

Symbiosis Knowledge Village LAVALE, PUNE

DESIGNER
Kadri Consultants Pvt. Ltd.

STEEL SECTIONS

230 dia MS pipes for columns
100, 230 and 300 dia MS pipes
for roof frame with pre-coated sheets

CURRENT STATUS

Completed



DESIGN CONCEPT

Sited on over 47,000 square metres of partially sloping land atop the Lavale Hills, the Symbiosis Knowledge Village is planned to seamlessly integrate with the contours and climate of the locale. The academic block is consciously planned to encourage interactions and inspire friendships amongst students. This is achieved by concentrating movement through the campus along a 'central spine'; a promenade formed by the organization of buildings. A variety in the quality and scale of spaces created, semi outdoors and outdoors further stimulates social engagements between students and teachers. The inner envelope of the building is composed of circulation elements, open corridors, shaded verandahs and light, steel staircases that form major student spill-out zones and break-out spaces. An eco-friendly design, the campus makes maximum use of natural light and winds to create a comfortable learning environment. The open courts are oriented towards the northwest, the predominant wind direction. This creates positive and negative wind pressure zones, funneling a cool breeze into the buildings and internal spaces. Building elevations are climate responsive; buildings are oriented with the longest façade facing north-south allowing ample glare free light into study areas. Being completely day-lit, cross ventilated and thereby, electricity free, the classrooms are ten per cent cooler than the outside. Building façades are fixed with a vertical steel trellis that supports climbers, to reduce vertical heat gain and arrest the dust. Terraced roof gardens for all structures help reduce horizontal heat gain.



STEEL APPLICABILITY

Steel sections are used for the roof over the entrance lobby and shaded porticos in the Symbiosis Institute of Business Management and Symbiosis Institute of Mass Communication blocks. Building façades are fixed with vertical steel trellises to support vertical landscape and provide shading. The steel staircases are also shaded with innovative steel louvers, while corridors are lined with steel railings. The steel sections being smaller in size against RCC members allow for more carpet area and better accuracy during construction. Further, the hollow sections add to the aesthetic appeal and character of the structure, making it appear light and porous, enhancing the experience of the semi-outdoors.

