

Ahmad Bilal Basharat Khan



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🏠 ELECT/48407

Summary:

A hard working, experienced and well qualified power industry professional with wide knowledge, expertise and 4+ years of experience in the field of Combined Cycle Power Plant. I hold a degree of Bachelor of Science in Electrical Engineering with Specialization in Power. I am registered with Pakistan Engineering Council (PEC No: ELECT/48407).

Currently, I am working at **450MW Combine Cycle Rousch Power Plant, Abdul Hakeem Pakistan** as **Maintenance Engineer Electrical**.

Rousch Power Plant having capacity of 450MW and plant comprises of two Siemens V 94.2 Gas Turbines each equipped with a diverter damper and a bypass stack, two HRSGs and one Steam Turbine with Condenser.

Experience:

Designation: Maintenance Engineer-Electrical

450 MW Combine Cycle Rousch Power Plant, Abdul Hakeem, Pakistan

(15-05-2019 to Present)

- Leading routine preventive and corrective maintenance of Motors, Generators, Circuit Breakers, Transformers, batteries, HV/LV switchgear, protection system and 500 KV Switch yard.
- Responsibilities include planning of maintenance of machinery by controlling maintenance cost, reviewing spare parts, ordering spares, carrying out stores inspections and managing adequate inventories.
- Responsibilities includes the technical review of competitive tenders, writing detailed technical reports of projects and scope of work.
- Responsibility include to ensure that the highest safety standards apply at all times.
- Responsibility includes full accountability for the work planning and execution of work being undertaken within the electrical maintenance department.
- Overall responsibility for the operating and capital budget preparation of electrical section budgets and it's execution including tracking of spend and spare utilization.
- Overall responsibility for the management of electrical maintenance personnel directly employed within the section and the supervision control covering all contractors employed within the electrical maintenance department.
- Management and control of the station interfaces that involve the electrical maintenance activities and cross section actions to facilitate the requirements of the PPA, O&MA, Statutory and operating licenses.
- Responsible for the ISO procedures that are used within the electrical section and enforcing their use and reviews where necessary.
- Responsible for the station future reliability and efficient maintenance procedures within the electrical maintenance section.
- Leadership and management of the electrical maintenance section covering the ongoing safety of all the work undertaken by the sections. To be seen to be leading the safe working approach in a very visible manner.
- To ensure procedures for the control of work, it's planning and execution are followed and to ensure that best practice maintenance is used and followed.
- To set targets for the electrical maintenance section to follow and implement to give reliable and effective performance KPI's for the maintenance sections.
- To carry out regular budget reviews and update budget spending accountability for all of the electrical

maintenance approved budget cost centers.

- Manage the preparation and review of the department's operational and capital budgets such there is a transparent justification for the budget submissions when required.
- Manage the spare requirement of the section from procurement to storage
- Manage the manpower procedures and HR issues that are relevant to the maintenance department.
- Participate in the overall management of the Power Station with maintenance inputs covering the actual work undertaken, planned outages, unplanned outages, and all statutory inspection work within the maintenance scope of work.
- Preparation of all section reporting as required for records and Client interface.

Key Maintenance Jobs during full complex outage Dec-2020

- Leading the 20 years overhauling of SIEMENS 500 KV SF6 Circuit Breaker
- Leading the up-gradation of SFC/SEE system of both gas turbines at Rousch Power Plant.
- Leading the replacement of 500 KV vertical break disconnect switch.

Designation: Assistant Engineer Operations

450 MW Combine Cycle Rousch Power Plant, Abdul Hakeem, Pakistan (01-11-2016 to 14-05-2019)

- Working experience at **SIEMENS Steam Turbine & V94.2 Gas Turbine** having control system **SIEMENS SPPA T3000**.
- Working experience of **Steam Turbine** including its sub system i.e. Condensate System, Main Feed Water System, Main Steam System, Aux Steam System, Turbine Lube Oil System.
- Working experience of processing of Natural Gas System including Removal of Condensate, Gas Heater, Pressure reducing station
- Working experience of De-mineralization water production system.
- Working experience of Fire Fighting System.
- Full aware of LOTO Procedures.
- Communication with National Power Control Centre (NPCC) during shift hours.
- Raising Job Cards and communication with maintenance department.
- Preparation of shift log and Plant data Sheets.
- Preparation of incident, outage and plant trip reports with recommendation to avoid reoccurrence in future. To ensure that operational preventive maintenance routines are performed in timely manner and history records are updated in Oracle eAM system
- Providing safety from system derived hazards to personnel working on plant and apparatus by implementing DPS safety rules.
- Participate in continuous improvement activities by identifying opportunities and taking actions to improve plant output and availability.
- Working experience on 500 KV switchyard, HV & LV Switching.
- Supervising the plant during shift hours for safe, smooth, efficient, and economical operation taking care of load demand, OEM recommendations and local procedures / instructions.
- Monitoring Start-ups / Shutdowns.
- Lead emergency drills, HSE week, sports week, and other station events.
- Check, implement and confirm personal as well as equipment safety by implementing JSAs, risk assessment and key safe system.

Designation: Trainee Engineer (Electrical)

450 MW Combine Cycle Rousch Power Plant, Abdul Hakeem, Pakistan (01-12-2015 to 31-10-2016)

- General Understanding of Power Plant and its systems.
- Participated in the routine Preventive & Corrective maintenance of plant.
- Participated in the plant outages and Hot Gas Path Inspection.
- Involved in the Condition Monitoring and onsite Electrical Testing.
- Worked on the Fire Safety (Hazards, Risks, Types of fire & how to minimize Risk).

A.M Power Engineering & Services (pvt) limited

(01-12-2014 to 01-11-15)

- Worked as an Electrical Service Engineer.
- Installation of generator.
- Worked on ATS, AMF, LT and Distribution Panels.

WAPDA Engineering Academy Faisalabad.**(7th & 8th Semester)**

Worked with senior engineers and Performed different experiments in Power System Protection, Power System Operation, High Voltage Engineering & Power System Analysis.

Northern Power Generation Company, GENCO-III, Faisalabad**(Summer Internship 2013)**

Understanding the operation of Gas turbine power station (GTPS), steam power station (SPS) and workshop practice during internship.

Academic Qualification:

2010-2014	Bachelor of Electrical Engineering University of Engineering & Technology Lahore
2008-2010	Intermediate (F.Sc Pre-Engineering) Punjab College of Science Faisalabad (BISE FSD)
2006-2008	Matriculation – Science Workers Welfare School for Boys Faisalabad (BISE FSD)

Final Year Project:**"Designing and Development of single phase to three phase inverter for driving three phase Induction motor"**

Phase inverters are used where three phase service is not available from the utility, or too costly to install due to a remote location. A utility will generally charge a higher fee for a three phase service because of the extra equipment for transformers, metering and extra transmission line.

Skills:

- Oracle eAM system for maintenance preventive and corrective maintenance and procurement of plant spares
- Proficient in MS Office, Power Point, Excel
- Surfing Internet & Web Browsing
- Can Work Under pressure when meeting deadlines
- Can work individually as well as a part of the team

Extra-Curricular Activities & Hobbies:

- Worked as a Volunteer for the eye camp organized by Rousch Power Plant at Rural Health Center, Abdul Hakim, Pakistan
- Worked with NFC 'blood donor Society' for blood donation campaign
- Worked with Literary Society of NFC magazine

Sports

Cricket, Squash, Volley Ball, Badminton, Computer games

- Participated in Squash, Carom, Volley Ball, Badminton and Table foosball tournaments held at Rousch Power Plant.
- Winner of 2016 Volley Ball Tournament held at Rousch Power Plant.

Reading

Newspaper, New researches in Electrical Engineering

Reference:

References will be furnished on demand.
