

Syed Umair Ali



Personal Data

Place and Date of Birth: Karachi, Pakistan | 10th April 1986
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Work Experience Dec 2015 - Present

Manager Power Plant at GulAhmed Textile

- Manages and oversees the daily operations of a power plant. Monitors operations for efficiency and safety ensuring that all applicable regulatory requirements are followed.
- 15MW CHP Power Plant consisting of MTU, CAT, Jenbacher, Waukesha Engines, Absorption chiller, HRSG & Gas Fired Boilers.
- Develop & direct internal maintenance activities including mechanical, electrical, instrumentation, and spare parts management.
- Achieves financial objectives by preparing an annual O & M budget; schedules expenditures; analyzes variances and initiates corrective actions; obtains required parts and services by negotiating for the best terms with suppliers.

Work Experience April 2014 – Dec 2015

Asst. Manager E & I at TAPAL ENERGY LTD.

- A co-generation thermal power plant of 126 MW which supply electricity to national grid.
- Good experience on Gas, HFO and CCPP based power plants.
- Maintenance, trouble-shooting and monitoring of 132kV power transformers, HV (SF6), MV (VCB), LV (ACB), MCC panels and 11kV generators.
- Testing and configuration of protection relays (Line protections, Bus-bar protection, Transformer protections, Breaker protections, Generator protections).
- Good experience of DCS (ABB) and PLC (Siemens, ABB, Omron and Allen Bradley).
- Worked on control system of Warstila 18V38, Exhaust & HFO fired boilers, Air compressor, Cranes and DC supply system.

Work Experience July 2013 - April 2014

Dyp. Manager Electrical & Power Plant at TATA ENERGY LTD.

- Involve in project of new power plant of 12MW & grid connection of 3.7 MW including cable inspection, cable routing, panel selection, transformer selection, synchronizing schemes to synchronize with existing system, selection of electrical protections including surge suppression, lightning protection, earthing system & interlocking, operation philosophy etc.
- Apply preventive & predictive measure to improve the reliability & availability of the plant instrumentation, control system & electrical system.
- In-depth monitoring & troubleshooting of electrical system & its parameters including Harmonics, neutral current, earth pits, energy conservation, water treatment, maintenance scheduling by means of proactive approach, loading factors, fuel

consumption, oil consumption, valve lashing, budgeting, procuring after technical evaluation.

- Command over ERP software for inventory check & balance, product requisition & budget monitoring based on Oracle.

Work Experience Apr 2010 - July 2013

Management Trainee to Asst. Manager at Gul Ahmed Power Plant

GTM captive power plants consist of generators (CAT, Waukesha & GE Jenbacher), Solar Gas turbine, Siemens Steam turbine, Descon WHRB boilers.

- Works under the direction of section Head, plan and supervise all preventive and corrective maintenance, monthly/annual outage and overhauling work activities on plant.
- Responsible over control systems in the fields of instrumentation and system controlling of power generators, gas turbines, steam turbine, boiler and utilities.
- Good command over electrical base calculations including short circuit analysis, power flow, power factor improvement, load balancing, arc flash analysis.

Education

Jan 2010 Bachelors of Science in Electronics, SSUET, Karachi.

May 2005 HSC (Pre-Engineering), Govt. Dehli College, and Karachi.

March 2003 SSC (Science), White House Grammar School, Karachi.

Software Skills

AutoCAD, Microsoft office, Siemens Simaris Design, WinCC, Step7, MATLAB.

Interest & Activities

Reading newspaper.

Professional Courses

Indust. Control System, Microcontroller, Electrical Power System, Project Management, Maintenance Management.

Projects

Successfully completed the following Projects;

- 1- New Power Plant of 7 MW Power Generation including shifting Electrical Generation System from LV to MV also completed erecting & commissioning. Achieved the best possible minimum gas consumption.
- 2- K-Electric connection of 3.7MW.
- 3- Expansion Project of New Power Plant of 4 MW generation including Load Distribution electrical network to end user. Also, completed erecting & commissioning.
- 4- Project of 250 USRT Absorption Chiller, completed Technical evaluation, Commercial negotiation, erecting & commissioning.
- 5- Project of Waste Heat Recovery Boilers, completed Technical evaluation, Commercial negotiation, erecting & commissioning.
- 6- Project of Steam line and condensate recovery network over 500 meters, completed Technical evaluation, Commercial negotiation, erecting & commissioning.
- 7- Revamping of 12 MW Engine based Power Plant with Heat Recovery, Complete power plant redesigning and replacement with highly efficient equipment.
Main goal is to achieve maximum overall thermal efficiency, we have achieved up to 80%.
Total project cost is about 500 Million.
- 8- Water Conservation, Replaced all cooling towers with Highly Efficient Dry Coolers. Reduced water and chemical consumption up to 95%. Project Cost is about 40 Million.
- 9- Energy conservation, Replacement of existing lighting system with latest efficient LED system. Project Cost is about 20 Million.
- 10- SCADA based Energy metering project to monitors the flow, operational losses, Project Cost is about 4 Million.
- 11- Complete plant SCADA based metering and controlling, including Water, Gas, Steam, Air metering with real time data.
- 12- Implementation of advanced Load Shedding system to ensure the reliability of plant.
- 13- Implementation of advanced Hot Water control system to increase the heat transfer.
- 14- Solar Pilot project of 500kWp, to achieve the LEED (Leadership in Energy and Environmental Design) certification. Structural, Economics and Efficiency considerations have been completed. Execution will be started after equipment delivery. Project cost is about 35 Million.
- 15- LEED certification for our new Green building, Technical evaluation and commercial negotiation have been completed for Type Tested Panels, Bus Trunk System, Efficient Air Compressors, Efficient VAF HVAC system, Dry Type Transformers, MV switchgears.
- 16- K-Electric connection of 1 MW.
- 17- SSGC connection restoration.
- 18- Zero discharge ETP plant.
- 19- Project of 530 USRT Absorption Chiller by using waste thermal energy of engine. Also, completed Technical evaluation, Commercial negotiation, erecting & commissioning.

References

Will be furnished on request.