

**HUSSAIN AHMED**  
**Electrical Engineer**  
**PEC # Elect/30361**

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## **OBJECTIVE**

- To work in a dynamic organization that provides ample opportunities to enhance my engineering/technical skills by the virtue of team work and synergic achievements of objectives in my professional career.

### **Summary:**

Electrical Engineer with 8 years Professional experience (5 years in Saudi Arabia) with roles and responsibilities of Electrical Engineer, Testing Engineer, Head of the department Electrical.

Promoted to the position of Senior Electrical Engineer from last 2 year based on site achievements

## **Experience in Saudi Arabia (October-2013 till Present)**

### **1. Owaida Khalid Al-Khalidi Gen. Cont. Est. Jubail (SABIC VENDOR): .** **(October-2013 till Present)**

Currently working as Senior Electrical Engineer with the SABIC contractor Owaida Khalid Al-Khalidi **AL-JUBAIL SAUDI ARABIA** since October 2013.

The establishment provides electrical motors overhauling, repair, rewinding and testing services to Sabic, Saudi Aramco, Saudi Electric Company, Marafiq and the local industries in Jubail regions of the kingdom of Saudi Arabia.



### **JOB DESCRIPTION**

- Supervision of over all activities in Electrical Workshop dealing with the rewinding/overhauling/testing of different electrical drives....
- Receiving the required documentation and understand Scope of Work
- To conduct the incoming and in-process inspection of the various jobs and materials to maintain the Product Quality.
- To conduct Root Cause Failure Analysis and drive corrective and preventive actions from it.
- Perform inspection of bought out items and customers supplied spares.
- Co-ordination with clients and explaining the scope of work and recommending alternate solutions.
- Reporting the work progress, bringing to notice potential problems or reasons to delays
- Monitor, check and insure the implementation of Quality Process and Procedures during the in-process activities.
- To assist implementation of QMS throughout the organization.

- Work experience of planning, organizing and scheduling the job order form Clients **(SABIC AND ARAMCO)** and estimating the scope of maintenance work...
- Troubleshooting and inspection of Electrical Equipment (AC Motors, Generators, control transformers and Coils) and preparing inspection reports....
- Troubleshooting of control as well as power circuit during faults in electrical systems with the help of electrical drawings
- Distributing the maintenance work among the employees, explaining the scope of work and provide guidance in maintenance work....
- Conducting final solo run test for equipment and arranging witness test for client.

<b>Experience in Pakistan (October-2010 to September-2013)</b>
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## **2. Pakistan Steel Mills (Steel making department-SMD)**

Worked as Assistant Executive Engineer in Steel making department (SMD) OF **Pakistan Steel Mills Karachi**

(October 2010- September 2013)



### **JOB DESCRIPTION**

- Worked as **Maintenance Engineer** in Steel Making Department of Pakistan Steel, dealing with different type of electrical motors having power ratings up to 4MW.
- Work experience of planning, organizing and scheduling of Plant Inspection, maintenance, and plant shut-down for capital repair purposes of various Electrical Machines.
- Managing, and Maintenance overhauling of 120 tons steel converters (02-Nos) having 4MW synchronous motors.
- Hand on experience of installation, testing, starting and running procedure of different LV & MV electrical motors.
- Monitoring and Maintenance of Huge Bulk Material Conveyor network.
- Monitoring and Maintenance of water supply network for cooling and feeding purpose in the process of steel making.
- Maintenance of all Transformers Section (TS) (11KV-6.6KV-415 volt-220v).
- Update and record keeping of all safety observations, various maintenance log books, routine faults and accidents reports and inquiry reports.
- Co-ordination with the outside agencies i.e. Power Equipment's Repair Shop, Engineering Laboratories, Power Distribution Network.
- Experience of Variable Speed AC drive AND Variable speed DC Drive (Thyrister Based Control).
- Troubleshooting of control as well as power circuit during faults in electrical system with the help of electrical drawings.
- Protection of Electrical panels, Bus bars, transformers, induction motors, synchronous motors and D.C motors using EOCR,OCR ,differential scheme protection, thermal overload relay, circuit breaker ,HRC fuses and CTs.
- Handle speed and torque control method of induction motors using frequency invertors' techniques, star delta technique, autotransformers technique, primary and secondary resistance control method, DOL method.
- To execute the operation as well as carrying out schedule maintenance of Low Tension bus bars during shut down of steel process units.
- Knowing and understanding the various protective relays, signals and reading of electrical drawings.
- Responsible for the maintenance of different circuit breakers installed in various control panels.

- To maintain all the technical documentation procedures regarding above said works such as technical work order, work permission, energy consumption report, tripping reports and filling of the logbook regarding events, which occur in the assigned functional area.
- Team Leader 20-officials directly involved in converters operation regarding Electrical system.

### **Electrical test experience:**

#### **1. Testing of power transformer at PSM-2 G/S Karachi 132KV.**

- Megger test
- Short circuit test
- Transformer Turn Ratio test
- High pot Test
- Transformer Stability Test
- Calibration & Testing of Oil
- Polarization index test
- Breakdown test
- Flash point test
- Functional Tests

#### **2. Testing of Voltage transformers at PSM-2 G/S Karachi 132KV**

- Megger Test
- Continuity Test
- Ratio Test
- Polarity Test

#### **3. Testing of Current transformers at PSM-2 G/S Karachi 132KV**

- Megger Test
- Continuity Test
- Resistance Test
- Ratio test
- Polarity Test
- Burden Test
- Saturation Test

#### **4. Testing of MV circuit breakers**

- Insulation Test
- Resistance Test
- Contact resistance Test
- Timing Test
- Hipot Test

#### **5. Test experience of Electrical Motors:**

- Winding resistance Test
- Insulation resistance Test
- Polarization index Test
- Balance current Test
- Hipot Test
- Core loss Test
- Rotor growler Test
- Run-out Test
- Vibration, sound, temperature Test
- CSI 2140 vibration analysis and data processing using software package AMS SUIT

#### **6. Testing of high voltage cables**

7. Cable fault finding and localization using Seismophone and Time Domain Reflectometer (TDR).

**Types of Equipment's:**

- Transformers: ABB, Siemens, China, Russia make Auto and Power Transformers
- Electrical motors: ABB, Siemens, GE, Russian, Hyundai and Toshiba electrical motors
- Submersible pumps: Flygt, KSB.
- Protection Relays: ABB, SIEMENS, GE, AND United technologies, Alstom, Omron

**Member of:**

- Member of Pakistan Engineering Council.
- Energy Conservation Committee (ECC) of Pakistan Steel Mills (2012-2013)
- Talent Pool of Pakistan Steel (2012-2013)

**Academic qualification**

Qualification	Institution	GPA/Marks	Division
B.Sc. Electrical Engineering	U.E.T Peshawar	3.00/4.00	1 <sup>st</sup>
Intermediate (Pre-Engineering)	Govt. Sup. Science College	853/1100	1 <sup>st</sup>
Matriculation	M.C.P School	614/850	1 <sup>st</sup>

**Professional courses:**

Course	Institution	Duration
Distributed Generation & Renewable Energy Sources.	NED U.E.T KARACHI	06 months
Power Generation Economics	NED U.E.T KARACHI	06 months
Organization System	NED U.E.T KARACHI	06 months
Accounting Financial Management	NED U.E.T KARACHI	06 months
Operation Research (OR)	NED U.E.T KARACHI	06 months

### Technical skills:

- Programmable Logic Controller (**PLC**)
- AutoCAD, Pspice, Smart Draw, Adobe Photoshop and MATLAB.
- Operating Systems: MS DOS, Windows 95/97/98/2000/XP/VISTA/7/8/10. Office Automation: MS word / Excel / PowerPoint / FrontPage).
- Programming languages: C ++, Assembly Language for microcontroller 8085
- Sufficient knowledge of computer hardware and software

### Workshops:

- Workshop on Environmental Protection in Pakistan Steel Mills.
- Workshop on role of "First Line Managers" in Pakistan Steel Mills.
- Workshop on work safety in Pakistan Steel Mills.

### Incharge Energy Monitoring Section: August-2012 to September-2013

- Additional charge of Energy Monitoring Section, which deal with calculation of total plant energy consumption, Energy Billing and plant load-shedding schedule preparation for conservation and rational use of energy.

### Personal characteristics:

- Strong interpersonal and communication skills
- Outstanding management skills
- Cheerful and Hardworking
- Pleasant Personality
- Highly motivated

### Languages:

**English, Arabic (Work related), Urdu, Pushtu & Kohistani (Native)**

### References:

Name	Company	Designation	Email	Contact
Fahad Al Thubyani	<b>Saudi Aramco Shell Refinery Company (SASREF)</b>	Electrical Supervisor	F.Al-Thubyani@sasref.com.sa	+966 13 3572592
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