis
- Yield prediction/analysis from pvsyst/manual
- Optimum tilt angle and pitch calculation by shadow analysis
- Generation comparison for thin film v/s polycrystalline modules
- Optimum String/Array configuration

##### **DC SIDE DESIGNING**

- Responsible for Scope, Specification for Harness/Pre-combiner Box, SCB/SMB, DCDB, etc.
- Cable size ,Cable voltage drop and loss calculation
- Single Line Diagram (DC side)Solar field earthing design and calculation
- Techno-Commercial review of offers received from vendors.

##### **AC SIDE DESIGNING OF SOLAR PV PLANT**

- Preparation of AC Side Scope and Specification.
- Major equipment specifications ( LV cable, Inverter Transformer, HT cable, RMU, VCB Panels)
- Selection of inverter transformer
- HT cable size calculation
- Drawings/GTPs of equipment's review/comments/approval

#### **PROJECT DETAILS**

- Acme Rajasthan 100 MW (20MWX5)
- ACME Odisha 25 MW
- ACME Punjab 104 MW (25MW+25MW+24MW+15MW+15MW )
- ACME Andhra Pradesh 160 MW (50MW+40MW+30MW+20MW+20MW)
- ACME Telangana-Part 1 80 MW (50MW+30MW)
- ACME UP 30 MW

- ACME Bihar 25 MW

**RAYS POWER EXPERTS PVT LTD**  
**Engineer**

**July 2013 – FEB- 2015**

**Multiple Solar Power Plants - 37 MW (Including Rooftop)**

- EPC: Responsible for Designing of PV Plant Preliminary & Execution Drawings for both AC & DC System and commissioning of solar power plant.
- Detailed costing of BOM materials of PV Module and EPC Projects.
- Preparation of Preliminary Design for off grid & Grid Connected PV Projects
- Checking of Electrical Design which is from Vendors for overall Plant
- Preparation of Bill of Materials, Detailed Project Report, RFQ for the Overall Plant.
- Designing of single line diagram, lighting , earthing & cable layout
- Design and modify designs on the basis of requirements.
- Preparation of Detailed Tender for the Power Plants at different voltage levels
- Testing & Inspection of Electrical item
- Preparation of Technical site survey report
- Preparation of GTP of Electrical item
- Attending pre bid meetings and site visit for tender purpose.

**OTHER RELEVANT PROFESSIONAL WORKS**

- Industrial training at Crompton Greaves, Mandideep Bhopal. Training in 'Large Induction Motor' Division.

**SOFTWARE SKILLS**

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- Auto-Cad
- PV-Syst

**ACADEMIC PROFILE**

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- **Bachelor of Technology- Electrical & Electronics Engineering** - 2012  
 RGPV, Bhopal  
 76.00 % (Hons.)
- **Higher Secondary Certificate (HSC)**CBSE - 2008  
 73.00%
- **Secondary School Certificate (SSC)**CBSE - 2006  
 81.3%

## PERSONAL INFORMATION

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- Date of Birth : 13-01-1991
  - Father's Name : Sh. Murari Mohan Ojha
  - Marital Status : Unmarried
  - Permanent Address: Sankat Mochan Nagar New Police Line, ARA, Bihar-802301
  - Languages : Hindi, English, Bhojpuri
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