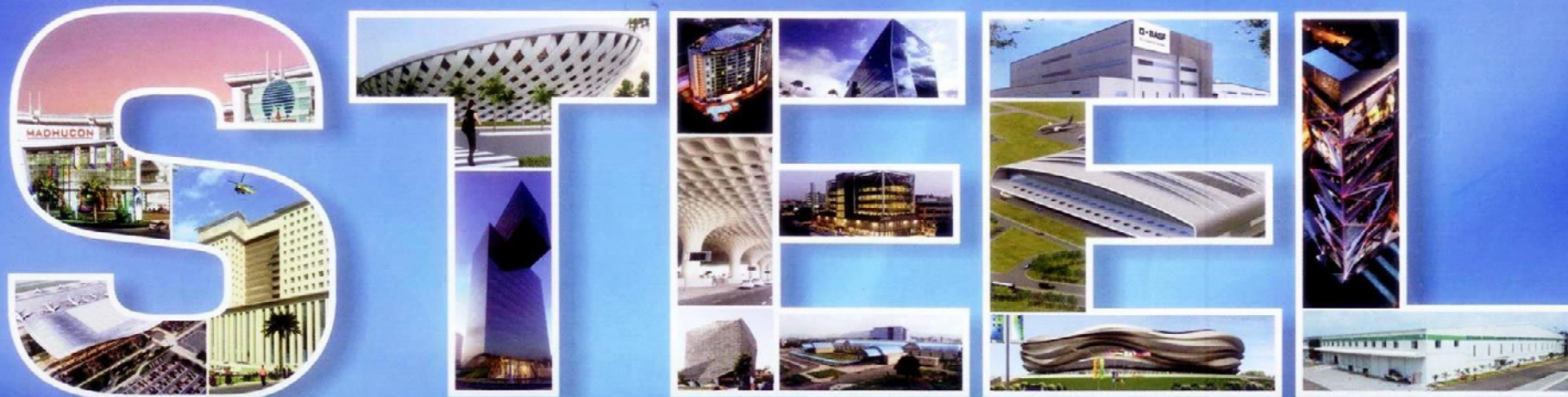


# STEEL STRUCTURES & METAL BUILDINGS

# Style Class Design in



Global Consultants  
**GENSLER &  
FREDERIC SCHWARTZ  
ARCHITECTS**

Architect & Consultant  
**CREATIVE GROUP**

# INTEGRATED TERMINAL VADODARA



**STEEL TONNAGE**  
1,300 tonnes

**STEEL SECTIONS**  
Tubular steel sections

**CURRENT STATUS**  
Ongoing



## DESIGN CONCEPT

The Terminal Building at Vadodara Airport is an iconic and sleek contemporary structure. Inspired by the body and wings of airplanes, the building creates a bold, sweeping form and identity and has one continuous aerodynamic metal skin. With focused design philosophy to increase the efficiency of resources, the architect envisioned the terminal as a Green building. The designers attempted to create a sleek and contemporary building that reflects the age in which it was built and the age it shall dwell through. The sweeping curves deliver a sense of elegant boldness and clarity. Much like the profile of the building, the interior spaces are maintained as column-free space and conceived as a single entity visual to make the circulation hassle-free.

## STEEL APPLICABILITY

The terminal stands on a pile foundation with R.C.C. Columns and tubular steel structure in the super structure. A tubular steel truss with large span structure along with plate portal creates a large cantilever of 16 m on the curb side. The complexity of the tubular steel structure lies in its engineering innovation by creating such large span cantilever at the mezzanine level without a balancing supporting floor in the rear. The steel structure is enveloped with double skin Tata scope steel sheet profile. The designers used polycarbonate sheets for the roofing to provide natural, glare free north light. The interface between roofing, steel structure, skylights and wall panelling has been resolved professionally with proper flashings and overlappings so as to avoid any leakages.