



## Transportation

### Client

Mumbai International Airport

### Location

Mumbai, India

## Mumbai International Airport (Chhatrapati Shivaji International Airport) Program Management

CH2M HILL is providing program management consulting services for the \$2-billion upgrade of Mumbai's Chhatrapati Shivaji International Airport in India.

The complex 5-year expansion and modernization program is constraint driven. The result will be to prepare Mumbai's sole commercial service airport to accommodate 40 million passengers and 1 million tons of cargo; current annual passenger and cargo volumes are 25 million and 500 tons, respectively, and have been growing at more than 15 percent per year. Identified capital projects include building a new integrated terminal building and modernizing an existing terminal, widening and strengthening the existing two runways, constructing and rehabilitating various taxiways and additional aprons, and improving various landside roadways and facilities. Support and ancillary facilities are also being planned, including a new air traffic control tower, new field electrical vaults, a new fire station, a central vehicle maintenance facility, and ground service and ground handling support facilities.

### Program Management Services:

- ◆ Development of program definition statements
- ◆ Scheduling and budget management
- ◆ Planning, design coordination, project management
- ◆ Construction management support
- ◆ Value engineering
- ◆ Risk assessment and management
- ◆ Commissioning support and co-ordination
- ◆ Stakeholder, regulator, and tenant co-ordination and communications

### Airside Improvements:

- ◆ Reconstructed and widened Code F Runways
- ◆ New parallel, high-speed, and right-angled exit taxiways
- ◆ New Code C, E and F Aprons – remote and gated
- ◆ Rescue and fire fighting station
- ◆ Temporary and permanent ground service equipment facilities
- ◆ Airline maintenance facilities
- ◆ Two new airfield electrical vaults
- ◆ Airport surveillance radar relocation
- ◆ Bomb pit and fire drill area relocations
- ◆ Drainage and utility work
- ◆ Safety and perimeter security improvements

### **New International Terminal (T2):**

- ◆ Approximately 35 wide-body contact gates
- ◆ Approximately 20 remote parking positions
- ◆ Phased decommissions and demolition of existing terminal

### **Existing Domestic Terminal Expansion (T1):**

- ◆ T1C link between T1A and T1B
- ◆ Related apron improvements

### **Landside Work:**

- ◆ Access roads and transit connections
- ◆ Mithi River and drainage system
- ◆ Water and wastewater systems, sewerage treatment plant
- ◆ Power supply, fuel storage
- ◆ Central heating, ventilation, and air conditioning plant(s)
- ◆ New air traffic control tower
- ◆ Airport administration building, airport maintenance facility, cargo facilities, and catering facilities

Parking facilities and temple/shrine relocation

#### **About CH2M HILL**

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