

Mukesh Katare

Correspondence Address:

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Carrier Objective

To be an active part of a professional organization that offers an opportunity for growth and learning where my knowledge and energy can be harnessed to contribute to the productivity and performance of the organization, thereby enabling mutual enrichment.

Key Skills

1. Self-motivation and ability to take the initiative.
2. Ability to work well under pressure & Problem solving skills.
3. Able to take on additional responsibilities (*given extra responsibilities at workplace in the form of business development*).
4. Teamwork skills (*worked well as part of a team and a leader as well*).
5. IT skills including experience in **PVSYST, Autocad, Sketchup** and Microsoft Office (Word, Excel, Powerpoint).

Work Experience

GeWiS Engineering India Pvt. Ltd.

Feb 2017 — Present

Company: GeWiS Engineering India Pvt. Ltd. - Pune, Maharashtra (India)

Duration: 09 months

Position: Asst. Manager – D&E

Description:

- Detailed site analysis, Tender evaluation and BOQ preparation for complete Solar Project.
- Product Evaluation for all the major components (Solar module, inverter, switch-gear, monitoring system, LT panel) to be used in solar power plant.
- Simulation of complete system in **PVsyst, Google Sketchup**.
- Preparing SLD, Plant Layouts, Earthing Layout, Cable Trench Layout, Cable route, Cable Termination, Lighting Layout, Foundation layout & other drawing related drawings required for execution.
- Design calculations for Fault current, cable sizing, lightning protection system, DC and AC cable losses of whole plant as per IS standards.
- Preparation & Review of engineering drawings (module placement, inverter room, control room, cable routing, cable trench, DC and AC SLD) in AutoCAD as per the design calculations, tender specifications.

kWatt Solutions Pvt. Ltd.

Nov 2012 — Feb 2017

Company: kWatt Solutions Pvt. Ltd. - Mumbai, Maharashtra (India)

Duration: 4 years 3 months

Position: Asst. Manager – Projects

Description:

- Prefeasibility analysis of bids and sites along with engineering development by using various simulation tools like **PVsyst, Google Sketchup**.
- Preparation of solar power plant, module placement layout and major equipment arrangement **in AutoCAD**.
- Development of SLD for power evacuation schemes for AC and DC side.
- Design and calculation for Earthing, lightning and protections system for plant with latest IS Standards.
- Calculation, cable scheduling and routing from SPV module inter-connection till grid evacuation.
- Estimation & costing of bill of material.
- Preparing equipment technical specifications, and comparative statements for all major equipment in the plant.
- Preparation of detailed project report.
- Solving all the punch points and final commissioning of solar power plant.
- Handled Site Activities, Designing & Installation, Operations in Solar Photovoltaic & Solar Water Heating, Business Affairs, Technology Business, Marketing plans.

Major Accomplishments in Solar Rooftop Installation

1. Installation of Solar Ground Mounted System Grid Tied Plant of 480kWp in Mumbai, JP Infra.
2. Installation of Solar Rooftop Grid Tied Plant of 421kWp in Indore, Madhya Pradesh.
3. Installation of Solar Rooftop Grid Tied Plant of 175kWp in Hyderabad, GNIT – University.
4. Installation of Solar Rooftop Grid Tied Plant of 75kWp in Indore, Medicaps University.
5. Installation of Solar Rooftop Grid Tied Plant of 50kWp in Ambejogai, Maharashtra.
6. Installation of Solar Rooftop Hybrid Solar Plant of 50kWp in SEARCH Foundation, Gadchiroli, Maharashtra.
7. Currently working on Solar Ground Mounted System of 5MWp Maharashtra

Major Accomplishments in Solar Thermal

1. Installation of Solar water heating FPC system - Regency Heights (Mumbai) 32,000 LPD.
2. Installation of Solar water heating ETC system - Highland Park (Mumbai) 45,000 LPD.

Other Important Projects

- Apart from the installation of Solar Plants, I was very much involved in the System **Production & Designing** Team of Solar Laboratory products for IIT-Bombay, JNTU - Kakinada and other recognized universities.
- Trained more than 2000 student's, faculties in the field of solar viz. include various IIT's & NIT's.

Qualifications

Year(s)	Qualification – Degree / Diploma / Certificate	Board	College/ Institute/ University	Percentage/ CGPA
2008-2012	B.Tech (Power System Engineering)	University of Petroleum & Energy Studies	College of Engineering Studies, Dehradun, Uttarakhand (India)	2.50/4 (70%)

Summer Internship Project

Duration: 8 weeks

Company: Power System Operation Corporation Limited- SRLDC, Bangalore- Karnataka (India).

Project Title: Investigative study of Plant Load Factor of Indian Thermal Power Plant.

Description: To study and analyze the present condition of all thermal power plants and practices implemented by distribution and generating utilities to encourage higher production. To make an insight on various issues related of open access, ABT and other reforms.

Duration: 2 weeks

Company: Patratu Thermal Power Station (A UNIT OF JHARKHAND ELECTRICITY BOARD), Ramgarh-Jharkhand (India)

Project Title: Overview of Thermal power plant

Description: The Summer training in PTPS consisted of visiting different plants under the Electricity producing units like water treatment plant, Hydrogen plant, Ash Disposal Plant etc. working principle and constructional details of various parts of power plant.

Major Project: Simulation of optimization of economic load dispatch of Tamil Nadu.

Description: The major project is undertaken with the objective of calculating and optimizing the scheduling of the load. The project emphasis on the calculation of the optimizing the plant performance by proper scheduling. Various parameters of the system for example frequency relay, voltage relay will be analyzed and studied. With the help of E-TAP simulation of the system will be justified.

Minor Project: To design a working model of a solar parabolic dish implemented to increase the performance of Sterling engine.

Description: Minor Project aimed at designing a simple parabolic dish system, intended to increase the performance of Sterling engine.

Projects Undertaken – Academics

- Studied various Solar Thermal Plant technologies and also study on development of Sterling engine for efficiency enhancement of solar thermal technology.
- Worked under a live project of site selection of Solar PV in Uttarakhand - **UREDA**
- Studied and prepared the presentation on “BLOCK DIAGRAM AND WIRING OF “CHITRAKOOT” LAB SECTION OF UPES, BIDHOLI CAMPUS “.
- Presented a paper on Compressed Air Energy Storage with Grid and photovoltaic generation in **I-care** society.

Computer Skills

Language	:	C++
Software's	:	PVsyst, AutoCAD, Solid works, Google Sketchup
Package	:	MS – Office, Libre Office
Operating System	:	Windows 98-2003, XP, Vista, Windows 7,8 & 10

Interests

Cricket, Music, Reading Novels, Indian Politics, History and Mythology.

Personal Details

Date of Birth	:	August 30, 1990
Father's name	:	Mr. Ashok Katare
Gender	:	Male
Nationality	:	Indian
Permanent Address	:	E-Block, Flat no. 1101, Teerth Towers Survey No. 28, Behind Mercedes Benz Showroom, Off Mumbai Bangalore Highway, Sus, Pune, Maharashtra 411045 - India
Mobile	:	+919930587666
Languages Known	:	Hindi & English
Mobility	:	Willing to relocate anywhere in India and overseas

All the above information is true and best of my knowledge.

Mukesh Katare