

WHEN FACADE, THINK AFS

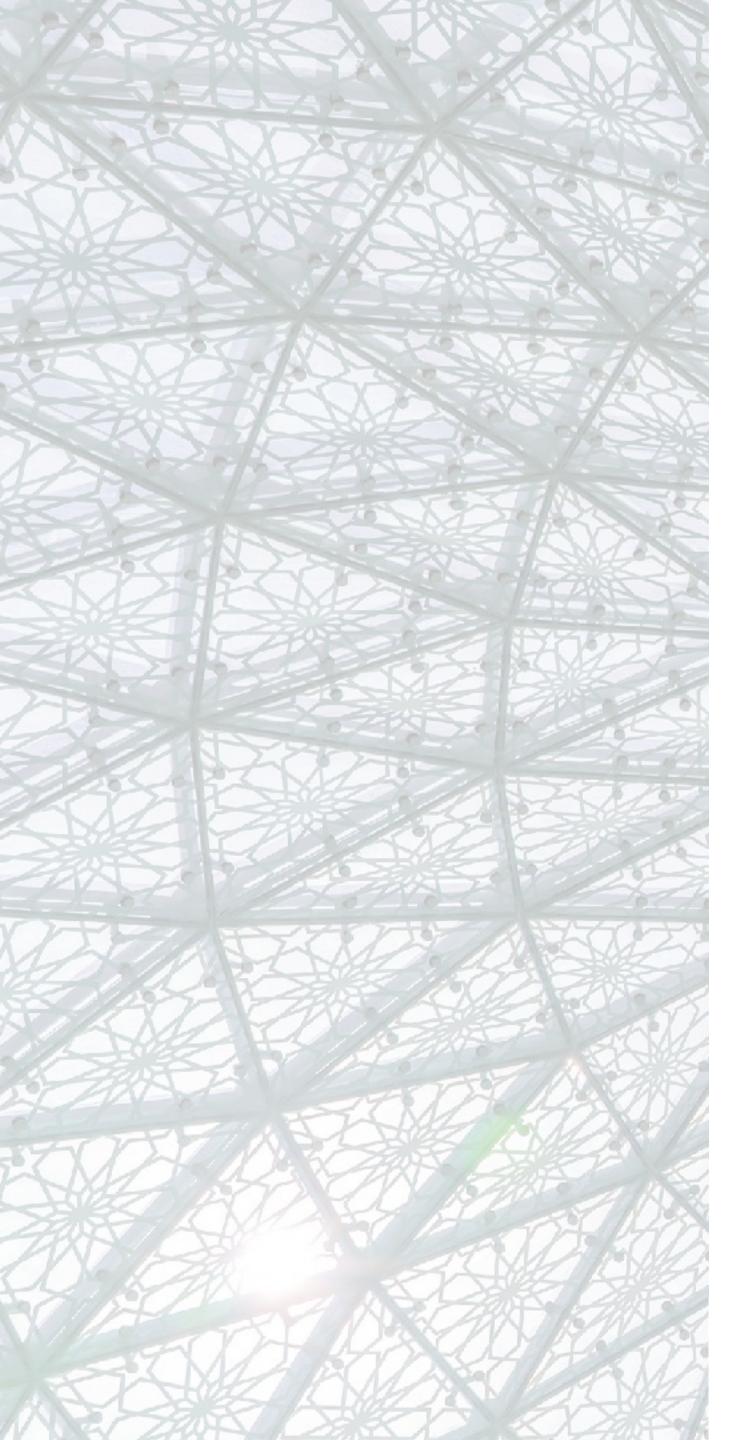
DESIGN ENGINEERING CONSULTING

WHO ARE WE

AFS is an independent design firm of designers, engineers, consultants, and technical experts, offering a wide range of professional services including design, engineering & consulting in the specialist field of facade engineering, external building envelopes, Architectural engineering. AFS has a team of individuals with international projects experience.

Together we help our clients solve their most complex challenges by providing simple and effective optimal solutions as we strive to build their vision.

Our clients are Developers, Architects, main contractors, curtain wall fabricators, facade contractors etc. We deliver our designs, drawings and calculations, in electronic format, to all regions of the world.



OUR SERVICES

FACADE CONSULTING

FACADE ENGINEERING

BMU CONSULTING

PEER REVIEW

PMC

BIM



FACADE CONSULTING

AFS is an independent design firm of designers, engineers, consultants, and technical experts, offering a wide range of professional services, including design, engineering & consulting in the specialist field of facade engineering, external building envelopes, Architectural engineering. AFS has a team of individuals with international projects experience.

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Concept Design

At this stage, AFS will assist the architect and all stakeholder in establishing the performance criteria of the facade. This will include evaluation of different design options and facade types, our assessment at an early stage could avoid the surprises in the later stage of design such as unworkable designs and cost-prohibitive. Our facade experts input, these issues are addressed before the design development stage.

Outputs

- Review of architectural drawings focusing on the feasibility and constructibility of the facade.
- Review of wind tunnel test report or wind load analysis as per local wind codes
- Review of facade design options
- Proposed facade types and different options available
- Proposed material options
- Concept design and provide different options for facade types.

Tender Documents

AFS will prepare a set of tender documents of a facade to be used for building envelope ad contact documents. This set of the document will include facade system details of each wall types, technical specifications PMU and VMU scope. AFS will submit tender documents covering the facade scope and performance.

Output

- Facade system design details set
- Facade technical specification
- Performance and Visual mockup scope
- Tender documents set

Design Development

At this stage AFS will develop façade design details incorporating all design aspects, this includes local code requirements, design basis report (DBR), structural integrity, thermal analysis, air and water infiltration specification, smoke and fire stop, integration of building maintenance restrain, and combination of façade lighting.

Output

- Facade type marks up elevation, glass type markup elevations.
- Facade design details with all details and focusing and resolving all critical interfaces along with typical design details and required 3D views.
- Design Basis Report

FACADE CONSULTING

Vendor Technical Evaluation

AFS will assist the owner and contracting team in selecting the capable and appropriate facade contractor for the project. AFS will provide technical assessment during the technical review meetings with bidders and review the technical documents submitted by bidders in relation with contact documents and materials and tender document compliances, AFS will interview bidders to verify there understanding of the project.

Output

- Instruction to bidders
- Responses to bidders queries for better understanding
- List Technical queries
- Technical evaluation report

PMU & VMU

Post-award of the facade work AFS will provide a review of Mock-up shop drawings and will observe the mockup and check compliance with structural as well as approved drawings sets, dimension verifications and documents the result.

Output

- Review of mockup shop drawings
- Review of visual mockup and submission of observation report
- Witnessing performance mockup test and presentation of observation report

Drawings & Structural Calculation Review

AFS will provide review and documentation of system drawings, shop drawings and structural calculations as per the local code requirements and in compliance with project documents and specification.

Output

- Review of shop drawings and structural calculations submittals
- Review of material samples and product data sheet submittals

QA/QC Inspections

AFS will conduct inspection at all stages of facade construction. AFS will photograph the process from fabrication, assembly, storage, installation and field testing. AFS will provide a report with observations and recommendations.

- Factory inspection report
- Site inspection report
- Filed test observation report

ENGINEERING SERVICES

All of the engineering services that are likely to be needed by a facade contractor, beginning with the structural design of a new system, and including preparation of rour reports to demonstrate compliance with all International design code like **BS, EN, ASNZ, ADM, IS** etc., can be provided by AFS

- Bespoke Design
- Concept drawings
- Shop drawings
- ► PMU/VMU drawings
- Structural Calculations
- Production drawings
- Material Take Off
- As built drawings



Thermal Modelling Services

AFS offers thermal modelling and analysis services to building facade system manufacturers and subcontractors during system design development and technical submission phases. We also offer these services to Architects and Construction Managers to establish design parameters during project documentation phases, for LEED® certification purposes or to diagnose condensation/frost formation after facade system installation. In addition to providing essential thermal services using Therm and Window, AFS can provide more advanced analyses using the ANSYS family of software packages.

BESPOKE SYSTEM DESIGN

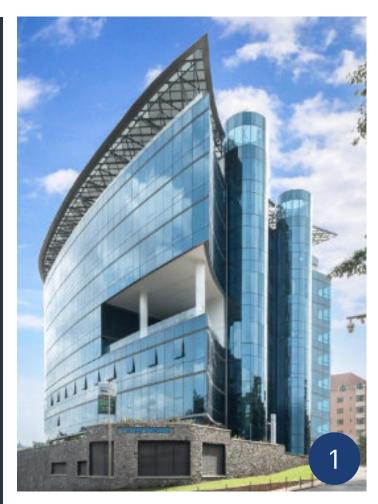
AFS develops innovative curtain wall systems, each of which is tailored to meet combining aesthetic, performance and economic considerations into best solutions to our client's needs for a building.

AFS develop a suite of Bespoke designed aluminium extrusions specifically for the project. This is the sort of design work in which AFS specializes. AFS develops the functional concept for a new curtain wall system, and then refines the shapes of the new aluminium extrusions and brackets, do structural calculations to minimize metal weight. We provide die drawings for each of the new framing extrusions and gaskets, and we specify production parameters such as the dimensional tolerance limits. We take the responsibility of PMU test performance.

Few remarkable bespoke system solutions provided by AFS Queen's tower 270 m tall high rise tower in Mumbai - AFS has provided bespoke system solutions with the most optimised solution in terms of aluminium consumption, structural performance and most important the air and water performance, sliding window system tested in the laboratory for 300Pa air, 720Pa water pressure and 4.5 Kpa structural load performance.

Unitized curtain wall system design solutions for many high-rise towers ranging from 80meter to 220meter tall, which are successfully tested for different performance requirements at an accredited testing laboratory.

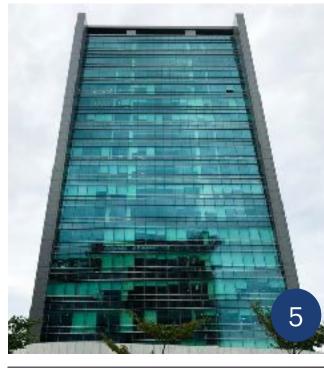
Our designed system has been used on many projects which are totalling 4.5 million sqft and providing high-performance protection to many commercial and residential inhabitants.



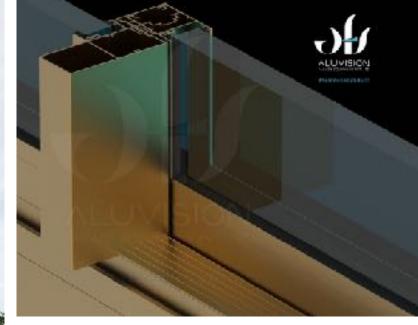












- 1. I & M Bank Nairobi
- 2. Nexworld Mumbai
- 3. ITC Campas Kolkatta
- 4. World One -Queens Tower - Mumbai
- 5. Meenakshi Towers Hyderabad

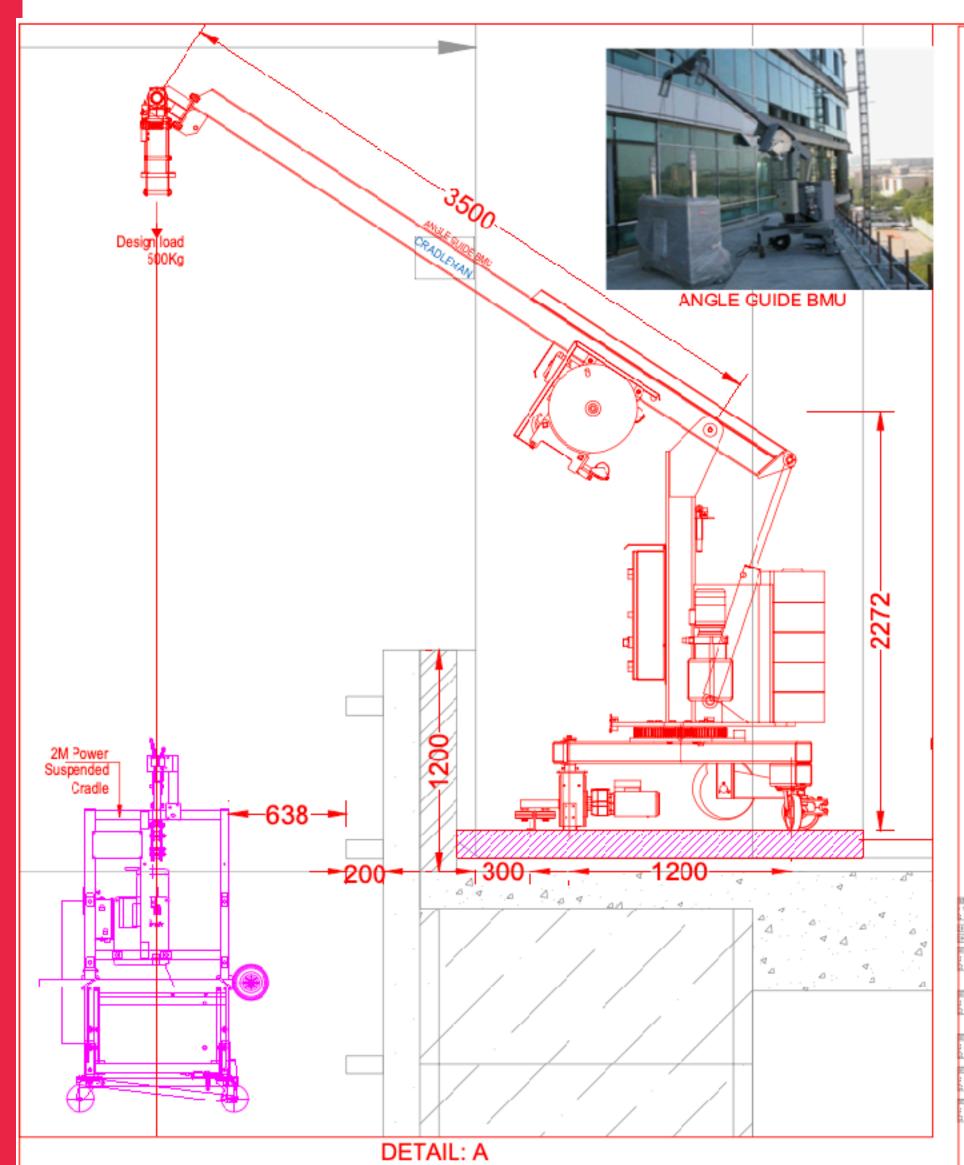
BMU CONSULTING

All building owners and architects want their projects to look stunning always, and we can achieve this by periodic cleaning of the building facade.

Our facade accuses solutions go beyond routine cleaning to encompass the long term strategy for facade maintenance and replacement of facade elements.

We assist clients and architects in the integration of building maintenance units for exterior and interior building maintenance.

- BMU system selection
- BMU structural analysis
- Reaction study for design on RCC structure
- Facade Restrain pin location and designs
- Cleaning cycle calculations





PEER REVIEW SERVICES

Architectural Documents

- Review and comment on the Architect's details of the exterior facade which include air, water and thermal properties, particularly at the critical interface and feasibility of the building envelope systems.
- Evaluate material selections and finishes, sealant detailing, and code considerations such as smoke/fire control, vertical separations at building envelope elements.
- Write or review technical specifications to establish appropriate performance criteria which account for building enclosure system tolerances, Advise on maintenance issues associated with the exterior wall, and incorporate building maintenance unit.

Shop Drawings and submittals

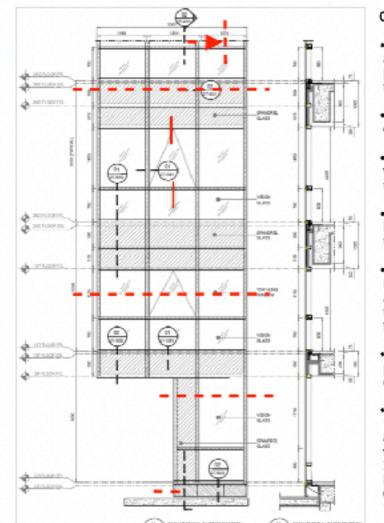
- Technical review and comments on contractor submittals to establish compliance with the design intent and project requirement.
- Review system provisions for internal drainage of water infiltration, thermal movement, building deflections, construction tolerances, sealing methods and product sue, fire resistance, and other performance requirements.
- Review and comment on structural calculations submitted by subcontractor to support their design submittals.
- Review and comments on anchor design considerations and actual site conditions.
- Review and comment on contractor's job specific quality control checklist for shop assemblies and field installation



Unitized system with only horizontal capping

Partial Elevation Dwg. No. - F- OHP - PE - 4001 reference drawings EL1003, there is no drawing name EL 1003 its EL4003.

Elevation shows vertical and horizontal capping, whereas detail in plan doesn't show capping.



OBSERVATIONS

- Plan is missing in drawings as marked on elevation plans are required to be included.
- Interface detail with stone cladding is missing.
- 01/DT5001 Openable window details are missing in drawing.
- Openable window top and bottom details are missing in PE marking.
- 01/5003 & 02/5003 tag marking on PE and details are not matching need to interchange the detail no from 1-2 & 2-1.
- @ ground floor left side plan detail is missing details.
- •If we refer detail no 1/5002 Horizontal sections are having capping, whereas detail no1/5003 & 2/5003 doesn't show any horizontal caps and 01/5011 shows capping of 150 & 50mm

PMC & QA/QC SERVICES

PMC & QA/QC

A successful building envelope that performs and looks stunning is a fundamental requirement of all stakeholders. Precise implementation, stringent quality standards & procedure during the whole process from design, engineering, procurement, production and installation is the key to a successful project. Project completion on time with excellent quality make a win-win situation for all stakeholder of the project.

We offer QA/QC and PMC services to ensure our client gets the most appropriate materials and excellent quality in a stipulated timeline. We always strive for exceptional quality and timely delivery of the project.



Terrace 60 29 31

Total 1528 576 459 606 104 48 3321



Rajapushpa Paradigm Project Nanakramguda, Hyderabad <u>Minutes of RIP Weekly Site Project Review</u> <u>Meeting with ALUFIT No 03</u>

| Logistic setup ALUFIT to ensure materials stacking at site and work place, storage area should be free of damages. ALUFIT to remove panels from north elevation ground floor. AFS and client will provide the location to shift the materials. UCW Progress status | i | Design/ M | ethod e | tatemen | tilPropos | 3 5 14 3 16 | nai subrai | 88 ID D8 . | | | | |
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"Do it right the first time"

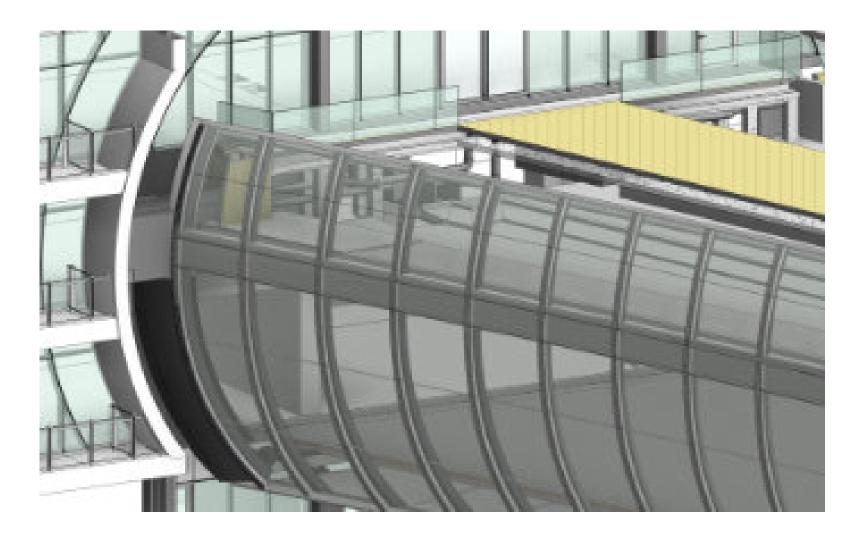
BUILDING INFORMATION MODELLING (BIM)

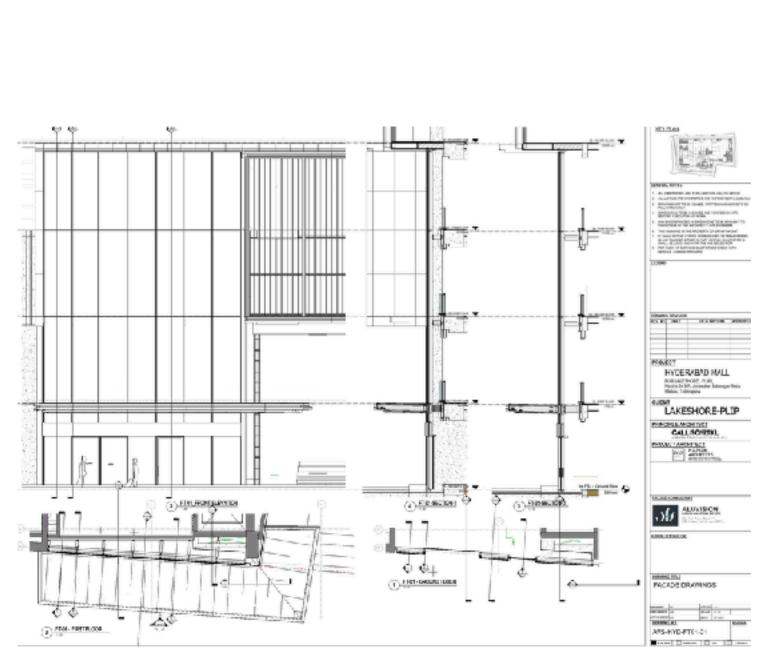
We trust change is the only permanent thing in the world and as per current international trend, we are on the forefront by adopting BIM for all our projects, 3D design platform on our mainstream of works. We are having hands-on experience on the BIM platform for Facade designing and engineering of external building envelopes on Revit which gives more clarity to all stakeholders understand clashes between facade elements and surrounding construction, and overall coordination between the structure and other treads at an early stage of a project and to totally mitigate the issues and make amendments accordingly.

At AFS we adopt a 3D design platform that helps us to provide fully integrated sustainable design aspects right from concept to implementation. We do not just rely on traditional facade engineering, but we invest heavily in new technology and getting the best of the result for whatever we do.

AFS utilizes the following software for 3D services

- AutoCAD 3D
- Revit Architectural
- Revit Structure
- Solid works









AFS-HYD-FT01-02

HYDERABAD MALL





75+

ENGINEERING PROJECTS

30+

FACADE PROFESSIONAL **55+**

CONSULTING PROJECTS

4+
Million square feet
WORK
DELIVERS

WE HAVE EXPERIENCE OF

45

m

IT PARKS

HOTEL

S

m

HOSPITALS MALLS

HIGH

TOWERS

MIXED **USED**

RISE

PROJECTS



Broadway Malyan & R. Chakrapani & Sons Meenakshi Group



SCB MEDICAL COLLAGE AND HOSPITAL - Cuttack

AECOM L & T CONSTRUCTION







RSP Design K Raheja Corp



Collage Design Architect
Odisha Industrial Infrastructure Development Corporation IDCO



Collage Design Architect

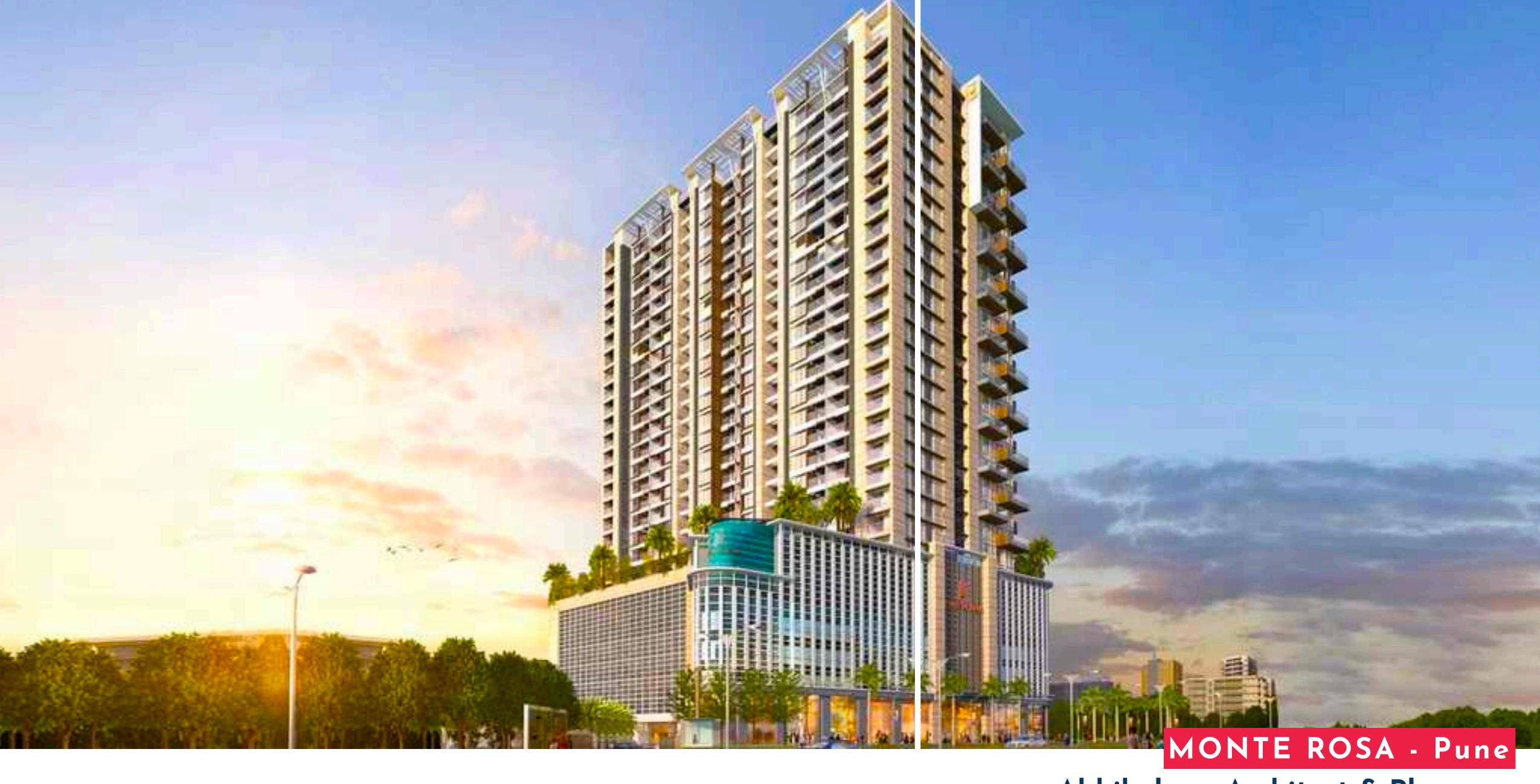


R. Chakrapani & Sons Meenakshi Group

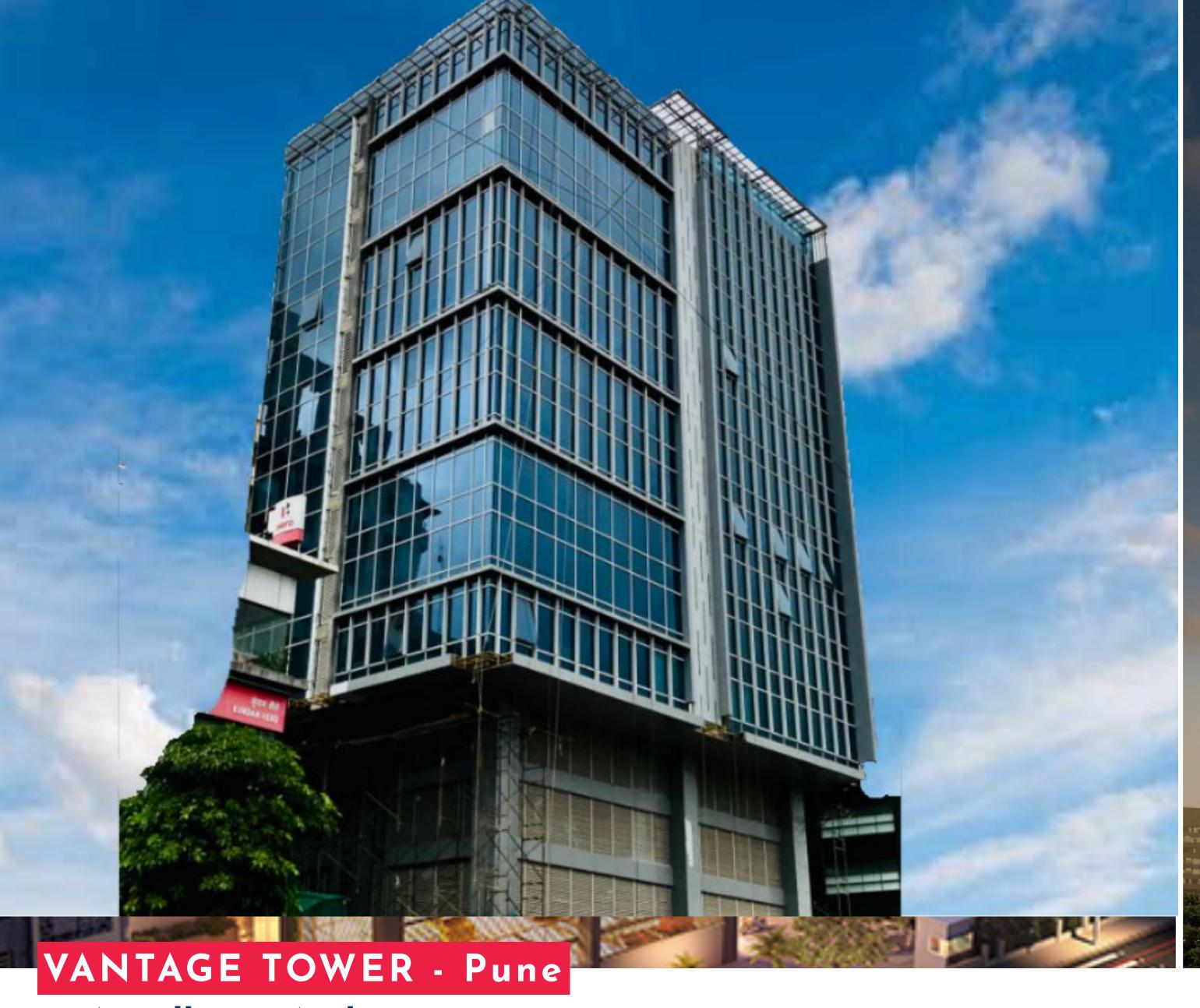
ALUVISION

LSR TUDORE- Hyderabad

R. Chakrapani & Sons
LSR Tudor



Abhikalpan Architect & Planners B. K. Infra Pvt. Ltd.



V A Kulkarni Architect **Bramha Corp**

ALUVISION



Bramha Corp



Ethique Architect & Associate Nyati Group



Abhikalpan Architect & Planners

ALUVISION

Abhikalpan Architect & Planners
Orbisoul Properties



Abhikalpan Archiecte Siddhashila Group



R. Chakrapani & Sons
Rajapushpa Properties Pvt. Ltd.



R. Chakrapani & Sons

DSR SR Infratech Pvt. Ltd.

ALUVISION

Genesis Architect & Planners

DSR SR Infratech Pvt. Ltd.



R. Chakrapani & Sons
BSSR



R. Chakrapani & Sons
BSSR



ALUVISION

R. Chakrapani & Sons Vamsiram Developers



Genesis Architect & Planners
Western Construction

ALUVISION

Genesis Architect & Planners Intercontinental Infra Structure



RAJAPUSHPA PROVIENCIA - Hyderabad

Genesis Architect and Planners Rajapushpa Properties Pvt. Ltd.





Genesis Architect & Planners Aparna Constructions Pvt. Ltd.

ALUVISION

RSP Design Phoenix Group





Marathon Realty Pvt. Ltd.

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Vraj Reality Achitype Arhitect



CRTKL - PG Patki Architect Lake Shore Management Pvt. Ltd.



Y JUNCTION MALL- Hyderabad

CRTKL - PG Patki Architect Lake Shore Management Pvt. Ltd.



GATEWAY MALL- Ahmedabad

CRTKL - PG Patki Architect Lake Shore Management Pvt. Ltd.



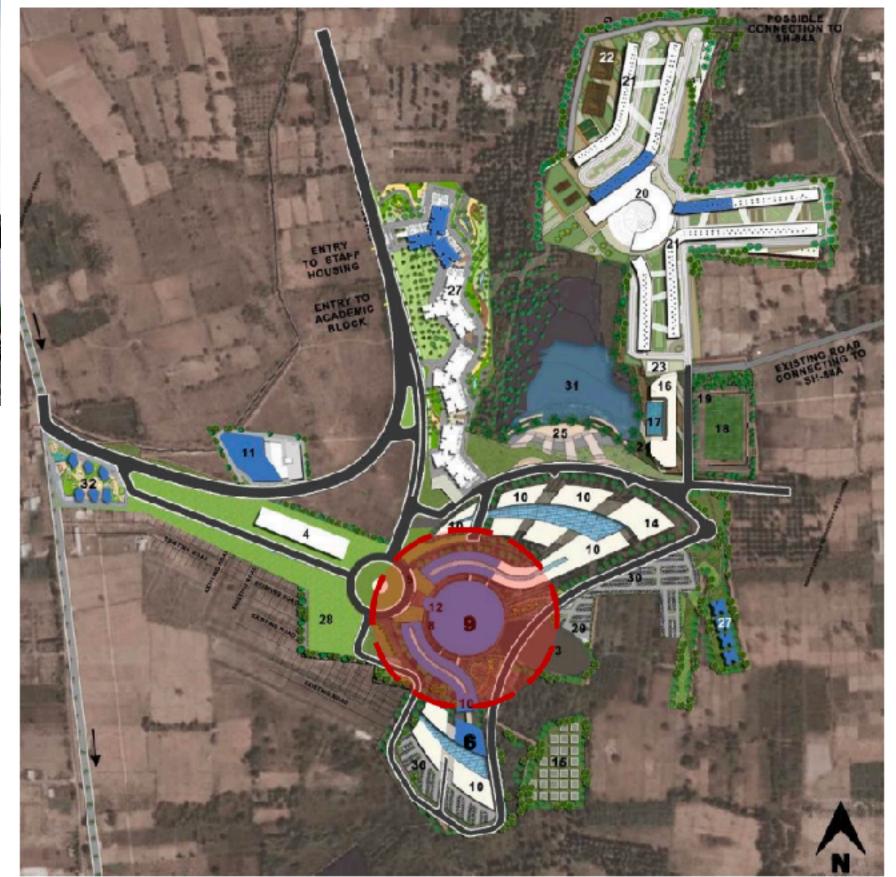
Hiten Sethi Architect
National Cancer Institute

ACADEMIC BUILDINGS

ICONIC BUILDING (CLASSROOM CLUSTER) & DEPARTMENT BUILDINGS















JSS ACADEMY OF HIGHER EDUCATION & RESEARCH - MYSORE

Hiten Sethi Architect



Hiten Sethi Architect Pvt. Ltd.

PMC

ALUVISION

SPCL

Collage Design Pvr. Ltd.



NMMC Hiten Sethi Architect Pvt. Ltd.



Hiten Sethi Architect
STERLING & WILSON



Genesis Architect & Planners Jain Constructions Pvt. Ltd.

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Ingenium Architect C S & K S Developers



N Cube Interiors



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D K ASSOCIATES
B. L. Kashyap







Ajmera Group Architect Hafeez Contractor

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Ajmera Group Architect Hafeez Contractor





ZEBIAN ALUMINIUM & GLAZING INDUSTRY LLP

YKK AP



ECHO GLASS



LnT Construction Ltd.
ARCHITECT: GENSLAR



ZEBIAN ALUMINIUM & GLAZING INDUSTRY LLP A L U V I S I O N

ARCHITECT: PASCALL + WATSON



ZEBIAN ALUMINIUM & GLAZING INDUSTRY LLP

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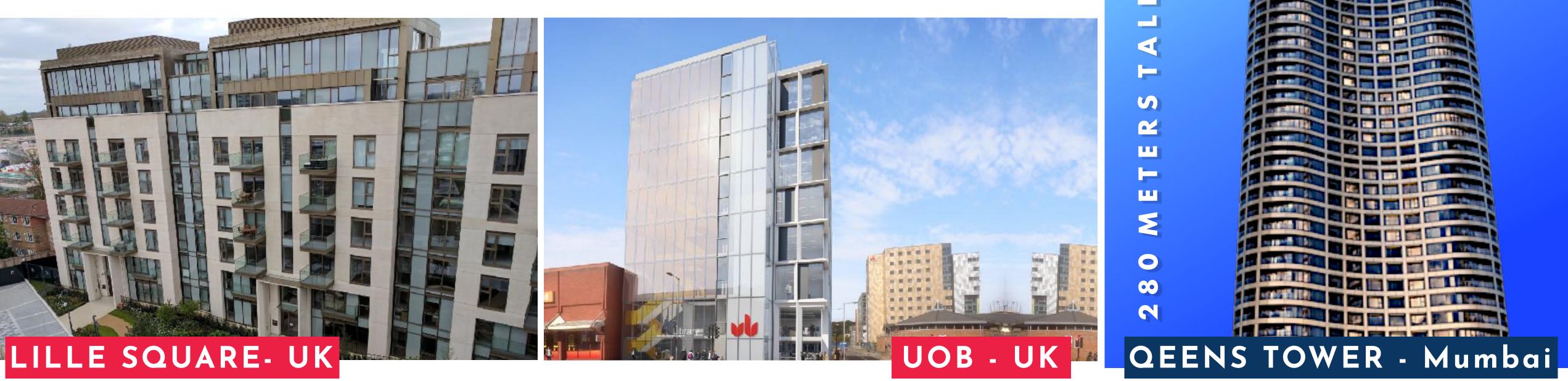
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