

Shweta Patil

Lead Design Engineer

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SUMMARY

- An experienced technical professional with 11+ years of expertise in the electrical industrial design, substation and switchyard design domain plays a pivotal role in designing, developing, estimating, and execution as design management for various projects.
- Dedicated to providing quality in Design and Development. Lead the creation of electrical systems and components, ensuring that they meet technical specifications and industry standards. This includes managing client, vendor relationship and refining internal business processes to work closely with mechanical, piping, civil and project management teams to integrate electrical designs seamlessly.
- Extensive experience to Prepare and review detailed technical drawings, schematics, and blueprints using various design software. Also ensure all designs adhere to relevant industry codes, safety regulations, and client requirements. Excellent verbal and written communication skills, capable of effectively interacting with clients and cross-functional teams.
- Expertise in electrical design software such as AutoCAD, REVIT, lighting design calculation through Dialux software Altium Designer, or similar tools.

PROFILE SUMMARY

- Preparation of Design basis report.
- Designing HT / LT Protection Distribution Scheme.
- Preparation of Sub-Station Layout, Electrical Equipment and Panel Room layout.
- Short Circuit Force Calculation (Structural Loading) and Sag tension calculations.
- Overhead Conductor Calculations.
- HV / MV cable Sizing, CT Sizing Calculations.
- Preparation of Single Line Diagram for HT and LT side panel.
- Short Circuit Calculation, Earthing calculation and preparation of Earthing Layout.
- Preparing HT / LT Cable Schedule and Voltage Drop calculation.
- Cable tray Layout in co-ordination with all services including installation Material list.
- Lighting Calculation, Preparation of Lighting Layout (Indoor and Outdoor) and installation material list.
- Preparation of power layout and conduit layout.
- Preparation of Tender document, BOQ, floating tender to contractors and finalization after technical evaluation.
- Preparing technical specifications and Data Sheets for Electrical Equipment, Floating enquiries for procurement. Also preparation of techno commercial comparison, correspondence with vendors and contractors for approval on transformer, D.G Set, LT Panels GA drawings.
- Technical Evaluation and Comparison for all Equipment's.
- Preparing Purchase requisition and giving manufacturing clearance.
- Preparing a man-hour estimation for the Project.
- Calculation of rate analysis including VAT cost and transportation charges.

RESPONSIBILITY

- Assist project manager and project control in establishing work scopes, task descriptions, deliverables, schedule and manhour estimates for proposals.
- Coordinate the distribution of all relevant project data to the appropriate personnel within discipline.
- Ensure the company safety regulations during the engineering and reflected in design.
- Cost control at the project execution stage by optimization design and implementing design changes.
- Meet proposal target submission date.
- Functioning as a technical support to the site construction team in the construction and commissioning.
- Checking and preparing coordinated layouts incorporating all services.
- Communication and coordination with Clients, Contractors, Vendors, and resolving Issues for smooth execution of project at site.
- Coordinating with other Technical services.
- Making as built drawings as per site.
- Making Detailed Material List and Installation material List for All Electrical System.
- Making detailed design Quality Related Documents (Checklist, Check print etc.)

ENTRA Engineering Services Pvt. Ltd

26th Feb 2024 - till date

- **Designation** : Lead Design Engineer
- **Company profile** : Engineering Services
- **Sector** : Power Plants
- **Job profile** : Detailed Design for Power Plants
- **Projects**
 1. Water Treatment Project
 - 60mld water treatment package, Desalination Wave II East Jorf, Morocco
 2. Water treatment project
 - Maaden Phosphate 3, Saudi Arabia
 3. ADNOC Bab full field development project
 - 3 mini pads
 - 2 well bays
 - 2 water injection cluster
 4. ADNOC EPC for fuel facilities at ZIA

Citec Engineering Pvt Ltd

21st Feb 2020 - 23rd Feb 2024

- **Designation** : Senior Design Engineer
- **Company profile** : Engineering Services
- **Sector** : Power Plants
- **Job profile** : Detailed Design for Power Plants
- **Projects**
 1. Kinyerezi I Extn 185MW TPS - Tanzania
 2. Power Plants for MetaEnergia - Italy
 - Sulmona
 - Cassino
 - Melfi
 - Piombino
 - Gorizia
 3. Power Plants - Brazil
 - UTE Tevisa Extension
 - UTE Povoacao
 - UTE Linhares
 4. Energia del Pacifico - El Salvador
 5. GPL 46 MW Garden of Eden II - Guyana
 6. Berri, Gas oil separation plant
 7. Extension of phase 2 in Numaligarh Refinery project

Sterling and Wilson Pvt ltd

2nd May 2019 - 17th Feb 2020

- **Designation** : Design and Planning Engineer
- **Company profile** : Engineering, Procurement and Construction
- **Sector** : Oil and Gas and MEP
- **Job profile** : Electrical System Design and Planning for Projects
- **Projects**
 1. Admiralty Hospital, Lagos - Nigeria
 2. ITC ONE, Colombo - Sri Lanka
 3. MFAR resorts - Maldives

DanTECQ Consultants, Thane (Outsourcing of FLSmidth Pvt ltd)

1st June 2017 - 30th Mar 2019

- **Designation** : Electrical Design Engineer
- **Company profile** : Engineering Services
- **Sector** : Oil and Gas Industries, Cement and Mineral Industries
- **Job profile** : Electrical System Design
- **Projects**
 1. LPG Mundra - Gujrat
 2. DG Khan Hub - Pakistan
 3. Power Cement Line 3 - Pakistan
 4. Relizane - Algeria

MIKA ENGINEERS

1st June 2016 - 31st March 2017

- **Designation** : Electrical Design Engineer
- **Company profile** : Engineering Services
- **Sector** : Substations and Switchyards
- **Job profile** : Electrical System Design.
- **Projects**
 1. 220/66KV Papankalan-III (Delhi) new substation.
 2. Construction of new 400KV substation, Transmission lines and Augmentation feeder bay work.
 - Substation 1 - Balaghat.
 - Substation 2 - Badnawar.
 - Substation 3 - Bhopal.
 - Substation 4 - Chhegaon.
 - Substation 5 - Nagda.
 3. Illumination system of Mangdechhu (Bhutan) Hydro Electric Project.
 4. Bulyanhulu substation (Tanzania) 220/33KV- 2X10MVA, 220KV Extension Feeder Bay.
 5. Kenya Switchyard and Substation package for establishment of 33/11KV substation.
 - Substation 1 - Sirisia.
 - Substation 2 - Moiben.
 - Substation 3 - Ortum.
 - Substation 4 - Kapsower.
 6. Illumination system of 4x150MW Kameng Hydro Electric Project (Arunachal Pradesh).

FLSmidth India Pvt Ltd.

15th June 2015 - 30th May 2016

- **Designation** : Electrical Design Engineer
- **Company profile** : Engineering, Procurement and Construction
- **Sector** : Cement and Mineral industries
- **Job profile** : Lighting Design
- **Projects**
 1. Xuan Thanh (Vietnam)
 2. DG Khan Hub (Pakistan)

Hertz Consultants Pvt Ltd

19th June 2013 - 30th May 2015

- **Designation** : Electrical Design Engineer
- **Company profile** : Engineering Services
- **Sector** : Substations and Switchyards
- **Job profile** : Electrical System Design
- **Projects**
 1. Modular Fabrication Facility (Kattupalli - Chennai).
 2. HT distributed substations package 71a for expansion Bhillai steel plant
 3. 765/400kv substation at Manipuri and associated schemes works
 4. Switchyard package for Solapur super thermal power plant of 2X660MW. And many pre-tender documents.

TOOLS, SYSTEM AND OS KNOWLEDGE

- AutoCAD
- Dailux 4.13 and Dailux EVO
- MicroStation
- AGI32
- Navisworks
- E3D and SP3D basic.
- Microsoft Office.
- ETAP basic.

CERTIFICATION PREPARATION

- **Dhanush engineering services, Hyderabad** : Electrical System Design Engineering Course

EDUCATION

MPCET (JNT University - Andhra Pradesh) Bachelor of Technology in Electrical and Electronics	May 2013
Sri Srinvasa Junior College, Andhra Pradesh Higher secondary school Certificate Andhra Pradesh state Board (12th Class)	May 2009
Nutan English High School, Mumbai Secondary School Certificate Maharashtra State Board (10th Class)	Mar 2006

PERSONAL INFORMATION

- **Name** : Shweta Darshan Patil
- **Date of Birth** : 23rd April 1992
- **Gender** : Female
- **Marital Status** : Married
- **Languages Spoken** : English, Hindi, Marathi, Telugu
- **Passport Details** : P9285547