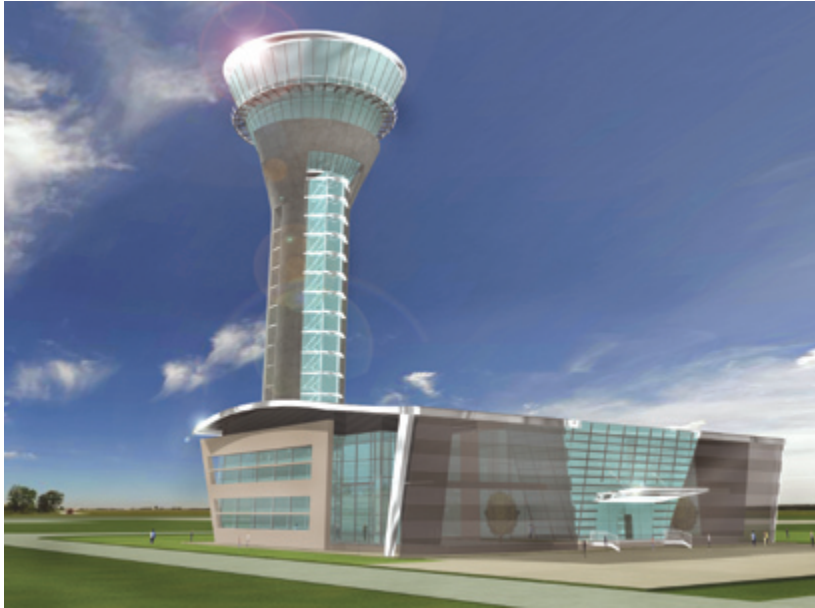


Electrical installations at Hyderabad International Airport, India



COWI has provided consulting services for the electrical installations at a new Category I airport, Hyderabad International Airport. The services form part of a comprehensive consulting programme that covers the entire airport. The consulting programme was carried out by COWI in association with Avioplan of Norway and STUP of India.



COWI provided the following types of services:

- Preparation of a master plan
- Engineering design
- Handling of interfaces to other works
- Preparation of tender documents
- Assistance to tendering and contracting.

The electrical works comprised:

- Power supply for the entire airport, normal supply from the public grid and emergency supply from diesel generators
- Airfield ground lighting, including intensity control systems, monitoring systems and tower equipment
- Radio-communication equipment for air-to-ground and ground-to-ground communications
- An integrated digital radar system comprising Airport Surveillance Radar (ASR) and a Monopulse Secondary Surveillance Radar (MSSR) with a common radar data processor
- Meteorological equipment
- Docking guidance systems

- Mobile 400 Hz power units and AC units for aircraft ground power supply
- Electrical installations in passenger terminal building and other buildings including 11/0.4 kV substations, distribution boards and cables. A centralized UPS for computer systems and emergency lighting
- Lighting in terminal building and other buildings including emergency lighting
- Building automation system for control and monitoring of HVAC, plumbing and fire-fighting systems
- Telephone systems (PBX), local area networks (LAN), SITA backbone access, master clock system
- CCTV (closed-circuit television) and public address systems
- TV/radio distribution systems
- Fire detection and alarm system, access control systems
- Lifts and escalators
- SCADA system.



Project period: 2003 - 2004

Client & Financing: Hyderabad International Airport Limited

Services rendered by COWI:

- Master plan
- Engineering design
- Tender documents
- Assistance to contracting