

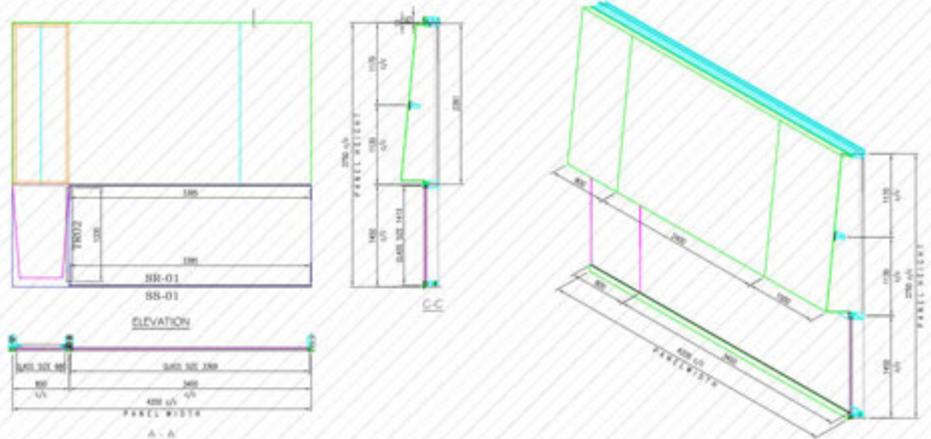
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RAMANUJAN IT CITY

The project: The design for Ramanujan IT City project, an IT complex, called for seamless unitised glazing of 17684.05 sq-m and an expansive ACP Cladding of 15193.47 sq-m. The building also included a glass light box within the facade that was designed from 9th floor to the 12th floor, with a span of 12m – cantilevering out from the roof structure.

The challenge: The challenges of logistics with large glasses that had to be installed on the external face of the building 50m above the ground, coupled with out of tolerance civil construction lead to a large number of non-standard brackets and support systems that were developed for the creation of this iconic façade.

The solution: In order to expedite the works at site and to reduce the reliance on unskilled site labour, Aluplex manufactured the largest unitised panel in the country, with dimensions



spanning 4.2m x 3.75m, wherein each panel weighed 105 kg. The panels were produced at Aluplex's manufacturing facility in Hyderabad and supplied to the project site. Despite the colossal size of each panel, the installations were completed within 20 minutes (per panel), with the help of an eight-member team.

The glass light box structure was a bolted glazing assembly that utilised

laminated glass. This posed a challenge to execute, given the high windload of 2.2 kPa and the elevated location of the building. The glass light box was, thus, fitted with an additional layer of glass on the inside (600mm from the external glass), thereby acting as a double skin façade, which results in passive cooling of the building during extreme climatic conditions.

Leading the field

Prodigious structures have long been stalwarts of the architectural culture. Characterising the skies of their city, their form, augmented by its most defining element – the facade, masterfully weaves the fabric of urban landscapes. And an entity that has teamed up with some of the most renowned architects and developers in this country deliver several such architectural landmarks is ALUPLEX.

ALUPLEX INDIA was established in 1981 and has achieved a leading position in manufacturing Building Façade Systems. At present, it has the largest curtain wall manufacturing base at Gadwal district in Telangana, which is equipped with the most advanced production and processing facilities.

In 2008, ALUPLEX built a modern state-of-the-art manufacturing plant in Hyderabad with the total annual production capacity of 200,000 sq-m. The CNC Machines are

sourced from Elumatec (Germany) and Wegoma (Germany – China), and the company has extensive and highly automatic sheet metal processing facilities with an in-house powder coating and PVDF line.

With the rapid and innovative development process and demand in India and overseas – ALUPLEX has exported and executed turnkey projects in Nairobi and UK, while simultaneously carrying out number of sites pan-India. ALUPLEX has developed advanced standard and bespoke aluminium windows and doors and high performance unitised glazing, skylight and canopy systems, point-fixed and cable-net systems, solar shading systems and metal panel roofing systems.

Their services cover pre-tender support, design, engineering, estimating, full production drawings, fabrication, assembly, delivery, installation and post-installation service. The team at ALUPLEX is equipped with qualified and experienced project



managers to co-ordinate these processes to the satisfaction of the Owner/Architect/Façade Consultant.

“SPEED + QUALITY = ALUPLEX” this is the mantra that is

understood by all at the company, combined with the advanced technology, efficient high-quality production and innovative design that has made them the leader in façade engineering in India.



India's largest aluminium fabrication plant at Gadwal, Telangana.