

# 105721-MEC-1CMSY-E-2015

## Mechanical Commissioning & Start-up Engineer

Holds a B. Sc. in Mechanical Power Engineering and has over 3 years hands-on experience working in construction, maintenance, commissioning and start-up.

### PERSONAL DATA

Nationality : Egyptian  
Birth Date : 14/11/1988  
Gender : Male  
Residence : Mansoura

### EDUCATION

: B. Sc. in Mechanical Power Engineering, Helwan University, 2015  
: Diploma of Biomedical Technical Institute, Health Technical Institute, Mansoura, 2006-2008

### LANGUAGES

Arabic : Native Language  
English : Very Good

### COMPUTER SKILLS

: Windows, MS Office, Internet  
: Solid Works advanced 2D, 3D, assembly and flow simulation  
: CFD Analysis by ANSYS Software  
: Autodesk AutoCAD

### TRAINING COURSES AND CERTIFICATIONS

: Emerging Learners Elementary Certificate, C1 on Common European Framework of Reference (CEFR), at American University in Cairo.

### CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Jan. 2018 till now  
**Employer** : ORASCOM & GE Consortium  
**Project** : West Damietta Power Plant  
**Job title** : Mechanical Commissioning & Start-up Engineer for BOP equipment and HRSGs  
**Job Description** :

- Pre-Commissioning and Commissioning of HRSG & Turbine as per P&ID.

- Inspections of steam drum internals.
- Pre-Commissioning of Steam, Water & Auxiliary Piping as per IBR Standards.
- Drum and Main steam, safety valve internal inspection.
- Maintenance for NRV main steam valves.
- Pre-Commissioning check of fans, Pumps, Piping and its supports, Duct supports.
- Inspections of Main steam lines and HRSG supports inspection.
- Carry out Pre-HRSG & Main HRSG chemical cleaning.
- Carry out Steam Blowing of HRSG as per standard.
- Carry out hot cleaning of ACC as per standard.
- Inspection and maintenance for NRV, control, motorized, globe, gate, butterfly and LCV valves.
- Pre-Commissioning and Commissioning of Sump Pumps.
- Co-ordination with Technical drawings / Design department for necessary changes in routing of piping.
- Operating the boilers up to customers' satisfaction and hand over the same with all technical specifications.
- Start-up and commissioning of (feed water, closed cooling, condensate, sump, circulation, stroke pumps).
- Maintenance of all these pumps.
- Supervisor and monitoring the operation of Thermal Power Plant through DCS operation.
- Coordinating with all module Shift Engineers for smooth operation of the unit.
- Handling Emergency of the unit, trouble shoot the problems and to take remedial actions.
- Coordinating with the field operation to ensure the proper functioning of the system.
- Re-install of all pipeline systems for commissioning.
- Pumps alignment.
- Pigging and cleaning, Pipeline cleaning and gauging, Pipeline Hydrostatic testing, Chemical cleaning, Pipeline drying and Pipeline nitrogen purging.
- Fan cooler system final commissioning.
- Diverter damper final commissioning.

<b>Dates</b>	:	From Jan. 2017 till Dec. 2017
<b>Employer</b>	:	ORASCOM & GE Consortium
<b>Project</b>	:	West Damietta Power Plant
<b>Job title</b>	:	Mechanical Construction Engineer
<b>Job Description</b>	:	<ul style="list-style-type: none"> <li>• Erect and inspect 4 Heat Recovery Steam Generator (HRSG) and finish all mechanical activity.</li> <li>• Erect and inspect diverter damper.</li> <li>• Erect all insulation kit gasket between underground and above ground pipes.</li> <li>• Checking technical designs and drawings to ensure that they are followed correctly.</li> <li>• Supervising contracted staff.</li> <li>• Ensuring projects meet agreed specifications, budgets or timescales.</li> </ul>

- Providing technical advice and solving problems on site.
- Preparing site reports and filling in other paperwork.
- Ensuring that health and safety and sustainability policies and legislation are adhered to.
- Note: when my Construction Manager see my efforts he transferred me to commissioning.

**Dates** : From May 2015 till Dec. 2016

**Employer** : Lafarge Holcim, Ain Sokhna (Egypt)

**Job title** : Mechanical Maintenance Engineer

**Job Description** :

- Fabrication and erection of steel oil well cement silo with 12 m diameter and 55 m height with all component (collect bin, reject bin, steel structure,..... etc.).
- Fabrication and erection of Hot Gas Generator for coal mill to increase the out let flow rate (capacity) of mill.
- Erection of 1000m coal pipeline (14") along five coal silos for preheaters including installation of screw conveyor, fuller-kinyon pump, compressor, two way pneumatic gates and pneumatic shut off valves.
- Change inner cone of major coal silo by new cone with new design including rotary, chutes, pneumatic and manual gates.
- Raw mill repair: change diaphragm mesh screen, change all the spacer inside the diaphragm, change inlet chute plates, change 25 raw mill shell plates, change raw mill lifter plates (pos.1, pos.2, pos.3), lifter plates with scope heads inside diaphragm, change mill outlet trunion plates, change diaphragm plates, change bar plates for diaphragm sector.
- Weld five major cracks of tertiary air damper 10 cm thickness.
- Repair and install Killen door.
- Fabrication and installation of cleaning chute throw seven floors of preheater (this process take 15 day).
- Repair chute of crusher stone after sudden falling down on belt drive (this process take 2 days).
- Change 300-m2 sheet metal at preheater (pre-calciner, smoke chamber, material chute inlet).
- Repair clinker conveyor by changing links and buckets.