



- Name of Project** : **Design and Supervision for Installation of Utility System for Pilot Plant at New Research and Development Building**
- Location** : Ladkrabang Industrial Estate, Bangkok
- Client** : Unilever Thai Holding Ltd.
- Project Cost** : 48,000,000 Baht
- Duration** : April 2010 - April 2011
- Narrative Description** : The Design and Supervision for Installation of Utility System to support the hold system and relate electrical work include control system and measuring systems project consists Mixers and equipment for homecare product ice-cream and food plant, Process piping system (food grade), CIP, Plant utilities (Compressed air, Steam, Hot water glycol solution, Demin Water, Chlorinated Water), Plant scada system, Instrument and Control.
- Services Description** : Project detailed design management and construction supervision the works as following:
- Phase 1 : Design and Contractor Selection Work
- 1) Design Work
- Survey and study of project need from data of condition used of current project.
  - Document preparation which relate to design work (Design criteria, Detailed drawing of Plant Flow sheet and schematic diagram for Utility System, Layout plan show equipment position and all support systems, Specification, BOQ)
  - Conduct Installation system Plan according to main construction plan.
  - Invoke to the meeting for report work progress and to get information from the owner

## 2) Contractor Selection

- Prepare Tender Document.
- Review and select the Contractor.
- Clarify Location site and suggestion for construction drawing.
- Sluggers for contractor selection process and review of cost proposal, BOQ and cost negotiate.
- Coordinate with the owner for preparing the contractor contract.

### Phase 2 : Installation Supervision of equipment and utility system for Pilot Plant (HPC Pilot Plant, IC Pilot Plant, and Food Pilot Plant)

- Coordinate for work preparation at construction area.
- Review and approve of installation supervision plan for equipment and relate system, Shop Drawing, Method Statement, As-built Drawing, Manual work, etc.
- Control the installation work to accordance with the contract.
- Propose way to resolve the argument problem and problem from obstacle to the objective and target of the project.
- Review the payment for contractor according to the contract and control cost and budget of the project.
- Coordinate with main construction work which invoke to the Installation work.
- Follow up, review, evaluate the contractor work and prepare daily report, weekly report and monthly.
- Arrange the meeting with Installation equipment contractor and main contractor.
- Coordinate for training staff of the owner.
- Control of commissioning test.
- Coordinate the submitting work of contractor.
- Control the safety and preventive environmental problem form contractor.