



Mohamad Baghkhan

Electrical Department Manager

Project Engineering Manager

Certified Project Management

Associate as IPMA ICB4-Level D

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Objective

Experienced (22 yrs.) and practical Electrical engineer with more than 6 years' experience as department manager with more than 70 colleagues and background in project engineering management. In possession of strong problem solving and leadership skills due to professional experience as a field engineering manager in the construction stage of EPC projects.

WORK EXPERIENCE

Electrical Department Manager

EIED, IRAN

06/2017 – Present

EIED is a well-known engineering company in Oil/Gas and Petrochemical industry in IRAN.

EIED attained IPMA Delta Class 4 certificate as Managed Class and also selected as Silver Winner for medium size project management competency in IPMA project excellence award in 2022.

Achievements/Tasks

- Accomplishes electrical engineering human resource objectives by recruiting, selecting, orienting, training, assigning, scheduling, coaching, counseling, and disciplining employees.
- Provides electrical engineering recommendations and technical support on electrical engineering reviews, strategic plans, and projects. Provide advice and guidance to designer on important technical issues, project control, multi-disciplinary issues and also construction and field engineering queries
- Ensures on-time product development by collaborating with leaders to estimate reasonable and precise schedules and solve problems quickly.
- Manages engineering teams and other electrical engineering staff members.
- Meets electrical engineering financial objectives by forecasting electrical engineering requirements; preparing an annual budget; scheduling expenditures; analyzing variances; initiating corrective actions.
- Conduct all activities for bid projects, review ITB, preparing technical and commercial proposal, preparing MTO and BOQ for bid projects for cost estimation, Man hour estimation, preparing work break down structure and deliverable and non-deliverable list and activities.
- Following and preparation all quality activities containing internal and external audit, quality review and monitoring, preparation procedure and template and check lists.
- Value engineering for awarded and assigned projects.
- Updates job knowledge by remaining current on codes and requirements; participating in educational opportunities; reading professional publications; maintaining personal networks; participating in professional organizations.
- Completes electrical projects by supervising installations; resolving design issues,
- Manage more than 70 electrical and telecom engineers to do 12 ongoing oil/petrochemical mega and medium scale projects.

Project Engineering Manager

EIED, IRAN

04/2011 – 05/2017

EIED, NGL3200 (1.3 Billion EPC project)

Achievements/Tasks

- Participates to the induction of the engineering team to contract/project requirements.
- Managed 5 different engineering teams to finalizing design of more than 310 process equipment.
- Ensures effective interdisciplinary coordination in particular through weekly meetings.
- Takes the necessary technical decisions in case of unresolved conflicts between Disciplines.
- Controls that the engineering team properly interfaces with other project members.
- Supervises the issue of engineering deliverables and approves the key engineering documents.
- Consolidates engineering budgets based on discipline department budgets and controls it during the course of the project.
- Participate to contract management by initiating, collecting and consolidation the variation requests and change orders.
- Responsible for providing inputs data for weekly and monthly project report to Top management.
- Participates to Risk management for the engineering concerns.
- Initiates Value engineering and best practice.

Field Engineering Manager

EIED, IRAN

08/2008 – 03/2011

EIED, South Pars Gas Development, Phases 17&18- Phases 9&10 (4 Billion EPC project each plant)

Achievements/Tasks

- Receive, control and management of AFC documents distribution to contractors.
- Management of field engineering teams and related activities in job site.
- Review and control of queries reply in all engineering disciplines.
- Ensures effective interdisciplinary coordination in multi discipline queries.
- Takes the necessary technical decisions in case of unresolved conflicts between Disciplines.
- Participate in construction progress meeting for coordination of engineering documents and material availability in site
- Supervises the issue of pre commissioning and commissioning interface with engineering.
- Coordination with Head quarter for change on Basic documents.
- Support of document control department.
- Coordination with vendors for resolving manufacturing or construction faults on related equipment.
- Keep record of changes to documents during construction and commissioning for As Built preparation
- Collaborate with construction team to plan material substitution or material purchase in case of shortage.

Electrical Lead Engineer and Deputy of Field Engineering Manager

EIED, IRAN

09/2006 – 07/2008

EIED, South Pars Gas Development, Phases 9&10 (4 Billion EPC project)

Achievements/Tasks

- Preparation, updating and review load list, single line diagrams, I/O lists, logic diagram, schematic wiring diagram, connection list for 10 substation
- Preparation of TBE for MV, LV and PDCS
- Participating in FAT and SAT of MV and LV switchgears
- Vendor document check and review for PDCS, LV and MV switchgears.
- Update and finalizing of LV and MV switchgears design as per vendor modification.
- Design of temporary power feeders for pre commissioning.
- Reply to contractor electrical queries.
- Review and checking of TQs as deputy of FE manager.
- Participation in site meeting.
- Participation in TFT (Task force Team) for early start up.
- Acting as Field Engineering Manager during rest and vacation of FE Manager

Electrical Designer

EIED, IRAN

08/2004 – 08/2006

EIED, South Pars Gas Development, Phases 9&10 (4 Billion EPC project)

Achievements/Tasks

- Review and comment of all machinery packages P&ID and UCP drawings.
- Design LV and MV switchgears.
- Review of technical proposal and technical evaluation for MV and LV switchgear.
- Power network analysis by ETAP.
- Preparing calculation for transformer, AC/DC UPS and power cables
- Review of PDCS (power distribution and control system) proposal and TBA preparation.
- Vendor document check and review for PDCS, LV and MV switchgears.

Electrical Designer

NRI, IRAN

08/2000 – 07/2004

NRI, Dispatching Center and Updating Substation for Substation and Outage Management

Achievements/Tasks

- Data gathering of distribution network switchgears of Tehran for Substation Automation.
- Revising Control and Measuring circuit diagram of LV and MV switchgears for data gathering.
- Design typical circuit diagram for distribution (0.4 kV) and sub transmission (66 kV) substation.
- Cooperation with SCADA team for evaluation of digital input and output IO in substation.

SKILLS

- *ELECTRICAL DESIGN*
- *PROJECT MANAGEMENT-IPMA ICB4 LEVEL D*
- *LEADERSHIP*
- *ENGINEERING MANAGEMENT*
- *FIELD ENGINEERING*
- *CONCEPTUAL, BASIC AND FEED DESIGN*

- *IEC ,IEEE AND API*
- *MULTIDISCIPLINE ORIENTED*

HONOR AWARDS

Citation from IRAN Oil Minister for South Pars development Projects(05/2008)
National Iranian Oil Company

LANGUAGES

English

Persian(native)

INTERESTS

Football

Genetic Algorithm

Human Resource

CERTIFICATES

IPMA (International Project Management Association) ICB4 Level D-2023

PMBOK Introduction (04/2013 – 05/2013)

Review and understanding of PMBOK

ETAP (08/2011 – 08/2011)

EDUCATION

Electrical Engineering

University of TEHRAN

09/1994 – 02/1999

Thesis

Unit commitment by genetic algorithm for power plants