



Avana Residential, Parel, Mumbai

50- storey high-end residential tower at Parel, facade featured with various interesting cladding screens, creating a facade patterns. BES team has deeply involved from the concept to completion of this iconic architectural designs.



BES Scope of Services :



Facade Engineering & Consultancy from concept to completion including 3D BIM, Construction Quality Management
In addition to above scope, BES has been appointed for Site project management for facade works with 8 months full time site team.

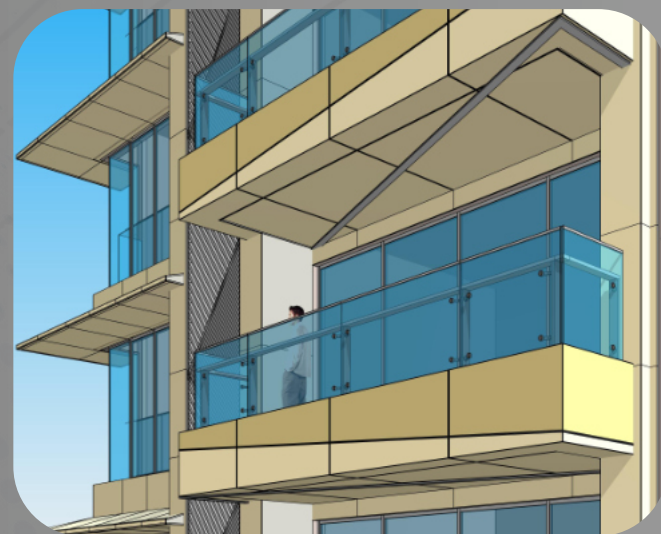
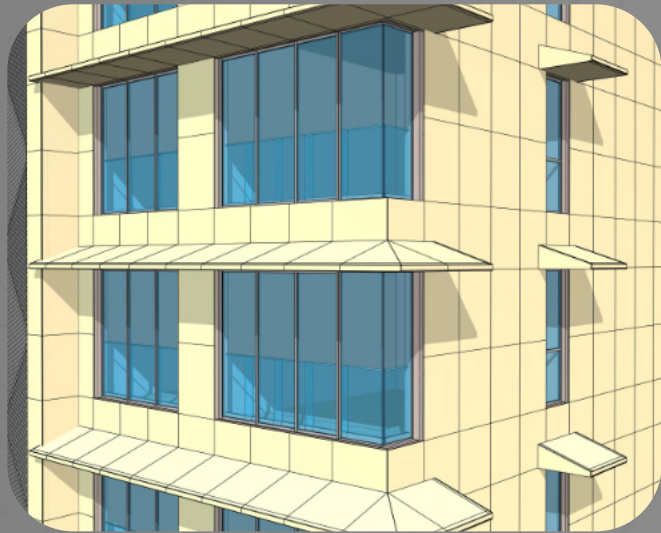
Project Details :

Client : Kalpataru Pvt. Ltd.
Architect : Hafeez Contractor & Orbit
Status: Completed Year 2022



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50- storey high-end residential tower with 6 floors of car parking, including a Club House etc. The project mix is a blend of all modern amenities, sufficient car parking facility, including a luxurious Club House Entertainment Hall, Kids' Play Area with a beautiful garden at open podium. The main entrance featured with wooden finished Canopy structure with frameless glass facade. Maintenance for the whole building has been planned through the terrace with rail-mounted Telescopic Boom BMU system. Parking façade is accessed through parapet mounted Davit base system with holistic cleaning approach. BES has prepared extensive 3d design documents for whole building, with 3d details of balcony cladding and sunshades, all design documents shown here are BES deliverables.



Project Challenges

- Whole building Cladded, require resolving complex geometries for cladding
- Sunshade, balcony supporting steel frame works, installation methods due to varying depth.

BES Value Add

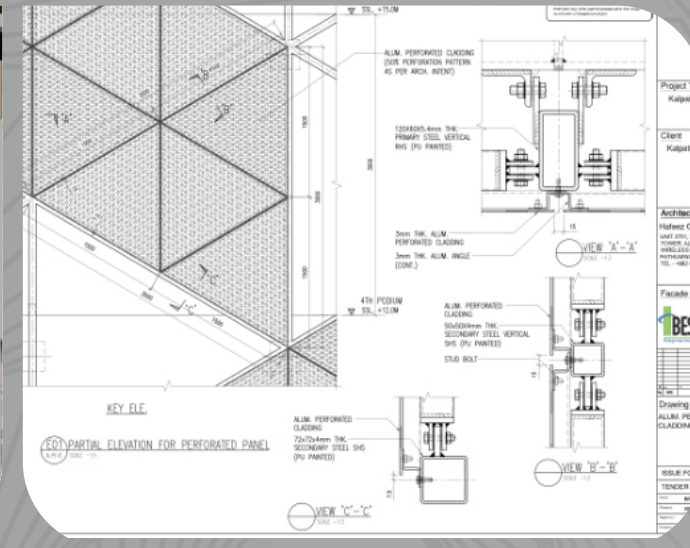
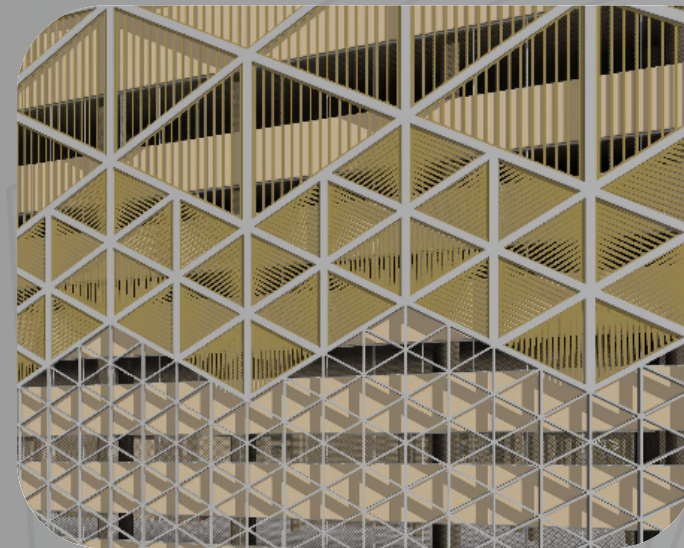
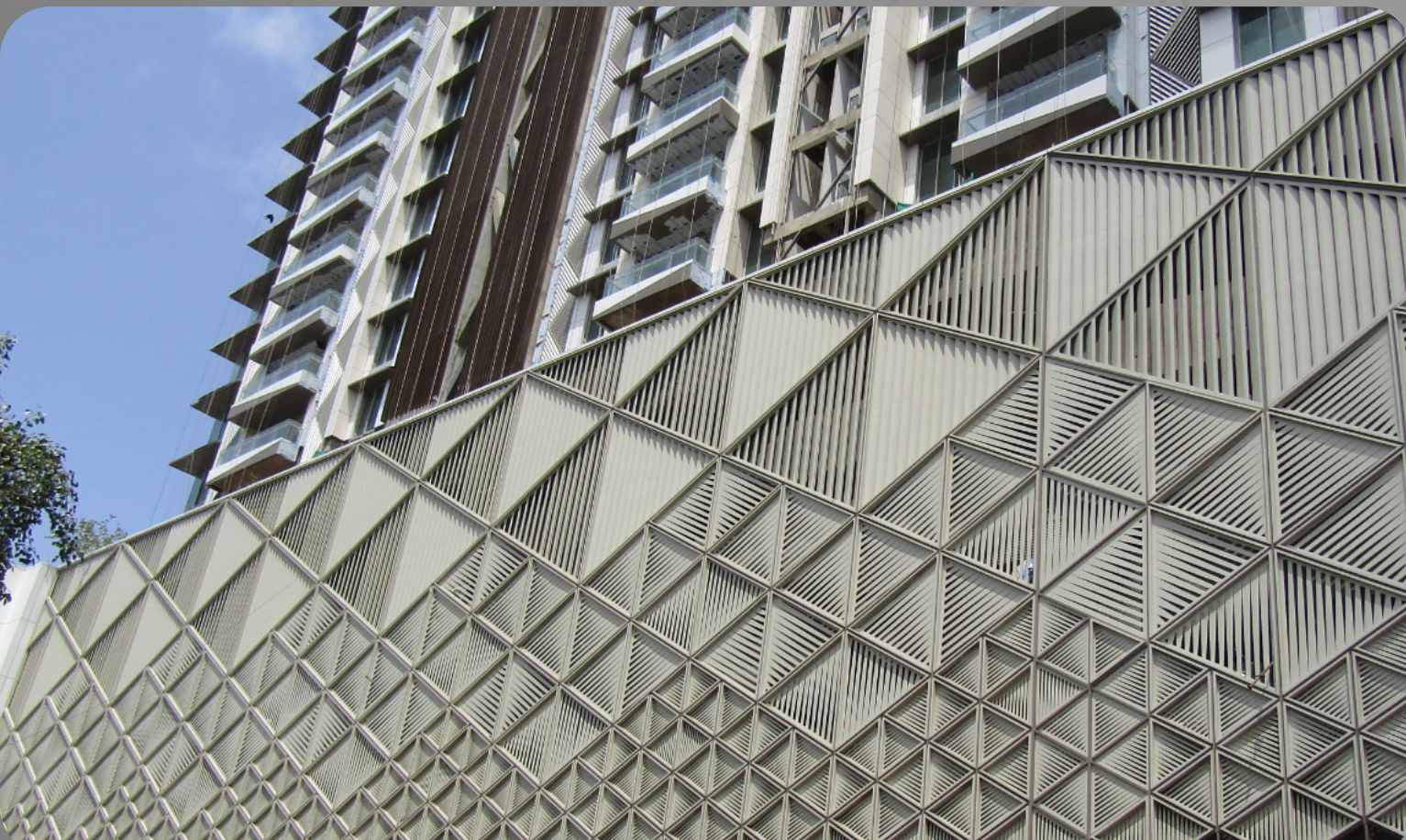
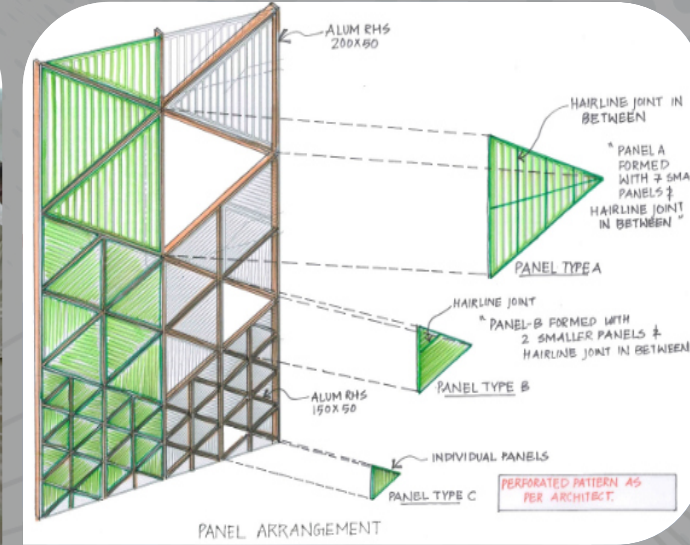
- Well resolved pre-construction details not just typical details, but resolved all non-typical key details
- Challenging design requirements such as high wind pressures and large size windows
- Fully developed 3d designs including whole building BIM model



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The podium façade is featured with laser cut aluminium cladding follows specific architectural design patterns. BES has deeply involved with detailed engineering and design of this cladding system including structural frame works, fabrication methods etc, All design documents shown here are BES deliverables.

BES team expertise with fabrications has helped the cladding fabricator to implement good fabrication techniques, cutting and folding techniques. BES team has extensively involved with fabrication checking, quality control, mockups.

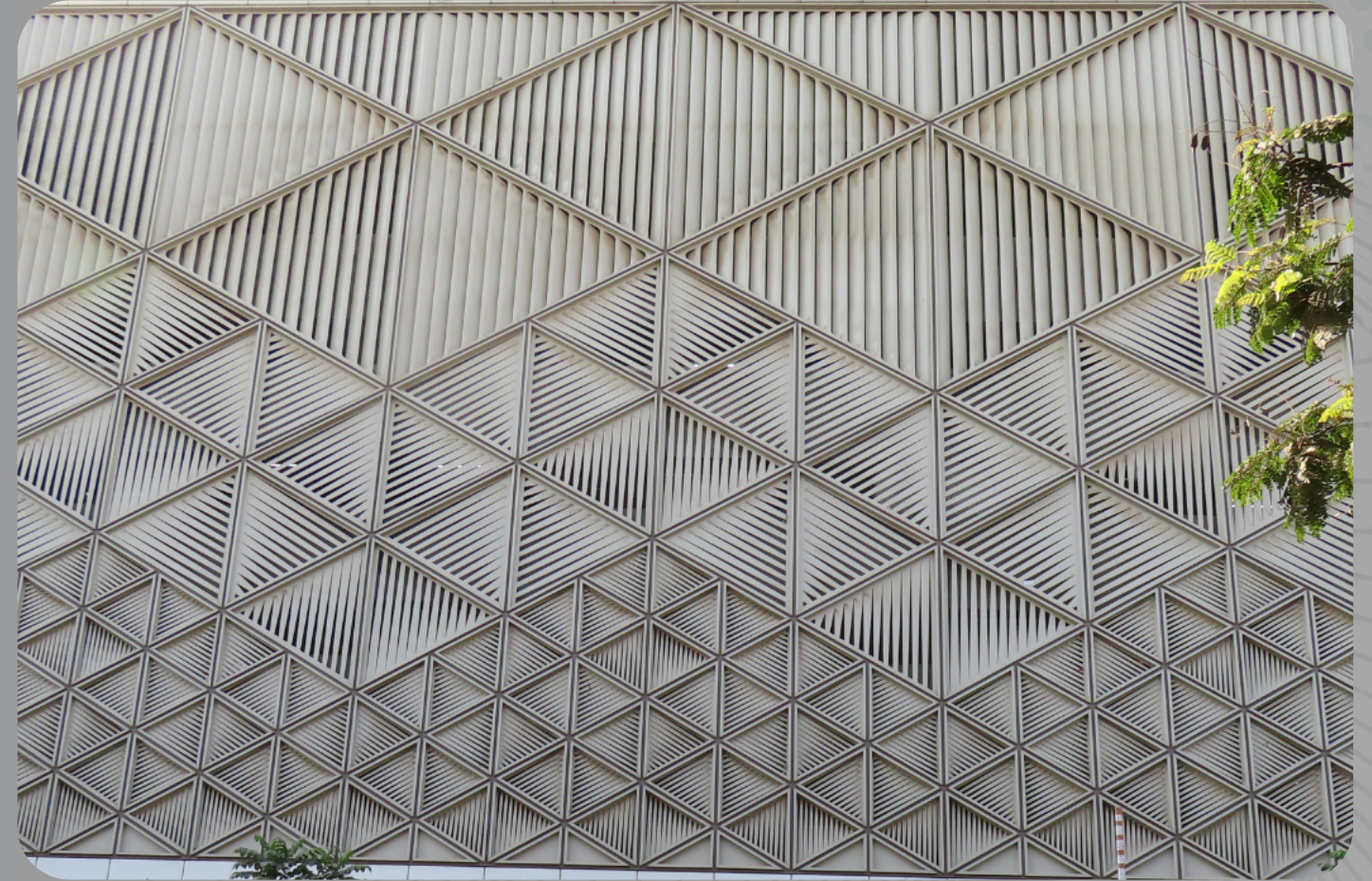


BES Value Add

- Fabrication techniques involves laser cutting, folding plates
- Steel design and detailing and preparing of good for construction shop drawings. Helped the fabricator in implementations.
- Good knowledge in 3d steel and cladding detailing
- Implementation of quality control at fabrication, help the cladding fabricator with skills and techniques



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Unique Architectural design implemented successfully with good quality facade works. BES team deeper level of involvement at construction phases with site project management of facade works helped the project success.