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国家	泰国

## 产品/机械

Maintenance

### M-1 Preventive Maintenance & Correct Maintenance

Provides Site Maintenance Team to Handle Routine Maintenance Activities in order to achieve Plant Safety, Integrity and Reliability at Optimized Maintenance Budget including :

- Maintenance Planning & Scheduling
- Operator Coordination
- Spare Part Optimization
- Tool and Equipment Management,
- Contractor Supervision
- Routine Work Execution and Maintenance SLA Reporting with Qualified Staffs and Standard Work Control System

### M-2 Equipment Maintenance & Overhaul

Maintenance & Overhaul Provide expert team and specialist to support maintenance works, shutdown works, turnaround packages

- Maintenance and Equipment Problem Solving. Especially, Compressor and Turbine ( Steam, Gas).
- Electrical maintenance services
- Instrument and control services
- Tank maintenance and inspection services
- Workshop equipment and tool services

### M-3 Turnaround Management Service

- Provide Turnaround Project Management Consultant Services
- Turnaround Project Management and Implement for Client with standard working pattern
- Standard Turnaround Methodology Handbook (Procedure, Guidance, format, etc.) by professional staffs.

### M-4 Reliability Practice Study & Improvement

- CMMS Set up and Implementation
- Maintenance analysis work and engineering work both corrective and preventive for value added
- Reliability and Availability Improvement
- RCM, SIL Implementation

### M-5 Spare part optimization & Warehouse management

Providing spare part optimization and inventory management to achieve optimum return on investment by demand and supply utilization management, saving the customer required service level, inventory control process and new stock item determination.

## Engineering

### E-1 Basic Design

In the Basic Design phase, the process design employed for the facility and the various basic concepts of the plant design are defined. In some cases, the Licensor (a technology owner) undertakes a major role in this phase. Engineers will study the material and heat balances, and define major equipment, control systems and instrumentation for all parts of the process. This determines the basic functions of the elements and provides defines the spatial requirements for the facility.

- Process Design
- Basic Data for Equipment
- Basic Data for Instrumentation

- Safety Concerns

#### E-2 Front - End Engineering Design (FEED)

Front-End Engineering Design (FEED) is the critical to success including robust planning and design early in a project's lifecycle at a time when the ability to influence changes in design is relatively high and the cost to make those changes is relatively low with our experiences, technology evaluation and selection by offering:

- Equipment Design
- Instrument Design
- Purchase of Critical Equipment

#### E-3 Detailed Design

Detailed Design is one of the major activities during project execution. We do believe that we can provide high quality of detailed design with our expertise in many areas such as:

- Oil Refinery
- Gas Separation Plant
- Petrochemical and Chemical Plants
- Power Plant
- Biodiesel Plant
- Above and Underground Storage Tanks
- Pipeline

#### E-4 Construction Management

Management With our professional services that apply effective management techniques to construction of a project from inception to completion, it needs qualified personnel with broad experiences to execute projects and manage resources to achieve the project goals such as:

- Time
- Cost
- Quality and Safety

#### E-5 Project Management

Project Management is the overall planning, co-ordination and control of a project from inception to completion aimed at meeting a client's requirements in order to produce a functionally and financially viable project that will be completed on time within authorized cost and to the required quality standards.

- Project planning and design
- Project execution and construction
- Project monitoring and control
- Project completion

#### E-6 Document Engineering Intelligent System

Intelligent System Plant designers and plant owners need a good engineering document system enhancing the decision support capabilities to facilitate production and life cycle optimization of the plant. Intelligent Engineering Document System (IEDS) will maximize efficiency for plant maintenance and provide plant operation solutions.

- Integrated Information Management
- Centralized Document
- Easy to Manage and Control
- Always Up-To-Date

#### E-7 : Engineering, Procurement And Construction (EPC & EPCo)

Procurement and Construction (EPC) Engineering, Project Procurement and Construction (EPCo) is our active across Thailand and the globe in the near future on a wide variety of engineering, procurement and construction contracts, covering different technologies, locations and contract conditions. EPC services are also provided through our wide variety of term and site service agreements, typically for smaller miscellaneous projects. Our successful track record has resulted in a high percentage of negotiated contracts with repeat clients.

- Civil, Structure, Building and Warehouse
- Piping
- Tanks
- Vessel
- Equipment
- Plants (Oil, Gas, Petrochemical, Chemical, Biodiesel, Power Plant and ect.)

Plant Inspection

To Provide for Plant Inspection, Nond Boilers, Piping and Structure and Performance Check for investigate defect in the fields of refinery, power plant and petrochemical plant. The services are as follow :

#### I-1 QA/QC Equipment

Pressure related item shall be fabricated with carefully quality control and inspection. Qualified Inspector need to review procedure and work verification by ongoing witnessing of vendor's shop and site construction during fabrication erection and test for protect of non-conformance item and ensure work compliance with the Project specification. We provide the best quality control system and qualified inspector to conform inspection activity.

#### I-2 Conditioning Monitoring

Condition-based Maintenance has become more prevalent in refineries and petrochemical plants. Achieving higher reliability requires continuous condition monitoring of the rotating machinery. Our specialists will assist plant owners to collect and analyze various machine parameters. The finding for any problem allows not only higher reliability but also maintenance cost reduction as well.

#### I-3 Static Equipment Inspection

After a period of operations, plant asset should be aware that their integrity of equipment. PTTME has extensive experience in the performance of inspection method of in-service/out of service equipment for condition and suitability for continued usage/ extended life and statutory equipment inspection conform Thai law and regulation requirement.

#### I-4 Inspection Specialist

Inspection specialist provides a wide range of consulting services to fit our customer needs such as implementation of RBI program, vibration problem, corrosion problem and recommend appropriate Non- destructive Testing( NDT) technique for inspection. We also provide training courses covered all areas of metallurgy, corrosion, vibration and NDT.

### Company Profile of **PTT Maintenance and Engineering Co., Ltd.**

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