

PROJECTS

Chart 7 million commercial sq ft in Surat with #iGenWinner Abhishek Arora

Projected to be one of the world's largest single office buildings, Surat Diamond Bourse is an iconic project by iGen 2023 Winner Abhishek Arora of morphogenesis with a virtually consolidated built up area of nearly 70 lakh square feet.

July 12, 2023

SHARE



Situated within the 2000 acre DREAM city, this is a high rise complex with landmark buildings that include office complexes, exhibition complex, customs house etc. housing approx. 45,000 people.



Getting the green light

The architecture, for this development in a hot and humid climate , integrated active and passive design strategies have been adopted to approach the Green Building concept to achieve IGBC Platinum Rating.



The 9 towers that comprise of the office spaces have been oriented along the N-S cardinal directions to maximize daylight and ensure more than 90% naturally lit workstation area.

Connected to the core

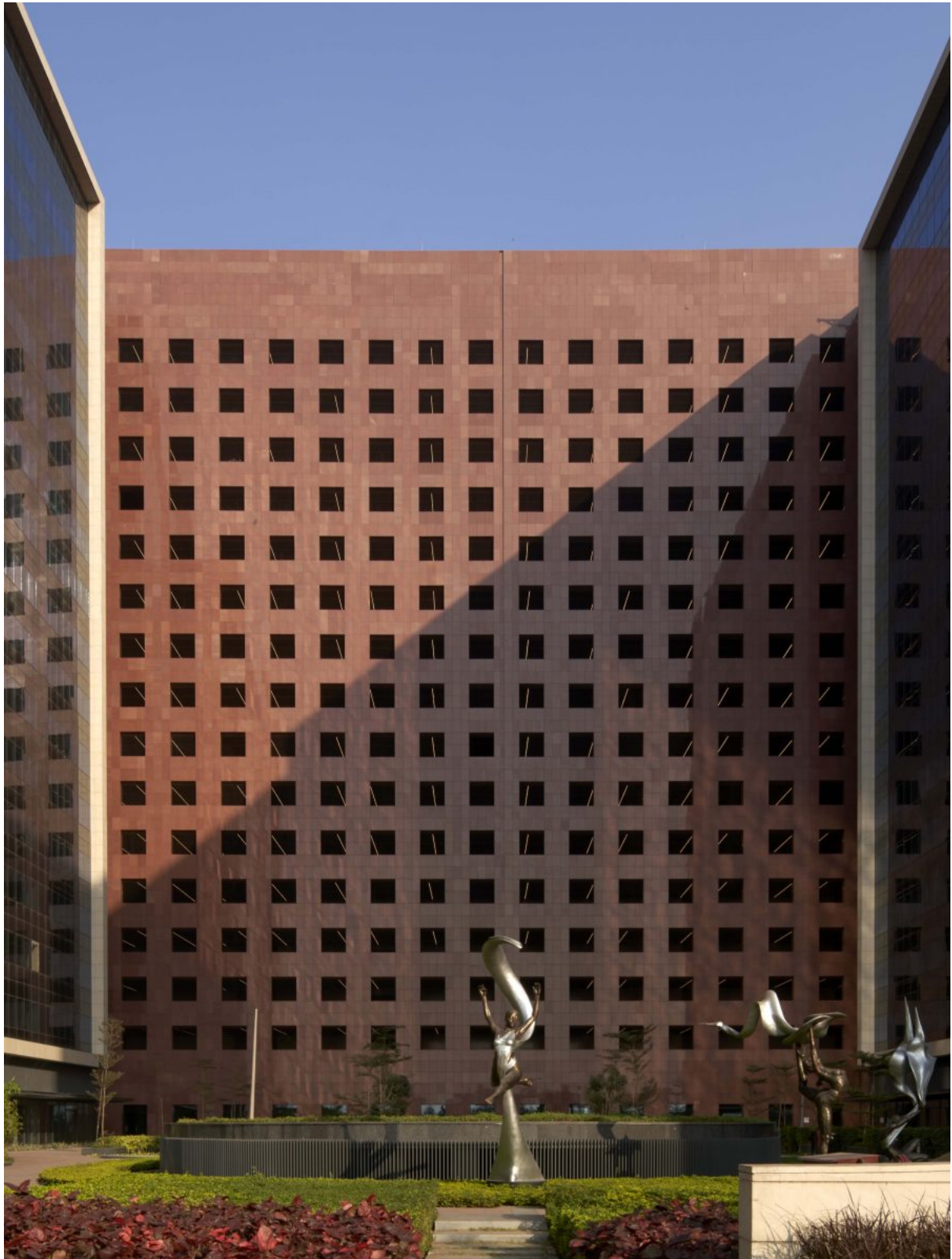
The central spine interconnected the towers is planned along the prevalent wind directions which enhances the passive conditioning of circulation spaces with natural ventilation through the open windows (with 20 kms of running length of radiant pipes per floor, the cumulative length is about 300 kms).

Time Space Design: Functional proximities were governed by optimizing travel distances right from the site entrance till the farthest possible office module in under 4-6 minutes.

- Grand entrance lobbies are located well within 50M or 1 min walk from each site entrance.
- Each vertical core is located with a 35 sec walk from each lobby.
- Secondary cores are located at a distance of 1 minute walking distance from the primary core.
- Max Horizontal travel distance on typical floor in 550 M.

The approach to elevate the users spatial and transitional experience across the building without highlighting the expanse of the structure was adopted. The central spine is designed as an interactive hub comprising of break-out spaces and green lungs with vegetation that not only has a psychological advantage but also improves the indoor air quality. These large green atriums act as relief pockets or green lungs that behave as natural air-filters and passively light the transitional spaces.





courtyards, shaded walkways, balanced green and paved cover and water features in the landscape that help to lower the perceptible temperatures.

Fact file:

Name of the project: Surat Diamond Bourse

Location: Surat, Gujarat

Area: 35 Acres

Type: Commercial architecture

Design firm: morphogenesis

Lead designer: Abhishek Arora

Learn more about [**iGen 2023 Winner Abhishek Arora here!**](#)
