

# KUMAR SHASHANK

Senior Engineer -Electrical

Electrical Maintenance | Reliability | Project Management | EHS

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## SUMMARY

Competent Electrical Engineering professional having about 6.8 years of experience in electrical maintenance, commissioning, troubleshooting and reliability improvement of electrical power system and machines at paper industries.

## CORE COMPETENCIES

- Job execution and management
- Preventive/Predictive/Breakdown maintenance
- Root cause analysis & Incident Investigation
- Condition monitoring
- Organizational & People management skill
- Troubleshooting
- EHS
- ISO documentation
- Planning & scheduling using SAP
- TPM
- Energy savings
- Cross functional coordination
- Material management
- Power Management System

## TECHNICAL COMPETENCIES

- **Transformers:** Operation and maintenance of power and distribution transformers (Up to 15 MVA, 132/11 KV, 11/0.415 KV, 11/6.6kv, Make: ABB, CG, Schneider). Conduct the preventive maintenance, BDV testing, condition monitoring and inspection of transformers (functional check)
- **Switchboards:** Operation, maintenance and troubleshooting of MV & LV boards (11 kv ,6.6 KV and 0.415 KV, Make- ABB, L&T & Siemens). Performing maintenance and condition monitoring of VCB (VD4, make: ABB) and ACB (Make: L&T, Siemens, Schneider). Checking

of schematics for troubleshooting of switchboards. Operation and schedule maintenance of IMCC, PMCC, MCC, MPDB & LDB boards.

- **Motors:** Operation, maintenance and reliability improvement of HT & LT inductions motors, (6.6 KV, 415v, up to 1.5 MW Siemens and ABB Make three phase induction motors). Experience in schedule maintenance and health monitoring of motors.
- **Protection Relays:** Operations and troubleshooting of microprocessor based protection relays of ABB (REF 615, REM 615, RET 615), Siemens relay .
- **Variable speed drives:** Operations, maintenance and troubleshooting of LV and MV speed control drives for various process controls. Hands on experience of maintenance life cycle management of VFD's (ABB ACS 800, 850, 880, Siemens make (Sinamics G120, etc.)
- **UPS, Battery chargers & Batteries:** Operations, maintenance and troubleshooting of AC/DC UPS systems and float cum boost chargers. offline UPS systems (Hitachi Hi-Rel, Emerson, Schneider make). Also experienced in selection, maintenance, battery capacity test and failure analysis of VRLA, Ni-Cd, Lead acid batteries.
- **Lighting:** Experience in installation and maintenance of plant area lighting.
- **POWER SAVINGS:** Reduce specific power by improving system efficiency by power factor improvement, voltage optimization by transformer by tap changing, identification of motor running below 50% of load replacing with low kw motor or converting delta to star connection, collection of data to use vfd to match the speed and torque requirement of load to eliminate inefficient throttling device going on, etc.
- **Software Exposure:** Hands-on experience in working on ABB PCM 600, SAP PM and MM module, Microsoft Office, Drive Composer for abb drives, Starter software for Siemens drive, Simocode ES for Imcc, Profibus tracer, etc
- **Power management system:** Load based shedding, Frequency based shedding, Pressure based load shedding, Grid MD based load shedding interlocks planning.
- **132/11 KV Grid Yard Operation and maintenance:** Air insulated substation operation and maintenance, gas insulated substation operation.
- **Power Changeover:** Power changeover of double bus bar and sbb of 210 MW power plant, Synchronization, TG's startup, Maintaining 100 % Power availability to utility and whole mill as per priority etc.
- **Scada:** Making trends, alarms, well versed with graphics of ABB Scada system.

## DETAILS OF EXPERIENCE AND EXPOSURES

**ORGANIZATION: ITC PSPD, Bhadrachalam.**

**ROLE: OFFICER (NOV2021- PRESENT)**

- Complying with procedures of planned maintenance system and upkeep of entire electrical setup of plants under utility cluster.

- Electrical operation of 140 MW power plant like power changeover, load distribution, powers system reliability, synchronization.
- Energy saving by power factor improvement, voltage optimization, converting motor running below 50% load from delta to star, implementing drives where valve throttling, etc.
- Perform RCA as per SOP.
- Focus on equipment availability above 99.9% for service critical equipment, 98% for other equipment and 100% for safety critical equipment.
- Supervising and facilitating quarterly AMC services. Inspection of portable electrical equipment as per schedule.
- Timely closure of breakdown and maintenance notification in SAP.
- Updating and maintaining the records as per ISO requirement.
- To monitor KPI including PM, maintenance cost, failure date and monthly status. Maintain all monthly and yearly records and IMS documentation for audits.
- Preparing file for annual electrical inspection and submitting the same.
- Preparing section wise energy consumption data and highlighting the deviations. Maintaining energy consuming equipment.
- Ensuring 100% adherence on electrical safety permits and 100% implementation of LOTO system.
- Timely attending the points identified through various external and internal audits and HAZOP.
- Imparting induction training to all contract workmen before placing on job and providing TBT on various topics, every week.
- Facilitate and complete condition monitoring studies for electrical equipment & ensure that the electrical assets are in fit to perform condition.
- To coordinate with cross discipline and cross functional teams for coordinating HIRA for several maintenance tasks and develop appropriate risk assessment sheets & templates.
- To conduct RCA of electrical failures and ensure time bound implementation of recommendations.
- To impart training to new technical associates on different aspects of electrical maintenance and reliability.
- Maintain all monthly and yearly records and IMS documentation for audits.
- To ensure compliance of electrical safety procedures, LOTO system and conduct TBT (Tool box talk).

**ORGANIZATION: J.K PAPER RAYAGADA (JUNE 2016 TO OCT 2021)**

**ROLE: ELECTRICAL ENGINEER**

- Preparation of documentation including SAT, Commissioning and maintenance logs.
- Operation and Maintenance of 132 kv grid yard.
- Maintenance and troubleshooting of HT and LT switchgear (6.6/0.415,11/6.6kv) • Maintenance and operation of LT and HT circuit breaker (sf6, vcb, acb) up to 132 kv.
- Maintenance and troubleshooting of HT and LT induction motor.
- Maintenance of power transformer through weekly checklists.
- Maintenance and troubleshooting of abb acs 800,850,880 drive, Siemens make sinamics g120, dc micro master, etc.
- Maintenance and troubleshooting of different motor starter like dol, star-delta, liquid resistance starter, soft starter, intelligent mcc simocode.
- Abb AC500 plc with profibus communication and Ethernet communication for HMI.

## PROJECT EXPERIENCE

- Installation of Acura sheet cutter
- Modification of 180 metric ton of paper machine from line shaft to silent drive and increase the capacity of machine up to 200metric ton/day
- Modification of 150 metric ton of paper machine from line shaft to silent drive and increase the capacity of machine up to 180 metric ton/day □ Installation of 4MVA transformer.
- Upgradation of AIS (air insulated substation) to GIS (gas insulated substation) □ Erection of IMCC and Switch gear panel

## EDUCATIONAL QUALIFICATIONS

BACHELORS OF TECHNOLOGY, ELECTRICAL ENGINEERING

(C.v Raman college of engineering, bbsr, BPUT: 2016 With 8.67 c.g.p.a.

## Certifications & Licenses

- Electrical licensing board Odisha (MV license)

## PERSONAL INFORMATION

Date of birth: 26<sup>th</sup> Dec 1993

Gender: Male

Hobbies: Playing cricket,

Talking parents

Marital status: Married

Languages known: English,  
Hindi, Maithili, Oriya  
Permanent Address: At darhar,  
laheriasarai darbhanga, Bihar  
,846001