

COMPETENCY PROFILE

Assistant Manager - O & M - AC Area





Position Name: ssistant Manager O M rea

Position Details

| Job Title | Assistant Manager - O M - AC Area | Grade/Level | Managing Self - AC |
|-----------|-----------------------------------|-------------|--------------------|
| Business | Solar O M | Function | Solar |
| Location | Madhopura,Nedan,Reewari | | |

Competencies Required

Technica

| Competencies | Required Level | Criticality |
|---------------------------------------|----------------------|-------------|
| Inverter | Level 2-Practitioner | Critical C |
| Transformer / IDT | Level 2-Practitioner | Critical C |
| Sub Station / Switchyard | Level 2-Practitioner | Critical C |
| Cable Management | Level 2-Practitioner | Important I |
| Solar Power Plant Technology | Level 2-Practitioner | Important I |
| Control System Architecture and SCADA | Level 2-Practitioner | Important I |
| Weather Monitoring System | Level 2-Practitioner | Important I |
| Plant Performance | Level 1-Novice | Important I |
| Transmission Lines and Grid | Level 1-Novice | Important I |

Cross Functional

| Competencies | Required Level | Criticality |
|----------------------|----------------------|-------------|
| Safety | Level 2-Practitioner | Critical C |
| ISO Standards | Level 1-Novice | Important I |
| ESG | Level 1-Novice | Important I |
| SAP PM and MM Module | Level 1-Novice | Important I |



Inverter

Level 2-Practitioner

Criticality:Critical C

- Knowledge of Invertor specifications circuit diagrams SLD components
- Invertor operations isolation protections
- Invertor testing methods faults and errors troubleshooting rectification
- Invertor MPPT Maximum Power Point Tracking working principle
- Knowledge of all applicable codes standards for the invertor in the plant
- Knowledge of I-V testing and comparison with the approved standard test results and do the correction
- Preventive Predictive Breakdown maintenance and testing as per OEM guidelines



Transformer / IDT

Level 2-Practitioner

Criticality:Critical C

- Knowledge of the Transformers specifications, circuit diagrams, SLD, GTP Data
- Transformer testing, Faults, errors and rectification as per OEM guidelines
- Knowledge of all applicable codes standards for all the transformers in the plant
- Preventive, predictive, breakdown maintenance of the transformers
- Troubleshooting of the transformers, relay coordination fault identification
- Physical inspection of the transformers as per the check list/SOP
- Knowledge of the Fire Alarm, detection and protection system of the transformers
- Knowledge of NIFPS system, operations, maintenance, troubleshooting



Sub Station / Switchyard

Level 2-Practitioner

Criticality:Critical C

- Knowledge of SS and Switchyard Equipments HT/LT Panels CRP Panels Battery system Aux. Supply system specification circuit diagrams SLD
- Knowledge of errors testing operations applicable codes standards
- Knowledge of Relay settings configuration co-ordination and calibration
- Knowledge of Parameters / Alarm monitoring of applicable relays
- SS/ Switchyard components testing Faults errors identification and rectification / SOP
- Ability and technical knowledge for isolation and normalization of feeders / sections by following the SOP/PTW system
- Knowledge of safety PPE/Tools applicable for such operations
- Ability to undertake preventive predictive and breakdown maintenance
- Physical inspection of the SS/ Switchyard as per the check list/SOP
- Knowledge of the Fire Alarm detection and protection system of the SS/ Switchyard
- Knowledge of earthing system



Cable Management

Level 2-Practitioner

Criticality:Important I

- Knowledge of spec of different types of Power cable control communication OPGW
- Knowledge of Cable laying and testing
- Methods of Cable identifying / tagging systems accordance to SLD
- Knowledge of Cable jointing termination for Power Control and OFC cables
- Knowledge of error codes and error / fault clearing methods
- Basics of Cable insulation and earthing
- Working methods of preventive predictive and breakdown maintenance of cables
- Maintenance of cable trays and cable routes route marker



Solar Power Plant Technology

Level 2-Practitioner

Criticality:Important I

- Definition/Name Plate Details of all the components
- Understanding the AC/DC SLD of the Solar Power Plant
- Components of Solar Power Plant
- Synergy integration of the components



Control System Architecture and SCADA

Level 2-Practitioner

Criticality:Important I

- Knowledge of SCADA architecture and components
- Knowledge of RTUs PPC PLCs PCs HMIs servers switches firewall Gateway FOTE communication CITET config.
- Knowledge of testing operations rectification monitoring these components and Hardware
- Knowledge of Data monitoring transmission to the control centres ensuring the 24X7 availability at SCADA.
- Knowledge of Protection and escalation of possible cyber-attacks and breaches prepared with emergency response
- Undertake preventive checks as per OEM and knowledge of trouble shooting bugs and issues
- Knowledge of Connectivity RF/Broadband/ILL/MPLS/PLCC trouble shooting cable slicing



Weather Monitoring System

Level 2-Practitioner

Criticality:Important I

- Weather Factors influencing the Solar Plant
- Geographic Location- Latitude Longitude Time Regional Weather and Microclimatic factors
- Knowledge of WMStype configurations troubleshooting IOT Apps
- Awareness of Meteo Station and weather forecasting systems
- Sensors and data logging system



Plant Performance

Level 1-Novice

Criticality:Important I

- Data Visualisation Knowledge of Parameters to be monitored for Performance
- Data Visualisation Knowledge of monitoring the parameters from SCADA systems
- Data Visualisation Knowledge using of various monitoring system Power BI DSM F S
- Data Analytics Knowledge of CUF Bridge, PR Bridge, Loss diagram, repeated errors, Loss reduction, report generation and transmission loss, Plant availability, Grid availability



Transmission Lines and Grid

Level 1-Novice

Criticality:Important I

- Knowledge Compliance with Grid codes
- Troubleshooting methods in Transmission systems
- Coordination for Line Shutdowns
- Knowledge of type of insulators condition monitoring relays operations
- Insulators rectification/replacement procedures
- Grid operation and coordination
- Coordination with SLDC/RLDC SECI
- Transmission Line patrolling



Safety

Level 2-Practitioner

Criticality:Critical C

- Safety Guidelines awareness applicable for Power Plant
- Knowledge of HIRA / JSA preparation as per the Company Safety Policy OEM Guidelines
- Disaster / Emergency Management Plan Knowledge preparation
- Fire Detection Control Process thoroughness Fire Fighting System knowledge
- Encourage drive safety culture for all the team members
- Conducting Mock drills
- Implementation of PTW Systems
- PPE / safety items / equipment's identification applicability



| ISO Standards |
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| Level 1-Novice |
| Criticality:Important I |
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| Level Indicators |
| Awareness adherence to define process |
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| ESG |
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Level 1-Novice

Criticality:Important I

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