



Diasozo Consultants – IPMT expertise

DIASOZO is an independent privately owned Project Management Consulting company established in 2016 with vast experience and a proven track record in the PMC field as is illustrated by the attached Experience List. DIASOZO is headquartered and works in Dubai.

The DIASOZO team consists of highly qualified experts with a proven track record of successful projects in the Oil Refining and Petrochemicals Industries including Haldor Topsoe, UOP, Axens, IFP, ABB AB, Foster Wheeler, Technip/Shaw Group, MW Kellogg, Fluor, Shell, BP, Akzo Nobel, KBC, Air Liquide (Lurgi), Worley Parsons, KBR, Saipem, Lukoil, Chevron, TNK, VNIPINEFT, Basell, SABIC, BASF and OMV.

For the Customer's Project, DIASOZO can provide the following bespoke Scope of Client Project Engineer ("CPE") services which would safely and successfully guide the Customer through all stages of the Project including:

1. Independent analysis of project economics
2. Review of market studies
3. Analysis of project risks
4. Preparation of bankable project documentation for financing groups
5. Technical support during discussions with potential creditors
6. Preparation of ITB (Invitation To Bid) package for licensors
7. Coordination of Licensor proposals
8. Evaluation and recommendations of licensors
9. Analysis and optimisation of selected technologies
10. Supervision of basic engineering
11. Assistance with selection of the FEED (Front End Engineering and Design) contractor
12. Assistance in selection of the engineering, procurement, and construction Contractor ("EPC Contractor"), (preparation of ITB documentation, review of technical and commercial proposals)
13. Assistance with contract negotiations with selected main contractor

14. Supervision of detailed engineering
15. Control and monitoring of purchasing of equipment
16. Provision of third-party inspection
17. HSE reviews including chair of HAZID / HAZOP meetings
18. Review of manpower requirements
19. Development and coordination of personnel training
20. Supervision of construction
21. Supervision of commissioning and start up
22. Monitoring and performance tests
23. Maintenance programs/ shutdowns etc.
24. Review of planning for performance tests etc.

The above-mentioned services are usually performed by the Client Project Engineer (“CPE”) in close cooperation with Customer. Typically, the CPE would assemble a team of experts to form an integrated, joint Client Project Engineer Team (CPE Team) in association with the Customer to supervise work done by the Process Licensor, and the EPC Contractor, through all stages of the Project. The final composition of the Team will depend upon availability of the required specialists in Customer’s organization.

CPE would coordinate work for engineering, procurement and construction related issues and advise the Customer if all commitments and obligations of the contractors, vendors and subcontractors are made in accordance with Project objectives and requirements.

CPE would advise the Customer through each stage of the Project to ensure compliance with the Project requirements and to monitor schedule, Quality and Costs.

We propose that the CPE team be made of but not be limited to:

- Project Director
- Senior Project Manager
- Financial Advisor*
- Project Coordinators
- Technology Specialists*
- Mechanical Engineer *
- Instrumentation Engineers*
- Electrical Engineers*
- Civil Specialists*
- Heat Transfer Engineer*
- Piping and Layout Engineer*
- Planning and Scheduling Specialist
- Cost Control
- Procurement Manager
- Inspectors*
- Construction Manager
- Construction Supervisors*
- Commissioning Engineers*
- Start Up Engineers*

(*)Such specialists will be used on a full or part time basis when needed during each stage of Project development .

CPE will participate when required by the Customer in meetings with engineering contractors to support the Customer in contractual matters at all stages of the Project.

DIASOZO SERVICES – PROJECT STAGES

Please find below a detailed description of services which could be provided throughout each stage of the Project:

- A. ENGINEERING MANAGEMENT
- B. PROJECT CONTROL MANAGEMENT
- C. PROCUREMENT COORDINATION
- D. EXPEDITING AND INSPECTION
- E. LOGISTICS COORDINATION
- F. CONSTRUCTION MANAGEMENT
- G. COMMISSIONING, START UP AND PERFORMANCE TESTS
- H. TRAINING

A ENGINEERING MANAGEMENT

During the detailed engineering phase of work the Client Project Engineer (CPE) will carry out the following activities:

- Review the Project scope and the technical specifications issued by Licensor and FEED contractor
- Review the overall project execution philosophy and the execution plan issued by the engineering contractor for all phases of the project
- Form the CPE team to monitor all activities of engineering contractor during preparation of the detailed engineering to ensure that all the Customer's requirements are incorporated into the project documentation. CPE would coordinate such meetings and arrange for attendance of the **Customer's** specialists as and when required.

Meetings include:

- Monthly Progress meetings with engineering contractor
- Meetings with suppliers of equipment
- HAZID/HAZOP review meetings

B PROJECT CONTROL MANAGEMENT

CPE shall:

- Coordinate work of all engineering contractor related issues and advise if all commitments and obligations of contractors, vendors and subcontractors are made in accordance with the Project objectives and requirements.
- Provide regular progress reports to keep the Customer's management fully abreast of any Project issues and concerns.
- Provide coordination at management level with:
 - Customer
 - Engineering contractor
 - Licensors
 - Sub-contractors
- Monitor Project quality, safety, cost, and schedule
- Participate in the Customer's (and engineering contractor's) bi-weekly or monthly review meetings and follow up on agreed courses of actions.
- Coordinate preparation of comprehensive project monthly reports, covering all aspects of engineering, procurement and construction for all involved parties and vendors
- Coordinate with all responsible parties and advise if all agreed technical requirements are incorporated in the design and supply of equipment and materials.
- Coordinate with **engineering** contractors for the integration of new process units into the existing complex.

- Coordinate the timely issue of the project schedule, progress monitoring and reporting by the engineering contractor.
- Coordinate the issue of overall engineering, procurement and construction schedules based upon data from **engineering** contractor and all sub-contractors.
- Review supporting documentation for project **milestones** as evidence for Invoice approvals by the Customer.
- Review the cost estimates for proposed contract changes and assess the schedule effect of any such contract changes.
- Identify any negative trends and advise the Customer accordingly with advice on the corrective measures that need to be taken where appropriate.
- Coordinate cost monitoring, cost analysis, cost control and forecasting reports.
- Provide continuous feedback to Customer on areas of concern relating to project cost.
- Monitor and review the costs of subcontractors, evaluate sub-contractors' productivity and cost of work.
- Identify potential cost overruns and advise on corrective actions that need to be taken

C. PROCUREMENT COORDINATION

- Monitor procurement activities for equipment and materials, purchasing, inspection, expediting, logistics, and vendor document control.
- Assist with selection of companies invited to Bid
- Review of ITB documents for compliance with licensor and Customer requirements.
- Participate in important vendor meetings for compliance of all commercial and technical requirements.
- Coordinate timely receipt of all vendor documentation. Monitor review by all groups concerned to ensure completion in a timely manner.
- Coordinate, monitor and provide proactive support to expediting, inspection and logistics activities.
- Monitor on-time delivery of internal and external deliverable documents, equipment, and materials.
- Participate in pre-award meetings for critical equipment to become familiar with scope of work and deliverables.

D. EXPEDITING & INSPECTION

DIASOZO has a worldwide network of qualified Inspectors through our partners. DIASOZO can provide independent control throughout the manufacturing process for all critical equipment including:

- Monitor Inspection requirements in ITB documents
- Monitor all equipment inspection and testing plans and advise when Customer representatives should attend, pre-inspection meetings, in process inspections, witness tests and final inspections for release.
- Review all Inspection reports by the engineering contractor
- Monitor preparation of supplier evaluation forms
- Organize independent inspection for critical equipment

E. LOGISTICS COORDINATION

- Review communications protocol regarding logistics matters with all parties
- Ensure correct packing is used for transportation
- Review contracts for transportation
- Coordinate preparation by the engineering contractor of all necessary documentation and drawings for over dimensional transport in conjunction with the applicable transportation authorities.
- Review activities related to heavy haul and heavy lift at the jobsite.

F. CONSTRUCTION MANAGEMENT

- Review the overall construction execution philosophy of the engineering contractor.
- Monitor and provide advice on construction issues
- Provide coordination with the licensor and the engineering contractor to ensure proper support and technical information is provided to maintain construction schedule.
- Monitor in conjunction with project management and project cost control schedule, quality, safety, and authority compliance related to construction.
- Provide technical and administrative support relating to construction issues/concerns and identify any corrective actions to be taken.
- Monitor the engineering contractor construction performance and progress, highlight deficiencies, and ensure that corrective action is taken.
- Provide resolution of any conflicts that occur between the engineering contractor and construction subcontractors
- Monitor construction budgets and schedules

G. COMMISSIONING, START UP AND PERFORMANCE TESTS

CPE may provide start up coordinators to assist the customer to control all aspects of commissioning and start up and to monitor and control performance tests.

H. TRAINING

CPE can coordinate the training program for the Customer specialists who can eventually operate and manage the new complex.

This can include training at similar operating plants, training by Licensor and by equipment suppliers.

We hope that above will find your approval and looking forward to our cooperation on your esteemed project.

Yours truly,

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