






Natthanop Hemaratpitak

Contact

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Languages

- English - Intermediate
- Thai - Native

Interpersonal Skills

- Management and Problem Solving
- Collaboration and Team
- Responsibility and Integrity

Software

- AutoCAD
- Solidwork
- Naviswork
- Sketchup
- MS Office (Word, Excel, Visio, Power Point, Project, Outlook and MS Team)

License / Certificate

- Associate Mechanical Engineer
License No. ๓๓.41677

Summary

Experienced in construction company at field petrochemical, and industries. Prepare technical and commercial in mechanical work, piping work, HVAC and fire protection. And support information to construction team.

Also have experience in project management by follow up progress and update schedule to ensuring timeline and budget of project.

Education

Bachelor of Engineering, Mechanical Engineering

King Mongkut's University of Technology Thonburi. (KMUTT)
2011-2015

Experience

Mechanical Engineer

ItalThai Engineering co., Ltd. (ITE) July 2015 – August 2023

Proposals:

- Reviews the terms of reference (TOR) and prepare technical and commercial proposal customer.
- Feasibility study assesses the payback period, and then prepares the proposals.

Engineering Phase:

- Coordinates with the design contractor and the clients to ensure that the detailed design meets requirements.
- Prepare document and drawing such as Data sheet, Material Approval, PID, Plot Plan, General Arrangement, Isometric Drawing, Line List, Tie-In List and Equipment List.
- Coordinate with vendor or technology provider to ensure that the company complies with the requirement of clients and gains the most efficient cost.
- Quantity survey of mechanical, piping, HVAC and fire protection.

Project Management Works:

- Prepare and monitors the project's progress to ensure it aligns with the plan.
- Coordinate client, vendor or any discipline to meeting and take minute of meeting
- Prepares a report to document information that may be useful for negotiations in the event of a need to extend the project timeline.

Constructions and Commissioning

- Coordinate and support information with site team and inspections with the client to verify compliance with the agreement and prepares a relevant report.

Key Projects & Highlight

2023 Additional Dryer Project, Rayong

- Coordinate and review detail design from sub-designer for HVAC work
 - Cooling Load, Equipment Schedule, Schematic Diagram, Layout
- Prepare material requisition and coordinate with vendor of mechanical, piping, HVAC and fire protection
 - Special item: Strainer, Flexible Hose, Bellow Joint, Stream Trap, Valve
 - Mechanical: Chut, Fabrication Work
 - HVAC: VRV, AHU, Ventilation Fan
 - Fire Protection: Deluge Valve, FHC, Fire Extinguisher
- Quantity surveyor for mechanic, piping, HVAC and fire protection
- Support Construction team for engineering issues

2022 STEP06, Rayong

- Coordinate and review detail design from sub-designer for piping work
 - Hydraulic Calculation, 3D Model Review, P&ID, GA Drawing, Isometric Drawing, Line List and Tie-in List
- Prepare data sheet, material approved and coordinate with supplier
- Participate for HAZOP&SIL workshop represent EPC contractor

2022 Hydra, Rayong

- Prepare technical information of Fire Protection such as
 - Schematic Diagram, GA Drawing, Isometric Drawing, Line List and Tie-in List.
- Prepare data sheet, material approved and coordinate with supplier about Fire protection work such as
 - Fire Hose Cabinet, Fire Department Connection, Fire Hydrant, Fire Hose Box, Fire Extinguisher

2021 Chulaporn Hospital, Nonthaburi

- Prepare data sheet, material approved and coordinate with supplier about HVAC work
 - HEPA Filter, Jet Nozzle, Perforated, Vibration Isolator

2021 Italthai House, Bangkok (Feasibility)

- Feasibility study project with financial analysis (Payback period)
- Measure and analysis the efficiency of chiller and submit report to owner for suggest chiller changing
 - Chiller 350 Ton (Option 1: Magnetic, Option 2: Screw Inverter, Option 3: Screw)

2020 Install Electrostatic Precipitator for DCC plant, Rayong

- Monitor progress and update project schedule. Such as S-Curve, Monthly Report, Procurement Schedule, 3 Week Schedule
- Prepare statement of work completion and payment milestone

2019 STEP04, Rayong

- Coordinate and review detail design from sub-contractor such as
 - Hydraulic Calculation, 3D Model Review, P&ID, GA Drawing, Isometric Drawing, Line List and Tie-in List.
- Prepare data sheet, material approved and coordinate with supplier
 - Metering Pump, Canned Pump, Pressure Vessel, Insulation

Key Projects & Highlight

- Visit mechanical running and performance test of pump at site

2018 Install Electrostatic Precipitator for RDCC plant, Rayong

- Coordinate and review detail design from sub-contractor about piping work such as
 - Hydraulic Calculation, 3D Model Review, P&ID, GA Drawing, Isometric Drawing, Line List and Tie-in List.
 - Minimum Wall Thickness for Transition Duct
- Prepare data sheet, material approved and coordinate with supplier about piping work

2018 Olarn, Chonburi (Bidding)

- Quantity surveyor and prepare commercial proposal for HVAC work
 - Chiller, Air Handling Unit, Fan Coil Unit, Precision Air Unit. Air Curtain and Ventilation Fan
 - Duct Work, Grilled, Filter and Electric Duct Heater, Cold Room and Freezer Room
 - Cooling Tower, Chemical Dosing and Ozone

2017 Ethanol Power Plant 4.5 MW, Nakhon Sawan (Feasibility)

- Draft concept: PFD, PID for Hot water. PID for HRSG, PID for Absorption Chiller Unit, Plot Plan, Tie-In List, PID for Demin Package
- Feasibility study project with financial analysis (Payback period)

2015 Gas Mixing, Ayutthaya

- Monitor progress and update project schedule
 - S-Curve, Engineering Schedule, Procurement Schedule and 3 Week Schedule
- Participate for HAZOP&SIL workshop represent EPC contractor
- Visit factory assistance test with owner
- Review and follow up detail design from sub-contractor such as
 - Process: PID, PFD, heat and mass balance and process description
 - Piping: 3D model, line sizing, plot plan, general arrangement, and isometric drawing
 - Fire Fighting: PID, general Arrangement, isometric Drawing
- Prepare material approved and purchases request such as
 - Thermosiphon tank, ambient vaporizer, and electric vaporizer
 - CNG Compressor, CNG Dispenser, LNG Dispenser, LNG Pump, LPG pump, LCO2 Pump, LN2 Pump
 - Pipe, Fitting, Valve, inline static mixer, and Vacuum Insulated Cryogenic Piping