Rakesh Kumar Bhardwaj – Principal Consultant

Past Project Experiences (In descending chronological order):

1. Tenure: Dec 2008 – Present; Designation: Technical Advisor

Engaged as Advisor for Oil Business to the Port of Fujairah, United Arab Emirates, with monthly visits to site for about 10 days. Duties included:

- Conceptualization of a common liquid handling jetty facility complete with topside facilities for various terminals and a refinery at Fujairah and setting out operation philosophy for the same;
- Specifying and overseeing Front End Engineering and Design (FEED);
- Directing FEED Consultant on technical specifications and tender documents for Turnkey Contract;
- Conducting throughput capacity studies for the entire petroleum product jetties of the Port;
- Conducted HAZID on finalized P&IDs of the common facility for the owners, Port of Fujairah;
- Establishing connectivity and operational rules for all customers of the Port utilizing the common petroleum jetties and handling all queries in this regard;
- Assist Marketing Department of POF in establishing template for Service Agreement with various terminal owners and refinery;
- Establishing operation and administrative procedures, inclusive recruitment of staff and training;
- Providing consultancy during operations of the new facility commissioned end 2010
- Directed FEED Consultant of the Port for 2 x Multi-Purpose Tanker Berths and interfacing these with the existing common bulk petroleum handling facility;
- Currently finalizing the detailed design for a VLCC Trestle Type berth with Royal Haskoning DHV, the appointed designer of the Port.

Besides the foregoing, following were piece-meal sub-projects undertaken:

- Estimation of OPEX for a proposed 2.6 million cubic metres (cbm) bulk liquid storage and blending facility in Indonesia and conducting economic viability studies;
- Reviewing design of a similar 370,000 cbm facility in Vung Tao, Vietnam and suggesting optimization efforts;
- Participated in the Technical Due Diligence for partial acquisition of a 1.2 million cbm oil terminal facility in Fujairah by a major Chinese party;
- Engaged by Jurong Rock Cavern (JRC) as an Operations expert in the HAZID exercise for a major underground rock cavern storage facility in Singapore;
- Appointed as Principal Consultant to PT West Point Terminal at Batam, Indonesia. This is a joint venture company between Sinopec of China and MAS Investment of Singapore.

2. Highest office held in an International Oil Trading Company: Director of Terminal Construction & Compliance (Global). Highlights of Major Projects undertaken then are as follows:

- Oversaw the entire conceptualization and detailed engineering for a 570,000 cbm bulk liquid storage and blending facility in Fujairah, UAE. Engineering works were off-site in Baroda, India;
- Conducted technical due-diligence for a commodity chemical storage terminal in Batangas, Philippines for complete acquisition;
- Assisted the Government of Fujairah, UAE, to resolve an impasse in the configuration of bulk liquid handling facility for their newly conceived marine tanker berths with off-takers thereof;
- Conducted compliance audit for the a Terminal in Fujairah, UAE;
- Conceptualized the technical aspects by directing the Front End Engineering and Design for a 450,000 cbm bulk liquid storage and blending facility on newly reclaimed land at Jurong Island, Singapore.;
- Evaluated technical and commercial aspects of bids of all contractors and recommendations made were upheld by management;
- Recruited all key staff for the Operations of the Terminal and personally inducted them through hot commissioning and into steady-state Operations;
- Conceptualized the technical aspects and closely liaising with overseas engineering consultants and contractors for a similar facility in Colon, Panama. The rejuvenation and upgrade of an existing jetty structure is featured in this project as well;
- Conducted technical due-diligence for the project in Panama for acquisition;
- Conceptualized a Terminal in Balboa, Panama
- Conceptualized a Terminal in Klapeida, Lithuania for Baltic Fuels;
- Appraised sites in China and Egypt for suitability of constructing similar terminal facilities in 2006.

3. Highest office held in Terminal Operations: Terminal Manager (gradually raising from Maintenance Manager to Operations Manager in the same Terminal)

- Oversight responsibility of entire terminalling operations subordinated by a day-staff strength of 4, shift-based staff-strength of 32 and contractor-staff totalling 16;
- Devised mathematical models for determination of nameplate capacity of Terminals to evaluate optimization initiatives;
- Pioneered and developed a safe and economical procedure for the treatment of Hydrogen Sulphide-tainted Fuel Oils.
- Conducted technical evaluation and front-end re-engineering of a probable part-acquisition of an electrical power station in Singapore, inclusive spearheading modification efforts to suit the business;
- Managed upgrading of 7 x Class III tanks to Class I tanks valued at S$3.0 million in 2 months;
- Authored the mandatory maintenance manuals for the ISO 9002 upkeep.
- Trained operational staff for safe operation of all plants and equipment;
- Developed preventive/proactive maintenance schedule for entire facility;