



Chhatrapati Shivaji International Airport

Mumbai, India

New Terminal 2

Mumbai International Airport, PVT LTD. | 2007 – 2014

As part of the design team led by Skidmore Owing and Merrill (SOM), BNP was retained to provide consulting services for the new Baggage Handling System at the new terminal to redevelop the airport. The project provided a new landside and airside terminal that will ultimately be capable of handling forty million passengers per annum.

The outbound baggage system consists of 8 check-in islands with a total provision of 106 counter positions connected to a series of transport conveyors. All originating and transfer baggage are screened using a 5 level in-line screening methodology.

The sortation subsystems are the pivotal component of the design. All outbound bags must go through the sortation subsystems to get to their assigned make-up carousel. There are 22 numbers of make-up carousals located on the apron level. The system design includes 2 tilt tray sorters to cater for the ultimate capacity of the terminal. The sorters are configured such that baggage is inducted on each 'end' of the sorter (North and South). All sorting destinations have 2 discharges from each sorter. The combination of the induction at each end and the double discharges theoretically results in 'double' capacity from a single machine and is thus highly cost efficient.

There are fourteen 90 meter long claim devices for both international and domestic arrival operations. Terminating baggage is unloaded at the terminating input conveyors. From there the baggage is transported to an automated in-line customs screening machine for customs screening.

There is also a simple, low cost early baggage storage system which consists of a series of manual shelves that can store a total capacity of approximately 1,000 bags. An inventory control system will be provided to keep track of the bags and prompt the operator when to remove the bag from the shelf and send them to the make-up units via the sorters. This semi-automated early baggage storage area is very cost and space efficient and easily expandable in small increments as the need for more capacity arises.



ASSOCIATES, INC.

BNP PROJECT TEAM

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BHS CONSTRUCTION AMOUNT

EST. US\$100 Million

REFERENCE

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SCOPE OF SERVICES

Conceptual Design
Design Development
Contract Documents