

Hassan Mohammed Hassan Belal
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Personal profile

I am a mechanical construction engineer "piping engineer" with more than 9 years' experience in mechanical activities (construction work of piping installation, equipment installation and structural installation, pre-commissioning, commissioning and maintenance activities) for large industrial projects such as oil& gas, power stations, petrochemical projects, fertilizers and industrial waste water treatment plants "**Fast track projects**".

Education

2014- 2015 **Pre-Masters**, mechanical power department, Cairo University
Grade: very good **GPA:** 3.1

2008- 2013 **Bachelor of Engineering**, mechanical power department, Tanta University
Grade: **very good** with percentage 78.57 %

Technical Qualification & Certifications

- ▶ **Project Management Professional (PMP)®**, (PMP® Number: **2769018**)
- ▶ **Certified Welding Inspector, CWI**. (Certification no: **19060461**)
- ▶ **ASNT NDT Level II**
 - Radiographic Testing (RT)
 - Ultrasonic Testing (UT)
 - Magnetic Particle Testing (MT)
 - Liquid Penetrant Testing (PT)
 - Visual Testing (VT)

Experience

Apr.2022 – present

Project: **TOBURK OCPP 4 x 185 MW, GT13E2, Libya.**

Client: General Electricity Company of Libya (**GECOL**).

Company: METKA International ltd

Job Title: **Mechanical Engineer (piping + commissioning)**

Job Responsibility:

- Management, supervise and follow-up of sub-contractor work (GT piping and BOP) and construction work reporting to the head management for corrective action if project become behind schedule.
- Provide mechanical engineering support, technical solution and assist in preparing as-built drawings during piping and supports activities.
- Coordinate and help develop piping scopes of work, work packages and construction schedule.
- Follow up all piping activities and confirm that all work has been completed as per applicable procedures, guidelines and quality standard.



- During system turn over walk down, verify that equipment has been installed correctly and completely according to the applicable drawings.
 - Supervise a team of mechanical technician in executing the safe and successful pre-commissioning, commissioning and plant start-up according to commissioning procedure, ITPL and specific setting list for each system.
 - Follow-up activities of air blowing, flushing, calibration for control valves and function test with I&C engineers.
 - Manage, perform, coordinate and monitor the commissioning of the power plant systems (GT and BOP) by arrangement with the commissioning manager.
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During Feb.& Mar.2022

Project: Shutdown of Helwan fertilizers site

Client: Helwan Fertilizers Co. (HFC) – Egypt.

Company: MEGA for construction and Industries

Job Title: Mechanical Team Leader



Job Responsibility:

- Implementation of all activities concerning to replace of 192 primary reformer tubes, replace gas cooler and replace gas chiller under supervision and pre-acceptance from HFC.
 - Review all activities and submitted manpower histogram, detailed job plan and lifting plan include duration for each task and resources in order to maintain all resources to be within project budget.
 - Prepare qualified manpower (engineers, supervisors, welders, riggers and pipe fitters), lifting equipment and tools which used to finish shutdown in record time.
 - Follow up the progress of completion for the work according to HFC technical and engineering section.
 - Hand over all work to HFC.
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Apr.2021 – Feb.2022

Project: Increasing the efficiency of the steam and condensate network in the Unite 21 and Unite 22.

Client: Alexandria Mineral Oils Company (AMOC), Egypt.

Company: MEGA company for construction & Industries.

Job Title: Senior Mechanical Const. (Piping Engineer)



Job Responsibility:

- Review all piping activities and submitted manpower histogram and detailed work schedule for job completion as agreed with the contractor.
 - Manage and lead a team of site engineers and supervisors to ensure proper implementation of all piping activities.
 - Review all drawings and follow as-built with technical office according to site situation before start implementation.
 - Follow up the progress of the piping work at site and workshop (Fit-up+ Welding) to define the weak points and report the daily record of the progress for each activity to the project manager.
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Sept.2019 – Mar.2021

Project: Industrial Wastewater Treatment Plant (IWWTP) With Z.L.D System.

Client: Alexandria National Refinery & Petrochemical Company ANRPC, Egypt.

Company: Aquatech International Corporation LLC

Job Title: Mechanical Commissioning Engineer

Job Responsibility:



- Manage and direct commissioning staff.
- Takeover all system from QC of the construction team and verify that every pipe, device and instrument are in the field as outlined in the approved P&D.
- Verify startup checklist for all equipment before placing it in actual operation according to commissioning procedure.
- Pre commissioning, it includes cleaning of all pipes by different means like air plowing, flushing. Mechanical cleaning of vessels and tanks.
- Commissioning, creating and carrying out test procedures, ensuring that equipment works to its specification "Data Sheet".
- Startup for all equipment according to commissioning procedure.
- Prepare the plant to performance test during it, optimization for the process take place and adjustments for pumps and other equipment occurred.
- Follow up maintenance activities of pumps, motors and equipment during operation according to operation and maintenance manual.

During Jul.2019

Project: Alexfert July Shutdown

Client: Alexandria Fertilizers Co. – ABU QIR, Egypt.

Company: MEGA for construction and Industries

Job Title: Mechanical const. (piping engineer)

Job Responsibility:



- Replacement of 192 primary reformer tubes of ammonia plant.
- Preparing complete study for shutdown (manpower and equipment).
- Coordinate and act as a professional lead in project to site engineers and supervisors to ensure proper implementation of activities.
- Follow up piping activities with site engineers "cutting the old tubes, lifting the new, fit up and welding".
- Follow up insulation activities "install the old insulation and replacement of damage insulation".
- Hand over the primary reformer to AlexFert Company.

Feb.2019 – Jul.2019

Project: Industrial Wastewater Treatment Plant (IWWTP) With Z.L.D System.

Client: Alexandria National Refinery & Petrochemical Company ANRPC, Egypt.

Contractor: Aquatech International LLC

Company: MEGA for construction and Industries.

Job Title: Mechanical const. (piping engineer)

Job Responsibility:



- Review all the projects activities as per the schedule and estimate the need manpower.
- Interaction and coordination with other disciplines internally in projects and with customer.

- Follow up the progress of the construction work to define the weak points.
- Report the daily record of the progress for each activity to the manager.
- Supervise all activities work for piping, supports and equipment for **(IWWTP)** and connecting pipe with the production units.
- Supervise all activities work for **Hot Tapping** and piping connection with in-service lines.
- Handover all systems to the client after clear punch list.

May/2018 – Feb.2019 mechanical const. engineer "piping engineer" at MEGA Company for construction and Industries.

Project: ZOHR ONSHOR DEVELOPMENT "oil&gas project" PHASE II, Egypt.



Job Responsibility:

- Preparing complete study for all piping activities (manpower and equipment).
- Job creation and follow-up of prefabrication and installation activities of piping "fit up & welding" and supports "installation & welding" for loops according to priority and contract specification.
- Follow up the reinstatement of loops after finish hydro test and handover all loops to the main contractor.
- Hand over paratism of piping with pumps to the main contractor.
- Prepare daily progress report to check fit up inches for piping on site.

Mar.2016 – May/2018 mechanical const. (piping + commissioning) engineer" at MEGA Company for construction and Industries.

Project: EL_Burullus/Egypt 4800 MW combined cycle Power Plant.

Job Responsibility:

For combined cycle "HRSG"



- Preparing complete study for all piping activities of HRSG(schedule, manpower, equipment).
- Follow up the erection, fit-up and welding of harps according to WPS.
- Follow up all critical and non-critical piping and pipe supports according to priority and schedule according to contract specification and approved P&ID and isometric.
- Prepare technical solutions for piping and layout disciplines and provide technical support according to customer requirements and specifications.
- Follow up and control foreman and workers activities (pipe fitters and welders).
- Prepare daily progress report to check welding inches for piping in work shop and site.
- During systems walk down, verify that all system has been installed correctly and completely according to the drawing and follow punch list.

- Performing HRSG and BOP piping, pressure tests, chemical cleaning and steam blow regarding to site drawing, specification and schedule under supervision from the vendor.
- Follow up punch list of HRSG and remaining activities of insulation.

For simple cycle module 2 "dual fuel" and module 4

- Follow up all mobilization activities for piping workshop and preparation for fabrication and erection.
 - Preparing complete study for all piping activities of GT (schedule, manpower, equipment).
 - Follow up fabrication and erection of Piping and supports for **Gas Turbine Type "SGT5-8000H" and "BOP"**.
 - Follow up flushing, air blowing and pressure test activities for systems.
 - Follow up firefighting systems automatic and manual (foam-water-co₂).
 - Follow up punch list of simple cycle.
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Apr.2014-Mar.2016 Reserve officer at the Egyptian army

Job Responsibility:

- installation and maintenance of solar power plant, for the band 18 infantry mechanic, Al-Qantarah Garb, Al Ismailiyah, Egypt.

Jun-Aug.2014 Trainee, MEGA Company for constructions and industries
Project: Giza North 1500 MW Combined Cycle Power plant.

Nov.2013-Apr.2014 Student at the Faculty of reserve officers, Faid, AL Ismailiyah, Egypt.

Skills

Computer Excellent user of **Microsoft office** and **internet applications**.
Excellent user of **Ansys fluent, solid works, Autocad-2d, Matlab**.
Drawing of piping isometric and as built on auto cad.

Language Arabic, Mother tongue.
English, intermediate.
- I have taken the BULATS course, Business Language Testing Service, which is developed by the University of Cambridge ESOL Examination "Cambridge ESOL".

References available upon request.