

PAUL KENNETH B. OBEDOZA

Mechanical-Rotating/Package Equipment Engineer (Lead)
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SYNOPSIS

- a. More than 15 years of experience in engineering industry engaged in FEED, EPC, EPCM, and EPCC contract for Oil & Gas and environmental sector with extensive technical knowledge and on-hand experience on any Rotating equipment and other mechanical equipment with proven methodology in engineering execution.
- b. With good management skill and highly effective in leading subordinates towards proper execution of engineering works through proactive approach, such as, conducting lectures or coaching to maintain common understanding among members.
- c. Technical knowledge and on-hand experience on refrigeration and air conditioning system/HVAC, electrical and electronic, hydraulic and pneumatic, and various automotive vehicle trouble shooting/maintenance/repair.
- d. Well versed in the design, application and installation of various rotating equipment such as compressors, pumps, fans or blowers, agitators, and drivers for Oil & Gas processes, especially for LNG facilities and other industrial uses, and have experienced in commissioning, start-up and troubleshooting.
- e. Well versed in compression package equipment with aeroderivative or frame type Gas Turbine tandem with steam turbine or electric motor as a driver; helper or starting unit.
- f. Well versed in various international codes and standards (API, ANSI/ASME, etc) and familiar with the design and practices of other Oil & Gas industries like the Exxonmobil GDP, Shell DEP, Chevron CES and Petronas PTS.
- g. An electronic enthusiast that helps easily understands the instrumentation's function and its uses on compressor and other rotating equipment.
- h. Well versed in compressor controls or operations and logics, such as, capacity control or performance control using various modes like IGV, speed variation, throttling at suction and discharge, start/stop operation and machine protection like anti-surge and machine monitoring system with deep knowledge in vibration analysis.
- i. Have extensive experience in preparation of documentations or deliverables for rotating equipment, such as, mechanical data sheets, technical specifications, requisitions, procedures, etc.
- j. Equipped with effective methodology in performing technical review and analysis of equipment data, and capable of providing technical recommendations.
- k. With effective practice in managing corporate and project data and system procedures or work flows for specific purpose.
- l. With effective communication to related disciplines and have the ability to interact with multi-cultural environment.
- m. With actual experience in installation, construction, assembly and precommissioning/commissioning of various rotating equipment and package equipment and is able to perform troubleshooting and repair.
- n. Able to provide technical solutions in practical and direct approach.
- o. Well versed in computer software such as the Microsoft Office and other Windows Software, smart plant review and AutoCAD 3D/2D.

WORK EXPERIENCE

1. Company: **JGC Asia Pacific Pte. Ltd.**
Nature of Company: Oil/Gas/Petroleum/Chemical Industry (FEED-EPCC Contractor)
Position: **Lead Rotating / Package Equipment Engineer**
Duration: Jul. 2018 – Present
Location: Mapletree Business City, Singapore



JOB DESCRIPTION:

- a. Independently perform deliverable preparation and works for compressors, pumps and other package equipment, such as, data Sheet, specification, requisition or inquiry documents, evaluation, provide report for technical basis, arrange meetings with Vendors, review of vendor documents, provide input/output data and simultaneously work with other disciplines, and perform other functions as necessary.
- b. Lead / support the study for various projects in terms of selection of compressors and pumps based on Client requirements, service and operating philosophy.
- c. Independently prepare work plan, manpower, manhour, and prepare schedule for overall planning.
- d. Lead the interface work with other Disciplines, especially instrument and electrical, for control and operation philosophy as package of equipment; compressor & anti-surge or pumps. Provide technical assessment on inspection for QC related matters.
- e. Perform and provide technical support on the development of feasibility studies, operations, HAZOP, SIL/SIS, RAM and other similar activities.
- f. Participate in site surveys and provide support on overall planning of the project course.
- g. Support, attend and evaluate i/FAT and provide report and recommendations to Client and other disciplines.
- h. Support construction work for compressor; from material receiving to installation and field testing or pre-commissioning/commissioning.

PROJECT INVOLVEMENT and EQUIPMENT HANDLED:

- a. SINGAPORE REFINING COMPANY PTE LTD. (SRC).
 - Wet Gas Compressor (Hitachi) driven by 6.5MW steam turbine (Shin Nippon)
 - API Pumps; OH2 and BB5 pumps for hydrocarbon service
 - Motorization of 14MW Main Air Blower (MAN Turbo)
 - Motorization of 4.5MW Recycle Gas Compressor (Hitachi)
- b. SINGAPORE REFINING COMPANY PTE LTD. (SRC) PROPYLENE PURIFICATION PROJECT.
 - Propylene Compressor (DH3 BHGE) driven by 3.7MW electric motor
 - API Pumps; OH2, BB5 and VS6 pumps for LPG service.
- c. SINGAPORE REFINING COMPANY PTE LTD. (SRC) RCC REVAMP 2020 PROJECT.
 - API BB5 pump for Naphtha service and OH2 for Cooling Tower Water pump.
- d. SHELL MALAYSIA BHD (SMDS) PLANT TURNAROUND FOR 2019 & DBN2 PROJECTS.
 - Reciprocating Compressor and steam turbine driven compressor.
 - Fan JIS standard for Flue Gas Service (EBARA Fan)
 - API Pumps; OH2, OH5 for hot oil and tempered water service accordingly.
- e. INFINEON SINGAPORE PTE LTD for REACTOR RELOCATION PROJECT
 - FEED works involved for all rotating equipment and package equipment.
- f. Tender involvement from other Clients, such as, SLNG, Air Liquide, Arkema and Exxon.



2. Company: **Envipure Pte. Ltd.**
 Nature of Company: Environmental Engineering (water & wastewater and odor control)
 Position: **Mechanical Engineer / Project Engineer**
 Duration: Feb. 2016 – Jul. 2018 (2.5 yrs)
 Location: Sembawang Singapore

JOB DESCRIPTION:

- a. Prepare Datasheet and Material Requisition for rotating equipment, package equipment and other mechanical equipment.
- b. Perform hydraulic calculation for sizing upstream and downstream equipment.
- c. Review vendor technical and commercial proposals, and provide recommendations.
- d. Review vendor data and drawings.
- e. Review layouts, P&ID, PFD, Piping isometrics and other documentations and provide inputs.
- f. Attend inspection and test at vendor shop overseas and perform other quality activities.
- g. Provide support to work prioritization and plan for multiple projects.
- h. Perform as Project Engineer, Piping Engineer, Commissioning Engineer and other functions to assist overall project works.

PROJECT INVOLVEMENT:

- a. **TUNG HSIAO POWER PLANT**, Taiwan by CTCL/Gibsin Contractor for Taiwan Power Corporation.
- b. **PACKAGE 14 of PETRONAS RAPID Project**, Pengerang Malaysia by Fluor-Technip Joint Venture
- c. **JRC Water Treatment Facility**, Jurong Singapore by Hyundai

3. Company: **Chiyoda Philippines Corporation**
 Nature of Company: Oil/Gas/Petroleum/Chemical Industry (FEED-EPCC Contractor)
 Position: **Lead Rotating Equipment Engineer**
 Duration: Nov. 2008 – Feb. 2016 (7.5 years)
 Location: Mandaluyong, Philippines



HOME BASED JOB DESCRIPTION: ENGINEERING WORKS

- a. Select Compressor and Pump type based on the given process condition.
- b. Select drivers (variable/fix speed application) such as electric motor, diesel motor and turbo dynamic motors like the gas turbine and steam turbine.
- c. Perform In-house equipment cost and weight estimation, and layout for space and elevation requirements.
- d. Prepare Datasheet, Material Requisition and Specification for Pump, Compressor and Driver.
- e. Review and prepare technical bid analysis and provide technical recommendation.
- f. Review of Vendor/Supplier design documents, drawings, data, etc.
- g. Provide basic engineering design and calculation/reports.
- h. Coordinate with other Discipline, Client and Vendor for inquiries and clarification.
- i. Review and provide input to design documents from other discipline such as process data sheet, P&ID, PFD, MSD, piping, structure information drawing, foundation drawing, electrical layout, 3D model, etc.
- j. Overall project Lead Engineer and person in-charge for planning, preparation of documentations, control & monitoring and execution of work activities in accordance with ISO requirement.
- k. Provide estimation of manpower/manhour requirement based on the scope of work and volume.
- l. Provide technical support and training/coaching.
- m. Prepare, maintain and develop company engineering work procedures or manuals for future use.

OVERALL PROJECT INVOLVEMENT AND HIGHLIGHTS:

- a. **CAMERON LNG EPC Project**, Hackberry Louisiana, USA (As **Lead Engineer** in Manila Office)
Equipment involved: (*Assigned at CB&I Houston, Texas, USA*)
 - ANSI/API Pumps which include pump in cryogenic service.
 - b. **PNG LNG Project of Exxonmobil**, Papua New Guinea (As Support Engineer in Manila Office and Field Engineer at Papua New Guinea)
 - GE Main Refrigerant (MR) Compressor string (Methane & Propane) with PGT LM2500+G4 DLE aero-derivative gas turbine.
 - SIEMENS LP/HP BOG Compressor with ABB electric motor.
 - JSW (Japan Steel Works) Reciprocating low pressure fuel compressor.
 - MHI (Mitsubishi Heavy Industry) high speed centrifugal high pressure fuel compressor.
 - API & non-API pumps; cryogenic service, ethane and propane transfer service, Oily collection service, High-speed and proportioning Pumps for dosing service.
 - c. **ICHTHYS LNG Project (IGL) of INPEX**, Darwin of Blaydin Point Australia (As **Lead Engineer** in Manila Office)
 - Centrifugal Pumps (API and Non-API)
 - Centrifugal Compressors (LNG BOG and Propane BOG Compressor)
 - Air Compressor (Screw and Integrally Geared Centrifugal Compressor)
 - d. **TNH Project** (Taganito Hydrometallurgical), Surigao, Philippines (As Lead Engineer in Manila Office)
 - Non-API type, Non-API Fans and package integrally gear screw compressor.
 - e. **Browse LNG (B2K) Project of Woodside**, James Price Point, Australia (As Support Engineer in Japan Headquarter)
 - Main Refrigerant (MR) LP/HP Compressor string (Methane & Propane) with PGT aero-derivative.
 - BOG Compressor
 - f. **Barzan Gas Project of Rasgas, Qatar Raslaffan** (As Support Engineer in Manila and Project executed as Support Engineer at Japan Office for pre-EPC work)
 - Residue Gas Compressor with GE Frame-5 Gas Turbine driver.
 - API pumps.
 - g. **Yamal LNG Project** Russia, **Golden Pass LNG Project** Canada. (As Support Engineer) and **Shell** Philippines.
 - API pumps and screw compressor.
4. Company: **Chiyoda-JGC Joint Venture** (Seconded by Chiyoda Philippines Corp.)
 Project: PNG LNG Project (Construction Site) by Exxonmobil
 Nature of Company: Oil/Gas/Petroleum/Chemical Industry (EPCC Contractor)
 Position: **Field Rotating Equipment Engineer**
 Duration: Mar 2013 to Jun 2014
 Location: Papua New Guinea



JOB DESCRIPTION: FIELD/CONSTRUCTION WORKS

- a. Responsible for site engineering, construction/installation and mechanical running of compressors and pumps.
- b. Perform pre-commissioning activities such as lube oil flushing and provide laboratory analysis for mineral oil and synthetic oil system, air blowing, hydro testing and functionality test.
- c. Inspect installation and mechanical completion of compressors, pump skids, gas turbines and auxiliaries, and prepare documentations such as the Site instruction and Field Design Change, and provide report in a continuing basis.
- d. Perform piping & shaft alignment inspection of compressors and pumps.
- e. Responsible of performing nitrogen running or commissioning of compressor strings to test and verify mechanical stability, performance, functionality and logics for instruments.

- f. Responsible for communicating work instruction to mechanical construction team, sub-contractor, supervisors and other disciplines.
- g. Coordinate with client, other disciplines and subcontractors for design and construction issues.
- h. Prepare field material requisitions for outsourcing temporary and permanent materials.
- i. Prepare Site Surveillance Report for any damages and shortages.
- j. Conduct preservation inspection for equipment.
- k. Organize walkthrough with client and prepare completion certificates of equipment readiness for handover.

Equipment handled from installation/assembly/construction to mechanical running/dynamic commissioning:

- i. GE PGT LM2500+G4 DLE Aero-derivative gas turbine driven Compressors (10 strings) for Main Refrigeration system (Methane and Propane) with Waste Heat Recovery Unit.
- ii. High speed centrifugal compressor with gear unit for High Pressure Recycle Gas service.
- iii. LP/HP Centrifugal compressor for Boil-Off-Gas (BOG) recovery service.
- iv. Reciprocating Compressor for Low Pressure Fuel Gas service.
- v. Pumps for cryogenic LNG service, ethane and propane transfer service, Oily collection service, dosing service, and other API & non-API Pumps.

5. Company: **Chiyoda Corporation** (Seconded by Chiyoda Philippines Corp.)
 Nature of Company: Oil/Gas/Petroleum/Chemical Industry (FEED-EPC Contractor)
 Position: **Rotating Equipment Engineer**
 Duration: Oct. 2010 to Sep 2011
 Location: Yokohama, Japan



JOB DESCRIPTION: ENGINEERING WORKS

- a. Prepare Datasheets and Requisitions.
- b. Prepare technical and commercial bid evaluation of compressor and pumps.
- c. Attend shop inspection.
- d. Coordinate design issues and design inputs from other disciplines.

NON-FORMAL EMPLOYMENT BACKGROUND (SELF PROPRIETOR)

6. Company: Self Proprietor
 Nature of Company: Construction/Building/Contractor/Service
 Position: Co-owner / Designer/ Supervisor
 Duration: Beginning of 2003 to Mid of 2007
 Location: General Santos City, Philippines

JOB DESCRIPTION:

- a. Overhaul any 4-stroke (diesel and gasoline) and 2-stroke gasoline engine, gear box transmission (manual and automatic of synch type), alternator, starter, fuel injection, water pump, AC compressor, differentials, hydraulic and pneumatic system and other automobile components.
- b. Involve in Cold Storage Plant Design and Site Installation. Supervise installation: motor, compressor, piping/tubing, heat exchangers (shell & tube, and fin type) and insulation panel.
- c. Involve in refrigeration and air-conditioning design and installation.
- d. Repairs and troubleshoots mechanical/electrical/electronic equipment.
- e. Repairs and troubleshoots any type of rotating equipment, like, centrifugal and reciprocating pumps/compressors, electric motors (stator/rotor rewinding and bearing replacement), etc.
- f. Experienced maintenance work with gas turbine (Pratt and Witney), Jet propulsion Gas Turbine, i.e. turbo jet engine, turbo Fan engine and turbo Prop engine.

SEMINARS, TRAININGS, LICENCES AND CERTIFICATIONS:

Date	Particulars/Course Title
2016 -2022	Various seminars from Vendor for rotating equipment
Sep 2015	Corporate Leadership Training
2013/2019	Site Safety Induction (CJJV HSES Induction) Training
	Job Safety Analysis Training
	Confined Space Entry and Working at Heights Training
	Commissioning Transitional Training
	Supervisor leadership Training
Aug 2010	P&ID Training
	Heavy Lifting Preparation Training
	Compressor selection (Turbo-A)
Jul 2010	Personal Enhancement Training
May 2010	ISO 27001:2005 ISMS (Information Security Management System)
Apr 2010	Values and Teambuilding Workshop Seminar
Jan 2010	ISO 9001:2000 (Quality Management Awareness Seminar)
2008	Registered Mechanical Engineer (0070132)
2006	Seminar on Industrial Pollution Control
2001	TESDA, Automotive Mechanic Training.

EDUCATION

Education Level:	Bachelor's / College Degree
Education Field:	Engineering (Mechanical)
Course:	Bachelor of Science in Mechanical Engineering
School/University:	Mindanao State University
Location:	General Santos City Philippines
Date:	Jun 2001 - Apr 2007

