



- Name of Project** : **Consultancy Services for Design of Fire Protection System for CPRAM Ladkrabang Factory 1&2 Project**
- Location** : Bangkok
- Client** : C.P. Retailing and Marketing Co., Ltd.
- Project Cost** : 17, 899,678 Baht
- Duration** : October 2011 – November 2012
- Narrative Description** : The Engineering Design for Office Building structure and Fire Protection System consist of
- 1) 3-stories Office Building size 10x 23.5 m with area of 235 sqm./ floor, Load of each floor contain 500 kg/sqm.
 - 2) Fire Pump Engine Room in first floor of office building and reinforce concrete under ground tank size 600 sqm. with water distribution for 1 hour.
 - 3) Vertical Turbine Fire Pump size 2,000 GPM, 175 PSI run by diesel engine with Jockey Pump 20 GPM, 190 PSI and the complete set of Control Cabinet.
 - 4) Pipe Line for Fire Ring Main size 200 mm. (8 inch) with distance of 900 m. surround the Factory 1&2 and install Fire Hydrant in each 150 m.
 - 5) Installation of Ware House Sprinkle ESFR-K 25.2 at Warehouse and Sprinkle system in both factory offices.
 - 6) Installation of Nitrogen for Electrical Control room MDB, MCC and Network Control room.
- Services Description** : The scopes of services are as followings:
- Site Survey and Data Collection
 - Structural Engineering Design
 - Bidding Contractor
 - Assist for Construction Permit to IEAT