

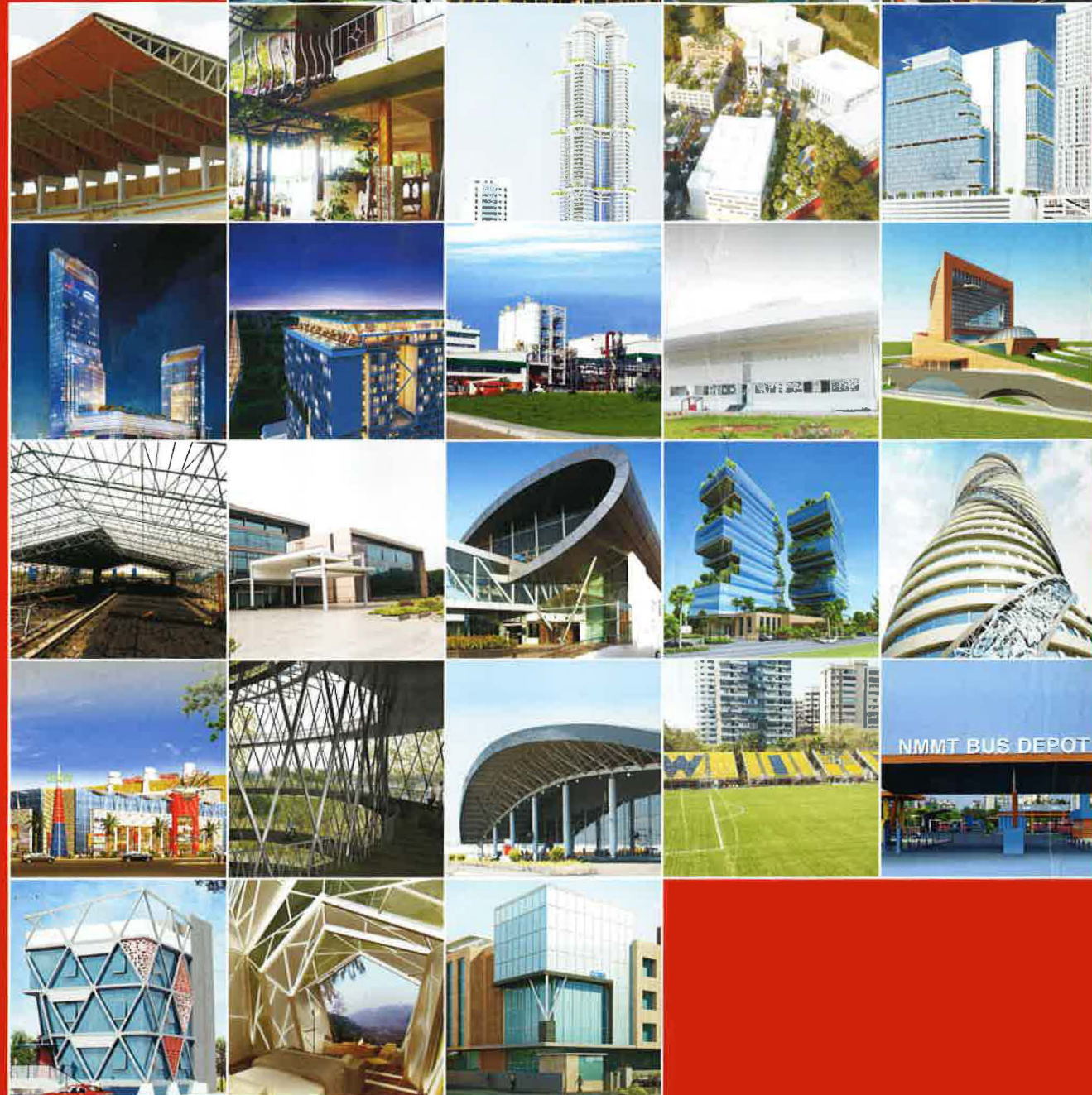
2016

STEEL STRUCTURES & METAL BUILDINGS

exquisite design collection

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VISUALLY ADMIRABLE

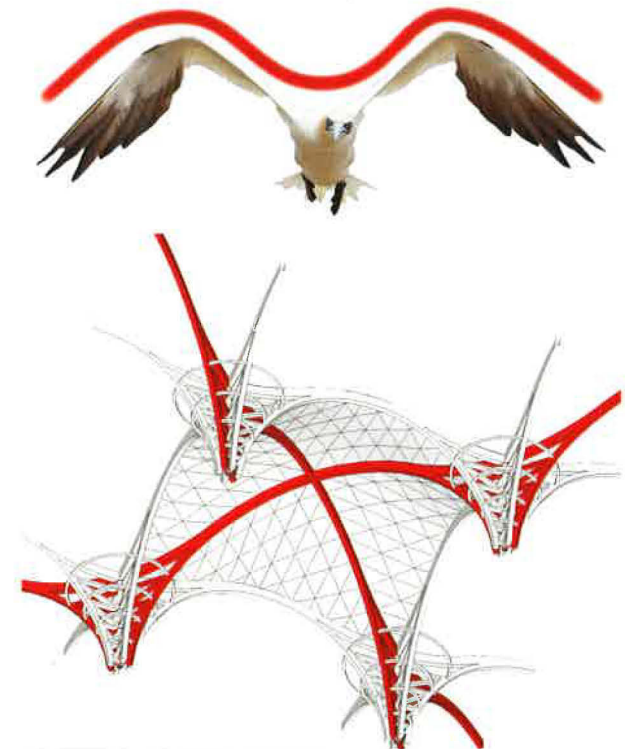
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NASHIK AIRPORT TERMINAL BUILDING MAHARASHTRA



DESIGN CONCEPT

Drawing upon the visual of a bird's wings in flight, the modular façade of Nashik Airport Terminal Building seeks to capture the same stance and spirit of momentum. Design of the terminal building was an amalgamation of two contradictory influences – the historic and religious heritage of Nashik City and the context of HAL's fighter aircraft facility being used for civil aviation. The 'arch', apart from being a historic element, is also one of the most efficient long-spanning structures. A large vaulted space is created using a curved roof sweeping across the length of the building, that forms the primary passenger concourse. The arched roof extends beyond the glass enclosure as a large canopy on both, the land and airside, bestowing an inherent monumentality to the structure. This simple, yet, majestic form is a iconic gesture that the visitors would instantly experience once they arrive.

STEEL APPLICABILITY

The tubular steel used for the roof weighs only about 250 metric tonnes since the use of steel has been limited to purlins and trusses. The primary load carrying members (columns & beams) are in reinforced concrete, thus, saving the cost of fire-proofing structural steel. The landside canopy cantilevers out by 8m with the help of a 112m long triangular truss in the transverse direction supported at every 16m. All structural steel work such as cutting, bending, welding and the profiling of aluminium roof panels out of pre-finished coils was done on site. The parabolic landside & airside canopy features, till date, one of India's longest standing seam Aluminium roof panels (122m) without any joints. The envelope uses materials with good insulation values to ensure that the air conditioning load is minimized. The roof has insulation layers sandwiched between the standing seam aluminium top sheet and trapezoidal bottom sheet (galvalume coated steel) which is perforated for good sound absorption.

STEEL SECTIONS

Rectangular hollow sections of size 240 x 120 x 8mm & square hollow sections of size 100 x 100 x 6mm

STEEL TONNAGE

250 MT (Roof Framing)

STATUS

Completed

