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## SKILLS

Dialux & Relux

HT switchgears

Testing of HT and LT Transformers

Transformers tests like Tan delta, Turns ratio, SFRA, magnetization currents etc.

PM of Electrical Equipment

# TANVEER AHMED GANGANALLI

REVIT MEP (DESIGN & MODELLING) | ELECTRICAL ENGINEER | TRANSFORMER TESTER | MAINTENANCE | HT BREAKER (O&M)

## PROFILE:

To be a cog in the wheel in **ELECTRICAL ENGINEERING** domain while working in a dynamic and reputed organization, which gives an opportunity to realize my own potential and push my limits by working on challenging projects on a global scale, contributing towards the growth of the company and my career.

## PROFESSIONAL PROFILE:

- Involved in the execution of projects.
- Liaising and attending engineering meetings with project management consultant/client. Data verification at site during basic engineering stage, field engineering support.
- Arranging shut downs for engineering study.
- Validate technical evaluation report, basic engineering.
- Coordination with site personnel for construction & testing activities.
- Coordination & preparation of material submittal.
- Close monitoring & reporting of progress of the project execution to higher authorities.
- Interaction with other discipline engineers to ensure that the progress of the project follows the planned project schedule.
- Responsible for the testing and preventive maintenance of electrical systems.
- Capable of coordinating and evaluating onsite engineering while ensuring the highest safety and quality standards has been met.

## AREA OF EXPERTISE:

- Ability to create detail MEP services modelling & coordination using Revit MEP.
- Ability to work with team and deliver detailed MEP Coordination model / drawing within allotted time frame & quality that is desired.
- Sound knowledge of various aspects of building services including HVAC, Mechanical Pipework for Heating / Cooling, Domestic Water Supplies, Gases, Sprinkler and Drainage systems.

## **FIELDS OF INTEREST**

**Switchgears (HT)  
Transformers  
HT motors  
Lightning systems**

## **IT SKILLS**

**AUTODESK  
AUTOCAD  
MEP**

**DIALUX &  
RELUX**

**MATLAB**

**MS OFFICE  
NAVISWORKS  
SOLID EDGE**

- Ensuring the electrical design drawings are as per the latest Architectural and structural design drawings.
- Responsible for all tendering and cost estimation for the trades in MEP projects.
- Receiving quotations from Vendors, Suppliers, and Subcontractors and Make sure that the quotations comply with the project required and provided Specifications.
- Prepare Calculation in Dialux software for wireless street Light Projects.
- Technical support in testing , commissioning and documentation of smart Lighting projects

## **PROFESSIONAL EXPERIENCE:**

### **ELECTRICAL ENGINEER**

UTILITY POWERTECH LTD /NTPC LTD JULY 2016 -Till PRESENT

### **Project 1**

#### **Operation & Maintenance of Generation Transformer (800MVA)**

- Keeping the proper track of daily transformer meter readings.
- Periodic checks of the oil level of transformer.
- Scheduled BDV of transformer oil.
- Ensuring collection of oil samples for DGA to be taken to site chemistry.
- Carrying out the pm of transformer.
- Checking of cooler banks and their oil pumps regular basis, ensuring proper working of auxiliary cooler bank.
- Periodic testing of HV & LV bushings of transformer
- Clearing if any oil leakage persists in transformer.
- Performing infrared thermography (IRT) on transformer and keeping its record.
- Performing TAN DELTA test on transformer to ensure deterioration
- Performing various tests like MAGNETIZING CURRENTS, WINDING RESISTANCE, SWEEP FREQUENCY RESPONSE ANALYSIS (SFRA), TURNS RATIO ETC.
- Oil top up if necessary, with proper filtering of oil using filtration machine until required BDV is achieved.

## **Project 2**

### **Maintenance of HT breakers**

- Ensuring the circuit breaker and its mechanism are disconnected from all electric power, both high voltage and control voltage, before it is inspected or repaired.
- Ensuring grounding leads properly before touching any of the circuit breaker parts.
- Checking for interruption through relay connected to it is showing for some trip command / fault command.
- Checking for blown fuses, loose connections of wires, damage of the wires.
- Checking for ferrule number of wiring is in accordance with circuit diagram.
- Inspection of breaker arms and arc interruption chamber.
- Inspection of auxiliary contacts and breaker multiplier.
- Measuring the length of the contact rod.
- Ensuring proper rack in and rack out of breaker in the breaker chamber.
- Trouble shooting if any trip command is persisting.

## **Project 3**

### **Busbar Maintenance**

- Checking whether there is any deformation, damage, dirt, etc throughout the whole length of busduct systems There is any dislocation, bending and other abnormality of the connecting covers, hangers and plug-in appliances
- Performing infra-Red Thermography to detect any abnormal heat and measure the operating temperature of busduct system
- Busduct joint section is securely fastened with joint bolts and both sides of the busduct
- Inspection on Load Condition to ensure load does not exceed the rated current of the busduct
- Inspection on Rust or Peeling of Paint on Busduct Housing

## Project 4

### Preventive Maintenance of Motors

- Checking of the motors thoroughly in accordance with the checklist provided.
- Checking for the rpm of motor.
- Checking for motor winding.
- Greasing if necessary.

All the above projects are carried out only after getting the work permit in hand along with the breaker chamber keys and ensuring the safety of my technicians and workers at the site. Wearing PPE kit is mandatory.

### EDUCATION:

Bachelor of ELECTRICAL & ELECTRONICS Engineering from  
**Visvesvaraya Technological University (VTU) Belgaum, Karnataka**

### CERTIFICATION COURSES

- PLC & SCADA (INDUSTRIAL AUTOMATION)
- REVIT MEP

### PERSONAL DETAILS

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➤ Name	Tanveer Ahmed Ganganalli
➤ Nationality	Indian
➤ Languages	English, Hindi, Urdu, Kannada
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