

PROFILE

NATIONALITY : **FILIPINO**

DATE OF BIRTH : **23 NOVEMBER 1980**

JOB CLASSIFICATION : **ENGINEER/ DESIGNER**

PRIMARY DISCIPLINE : **PIPING/MECHANICAL**



Summary

Sixteen (16) year total of wide professional experience in local and international occupation in the fields of **Precision Machining, Engineering, Design, Consulting, Installation, Construction, Turnaround, Shutdown, Inspection, and Maintenance**. Worked with various projects pertain to manufacturing, fabrication, petrochemical, oil & gas, wastewater & water treatment plant, cross-country piping and offshore piping installation. Primarily responsible in the Mechanical/Piping team for the execution of the project activities related to piping design and layout, equipment positioning, engineering calculations, material specifications, material take-off, procurement, Static FRP & Metal Tank Inspection, Project execution, Site construction management and Field Installation supervision utilizing the applicable industry standards and best practices.

Software Skill Set

- AUTOCAD
- AVEVA E3D
- Plant Design Management System Software (PDMS)
- Bentley MicroStation
- Bentley Auto pipe
- Caesar ii Stress Analysis

Trade Skill Set

- Piping Design, Layout, and Isometric Drawing
- Plot Plan Development, Unit/Area Plot Plan, & General Arrangement Drawing
- Material take-off (MTO) & Bill of Quantities (BOQ)
- Project & Site Construction Management
- Field Installation Supervision
- FRP Tank & Pipe Installation, Repair and Lamination
- HDPE Pipe Installation (onshore and offshore)
- Equipment Installation and Positioning
- Piping Fabrication and Installation
- Machine Shop

PROFILE

PROJECTS

Project Name: Replacement of FRP H₂S Scrubber – Coral Bay Nickel Corporation Thru UTPC

Location: Rio Tuba Export Processing Zone, Brgy, Bataraza, Rio Tuba, Palawan, Phils.

Scope of Work: Installation of New Scrubber & FRP Lamination of Gas Inlet and Outlet Ducting Line

Calendar Days: Seven (15)

Photos:



H₂S Scrubber Tank Upper Half Removal



H₂S Scrubber Tank Bottom Half Removal



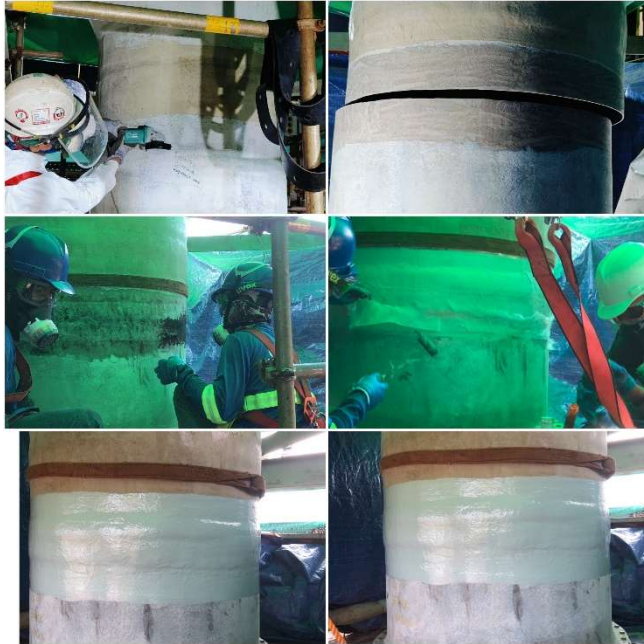
New H₂S Scrubber Tank Installation



Gas Inlet Ducting Cutting and Lamination

PROFILE

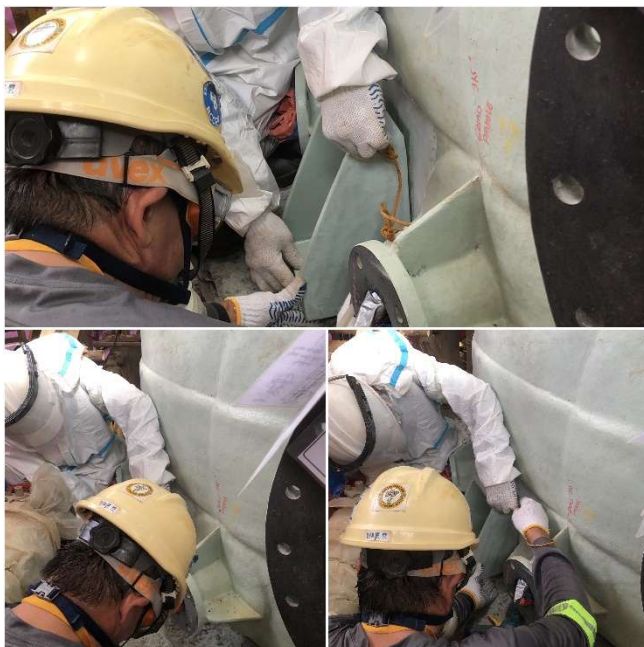
Continuation Photos: Replacement of H2S Scrubber – Coral Bay Nickel Corporation Thru UTPC



Gas Outlet Cutting and Lamination



Gas inlet Flange Connection Lamination



H2S Scrubber Tank Lug Fit Up



H2S Scrubber Tank Lug Lamination

PROFILE

Project Name: FRP Rehabilitation and Repair of H2S Scrubber – Coral Bay Nickel Corporation Thru UTPC

Location: Rio Tuba Export Processing Zone, Brgy, Bataraza, Rio Tuba, Palawan, Phils

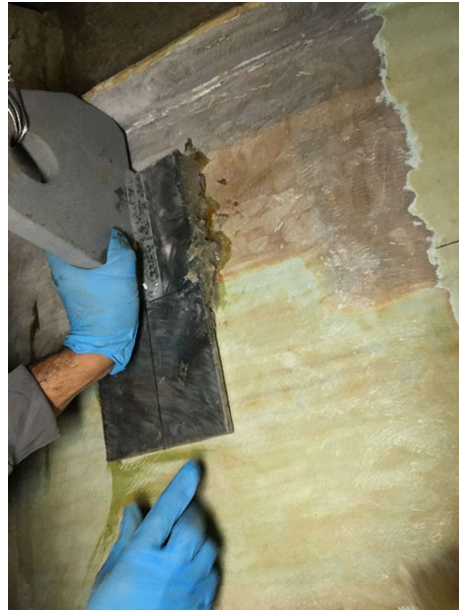
Scope of Work: Lifting Lug Installation

Calendar Days: Seven (7)

Photos:



Lifting Lug Positioning to Scrubber Tank Shell



Lifting Lug Fit-Up to Scrubber Tank Shell



Lifting Lug Lamination to Scrubber Tank Shell



Lifting Lug with Top Coat

PROFILE

Project Name: WWTP & WTP TANKS INSPECTION – THERMA VISAYAS INC. Thru UTPC

Location: Brgy., Bato, Toledo, Cebu, Phils

Scope of Work: General Inspection and Survey of Steel and FRP Tanks (22 Steel & 13 FRP tanks)

Calendar Days: Fifteen (15) days

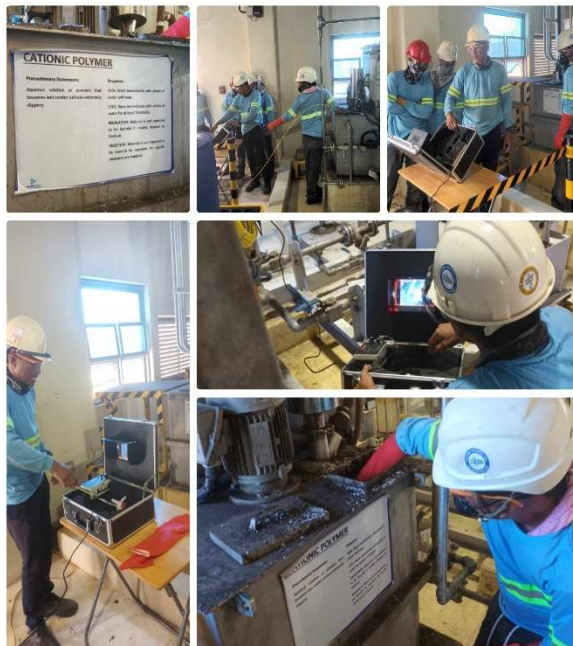
Photos:



Steel Tank Visual Inspection for Corrosion



Steel Tank Wall Thickness inspection by UTZ



Steel Tank Internal Inspection by Borescope



FRP Tank Hardness and Thickness Inspection

PROFILE

Project Name: 16.6 MLD Anabu Potable Water Treatment Plant Thru BW Water

Location: Barangay Anabu 2-C, Imus, Cavite

Scope of Work: Engineering, Procurement & Construction of 16.6 MLD Anabu Potable Water Treatment Plant Clarifier System

Calendar Days: 274 Days

Photos:



ON SITE ASSEMBLY OF STEEL CLARIFIER TANKS (HYDRO-PAQ)



MCC & PLC PANEL BOARD POSITIONING, INSTALLATION AND CABLE ROUTING & TERMINATION

PROFILE

Continuation Photos: 16.6 MLD Anabu Potable Water Treatment Plant Thru BW Water



3rd Street Cavite
4103 Imus City
Philippines
Apr 20, 2023 at 3:00:12 PM

BELT PRESS INSTALLATION AND POSITIONING



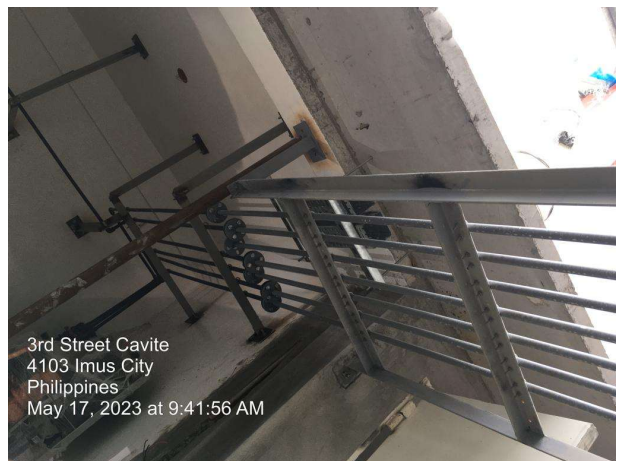
Anabu Road Cavite
4103 Imus City
Philippines
May 29, 2023 at 9:10:28 AM

CHEMICAL TANKS INSTALLATION



Cavite
Imus City
Philippines
May 16, 2023 at 11:18:43 AM

CHEMICAL PUMP SKID INSTALLATION

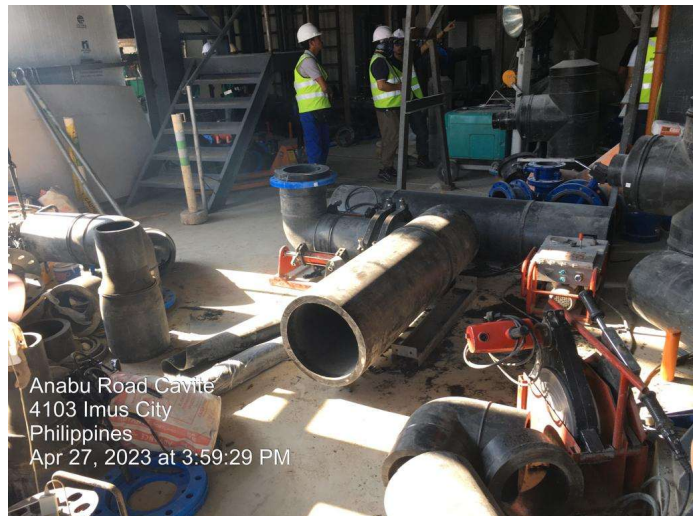


3rd Street Cavite
4103 Imus City
Philippines
May 17, 2023 at 9:41:56 AM

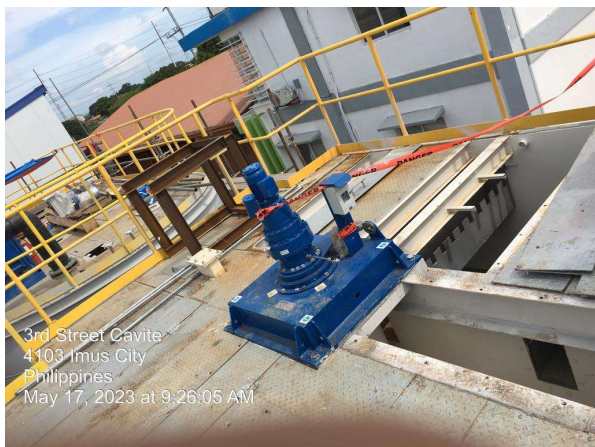
CHEMICAL PIPING AND SUPPORTS INSTALLATION

PROFILE

Continuation Photos: 16.6 MLD Anabu Potable Water Treatment Plant Thru BW



FABRICATION AND INSTALLATION OF TANK PIPING SYSTEM



INSTALLATION OF TANK MIXER MOTOR



SLUDGE PUMP & PIPING SYSTEM INSTALLATION

PROFILE

Project Name: 50 MLD East Bay Phase-1 Water Treatment Plant Thru Aquatrade & Industrial Devt. Corp.

Location: Pakil, Laguna

Scope: Fabrication and Installation of Marine Intake & Outfall Piping

Calendar Days: 365 Days

Photos:



600 & 800-MM DIAMETER HDPE PIPE JOINTING (BUTT FUSION WELDING)



OFFSHORE PIPE TRENCH EXCAVATION

PROFILE

Cont. Photos: 50 MLD East Bay Phase-1 Water Treatment Plant Thru Aquatrade & Industrial Devt. Corp



OUTFALL PIPE ALIGNMENT (OFFSHORE AREA)



HDPE PIPE CONCRETE BALLAST (SINKER) FABRICATION



HDPE PIPE SINKER INSTALLATION



HDPE PIPE SINKING

PROFILE

Cont. Photos: 50 MLD East Bay Phase-1 Water Treatment Plant Thru Aquatrade & Industrial Devt. Corp



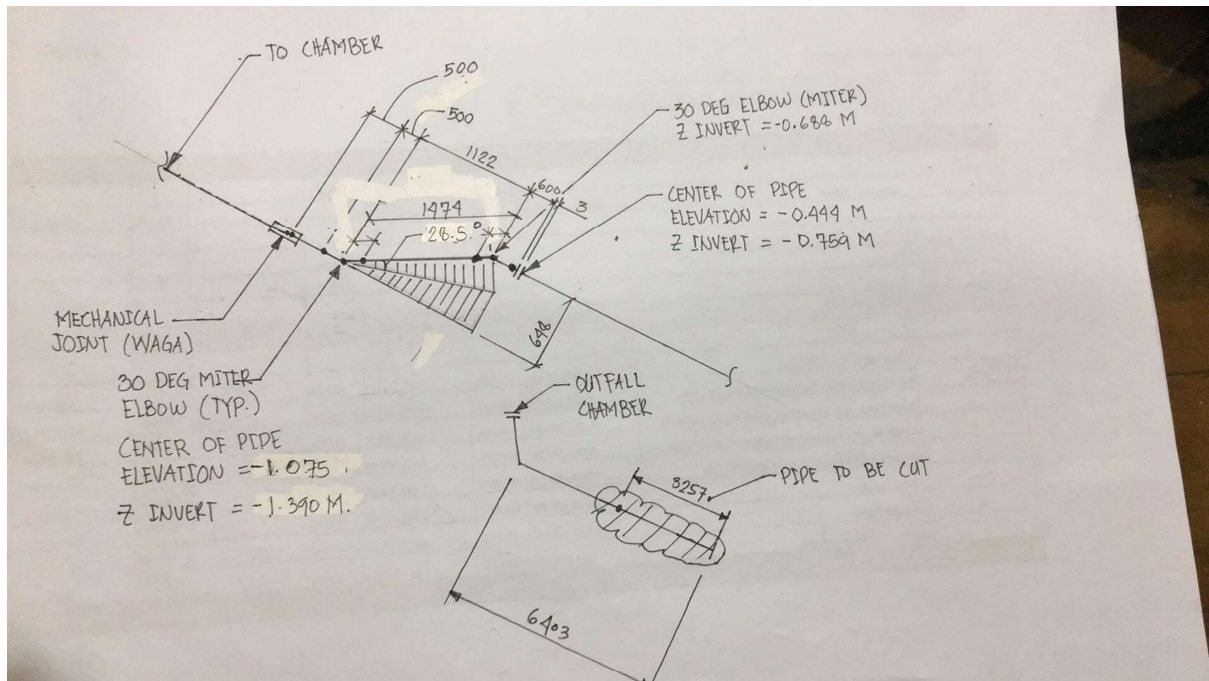
INTAKE PIPE POSITIONING, INSTALLATION AND ALIGNMENT



GRP PIPE SPOOL FINAL TIE-IN UNDERWATER INSTALLATION

PROFILE

Cont. Photos: 50 MLD East Bay Phase-1 Water Treatment Plant Thru Aquatrade & Industrial Devt. Corp



ISOMETRIC SKETCH OF 600 MM DIA. UNDERGROUND OUTFALL PIPE MODIFICATION ROUTING AS PER EXISTING SITE CONDITION (ONSHORE AREA)



INSTALLATION OF THE MODIFIED ROUTING FOR 600 MM DIA. UNDERGROUND OUTFALL PIPE

PROFILE

Project Name: 20 MLD Marikina River Water Treatment Plant Thru UTPC

Location: Kabayani Road, Nangka, Marikina, Metro Manila

Scope: Installation of Equipment, Pumps and Piping for 20 MLD Marikina River Water Treatment Plant

Calendar Days: 153 Days

Photos:



PUMP POSITIONING AND INSTALLATION



PUMP SUCTION AND DISC. PIPE INSTALLATION



INTERCONNECTION PIPE FABRICATION AND INSTALLATION

PROFILE

Continuation Photos: 20 MLD Marikina River Water Treatment Plant Thru UTPC



UF SKID POSITIONING & INSTALLATION



HDPE PIPE AND VALVE TIE-IN INSTALLATION



CLARIFIER TANK PIPING FABRICATION & INSTALLATION



CHEMICAL TANK SKID INSTALLATION



EQUIPMENT AND SKIDS INSTALLATION

PROFILE

From: September 2017 – May 2019

Location: Yanbu Industrial Area, PO Box 30333 Yanbu – 41912, Saudi Arabia

Company: YANPET (Saudi Yanbu Petrochemical Company) (SMASCO –SMP)

A Petrochemical complex with a 50/50 SABIC joint venture with Mobil Yanbu Petrochemical Company (An affiliate of ExxonMobil Chemical, USA) producing Ethylene, polyethylene, Ethylene glycol, Polypropylene, Pyrolysis gasoline, Propylene, and Hydrogen.

Scope of Work: Maintenance Designer (Static Equipment & Piping)

- Member of Turnaround execution team for Static Equipment and Piping repairs.
- Produce design drawing repair package for pipe leaks and low wall thickness as per insp.
- Conduct ocular site visit for Columns, Tanks, Piping Vessels to meet design requirement.
- Produce Fabrication drawing for repairs of Columns, Tank and Piping Vessel
- Resolve fabrication and Construction Technical Query.
- Prepare piping layout/route as per existing site condition.
- Conduct a line walkthrough to check if the design requirements are met
- Produce Piping Deliverables in adherence to Engineering Standard:
 - Isometric Demolition Drawing
 - Isometric Drawing, Pipe Support Schedule & BOQ

From: November 2013 - June 2016

Location: Al Gassar Tower, 12th Floor, West Bay, PO Box: 22961, Doha, Qatar/Ras Laffan Industrial City

Company: Chiyoda- Alman Engineering LLC (CAEL), Seconded to Ras Laffan Olefins Company (RLOC/QCHEM)

Ras Laffan Olefins Company (RLOC) is an Ethylene Cracking Plant operated by Q-Chem, producing 1.3 million MTA. Assigned in the Piping Department of the Plant in-house Technical Design Group by executing the raised MOC and TWR packages for a scheduled Turnaround and Maintenance.

Scope of Work: Piping Designer

- Perform site assessment prior to job scope execution
- Coordinate with the Client and Design team for a piping 3D model review
- Resolve Construction Technical Query
- Review and checked TWR Package Perform As-Built of Isometric drawings
- Conduct a Valve Technical Bid Evaluation
- Oversee the construction team working on the assigned/designed projects
- Conduct a walkthrough to check if the designed requirements are met and as per P&ID
- Produce Piping Deliverables in adherence to CHEVRON Engineering Standard:
 - Piping 3d Model
 - Isometric Demolition Drawing
 - Isometric Drawing, Pipe Support Schedule & BOQ
 - General Arrangement Drawing

PROFILE

From: July 2011 - November 2013

Location: Al-Khobar, Kingdom of Saudi Arabia

Company: KBR – AMCDE (Kellogg Brown & Root - Abdulhadi & Al-Moaibed Consulting & Design Engr.)
KBR-AMCDE Consortium, a consulting company in the gulf that provides engineering services to Saudi Aramco in the field of oil and gas division.

Scope of Work: Piping Design Engineer

- Devise Overall plot plan, and Equipment Layout Plan
- Devise preliminary design of structures and introduce studies, sketches, drawings & calculations related to the Piping design of FEED works.
- Develop piping design, layout and routing of piping system according to Applicable Saudi Aramco and Industry Standards.
- Develop Piping layout, isometrics, piping special items and pipe support detail drawings.
- Interface (Pipe tie-in) planning between plant battery limits.
- Prepare piping material specifications (i.e. pipes, pipefittings, valves and specialty).
- Conduct project site visits, interface with proponent/maintenance people and gather field Information related to the project
- Develop piping plans and profile for flowlines, trunk lines & test-lines from the survey
- Calculations of pipe wall thickness and pressures for hydrostatic test packages
- Preparation of Construction scope of work and P & ID updates.
- Preparation of SIS for the hydrostatic test, Hydrostatic test diagram & checking.
- Prepare Updates of Piping planning and Isometric drawing.
- Preparation of demolition drawing in piping plan and isometric
- Piping Design Engineer
- Prepare Piping Tie-In Schedule
- Coordinate between disciplines for update of the area concerned
- Response to Construction Contactor technical queries

From: November 2006 – June 2011

Location: 8th Floor, I1 Bldg. Asia Town, IT Park, Lahug, Cebu City, Philippines

Company: DASH Engineering Philippines Inc.

A subsidiary of Mitsui Engineering and Ship building that is based in the Philippines. An Engineering company that offers Plant Engineering Shipbuilding.

Scope of Work: Piping Designer

- Calculation of Pipe rack width and loading data
- Pipe routing base on P&ID Process Requirements and Client Engineering standard
- Pipe Structural modeling based on Loading Data and Plot Plan
- Equipment Modeling based on Vendor Drawing and Equipment Layout
- Extraction of piping isometric drawing in PDMS to AutoCAD
- Checking of piping isometric drawings issued for construction.
- Material take-off.
- Piping line by line checking using Jet stream Navisworks.
- 3D modification using AUTOCAD
- Checking of equipment layout and vendor drawing
- Steam tracing of extracted Isometric drawing

PROFILE

Scope of Work Cont.: Piping Designer

Preparation of Piping Arrangement Drawing by AutoCAD & MicroStation
Prepare special support and line rerouting as per pipe flexibility.
Pipe Clash checking
Support modeling based on Piping Standard and Stress Analysis

Training/Seminars: LIFE CRITICAL PROCEDURES as per OSHA (QCHEM In-House)

Confine Space Entry (CSE)	Safety Alarm & Safety Bypass
Lockout, Tag-out & Try (LT&T)	Job Safety Analysis (JSA)
Authorized Gas Tester (AGT)	Work at Height
Electrical Work Safety (EWS)	Crane Lift
Opening of Process Equipment or Piping (OPEP)	Permit to Work (PTW)