



Akshay J Kamath | Architecture Portfolio



# My name is Akshay J Kamath and this is my Portfolio

Throughout my career, I have successfully contributed to a variety of architectural projects, showcasing a comprehensive understanding of design principles, project management, and client collaboration.

- Proficient in Industry-Standard Software
- Generates creative solutions to design challenges as a part of a team

Other than my interests in Architecture and Design, I am also working on my own web app as a Passion Project titled "Schematically" to streamline and enhance the design process. This merges my passion for design and the efficiency of the machine into one, making the design process fun.

# AKSHAY J KAMATH

[architect.ajk@gmail.com](mailto:architect.ajk@gmail.com)

Bengaluru



## EXPERIENCE

- **4 Month Internship** at UTTHANDesign Architecture firm, Basavangudi, Bangalore
  - Involved in Commercial and Institutional projects alongside with Site Visits, client meetings and working on detailed drawings.
  - Studying and making 3D printing models in Rhino+Grasshopper
- **1 Year** at Girish M Swamy Consultants, Banashankari, Bangalore
  - Involved in Government Institution projects like Haveri and Chikkaballapur Medical College along with client meetings.
  - Understanding of Families, View Templates and Filters in REVIT for easier quantity checking
- **7 Months** at Studio3C, Bangalore
  - Involved in Residential, Commercial and Hospitality Projects
  - Making study models with Ladybug for radiation analysis for better design
- **6 Months** at VERBARQ, Bangalore
  - Involved in Residential, Hospitality and furniture design - proposal of design to client and meeting vendors for finalizing designs

## SOFTWARE PROJECTS

- Web development <https://www.schematically.org/>
- Working on a Passion Project titled "Schematically" which provide a platform for architect and students to streamline and enhance their design processes, crafted with intuitive tools and resources. <https://github.com/architectajk>
- Familiar with HTML, CSS, Javascript & React Framework
- Use of GIT for Version Control and Github Actions to deploy to Hostinger
- Computation Design
- Masters in Computation Design Course from NOVATR
- Practicing Real CaseStudies for Presentation and Fabrication
- Scripting in C# & Python for making customized components in Rhino Grasshopper

## SKILLS

### 2D Drawing

Autocad

### 3D Modeling

Sketchup - Rhino+Grasshopper - Revit

### 3D Rendering

Lumion - Vray - Blender

### Adobe Creative Suite

Photoshop - InDesign

## EDUCATION

### B.Arch - BMS College of Architecture

2017 - 2022 CGPA - 8.45 (74%)

### PUE - Sri Sarvajya Composite PU college

2015 - 2017 CET/NATA - 13 Rank/Score 145

## LANGUAGE SKILLS

English

Konkani - Native speaker

Kannada

Hindi

## CONTENTS

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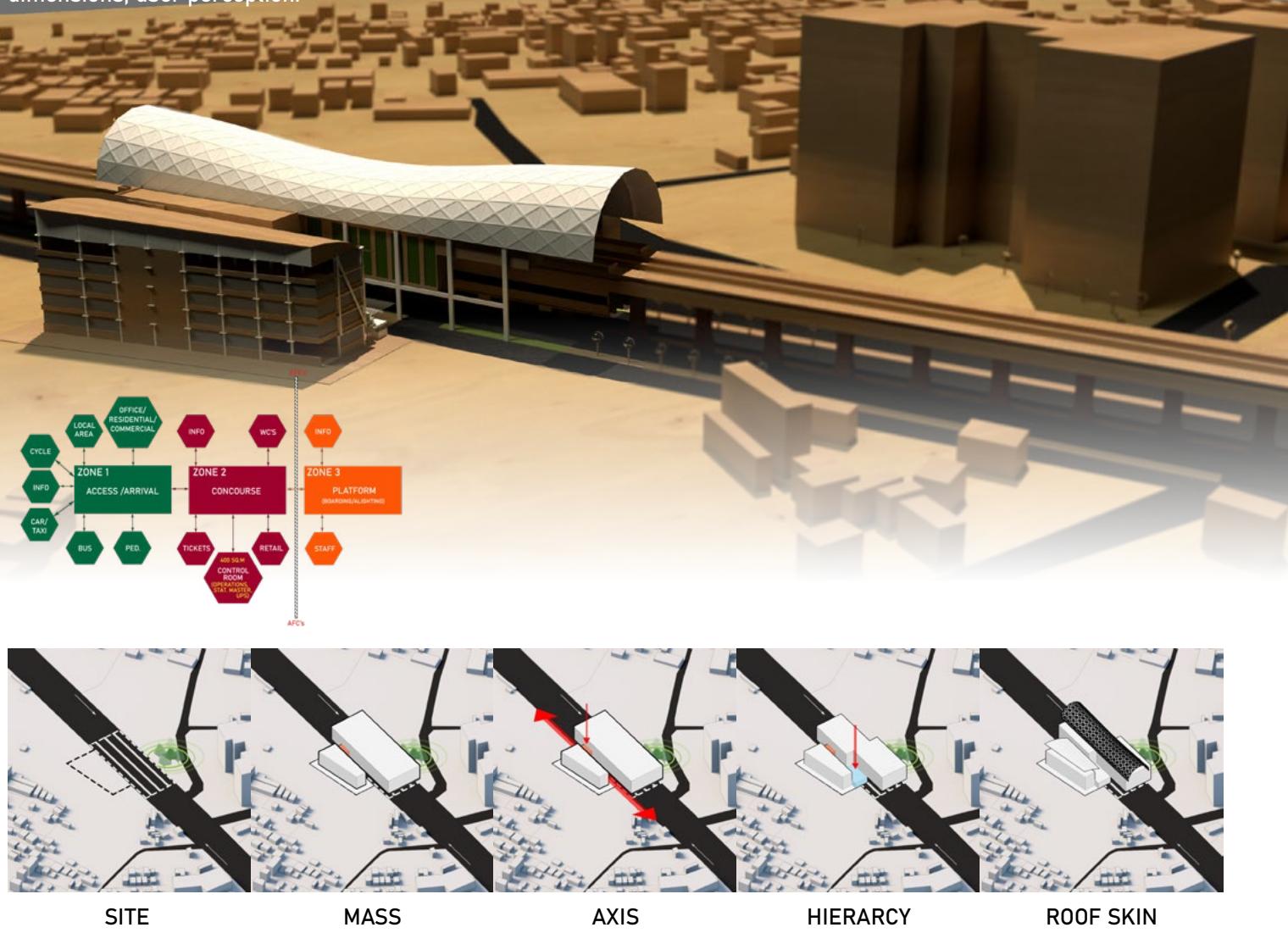
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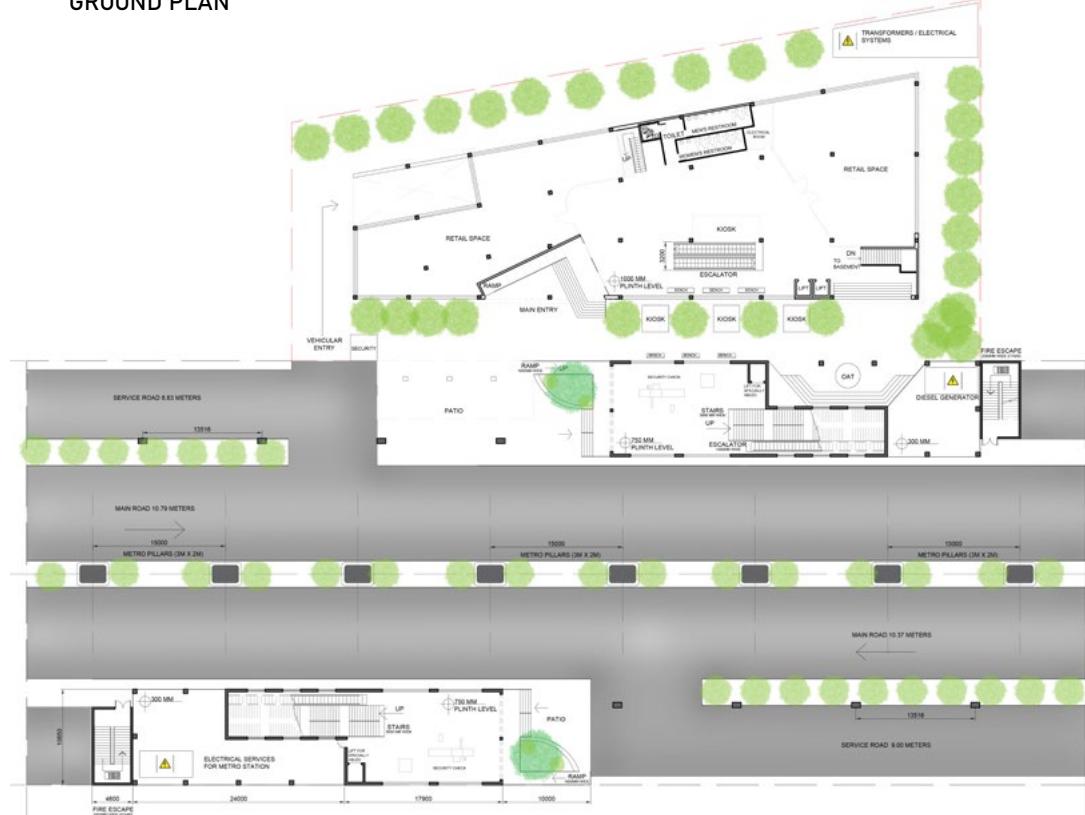
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# METRO STATION, Mahadevapura

AIM - To understand the need for creating architecture as an envelope to system dependent program and abstract character of architecture (symbolism, aesthetics, identity) in the public domain; influence of socio-cultural, economic dimensions; user perception.

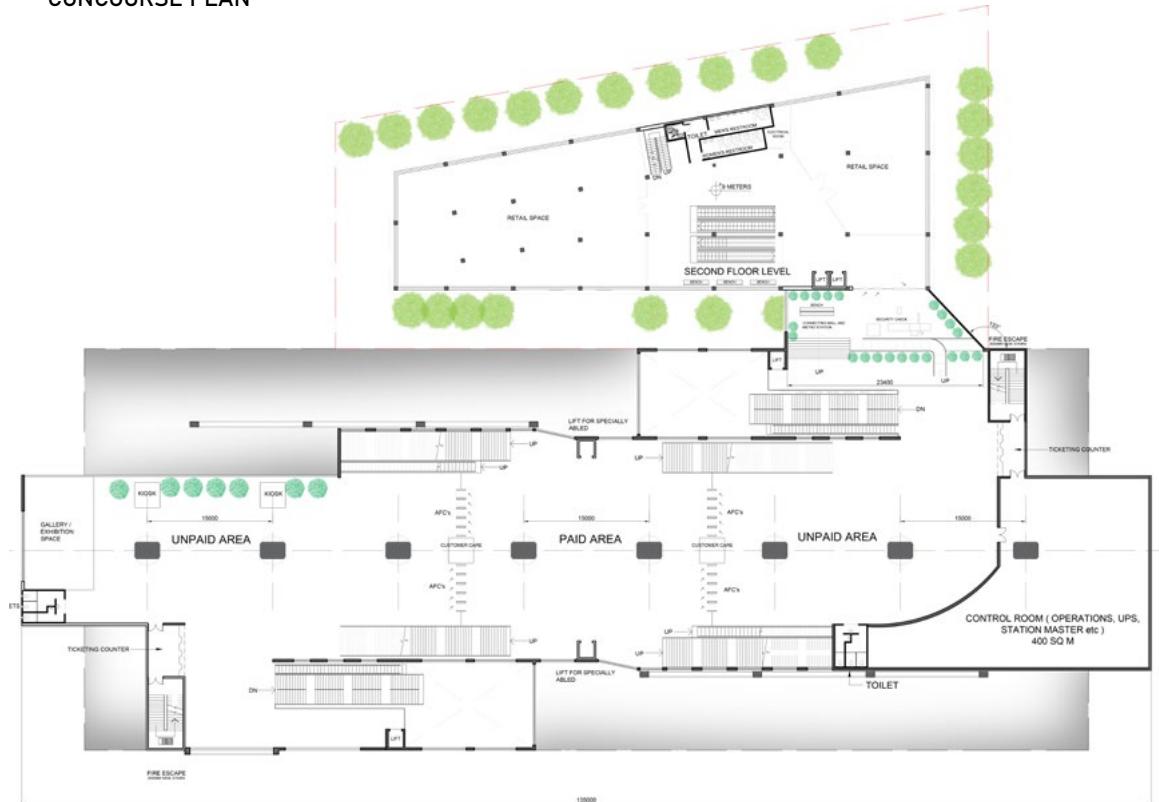


GROUND PLAN



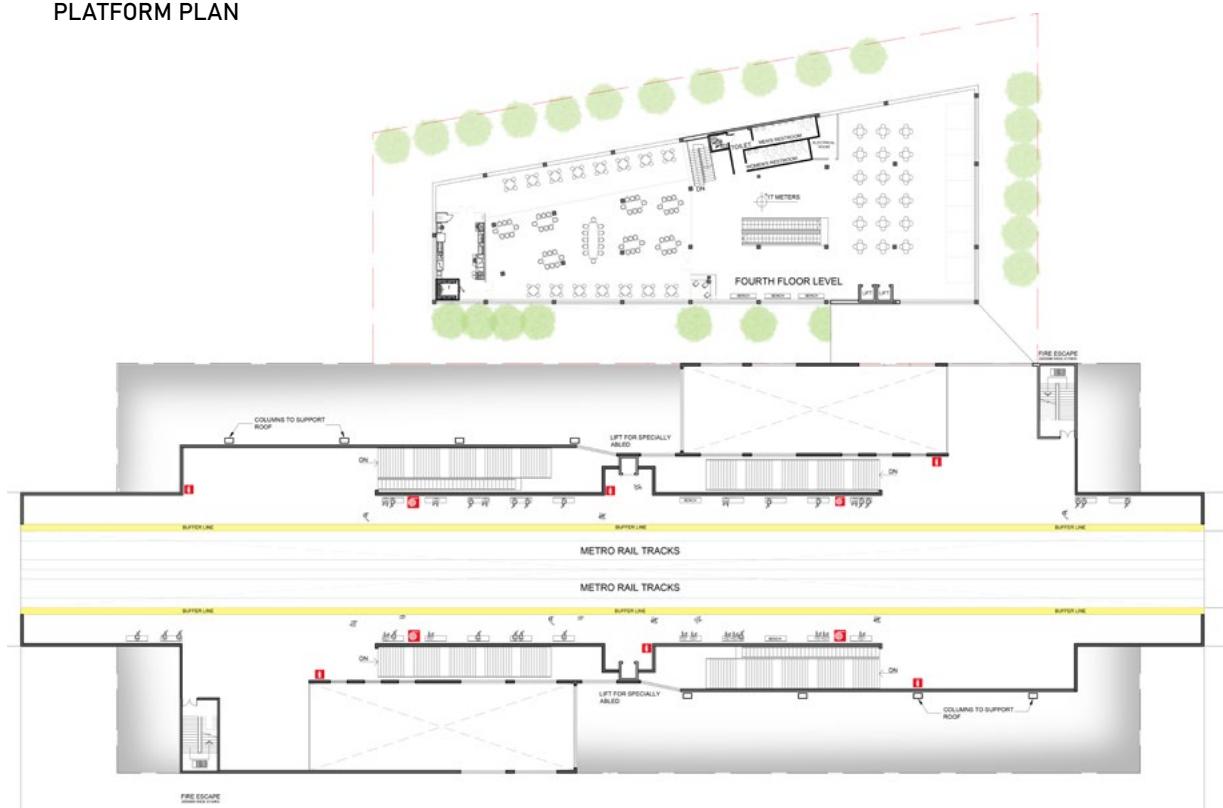
5. Metro station

## **CONCOURSE PLAN**

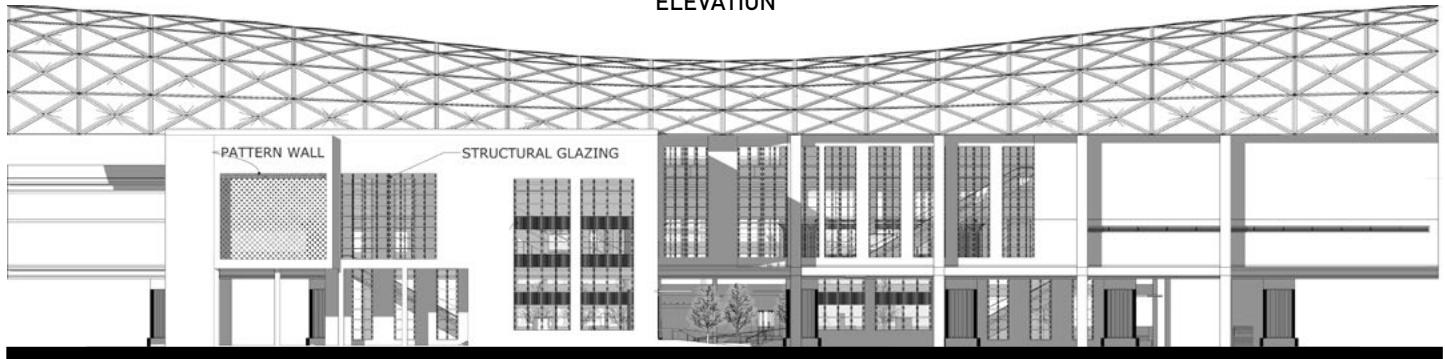


## ENTRANCES

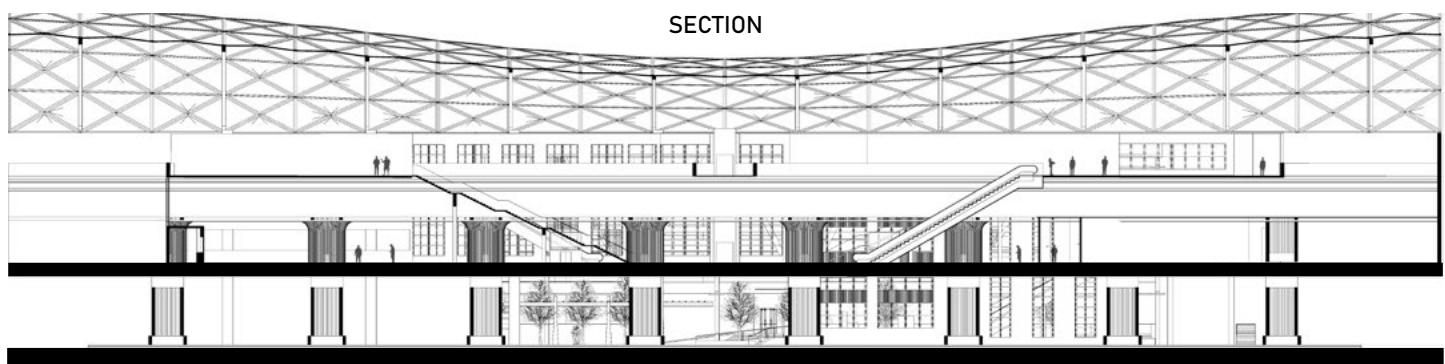
## PLATFORM PLAN



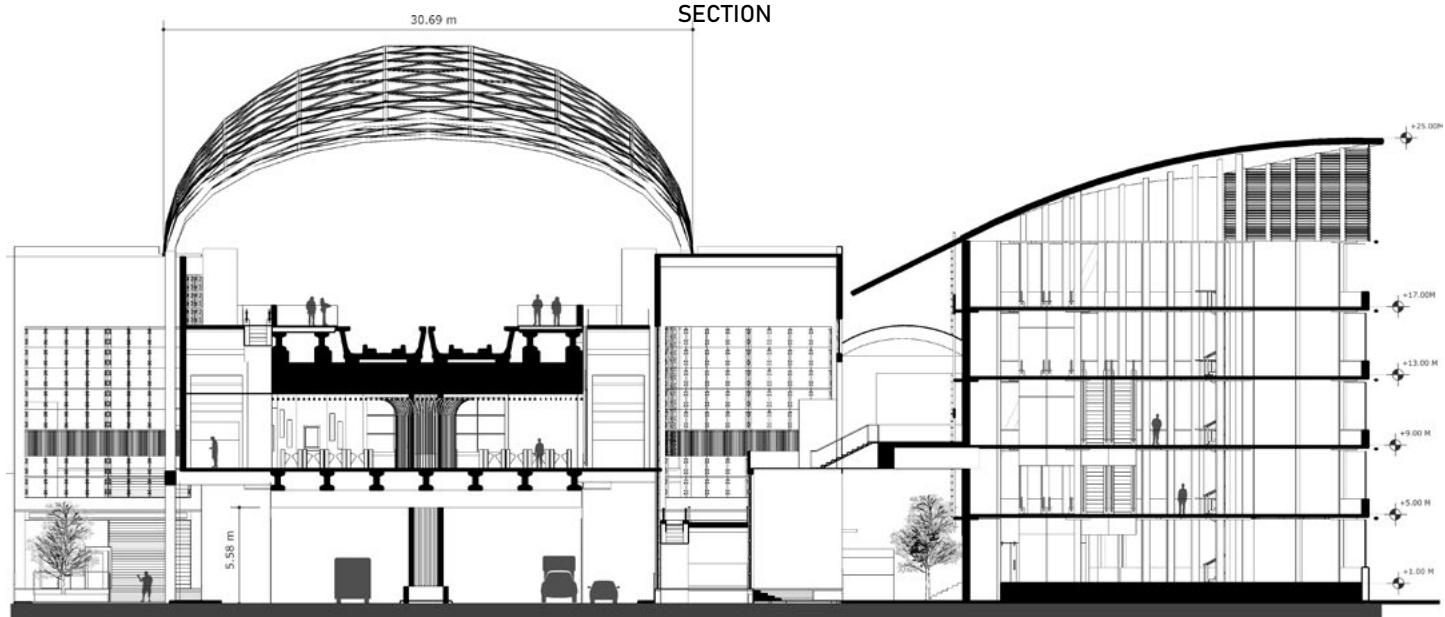
ELEVATION



SECTION



SECTION

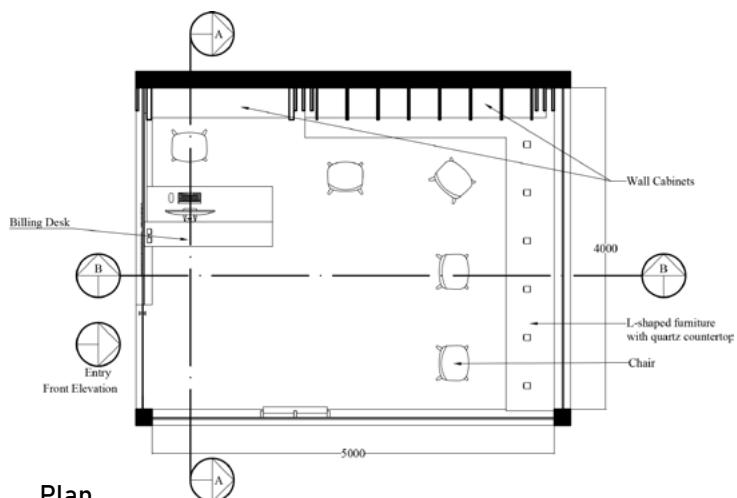


7. Metro station

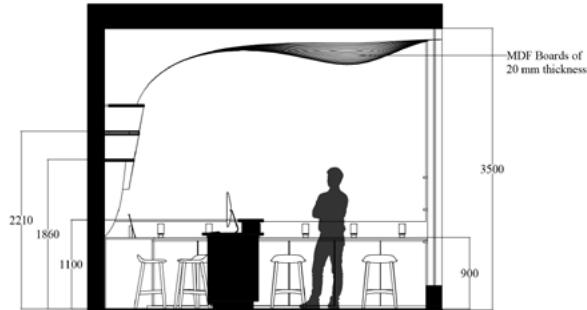
# APPLE STORE

Apple design is influenced by Bauhaus design philosophy :

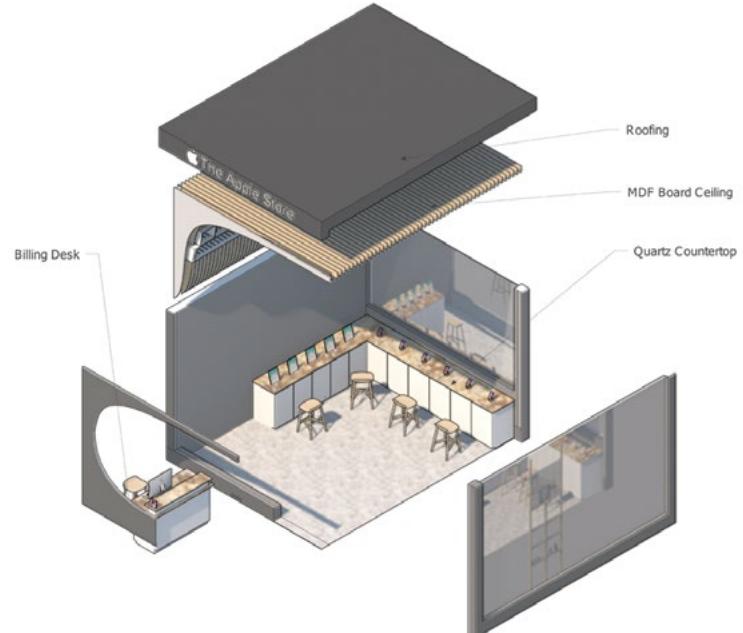
- Form follows function
- Minimalism
- Simplicity and Effectiveness
- True colour of Material



Plan



Section A



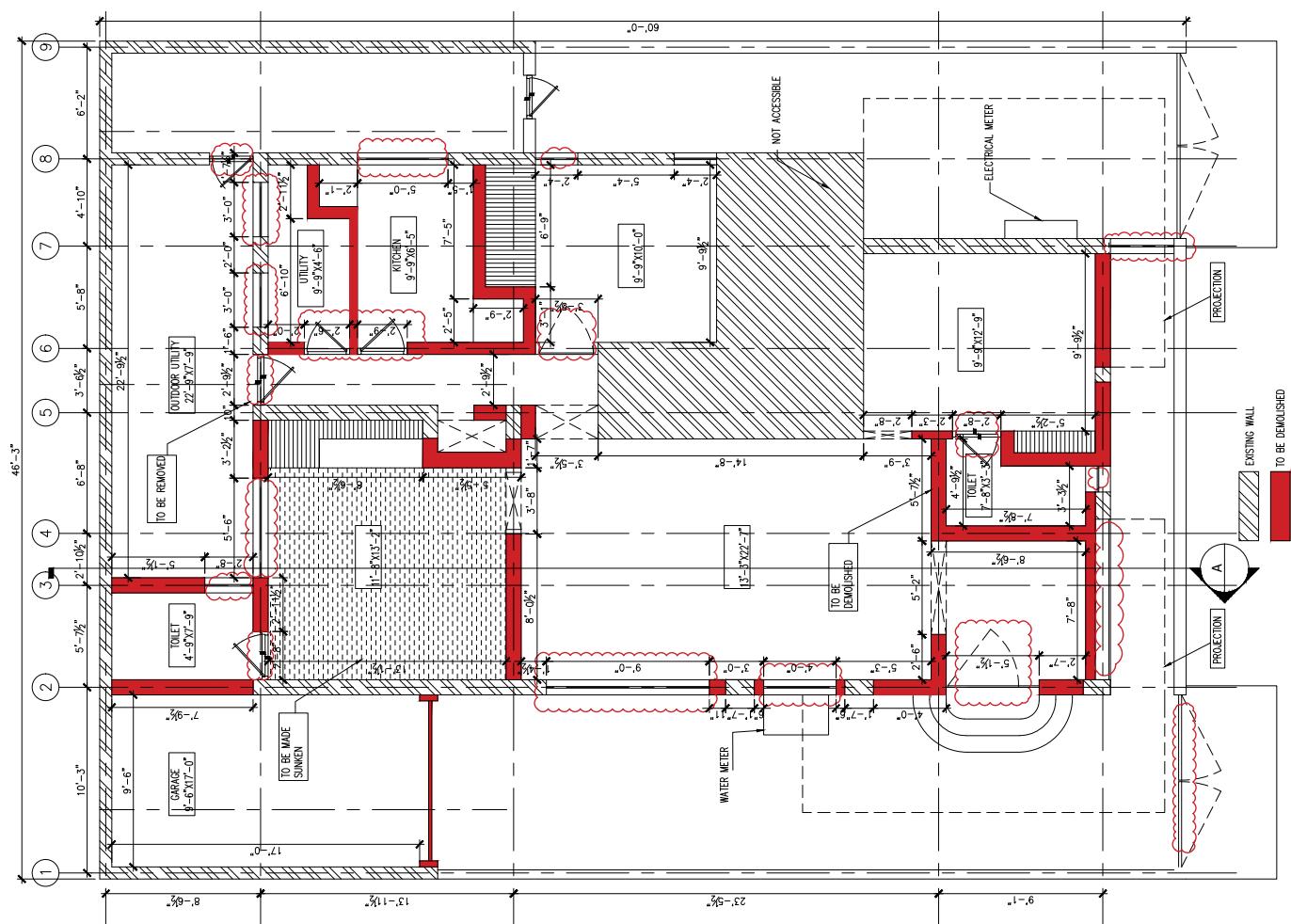
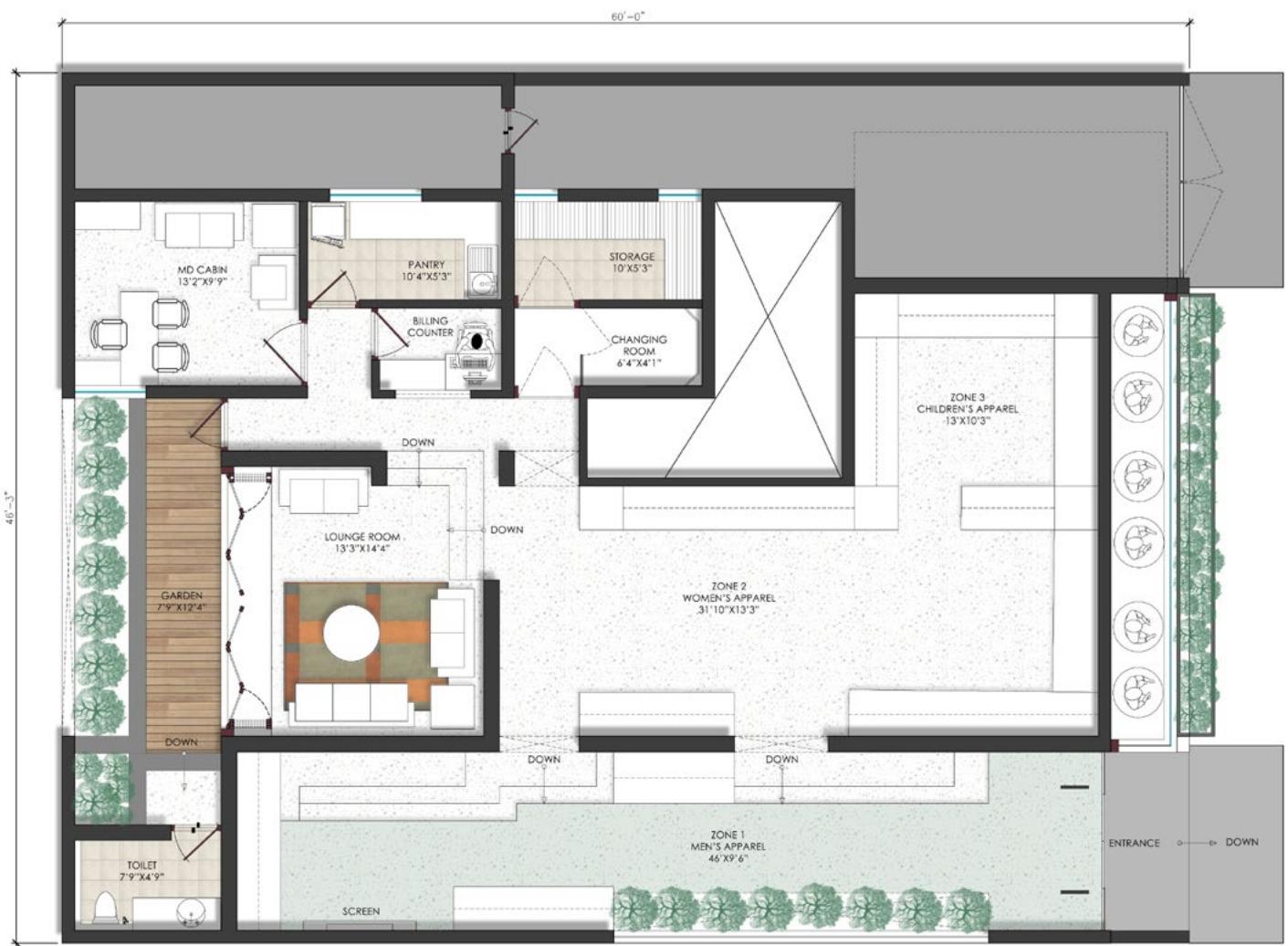
Section B

# Boutique Store, Indiranagar

Site Area : 2700 sq.ft

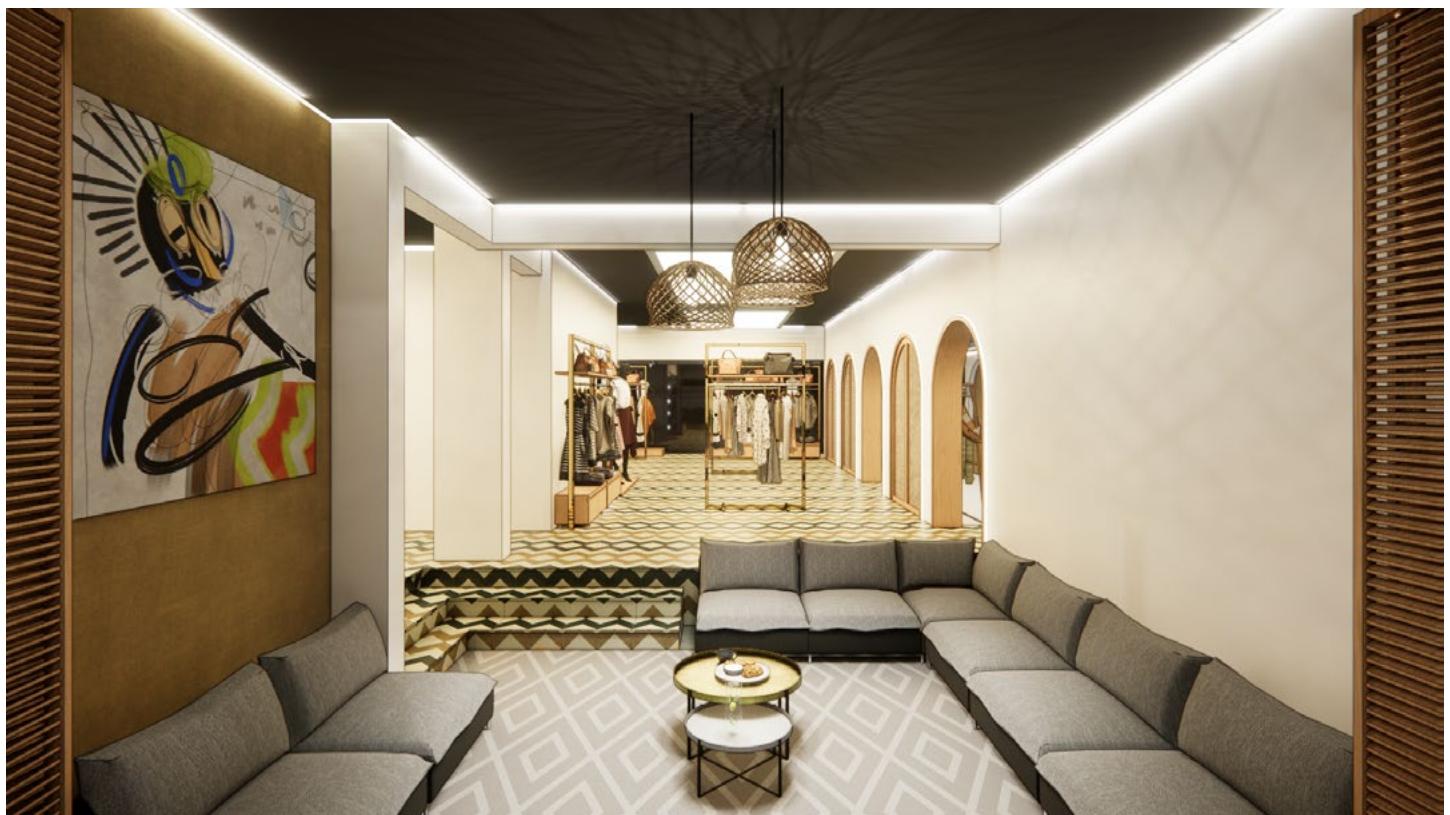






11. Boutique Store





13. Boutique Store



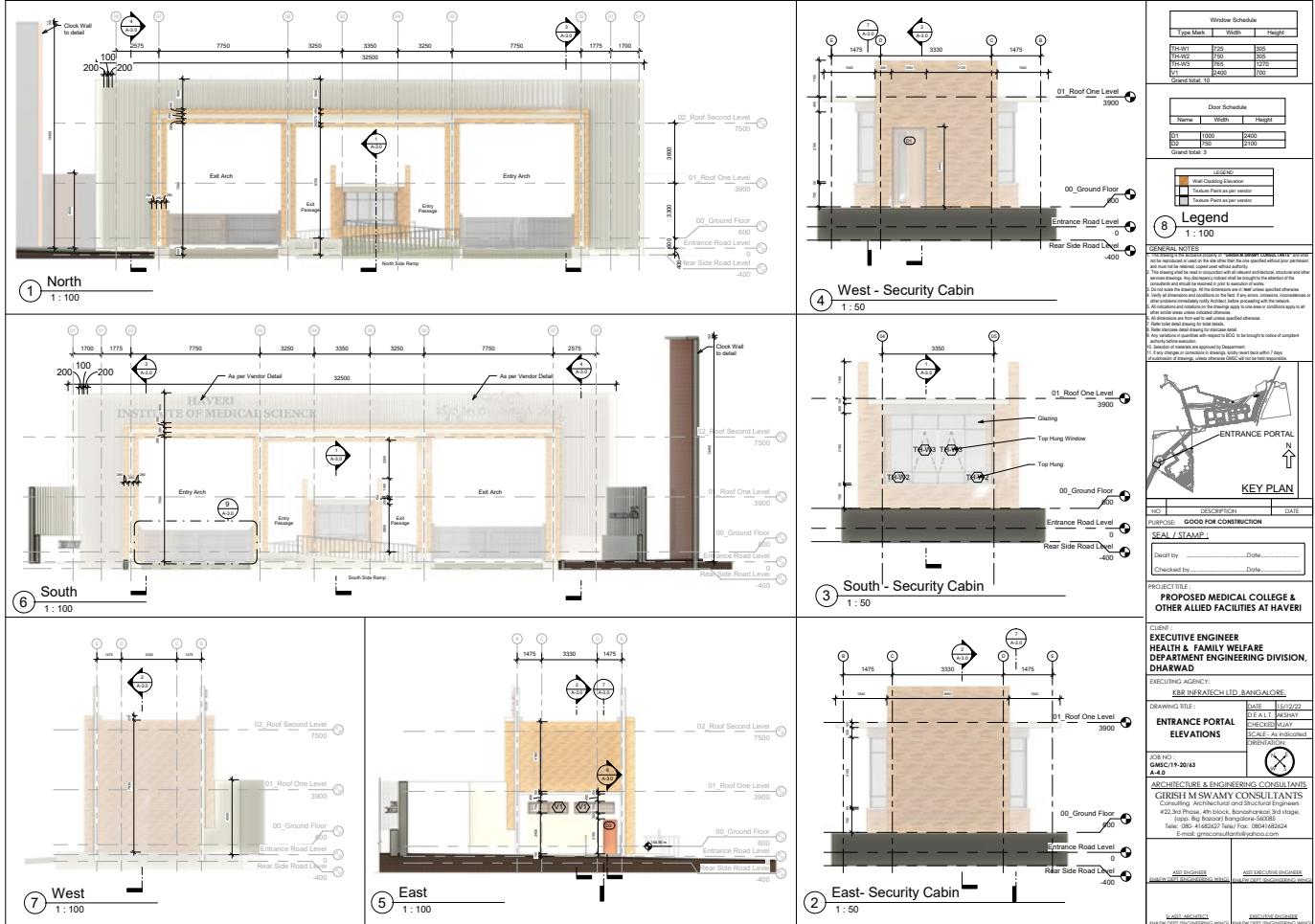
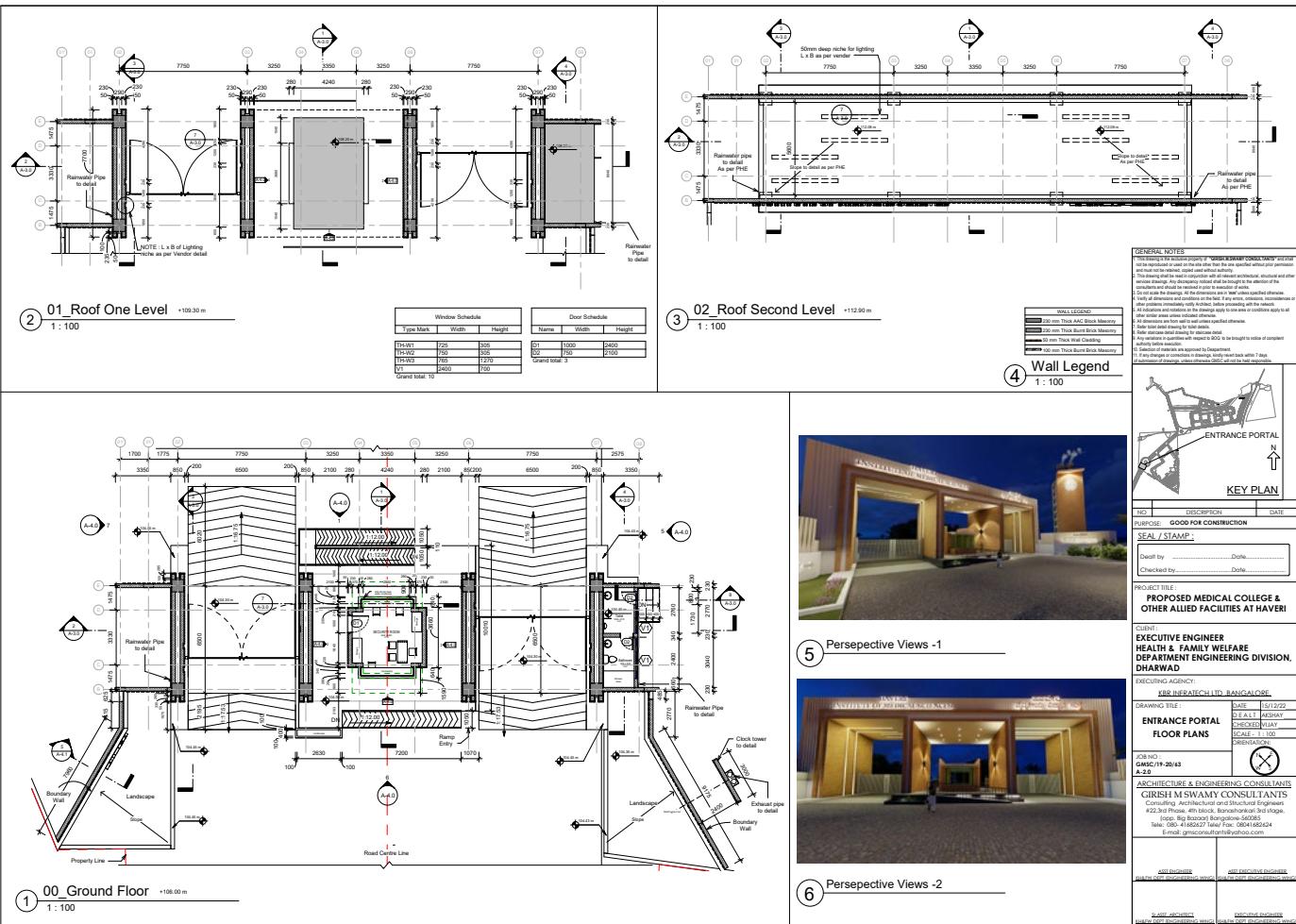
# ENTRANCE PORTAL, Haveri Institute of Medical Science

Site Area : 35 Acres





16. Entrance Portal





18. Entrance Portal

# PROPOSED SCHOOL CAMPUS, Chikkaballapur

Site Area : 9 Acres



AERIAL VIEW OF CAMPUS



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20. Proposed School Campus



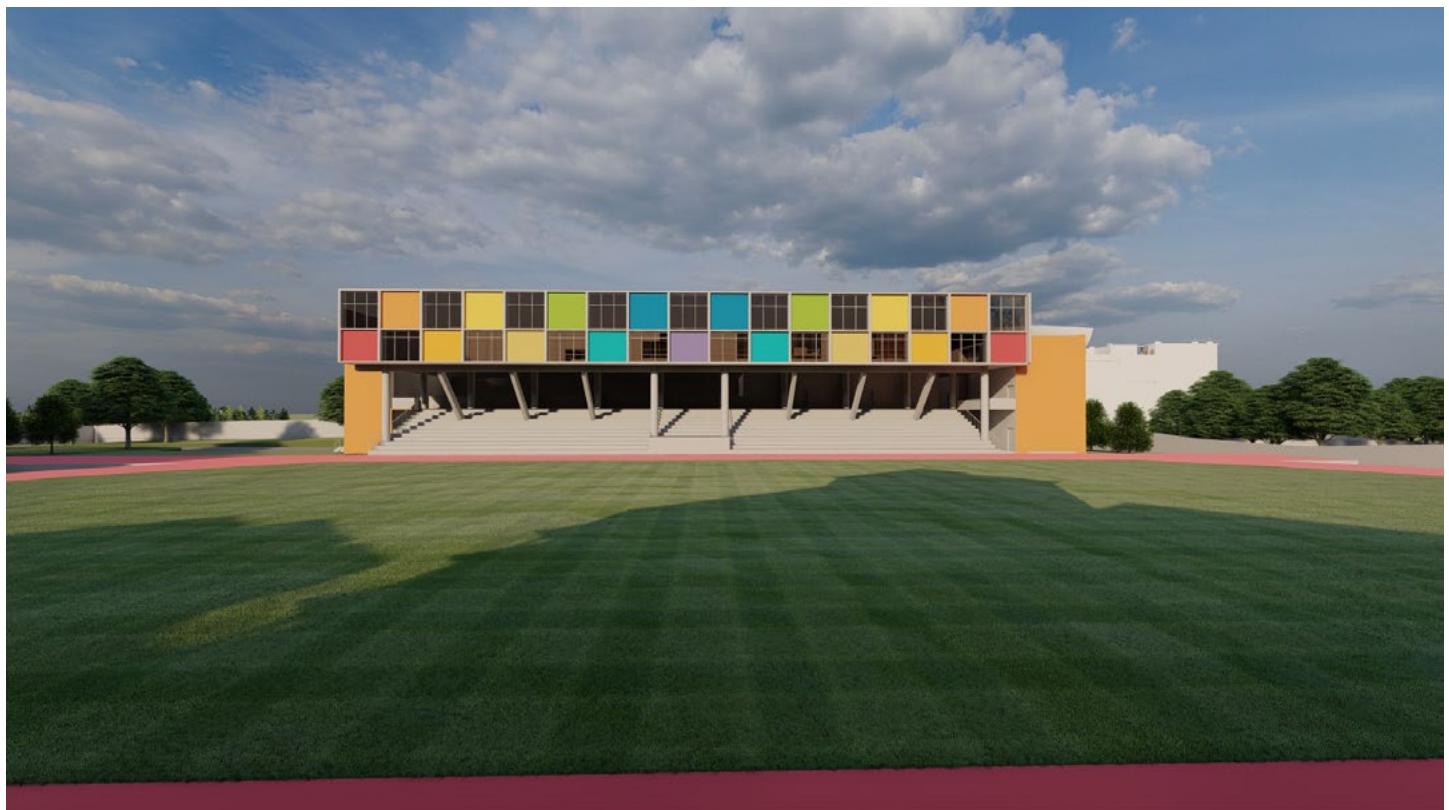
ENTRANCE PORTAL



ADMIN BLOCK



ACADEMIC BLOCK



SPORTS BLOCK

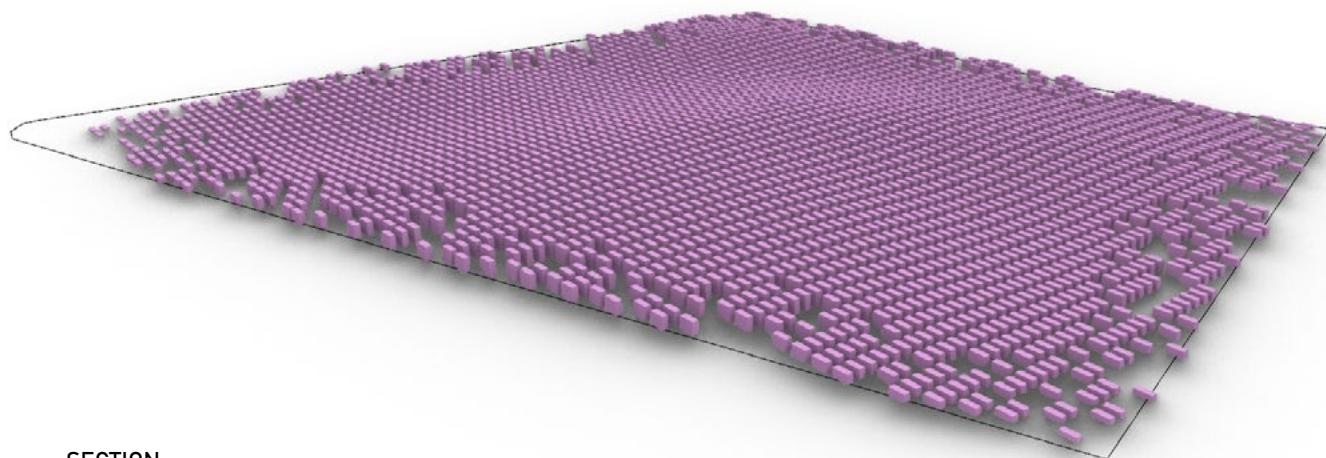
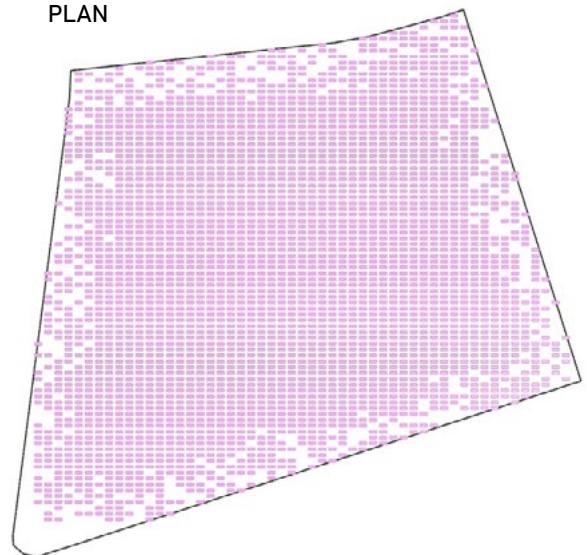
# DIGITAL ARCHITECTURE

Memorial to the Murdered Jews of Europe, designed by the architect Peter Eisenmann in the late 1990's and built in the early 2000's, recreated using 'Rhino+grasshopper'

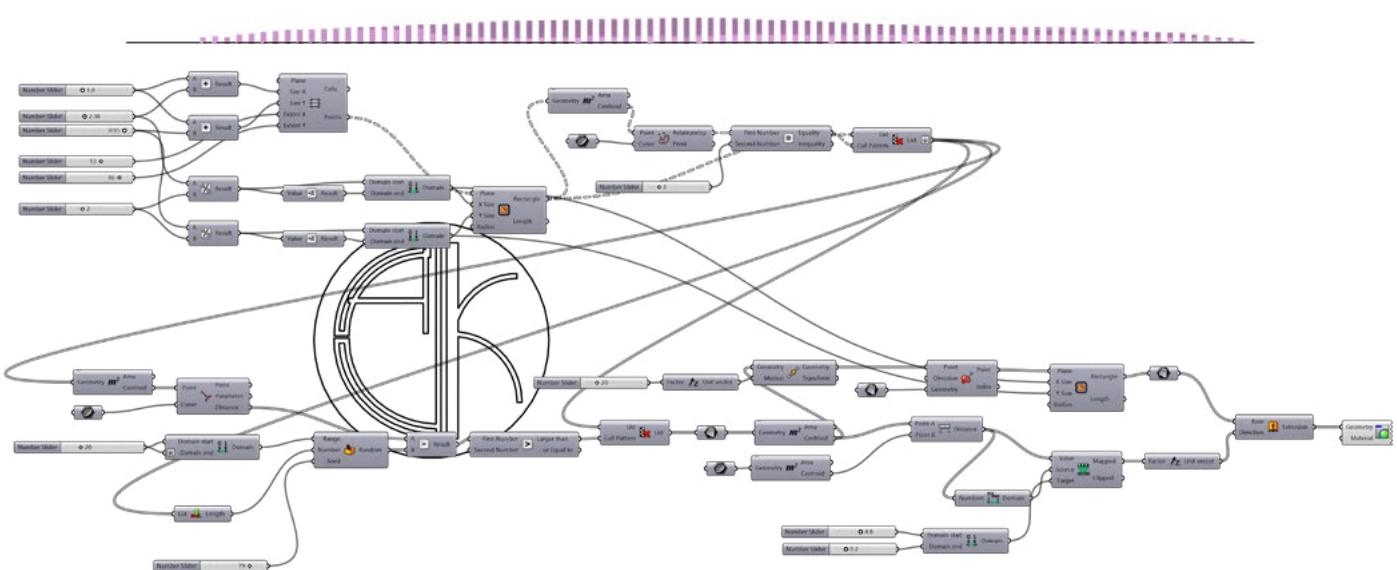


AERIAL VIEW

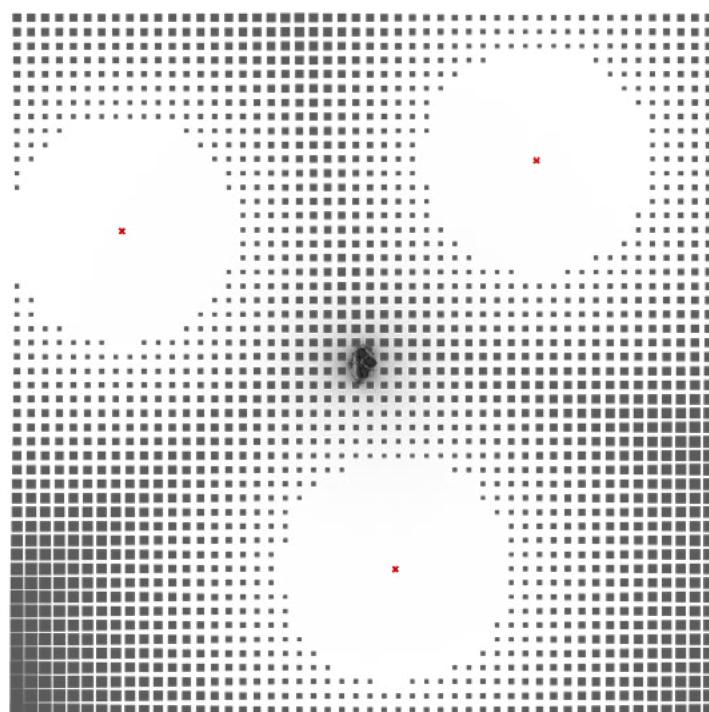
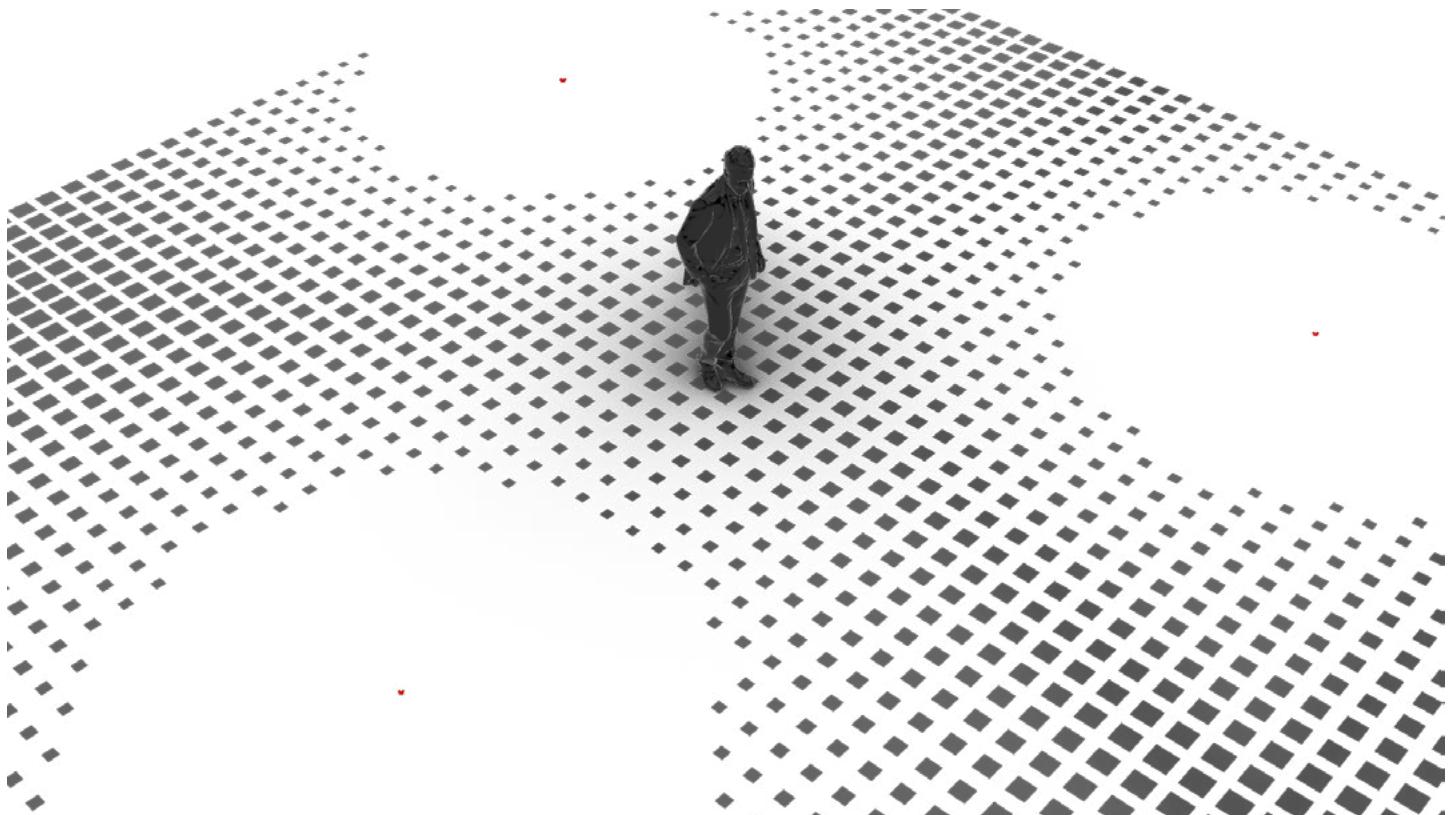
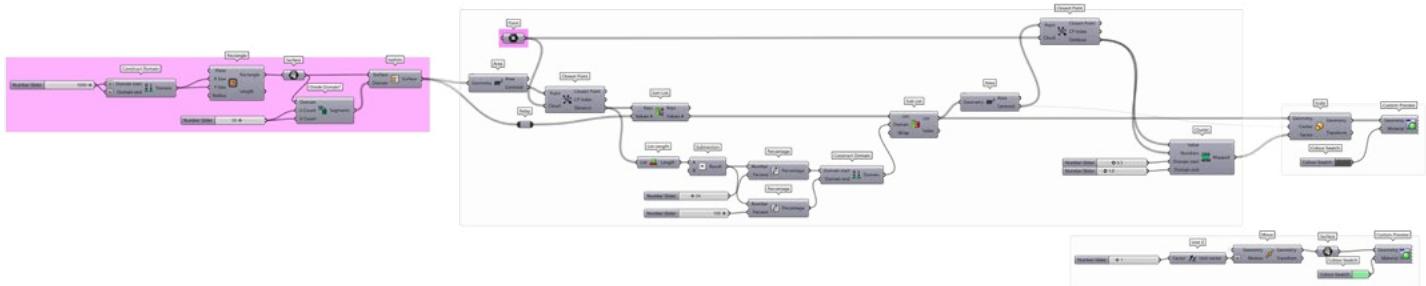
PLAN



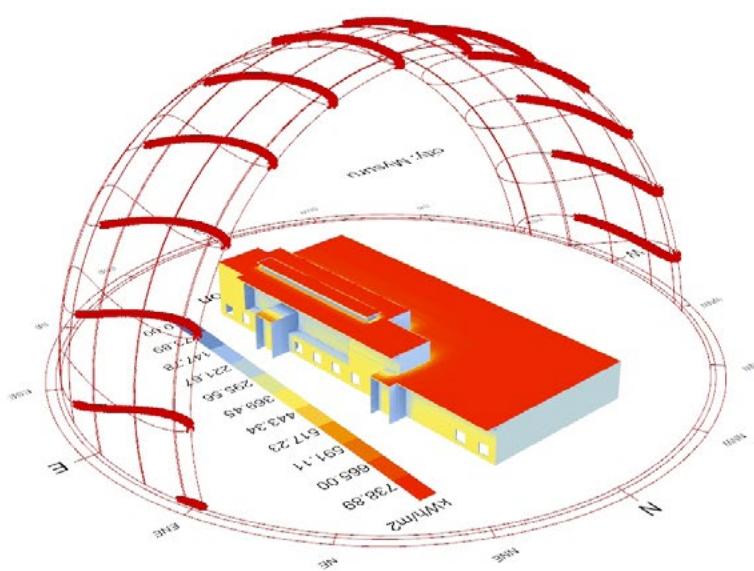
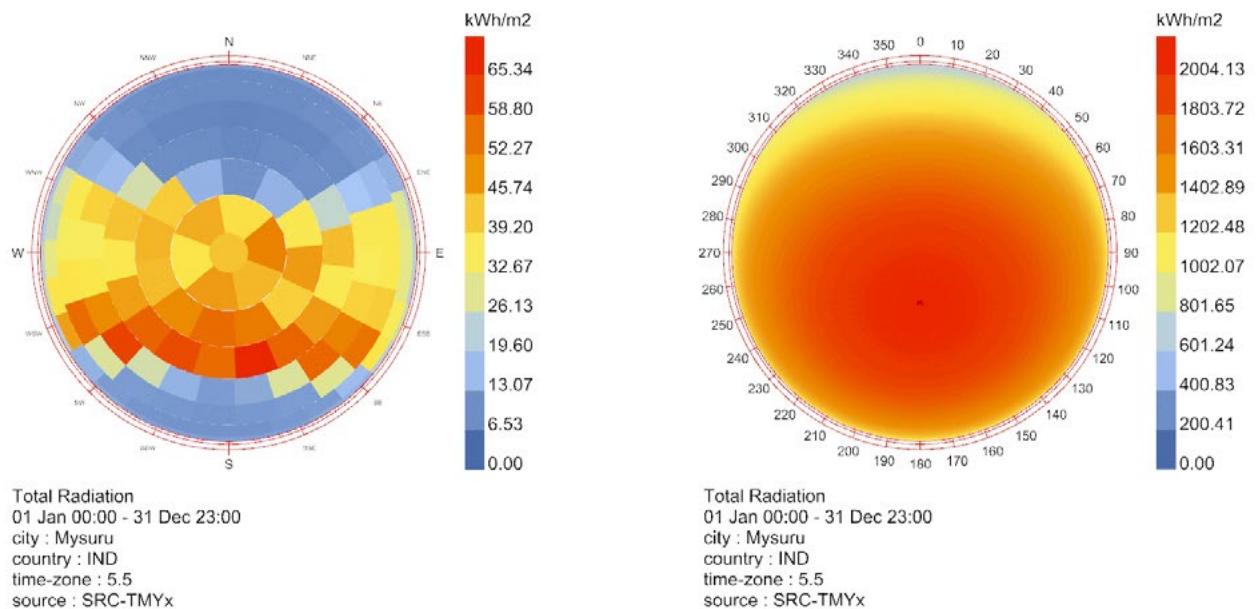
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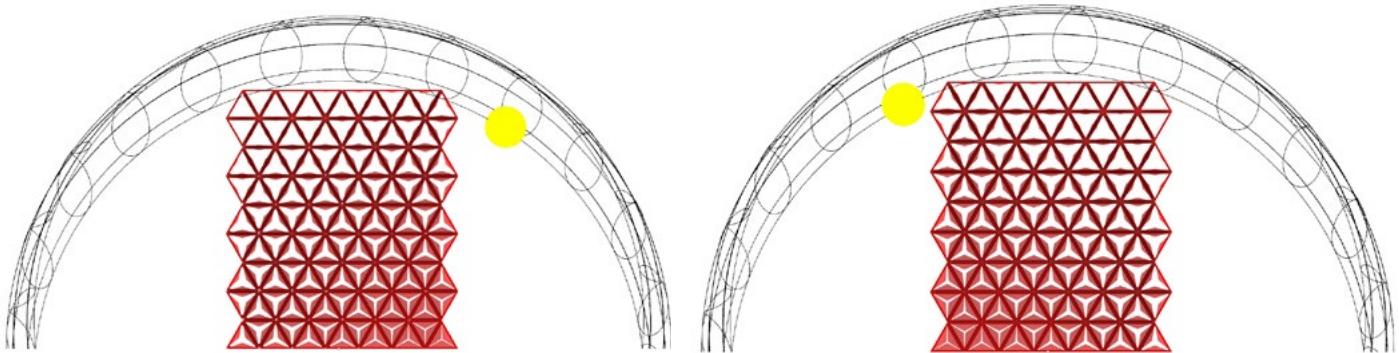
## Contemporary Landscape with Point Attractor Algorithm



## Solar Radiation Analysis for Factory



## Point Attractor Algorithm



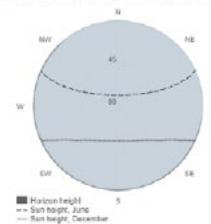
Kinetic Facade - responds to the direction of the sun

## Solar panel Capacity, Orientation And Output Estimate

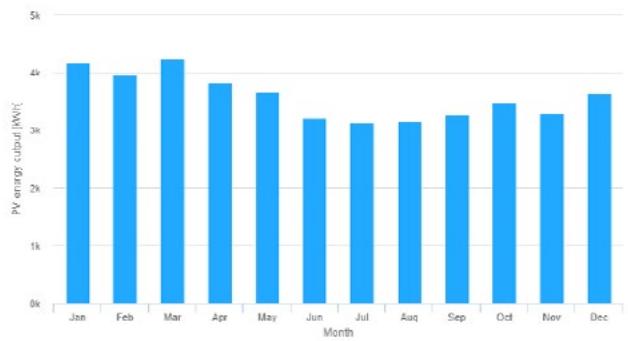
PVGIS-5 estimates of solar electricity generation:

Provided inputs:	Simulation outputs
Latitude/Longitude: 12.943, 77.699	Slope angle: 16 (opt) °
Horizon: Calculated	Azimuth angle: -6 (opt) °
Database used: PVGIS-SARAH	Yearly PV energy production: 43032.8 kWh
PV technology: Crystalline silicon	Yearly in-plane irradiation: 2171.47 kWh/m²
PV installed: 27.3 kWp	Year-to-year variability: 999.57 kWh
System loss: 14 %	Changes in output due to:
	Angle of incidence: -2.72 %
	Spectral effects: 0.29 %
	Temperature and low irradiance: -13.49 %
	Total loss: -27.41 %

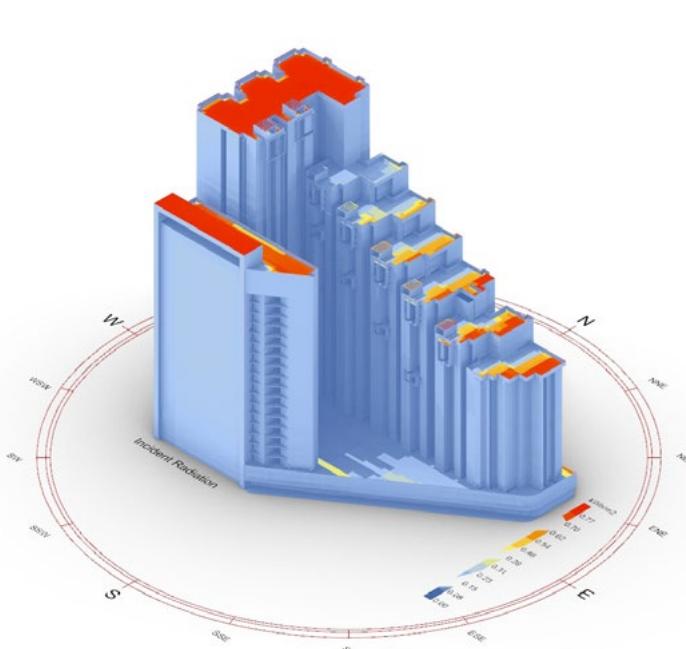
Outline of horizon at chosen location:



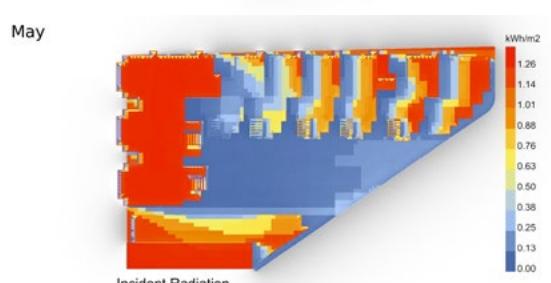
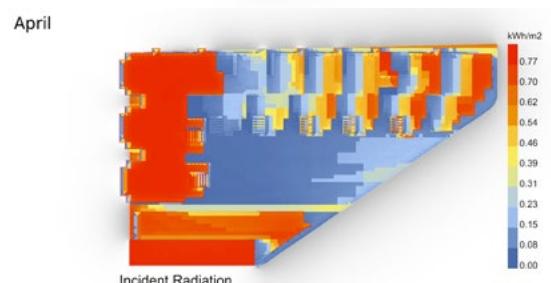
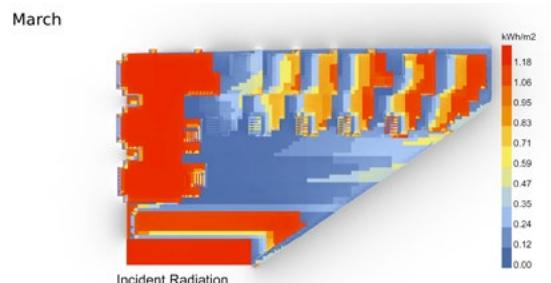
## PV output estimate every month



## Radiation Analysis Through Ladybug ( Rhino/Grasshopper)



Radiation Analysis of High Rise Apartment for a Typical summer afternoon from .epw file





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