Terminal Automation System at Panipat, India

IndianOil's Marketing Terminal at Panipat
The Panipat Marketing Terminal is one of the largest terminals of its kind. Owned and operated by Indian Oil Corporation Ltd. it is designed for loading hydrocarbon products onto trucks and railway wagons. Located in Panipat, 150 km from New Dehli in India, the terminal is part of a large facility also containing a refinery and a power plant.

Project Information
Indian Oil Corporation Ltd. selected ABB as their lumpsum turn-key vendor. The contract was for design, engineering, supply, installation, and commissioning of the complete Terminal Automation System (TAS). The loading of hydrocarbon product onto trucks and railway wagons are completely automated including order and report handling.

The capacity of loading is:
- 35 Loading bays for Trucks.
- 45 Loading arms for Trucks.
- 168 Loading arms for rail wagons.

At an average the Panipat Marketing Terminal handles loading of products (40% Petrol / 60% Diesel) on to 300 rail wagons and 2100 trucks every week.

The project was executed as a cooperation between ABB Industri, Norway and ABB India.
Client: Indian Oil Corporation Ltd.
Site: Hydrocarbon Marketing Terminal
Country: Panipat, India

Scope of supply:
- Tank Farm
- Mass Measurement
- Tank Gauging
- Interlock System
- Exit & Entry Gates
- Truck Loading
- Rail Loading
- Business Computer Communication
- 32 Tanks
- 1008 Valves
- 50 Pumps
- 400 Loading Arms
- 32 Gauges
- 141 Flow Controller Units
- 43 Security Card Readers
- 2 UPS Systems

Product details:
10 Process Controller (AdvantController 450)
2 Information Management (Advant Station 530)
3 Operator Station (Advant Station 520i)
3 Operator Station (X-terminals)
1 Engineering Station (Advant Station 515)