

RAVI RANJAN VERMA Electrical Design Engineer
Jakson Engineers limited

H.No. 17 Sector-37 Noida Near Botanical Garden

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Metro station Noida UP

Contact No.- 07042964424

CARRIEER OBJECTIVES

I am seeking a career that is challenging and interesting. I am looking for a job that gives me opportunities to learn, innovate, and enhance my skills & strengths, in conjunction with organization goals.

WORK EXPERIENCE 4 YEAR EXPERIENCE IN SOLAR INDUSTRIES

Jakson Engineers Limited, Noida

An ISO 9001:2008 certified company, known for its excellent power solutions & Solar projects in the government and private sector, Jakson is also known for its excellent products in power distribution, solar and Generator Sets, the major products include LT – HT Panels, DG Sets of all types, Solar Inverter Substation, Solar PV Module, Solar generators, Solar RO, String Combiner Boxes etc.

Designation: Electrical Design Engineer (PV System Design)

Department : Solar Products & Systems (System Design & Engineering)

Duration: 1 Years (from 2nd march 2015 to till date.)

Job Profile: Design of **PV Systems** seeing the Customer requirement and tender requirement Energy calculations, battery and PV sizing, Electrical circuit designing and component sizing and selection. Also design of **solar pump system** on the basis of customer/tender requirement with the help of Autocad, PV Syst, PVSOL, google sketchup software.

Responsibilities & Skills

Preparation of engineering drawings e.g.-designing general arrangement (GA) layouts, Electrical Single Line Diagrams and other mandatory calculation documents for Of grid , ongrid & hybrid solar system.

1. Preparation of Bill of Materials (BOM) for each project or govt. tender.
2. Preparation of DPR.
3. Selection & Design of solar pump with PV capacity.
4. Inverter selection (grid tied/off grid/hybrid) on the basis of system requirement.
5. Transformer, Cable Sizing.
6. Preparation of Load List (Estimation of Plant Electrical Load).
7. Design and Development of Single Line Diagram (SLD).
8. Selection & Sizing of Electrical Equipment (Motors, Power Cables, Generators, CTs, UPS, Batteries and Battery Chargers).
9. Prepare design of ACDB, DCDB, AJB, BUSBAR CHAMBER BOXES with circuit diagram.
10. Selection and finalizing EPC Contractor by evaluating Techno-Commercial offers
11. Fundamentals of Earthing and Lightning Protection Design.
12. Knowledge of Hazardous Area Classification.
13. Knowledge about various Indian & International i.e. IS, IEC Standards.
14. Understanding of Various Phases of Projects.

TENDER DESIGN (Govt.):**TEDA** -CFL Based HLS**PEDA** -Solar Power pack**UPNEDA** -Solar RO system with DC pump**UPNEDA (Lohiya Avas yojna)**- Home Light System**DGVCL**- LED based Home**MPUVNL**-900 kWp distributed Off grid & grid tied system**PROJECTS DESIGN (Non-Govt.):****80KWp OFFGRID SPV POWER PLANT for 400 Nos Street light operation at Pipraich UP**

Installation & commissioning of 400 LED Street light with under ground wiring with 80 KWp SPV OFF GRID POWER PLANT in Nagar Nigam Pipraich UP.

- 1- Design & Installation of centralized 40 kWpX2 off grid system at two different places in the city.
- 1- Planning of Power distribution in whole town with solar system.
- 2- Planning of under ground wiring in each street of the city.

25KWp OFFGRID SPV POWER PLANT at Hazaribagh Jharkhand.

Design,Installation & commissioning of 25 KWp SPV OFF GRID POWER PLANT at Hazaribagh.

900 KWp MADHYA PRADESH URJA NIGAM LIMITED at different location in mp

These are distributed system of different capacity as

100,80,20,25 KWp Grid Interactive solar power plant and 1,2,3,5,8 KWp Off Grid System solar power plant to be successfully executed under my observation.

All electrical and civil design are prepared by me.

20 MWp Land based Grid Interactive Solar Power Plant at Jhansi UP of UPNEDA.

Highlights of this project are:

- 1) My responsibility to provide complete electrical Design.
- 2) The plant is a grid interactive solar PV Power Plant of capacity 20MWp.
- 3) The plant has got all the approvals and NOC from the Local DISCOM for the grid connectivity.

GO GREEN ENERGIES

- ❖ Worked with **GO GREEN ENERGIES** okhla new delhi as a **(Project Engineer) Solar Power Plant Design engineer (upto100 kw)**from 1 sept 2013. to 28 feb 2015.

Company Profile-

Go Green Energies provides planning,installation & commissioning of solar power plant,and solar water heater,and only structure of power plant (design & installation)also.

GGE also provided mass production of **Ac Distribution Box,Dc Distribution Box,Array Junction Box,Feader Box,Acdb & Dcdb Combiner Box,Busbar Chambers.**

Job Description / Responsibilities:

- Preparation of Project **SLD in Auto CAD**, along with all relevant calculations such as Short Circuit level, Sizing of the Bus Bars, Selection of Components, Preparation of Control Schemes etc.
- **Prepare design of ACDB, DCDB, AJB, BUSBAR CHAMBER BOXES** with circuit diagram.
- Calculation of Voltage Drops and Selection of Proper Size cables.
- Preparing Cable Tray Layouts in AutoCAD considering sizes of the Cables to be carried in Trays including estimation of tray lengths.
- Preparation of Earthing Layouts in AutoCAD and Estimation of Earthing Material.
- Responsibility of complete project management through the installation, testing and commissioning of the system.
- Design, Erection, Commissioning and Maintenance of Photo Voltaic Power Plants.
- Develops plans, coordinates and directs the engineering work for a major project, or several smaller, but complex projects, or for the design within a specific discipline.
- Maintains engineering records, lists and reports as required to ensure compliance with the client's schedule, adherence to the budget, adherence to procurement specification, or to ensure engineering problems are monitored and resolved.

TAPAN SOLAR ENERGY (1 YEAR EXPERIENCE)

- ❖ 1 year experience in **Tapan Solar Energy Private limited** Neemrana (Rajasthan) as **Junior Design engineer** in **solar EPC Department** since 5th aug.2012 to 10 aug 2013 .

Company Profile-

Tapan solar energy pvt.ltd., In Neemrana (Rajasthan) provides solar base in lighting production such as solar lantern, street light, CFL, DC Fan, Water Heater, and Solar Module. We offer the most innovative electronics contract for manufacturing solution.

TSE has design and installation team for installation and commissioning of solar power plant.

Responsibilities & Skills

1. Site survey and prepare a survey report.
2. Prepare plan with installation team.
3. Involved in Technical discussion with design team.
4. Preparation of Quality System Manual, Procedures, Work Instructions and formats.
5. Handle the Installation team at site and Successfully install the system as per Drawings .
6. Responsible to maintain quality of the plant with neat and clean system.
7. Responsibility to collect handing over certificate from customer.

SKILLS :

AutoCAD, Renewable Energy, Microsoft Office, Matlab, Electrical Engineering, Project Planning, Site Planning, Site Inspections. Project Management, Proposal Writing, PowerPoint, Power Plants, EPC, Energy Management

QUALIFICATION AND SKILLS**Professional qualification :-**

- B.Tech in Electronics & Communication Engineering from North Maharashtra University Jalgaon in 2012 with 63% marks.

Academic Qualification

- SSC from U.P. Board in 2004 with 56% marks.
- HSC from U.P. Board in 2006 with 60% marks.

Computer Skills:

- Autocad electrical,PVsyst,PVSOL,Google sketchup
- Package - MS Office
- Operating System - MS-DOS, Windows 98 / XP,Window-7,8

Extra Curricular Activities:

- CCNA networking Course By Jetking Institute.
- Basic Pcb designing & simulation
- Autocad electrical designing

PROJECTS & TRAININGS

Earthquake And Tsunami Alert Sms System

Description Of Project: In Order To Transmit Disaster Such As Earthquake & Tsunami, Information And Warnings To Various Emergency Operation Centers (EOC) And Call Up The Emergency Response Teams, A Fast And Easy-To-Use Messaging System Is Needed.

Industrial training:

- Workshop on “8051 microcontroller” in 3rd year taken by Ambedkar Associate, Aurangabad.
- Undergone six week summer training at “**Allahabad Akashwani**”.

PERSONAL DETAILS & DECLARATION

Name : Ravi Ranjan Verma
Father's Name : Shri Ram Gopal Verma
Date of Birth : 15-12-1988
Permanent Address : Vill- Basantpur, Teh- Nanpara, Dist – Bahraich (UP)
Sex : Male
Language Known : Hindi & English
Marital status : Single
Nationality : Indian

DECLARATION:

I hereby declare that the above mentioned information is correct up to my knowledge and I bear the responsibility of correctness of the above mentioned particulars.

PLACE : NOIDA

RAVI RANJAN VERMA