

Amey Naresh Satam

Mobile India: +91 7710 017 808

E-Mail: amey.satam1986@gmail.com

Professional Synopsis

- Bachelors Degree in **Electrical Engineering** with **8+ years** of experience.
- **DESIGN OF SUBSTATION:**
Activities include **conceptual engineering** and design, understanding of project. Experience in calculations like bus bar sizing, short circuit force calculations, equipment sizing, transformer sizing, battery sizing, Cable sizing and cable trench design. Earthing /grounding design and calculation using **IEEE 80**. Direct Lighting Stroke Protection (**DSLSP**) design and calculation. Power system protection studies, short-circuit analysis and Relay coordination using **E-Tap software**. Preparation of BoQ, Specification, vendor drawings review, preparing design base report etc.
- **ELECTRICAL DESIGN OF COMMERCIAL AND RESIDENTIAL COMPLEX:**
Experience in designing SLD, Equipment sizing, Cable sizing, Transformer sizing, Earthing calculation as per IS 3043, Preparation of **Co-ordinated drawings** with other services like HVAC, Fire sprinkler, Fire alarm, Steam, Water etc. Experience in on-site Project execution for Electrical, fire alarm, BMS services for Industrial complexes, Commercial complexes, Clean room systems. Basic designing of Building Management System (**BMS**), Fire alarm system (**FAS**) etc. for Commercial and Residential complex.
- **DESIGN OF SOLAR PV PLANT AND PV ROOF TOP SYSTEM:**
Remarkable experience in Solar power site evaluation and detailed electrical engineering. Good knowledge of developing AC side of solar power schematics. Familiarity with solar power Engineering and industry Safety standards, Ability to draft, read plan, utility norms for grid connection. Sound Knowledge of large scale solar power plants with **AC side engineering**. Various schemes of AC side design with radial, Ring, Daisy chain formats. Familiar with **Rooftop solar power** plant design using PvSyst software. Basic Design of **Grid connected** Solar PV system with system performance Analysis performed using **PVSyst software**. Oversee the development of electrical designs for **Net-metering** Solar Power systems that meet all national, state and local code requirements as well as customer defined requirements.

System design which involves:

- Maximum demand estimation and deciding voltage level.
- Selection of Transformer/DG capacity and number with necessary metering & protection.
- Selecting the location of load centre & captive power generation station.
- Segregation of estimated maximum demand into individual load centres.
- Preparation of detailed main single line schematic.
- Short circuit & voltage drop calculation at each level of distribution.
- Selection of HT & LT switchgear based on breaking, making & short time capacity.
- Selection of HT & LT cables based on thermal, short circuit & voltage drop based ampacity.
- Preparation of GA/sectional drawings of HT & LT switch-board and busbar sizing.
- Design of earthing scheme & earthing layout.

- Design of fire safety in substation, cable trenches and other parts of electrical system.
 - Preparation of building plan & equipment layout.
 - Point of supply and Cable trench layout.
 - Transformer, DG, HT & Main LT electrical room layout.
 - Design lightning protection system.
 - Lighting , Power & UPS layout with distribution scheme.
 - Coordinated Cable tray & raceways layout with detailed sections.
- Focus on delivery of high quality technical design drawings, specification and calculations to the required **Rules and Regulatory norms** of concerned Authority. **Review and inspection** of Electrical equipments as per technical specification and drawings. Coordination with technical consultant, architect and client for MEP drawing inputs. **Visiting site**, attending project coordination meetings related to design. Review of project schemes and design and providing technical insight regarding its development. **Coordination with site team** and contractors, understanding the **practical difficulties** and providing valuable technical inputs accordingly. Providing status report and feedback to the Lead. Attending technical training, seminars, workshops and keep abreast of **latest trends and technology**. Review of vendor material and revaluation and scrutiny of vendor offer. Ensure **safety norms** are embedded in all work practices in line with company policy.

Software

- E-Tap for Power system studies.
- PvSyst Analysis for Solar design.
- Basics of DIALux software for lighting design.
- Auto-cad for Electrical drawings.
- Microsoft Office: XP, 2003, 2007, 2010, 2013, Word, Excel and PowerPoint.

Knowledge Purview

- Power system and switchgear protection.

Employment Scan

1. Currently working with **POWER ENGINEERS CONSULTANTS**, Andheri (Mumbai) **since May 2011**.
2. From June 2009 to March 2011 worked with **KALPANGI ENGINEERS & CONTRACTORS**.

Job Profile: Senior Design Engineer

Key Deliverables

- Rooftop Solar plant including DC-AC Design at MIDC Ahmednagar (more than 1 MW).
- Rooftop Solar plant design for MCGM pumping station at Panjrapur, Thane.
- AC side design of various Solar power plants for BELECTRIC PVT. LTD. at various sites in Karnataka and Telangana.
(More than 200 MW).
- Review of 900 KW rooftop Solar plant at Viviana Mall, Thane.
- Review of 2 MW Solar plant at K M Sugar, Mahoba, Uttar Pradesh (EPC contractor Sterling & Wilson).

- 66 KV substation design for Fortum Solar PV Plant in Pavagada, Karnataka.
- Design of 33 KV substation for BELECTRIC Solar EPC contractors for various sites in Telangana (Developer Solarpack).
- Design of 33 KV substation for BELECTRIC Solar EPC contractor for 2MW Power plant in Nasik (Khamgoan), (Developer Cleantech Solar).
- Design of 33 KV substation for BELECTRIC Solar EPC contractor for 100MW Power plant in MP, (Developer Softbank). Its a Pre-bid design.
- Design of 33 KV substation at Agona and Mataheco (Ghana).
- 33 KV Switchyard design for Simbhaoli Sugar at Ghaziabaad.
- 33 KV switchyard design for Balrampur Chini Mill near Lucknow.
- **Project Manager** for Electrical, Fire alarm system, Fire sprinkler system, Building Management System installation for LLOYD LAB INC in Malolos city, Bulacan, **Philippines**.
- Electrical consultant for Kastury, Nyati and Vascon builders (Pune) for their various Commercial and Residential complexes in Pune.
- Electrical consultant for Lodha Builders for Palawa project near Thane.
- Relay coordination study and setting through E-Tap for SI group, Juinagar.
- Relay coordination study and setting through E-Tap for Goodyear.
- Open access feasibility study for Ajantha Pharma, Aurangabad.
- Routine testing of various electrical equipment Relay, CT, PT, Transformer, RMU, Earth-pit resistance etc.

Statistics

- **Bachelor in Electrical Engineering** from **Pune Vihyarthi Griha's COET** (Pune), Pune University with First class and distinction (68.46%). (2009)
- **Diploma in Electrical Engineering** from **Shri Bhagubhai Mafatlal Polytechnic** (VileParle), Mumbai University with First class and distinction (79.88%). (2006)
- **SSC** From **Parle Tilak Vidhyalaya**, with First class and distinction (82.13%) (2002)

Personal Dossier

Date of Birth : 17th March 1986.
 Address : 101, Abhiyan CHS, Jeevan vikas Kendra marg, koldongari, Sahar road, Andheri (E), Mumbai 400069
 Passport No. : L2503532 (Valid upto 2023).
 Languages Known : Marathi, English & Hindi.
