

102085-MEC-145CY-E-2008
Lead Mechanical Rotating Engineer

Holds a B. Sc. in Mechanical Power Engineering and has over 14 years' experience in construction of the mechanical equipment, especially rotating equipment and boilers. Has working knowledge of industry codes and standards such as ASME and API, such as API-STD-610, 617, 618, 672 and 686 for rotating and static equipment.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/10/1986
Gender : Male
Marital Status : Married
Residence : Alexandria

EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria University, 2008

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: AutoCAD 2D & 3D
: MS Project
: Primavera
: Solid Works

TRAINING COURSES AND CERTIFICATIONS

: Project Management Professional (PMP), Project Management Institute (Sep. 2020).
: Certified API SIRE (Source Inspector for Rotating Equipment) (Apr. 2022).
: Reciprocating compressor O&M (Mitsubishi MES) (Feb. 2019).
: Vibration training course – ISO Cat I (Jan. 2019).
: Sundyne pump training (Dec. 2018).
: Centrifugal compressors and surge effect (Elliot Ebara) (Dec. 2018).
: SKF Bearing basics.
: SKF vibration.

- : SKF Lubrication basics.
- : Life Saving Rules.
- : Log out tag out procedure LOTO.
- : Task Risk Assessment.
- : Confined Space.
- : Working at Heights.
- : H2S effects & detection.
- : Permit to Work.
- : ASME B31.3 process piping training course (Feb. 2012).
- : NDT: ASNT Level II UT & ASNT Level II RT (SNT-TC-1A).
- : ICDL (Jun. 2007).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Apr. 2022 till now
- Employer** : Worley
- Project** : SOPC Coker Complex Rehabilitation Project
- Job title** : Lead Mechanical Rotating Engineer PMC
- Job Description** :
- PMC Lead Rotating Engineer for engineering phase.
 - Review and approve within the specified mutually agreed durations, the EPC Contractor key engineering documents for operability, ease of maintenance, safety, environmental & quality standards and compliance with design requirements and Licensor PDP.
 - Review and approve the Project Material Requisitions for equipment & materials.
 - Attend the pre-award meeting with the successful Vendors and verify what has been agreed on through the meeting for major equipment.
 - Review key Vendor drawings which will be agreed between Parties.
 - Attend all Project technical sessions by the EPC Contractor such as: Design Review Meetings, 3D Model, Review Meeting, Constructability, HAZOP, HAZID.
 - Review the EPC Contractor's proposals for any deviation from the Project Standards.
 - Resolve any conflict between the standards, codes or specifications detailed in the Project Specifications.
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- Dates** : From Apr. 2021 till Apr. 2022
- Employer** : Technip Energies
- Project** : Middle East Oil Refinery (MIDOR) Expansion Project
- The scope of the project is focused on the expansion of the Plant Capacity from 100000 BPSD to 160000 BPSD whilst maximizing distillate production and meeting specified product qualities. The project includes revamping existing units and new units. Revamping of existing hydrocracker unit, NHT-CCR unit and Delayed Coker unit and new units include 2nd stage hydrocracker unit, Distillate hydrotreater unit, CDU- VDU, Hydrogen plant in addition to upgrading several utilities units.
- Job title** : Senior Rotating Engineer

Job Description :

- Review VDDR vendor prints and data sheets submitted from Suppliers and ensure are complying with Owner / project specifications and applicable international standards.
- Interacting with suppliers/vendors for technical clarifications and with the owner for his concerns.
- Participate in meeting with the client, suppliers for technical clarifications and design review.
- Managing non-conformance reports and observations and verifying required disposition.
- Performing site inspections for mechanical equipment.
- Ensure that the Subcontractors are implementing and following the project quality plan and inspection and Test Plans.
- Monitor and administer quality performance through to achieving the mechanical completion.
- Initiate Surveillance reports for technical site concerns.

Dates : From Jul. 2019 till Apr. 2021

Employer : Worley

Project : ASORC Naphtha Complex Project, \$ 89.28 M
ASORC Naphtha complex has been designed to produce high octane number Isomerate (RON 87) & Reformate (RON 104) by using AXENS technology and the complex includes four Process units Naphtha Hydro-treater unit, CCR reforming units. (Reforming-Reaction unit and Regeneration unit) and C5/C6 Isomerization unit.

Job title : Lead Mechanical Engineer PMC

Job Description :

- Review vendor prints and data sheets submitted by EPC contractor and ensure are complying with contract, project specifications and Licensor requirement (Axens).
- Interacting with client for approval of deliverables and with EPC on all technical issues, change / concession requests.
- Review Contractor method statements for construction and commissioning activities.
- Review technical deviation memos and change requests submitted from Contractor and decide the approval based on Licensor requirements, project scope of work and specs and applied international standards.
- Ensuring successful completion of mechanical deliverables and monitoring of project performance for mechanical tasks and schedules.
- Review and approve the Construction Site Inspection and Test Plans (ITPs) issued by EPC Contractor and witnesses major activities selected by PMC to ensure that the construction work done properly and according to Specification and Drawings.
- Ensure that the EPC Contractor is implementing and following the project quality plan and inspection and Test Plans.
- Monitor and administer EPC Contractor quality performance through to achieving the Provisional Acceptance.
- Initiate Non-Conformity Reports (NCR) for any activity not complying with the scope of work, project quality plan, programs, applied procedures and governing codes.
- Participate in systems and subsystem walkthroughs and prepare punch list for systems deficiencies.
- Attend / witness site inspections for rotating and static equipment

according to relevant ITP.

- Attend / witness equipment mechanical running test MRT and motors solo run test.
- Attend / witness lube oil flushing and pre-commissioning special cleaning for critical systems.
- Follow up detailed internal installation with Licensor and vendors for CCR reactors and distillations columns (stabilizers, stripper and splitter).

Dates	:	From Jan. 2015 till Jun. 2019
Employer	:	GS Engineering & Construction
Project	:	Hydro-Cracker Plant Project ERC - Mostorod ERC project has been designed to utilize feedstock from CORC existing units and produce EU V grade diesel and ATA worldwide specifications jet fuel. ERC project consists of eight process units: Vacuum distillation unit VDU, Hydrocracking unit HCU, Delayed coker unit DCU, NHT/CCR unit, Diesel hydro-treating unit DHT, HPU, SWS and SRU.
Job title	:	Senior Mechanical Engineer (Rotating equipment)
Job Description	:	<ul style="list-style-type: none">• Reviewing detailed manufacturing drawings, including cross-section drawings, calculations, data sheets and other VDDR.• Single point coordination with other disciplines, clients, vendors and site on all technical matters for rotating equipment.• Create work breakdown WBS for construction activities.• Participate in coordination, installation, pre-commissioning of rotating equipment including:<ul style="list-style-type: none">- 12 make-up and recycle gas reciprocating compressors (Mitsui).- 2 x gas centrifugal compressors (ELLIOTT EBARA).- More than 200 pumps different types (OH2, OH3, BB2, BB3, BB5, VS3, VS6, OH6) and different blowers.- Coke handling system, bucket crane and Loading Silos at delayed coker unit.• Arrange with heavy lifting sub-contractor (Mammoet) for lifting plan documents and review rigging study and comment.• Erection of Decoking system (Ruhrpumpen design), Jet water pump BB5 10 stages.• Prepare critical lifting plan for tandem lifting and critical lifting.• Prepare method statement for installation of rotating and packaged items.• Prepare execution plans for air coolers, fired heaters, compressors including (man power plan, material handling, method statement, cranes and equipment plans, handover plan).
Dates	:	From Aug. 2014 till Dec. 2014
Employer	:	SAMSUNG Engineering
Project	:	Hydro Yanbu Power & Desalination Plant Ph. 3 - Saudi Arabia
Job title	:	Site Mechanical Engineer (Rotating equipment)
Job Description	:	Prepare work package for boilers erection and site rotating equipment including 10 feed water pumps 10 stages.

Dates : From Aug. 2012 till Aug. 2014
Employer : Doosan Heavy Industries and Construction
Project : El Ain El Sokhna Supercritical Thermal Power Plant (Units 1 & 2), 2x650MW Gas/Oil Fired Units, CP-105
Job title : Site Mechanical Engineer (Rotating equipment)
Job Description :

- Responsible for construction and pre-commissioning works for mechanical equipment in the 2 supercritical boilers.
- Erection of Gas Air pre-heaters.
- Installation of Forced draft fans and gas recirculation fans.
- Installation of boiler circulation pumps.
- Responsible for lube oil flushing for lubrication oil systems and chemical cleaning.
- Review and comment on method statement submitted by sub-contractor.
- Applying leveling, centration and alignment for rotating equipment.
- Carry out preservation for rotating equipment.
- Prepare test package for handing over.
- Prepare punch lists, inspection reports and work permits.
- Prepare lifting plan for heavy equipment and critical lifting.

Dates : From Jan. 2012 till Aug. 2012
Employer : Danieli Engineering & Systems
Project : EZZ Rolling Mills
Job title : Site Mechanical Engineer (Rotating equipment)
Job Description :

- Manage construction works for water treatment unit and CO2 unit.
- Prepare punch list and test package.
- Applying leveling, centration, fixation and alignment for 36 pumps and 2 centrifugal compressors.
- Responsible for Reformer installation, cooling towers and feed pump, piping works for reformer, Air cooled heat exchanger.

Dates : From Jun. 2010 till Jan. 2012
Employer : I.E.M.S.A
Project : Egyptian Nitrogen Products Company ENPC (Fertilizers) - Damietta Free Zone Area
Job title : Site Mechanical Engineer
Job Description :

- Manage construction works for mechanical equipment in 2 steam boilers 350MW.
- Prepare time schedule for construction works.
- Following up piping fabrication and erection works.
- Prepare punch list.
- Prepare test package documents for hydro test.
- Prepare as built drawing and lifting plans.

Dates : From Sep. 2008 till Apr. 2009
Employer : SIMED International
Project : Dutch Grant Project
Job title : Site Mechanical Engineer

- Job Description** :
- Following up fabrication and erection works for firefighting system in 3 areas.
 - Following up installation of oxygen plant and cryogenic tanks and manifold systems.
 - Prepare as built drawings.
 - Following up installation of chilled water piping system in 2 areas.

- Field of experience** :
- Vast experience in Engineering, construction and commissioning activities for rotating equipment in oil & gas projects according to applicable standards, projects specifications and Suppliers' recommendations.
 - Generate / Manage / Review all engineering deliverables, PFDs, P&IDs, Specifications, VDDR, Datasheet, TBE, MRP, Vendor prints, ITP, proceed testing, validate test results, HAZOP review sheets, scope change, and proceeding Construction supervision as well as Commissioning and start-up.
 - Detailed knowledge and study of specific international standards such as:
 - ASME VIII, Div.1 Appendix 2, 3, 4, 5, 6, 7 and 8 and UG parts, UCS 56 PWHT.
 - ASME IX.
 - API 610, 611, 612, 614, 617, 618, 619, 660, 677, 682 and 692.
 - SSPC-SP2 (Surface preparation and coating).
 - ASTM A703, 788.
 - Communication and leadership skills to maintain and monitor project stakeholder management to get continuous support for project success.
 - Professional on CAD drawing 2D and 3D Solid works and design of mechanical components.
 - Experience in lifting work for heavy and critical lifting based on international standards. Performing lifting calculations and selecting suitable lifting gears for Critical lifting and preparing all related documents of rigging work (TRA, method statement, lifting drawing and certificates) and professional in AutoCAD drawings.