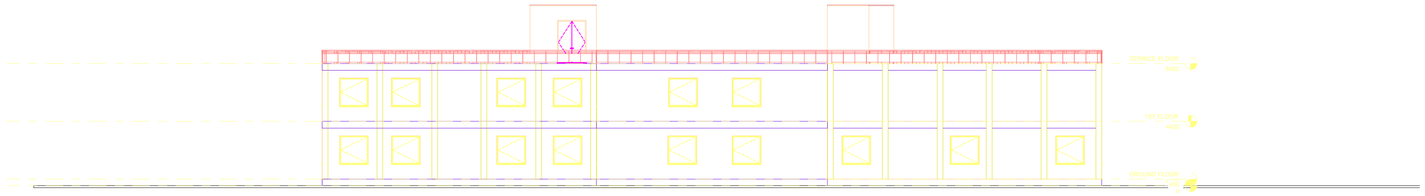


A ELEVATION A
HOSPITAL



A ELEVATION B
HOSPITAL

PROJECT: AYURVEDIC COLLEGE AND HOSPITAL

PROJECT DEVELOPERS:

TITLE: first floor plan

NORTH

SCALE:	DRAWING NO.:	DEALT BY:
1:300	A-009	YASH DOLAS

REMARKS:

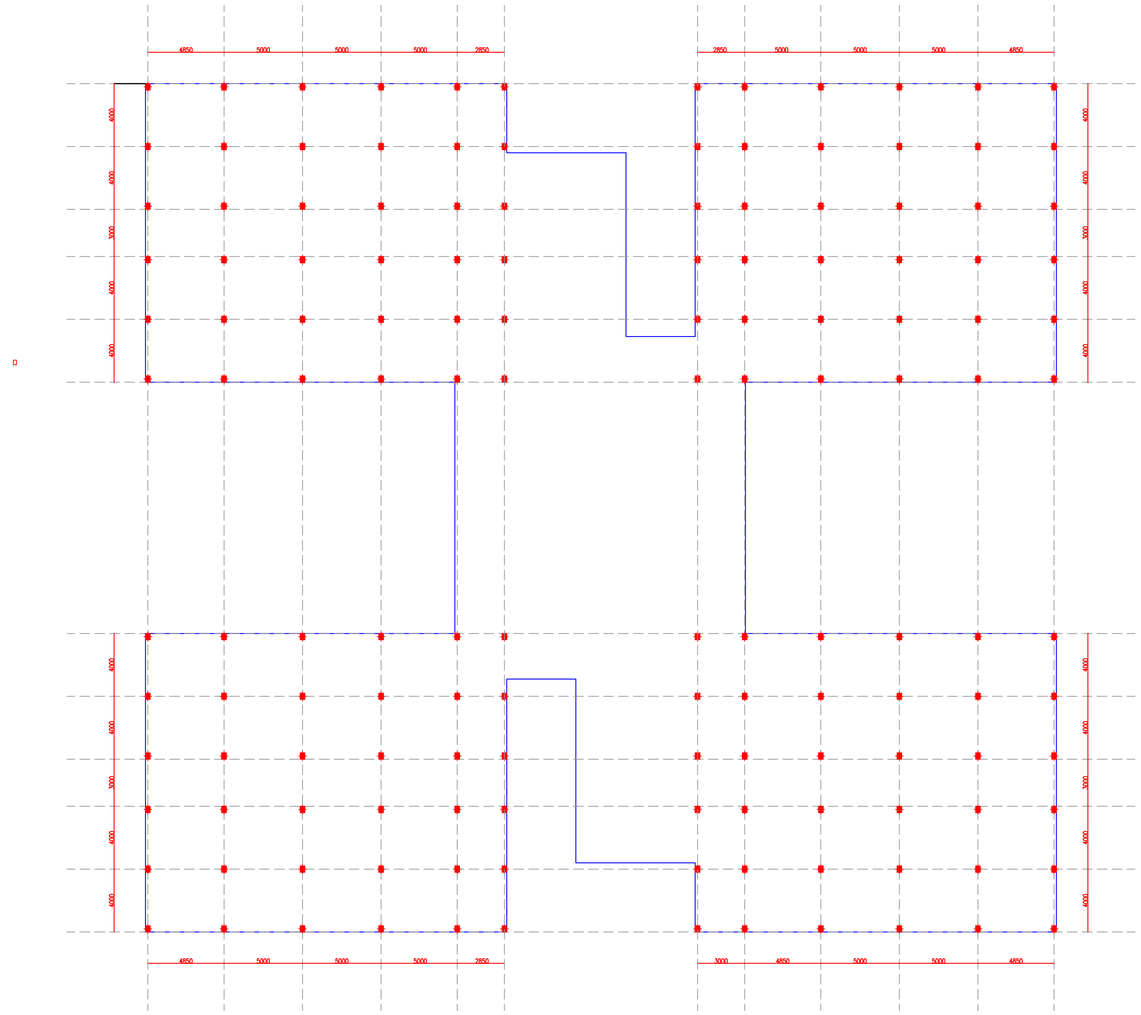
KEY PLAN

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SIGNATURE OF THESIS GUIDE

NAME: YASH DOLAS
SCHOLAR NO: 211110233
Semester: 9th Semester
Course: Bachelors of Architecture
Batch: 2021-2026
Guided By: Dr. PREMJEET DAS GUPTA



A COLUMN LAYOUT
HOSPITAL

PROJECT: AYURVEDIC COLLEGE AND HOSPITAL

PROJECT DEVELOPERS:

TITLE: first floor plan

NORTH

SCALE: 1:300

DRAWING NO.: A-009

DEALT BY: YASH DOLAS

REMARKS:

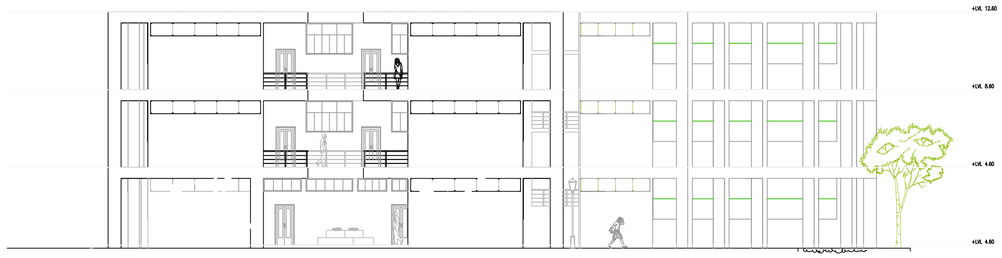
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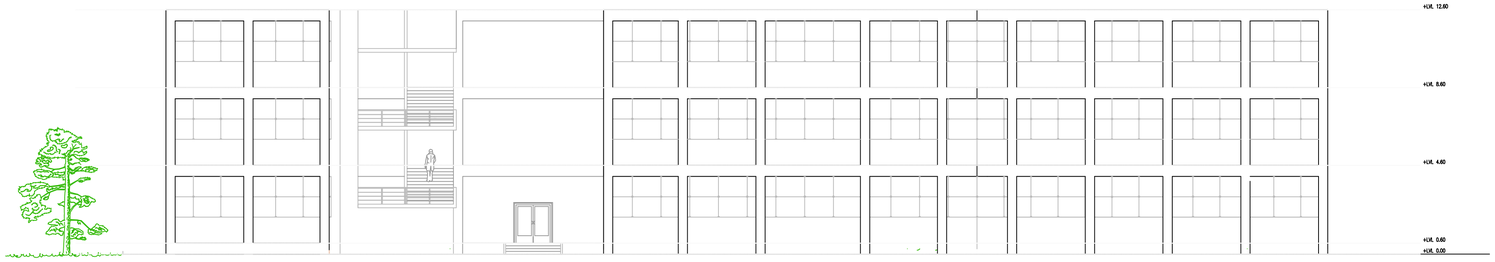
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A ELEVATION A
COLLEGE



A ELEVATION B
COLLEGE

PROJECT: AYURVEDIC COLLEGE AND HOSPITAL

PROJECT DEVELOPERS:

TITLE: first floor plan

NORTH

SCALE:	DRAWING NO.:	DEALT BY:
1:300	A-009	YASH DOLAS

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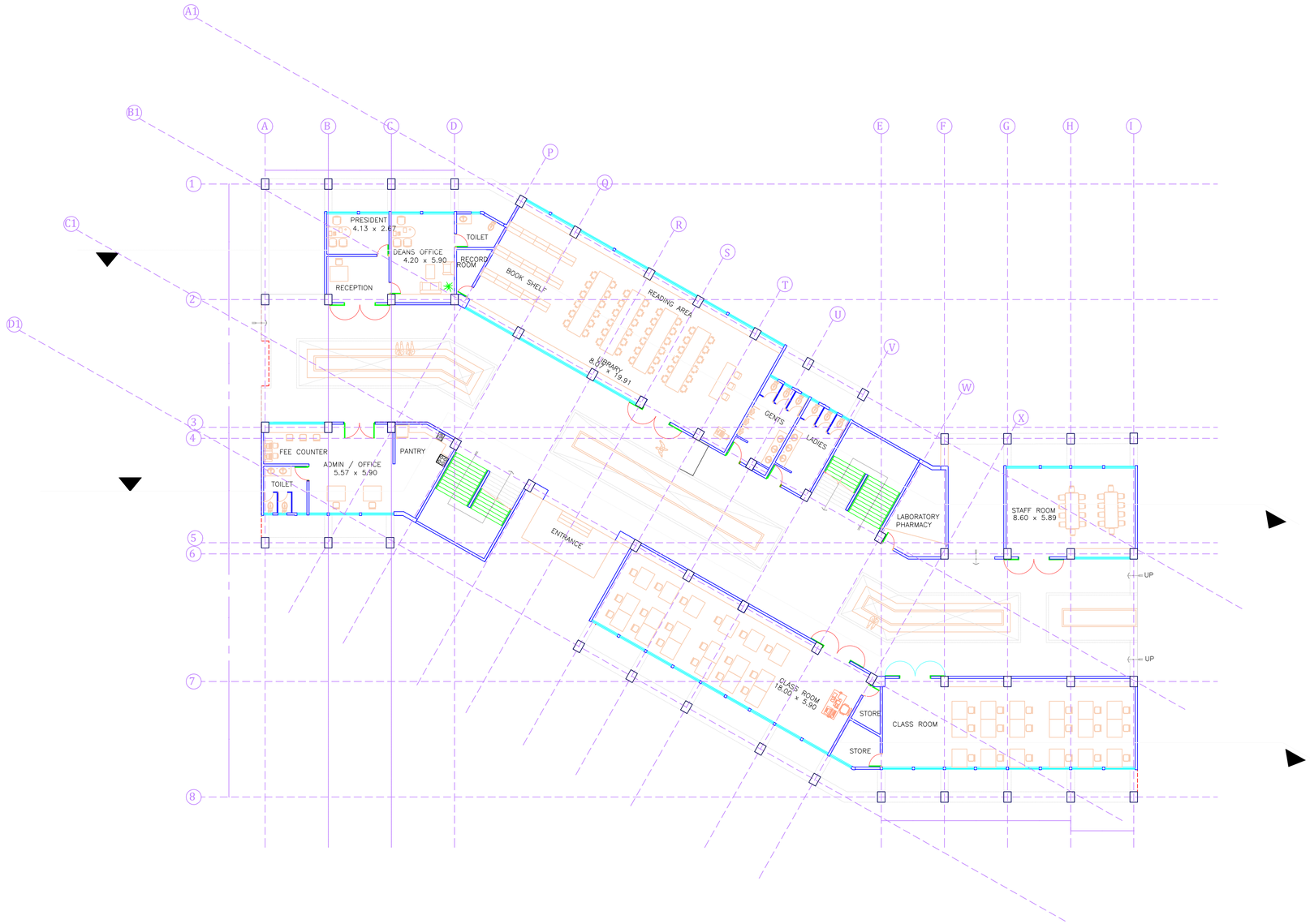
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A GROUND FLOOR
COLLEGE

PROJECT: AYURVEDIC COLLEGE AND HOSPITAL

PROJECT DEVELOPERS:

TITLE: first floor plan

NORTH

SCALE: 1:300

DRAWING NO.: A-009

DEALT BY: YASH DOLAS

REMARKS:

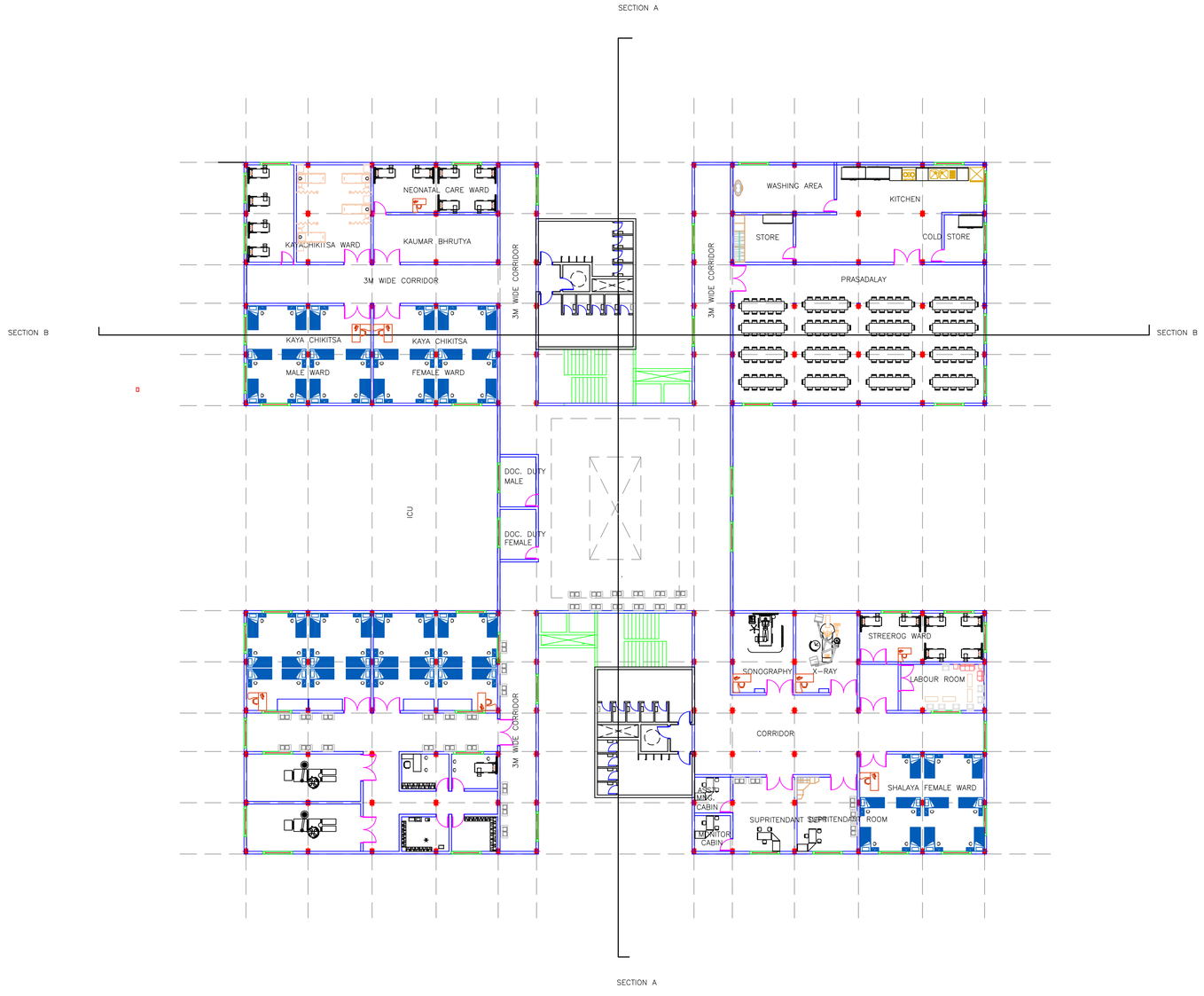
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Guided By: Dr. PREMJEET DAS GUPTA



A FIRST FLOOR HOSPITAL

PROJECT: AYURVEDIC COLLEGE AND HOSPITAL

PROJECT DEVELOPERS:

TITLE: first floor plan

NORTH

SCALE:	DRAWING NO.:	DEALT BY:
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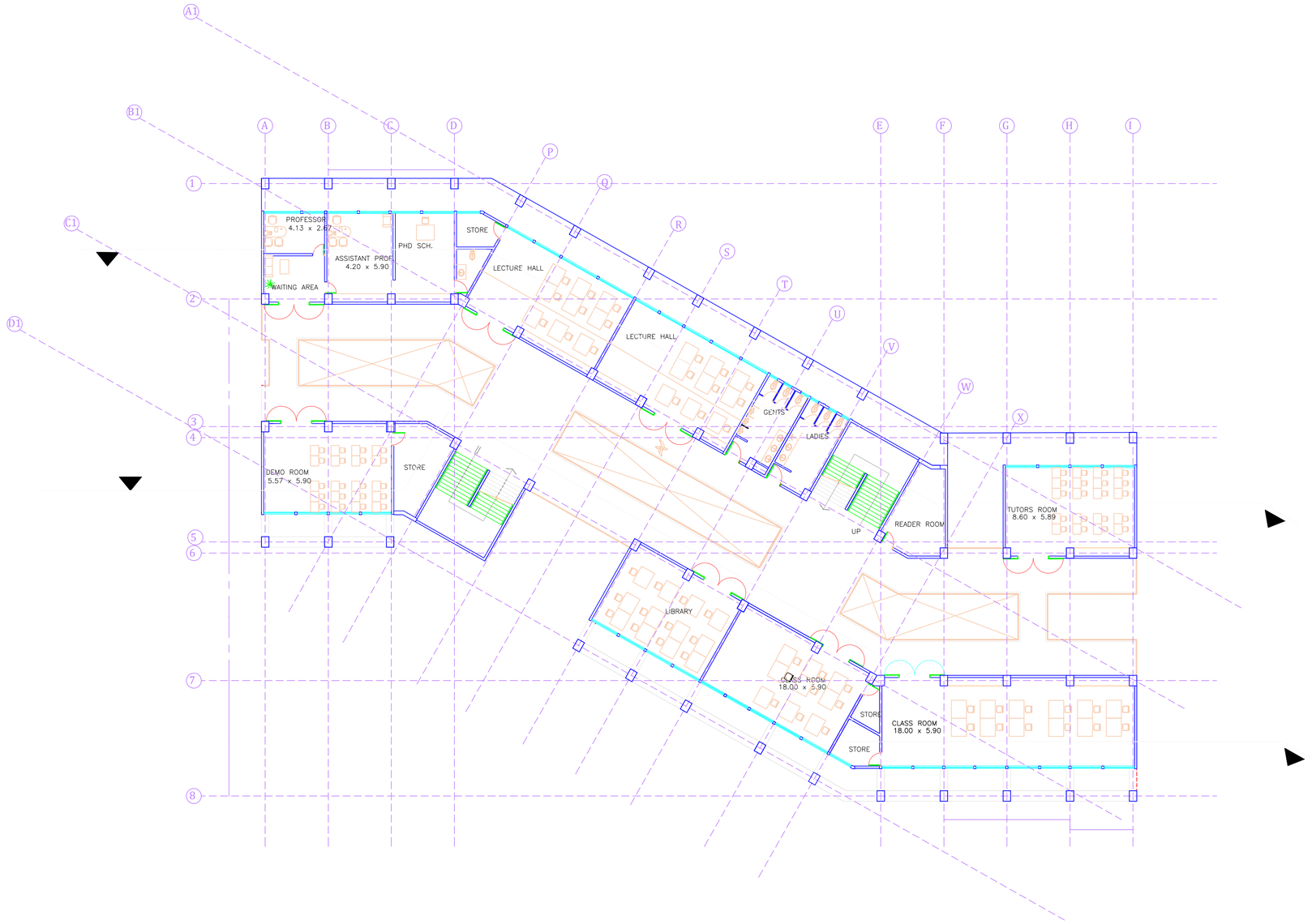
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A SECOND FLOOR
COLLEGE

PROJECT: AYURVEDIC COLLEGE AND HOSPITAL

PROJECT DEVELOPERS:

TITLE: first floor plan

NORTH

SCALE: 1:300

DRAWING NO.: A-009

DEALT BY: YASH DOLAS

REMARKS:

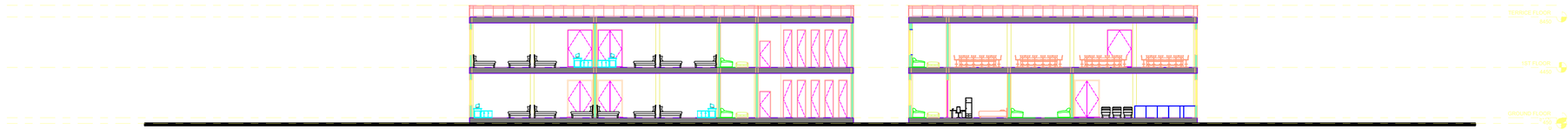
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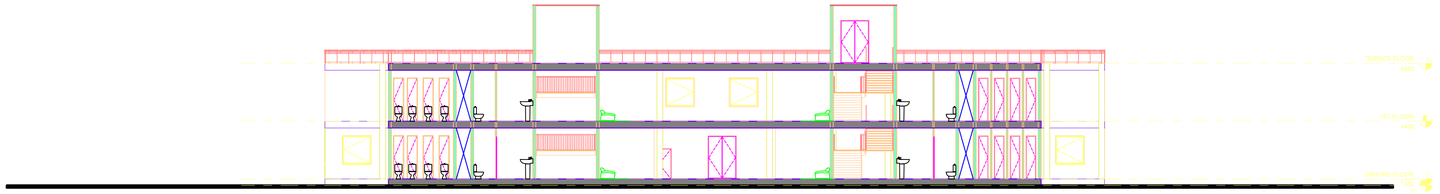
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A SECTION A
HOSPITAL



A SECTION B
HOSPITAL

PROJECT: AYURVEDIC COLLEGE AND HOSPITAL

PROJECT DEVELOPERS:

TITLE: first floor plan

NORTH

SCALE:	DRAWING NO.:	DEALT BY:
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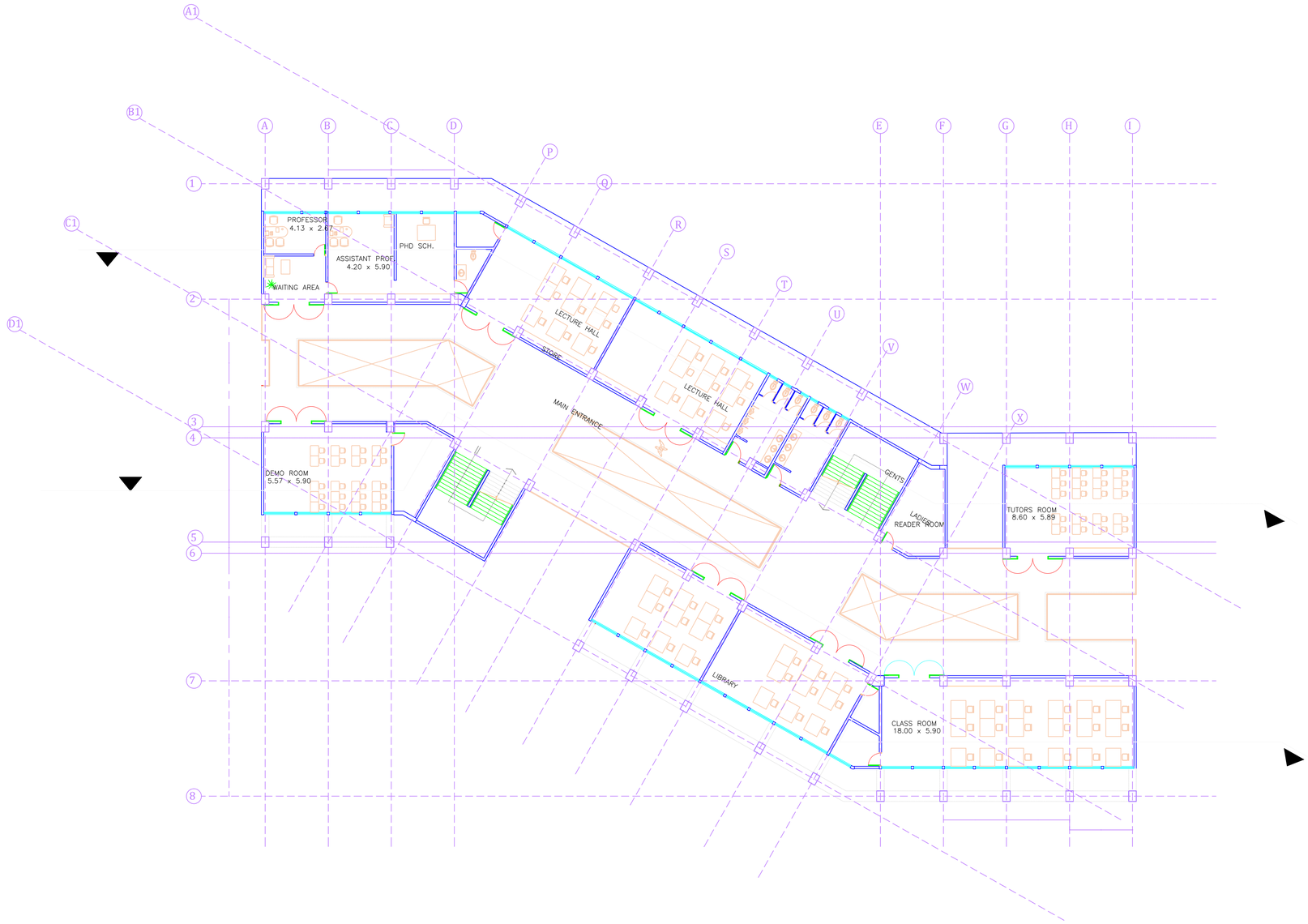
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A FIRST FLOOR
COLLEGE

PROJECT: AYURVEDIC COLLEGE AND HOSPITAL

PROJECT DEVELOPERS:

TITLE: first floor plan

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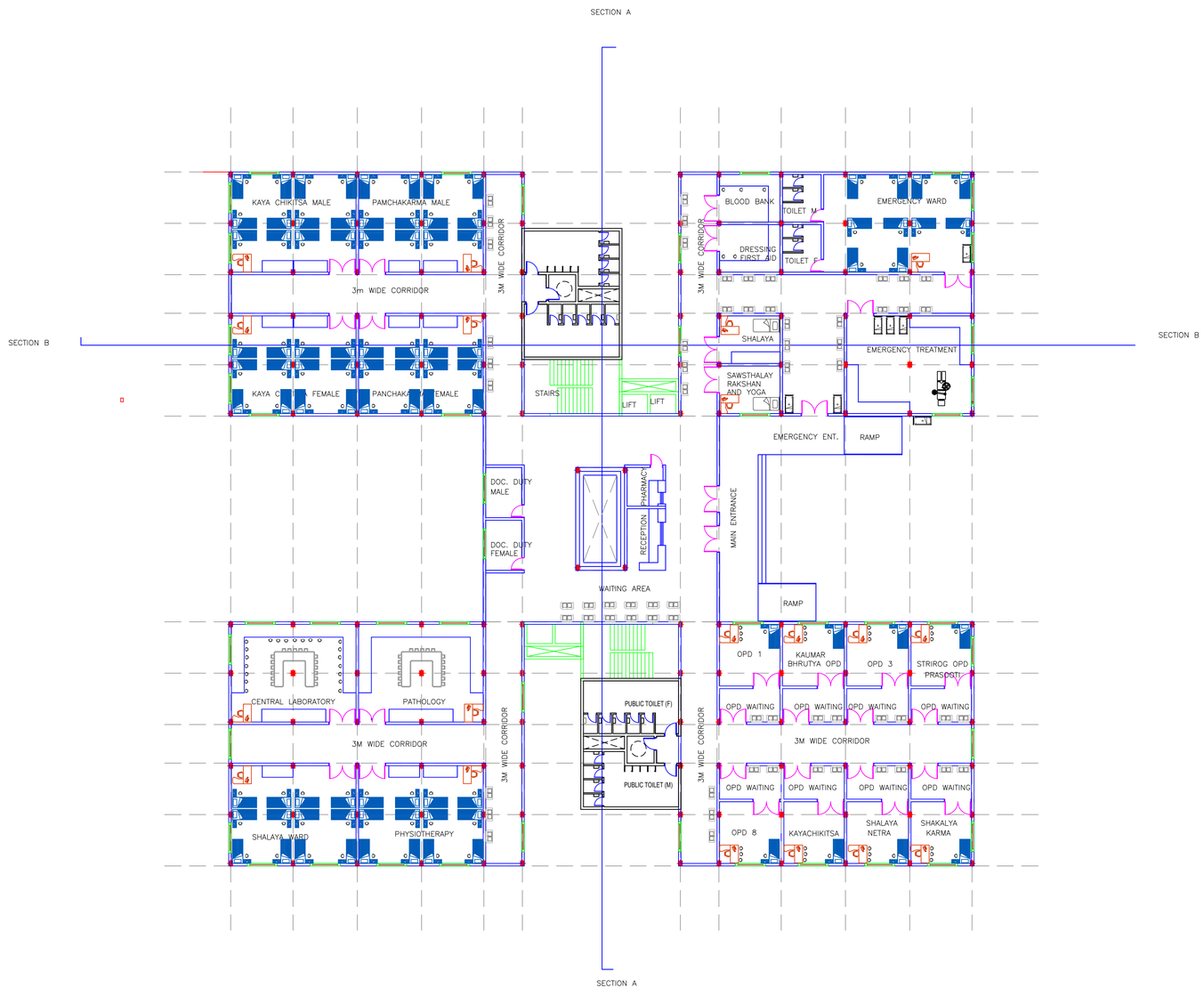
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A GROUND FLOOR HOSPITAL

PROJECT: AYURVEDIC COLLEGE AND HOSPITAL

PROJECT DEVELOPERS:

TITLE: first floor plan

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A SECTION A
COLLEGE



A ELEVATION B
COLLEGE

PROJECT: AYURVEDIC COLLEGE AND HOSPITAL

PROJECT DEVELOPERS:

TITLE: first floor plan

NORTH

SCALE: 1:300

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Guided By: Dr. PREMJEET DAS GUPTA

SITE ANALYSIS

Guided by: Dr Premjeet Das Gupta

- Location: Shahdol District, Madhya Pradesh
- Coordinates: ~23.3°N, 81.35°E
- Site Area: 11 acres (≈ 44,515 m²)
- Site Boundary: Irregular polygon (marked in red on satellite image)
- Access Point: Road access from the west side



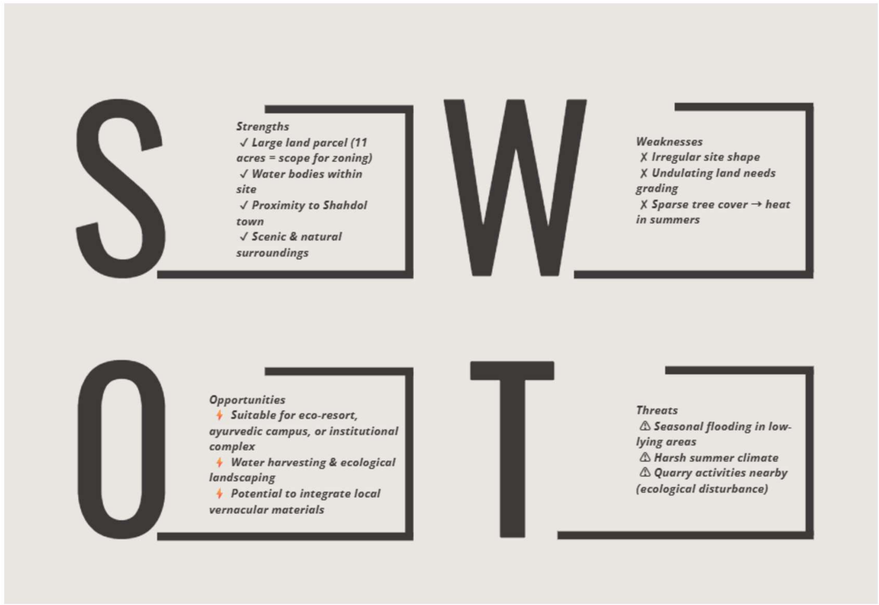
Connectivity & Accessibility

Nearest Town: Shahdol (~8–10 km)
Road Access: Connected via rural road; linked to NH-43
Nearest Railway Station: Shahdol Railway Station (~12 km)
Nearest Airport: Jabalpur (~180 km)
Surroundings:
North → Quarry / rocky terrain (“Sunset Point”)
South → Agricultural land & water body
East → Farmland plots
West → Road access & barren patches

Topography:

Gentle slope → water flows towards east & south
Vegetation: Scattered dry-deciduous trees (can be retained for microclimate control)
Water Bodies: 2–3 ponds inside site boundary (great for water harvesting & landscape design)
Soil: Black cotton & laterite mix (stable but needs foundation treatment)

• SWOT ANALYSIS



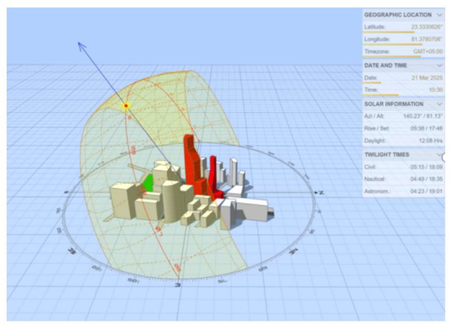
• CONTOUR

Contour Summary
Site slopes NW → SE
Highest point: North-west (near road)
Lowest point: South-east (near ponds)
Mostly gentle slopes, steeper at central mound
Natural drainage flows to low-lying ponds



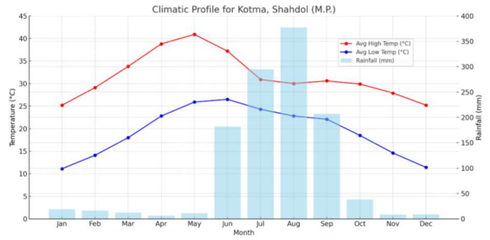
• SUNPATH

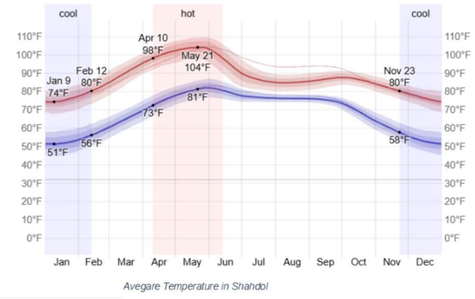
Location: 23.3°N, 81.37°E (Shahdol)
Sunrise: ~5:38 AM | Sunset: ~5:46 PM (equinox)
Daylight: ~12 hrs
Path: Moves East → South → West, high in summer, low in winter



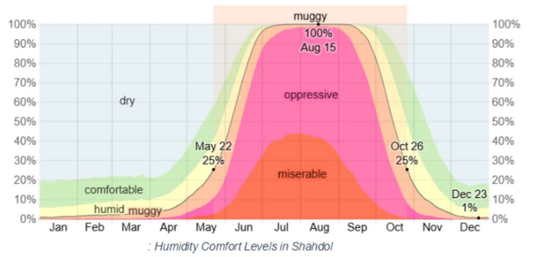
• CLIMATE ANALYSIS

Red line: Average high temperatures (°C)
Blue line: Average low temperatures (°C)
Blue bars: Average monthly rainfall (mm)

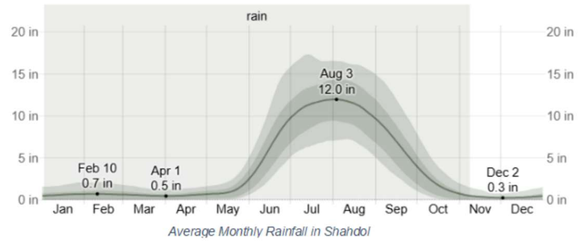




Avegare Temperature in Shahdol



: Humidity Comfort Levels in Shahdol



Average Monthly Rainfall in Shahdol

YASH SACHIN DOLAS
211110233

CASE STUDIES

Pandit Khushilal Sharma Govt. Ayurvedic Hospital, Bhopal

Location: Ayodhya Bypass, Bhopal, MP
Campus: 5.5 acres | Capacity: 100 beds + OPD + Academic
Focus: Ayurvedic healthcare, Panchakarma, Yoga, Research

◆ SITE & SURROUNDING

Bypass Road (N), Institutional plots (S), Green buffer (W), Residential zone (E)
Gentle slope, green periphery, clear road access



◆ ZONING

OPD & Panchakarma
IPD / Wards
Academic Block
Admin + Research + Pharmacy
Herbal Garden
Hostels & Quarters
Dining & Yoga Hall



◆ PLANNING

Courtyard-centric layout
Separate patient, staff & service circulation
Covered corridors, natural ventilation

◆ FACILITIES

OPD: Consultation, Waiting, Pharmacy
IPD: Wards, Nurse stations, Hygiene focus
Panchakarma: Therapy units (Abhyanga, Shirodhara, etc.)
Academic: Lecture halls, Labs, Library
Garden: 200+ medicinal plants
Wellness: Yoga & Meditation hall
Dining: Satvik kitchen



◆ DESIGN TAKEAWAYS

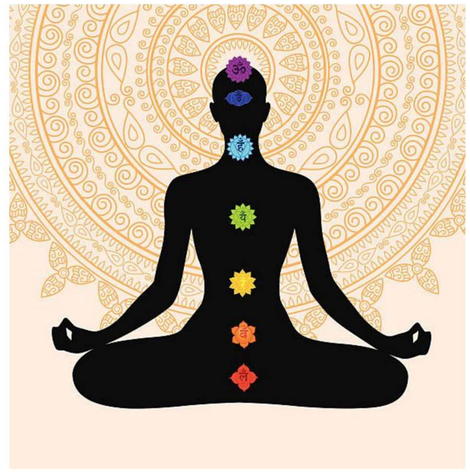
Holistic healing + nature integration
Clear zoning for Medical, Academic, Residential
Courtyard & green buffers → comfort + sustainability
Patient-friendly planning



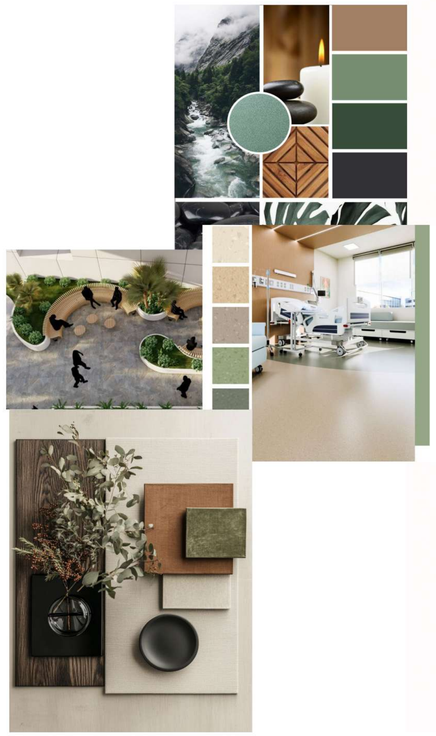
CONCEPT IDEA:

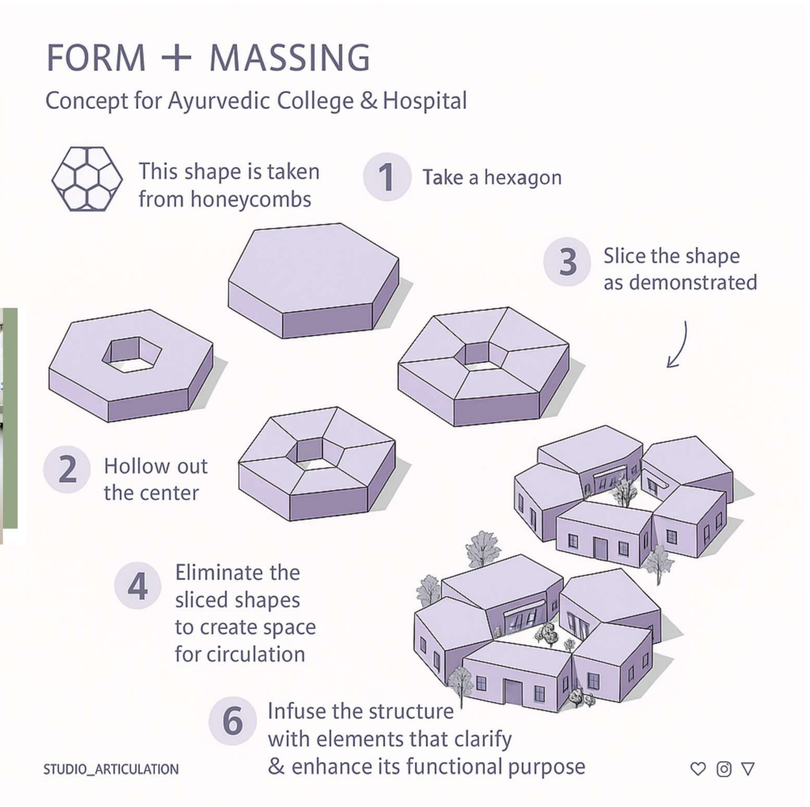
Concept – Ayurvedic College & Hospital (Form + Massing)

Inspired by honeycombs, as honey is widely used in Ayurveda, this design uses a single hexagon form. The center is hollowed to create a courtyard/meditation space or medicinal garden for learning. The hexagon is divided into treatment rooms around the courtyard, with one segment removed for a reception guiding visitors to all rooms.
Natural light, ventilation, and shaded walkways connect the spaces, while the central open area hosts yoga, plant workshops, and community wellness activities, promoting holistic healing in harmony with nature.

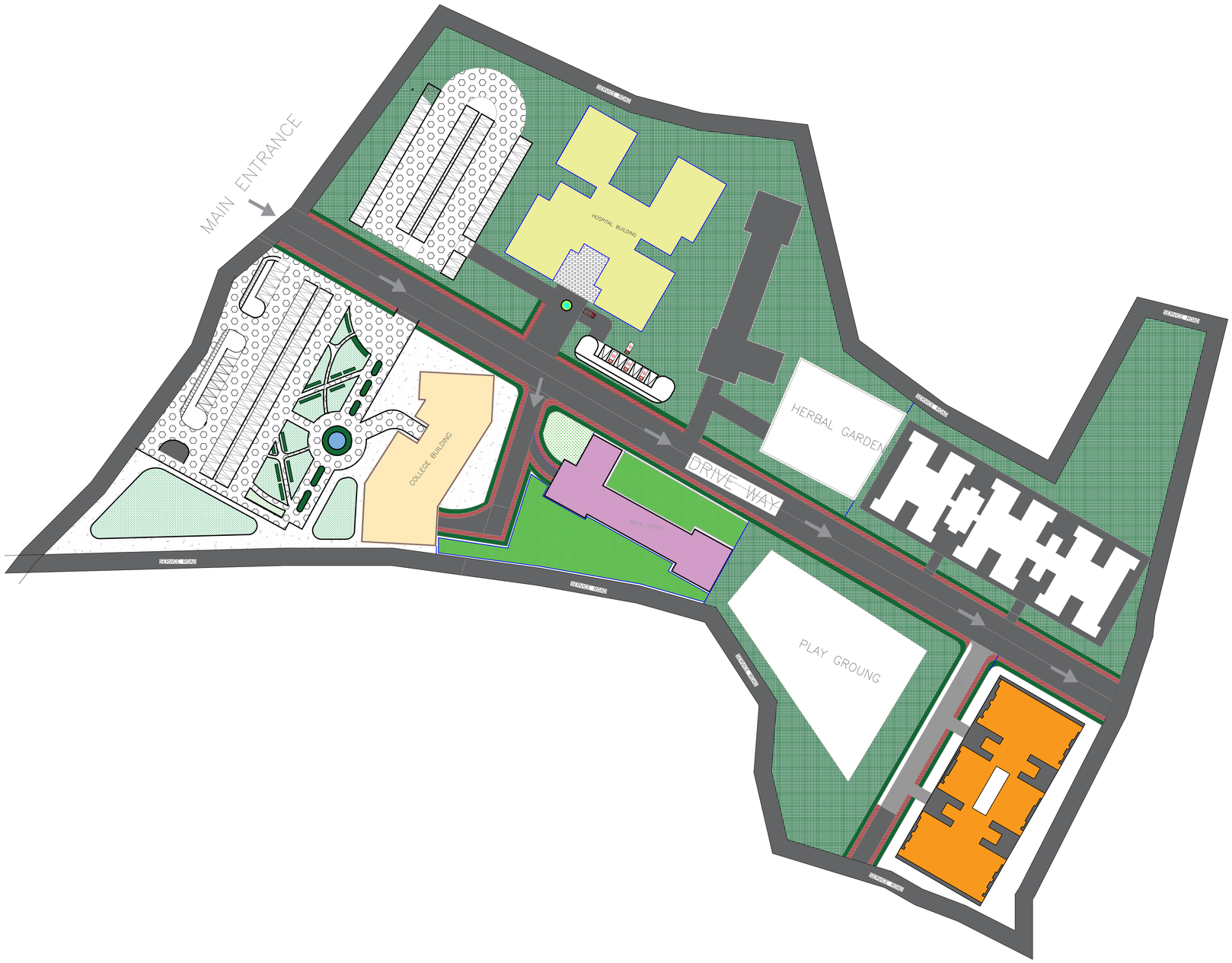


MOOD BOARD





YASH SACHIN DOLAS
211110233



PROJECT: AYURVEDIC COLLEGE AND HOSPITAL

PROJECT DEVELOPERS:

TITLE: first floor plan

NORTH

SCALE:	DRAWING NO.:	DEALT BY:
1:750	A-009	YASH DOLAS

REMARKS:

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Guided By: Dr. PREMJEET DAS GUPTA









HOSPITAL RENDER

PROJECT:AYURVEDIC COLLEGE AND HOSPITAL

PROJECT DEVELOPERS:

TITLE: first floor plan

NORTH

SCALE:	DRAWING NO.:	DEALT BY:
1:2000	A-009	YASHDOLAS

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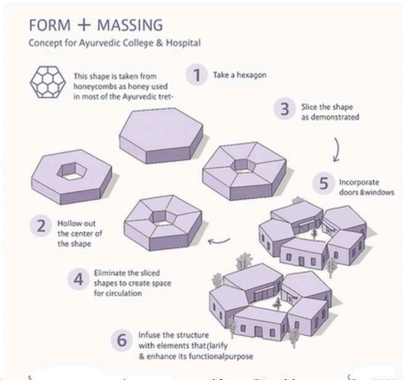
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CONCEPTUAL ANALYSIS

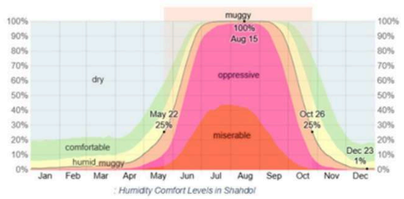
Guided by: DR.Premjeet das gupta

PROJECT NAME: AYURVEDIC COLLEGE AND HOSPITAL,
LOCATION: SHADOL,MADHYA PRADESH,
SITE COORDINATES: Latitude: 23°19'55.85"N, Longitude: 81°22'44.05"E
SITE AREA:11.07 ACRES

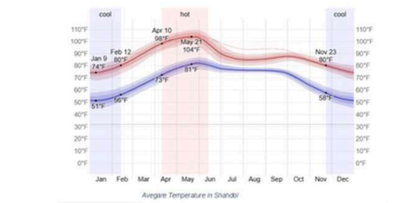


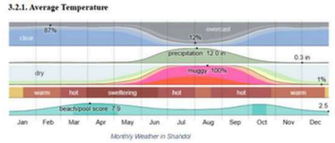
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Natural light, ventilation, and shaded walkways connect the spaces, while the central open area hosts yoga, plant workshops, and community wellness activities, promoting holistic healing in harmony with nature.

AVG.HUMIDITY

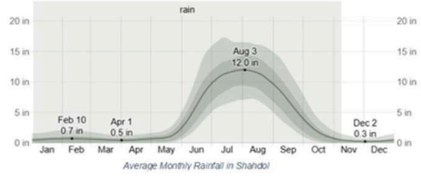


AVG. TEMP





AVG. RAIN

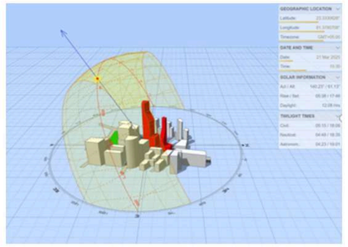


CONTOUR



Contour Map Summary – Shahdol Site
Elevation: Highest in north-central; lowest in southeast.
Slopes: Steep in north & northwest (closely packed lines), gentle in south & southeast.
Drainage: Natural flow towards southeast; potential seasonal water collection there.
Access: HT Line & Village Road at north; allow safety clearance near HT towers.
Design Use:
Build on central/north flatter areas.
Gentle slopes for landscaping/open space.
Southeast low zone for water harvesting/pond.
Preserve vegetation on steep slopes for erosion control.

SUN PATH



Sun Path – Shahdol (23.29° N)
Summer Solstice (~21 Jun) – Longest day (~13.6 h), sun overhead at noon, rises NE, sets NW.
Equinox (~20 Mar & 22 Sep) – Equal day/night (~12 h), rises E, sets W, noon altitude ~66°.
Winter Solstice (~21 Dec) – Shortest day (~10.7 h), low noon altitude (~44°), rises SE, sets SW.
Design Use:
Shade for high summer sun.
Let in low winter sun (south-facing).
Courtyards & rooms can be oriented for soft morning light.

SWOT OF THE SITE

STRENGTH
Rich coal, limestone, and forest resources.
Good rail and road links to Jabalpur, Bilaspur, and Katni.
Cultural diversity with tribal heritage.
WEAKNESS
Limited advanced healthcare and education facilities.
Slow-paced industrial growth.
Dependence on mining and agriculture.
OPPORTUNITIES
Tourism from natural and cultural sites.
Renewable energy and eco-tourism potential.
Agro-based and mineral-based industries.
THREATS
Environmental damage from mining.
Migration due to job scarcity in non-mining sectors.
Infrastructure strain from unplanned urban growth.

ACCESSIBILITY & SITE SURROUNDING

Accessibility & Site Surroundings:
Shahdol railway station: 9.1 km Distance
Shahdol Bus Stand: 4.9 km Distance
Amrita Hospital Shahdol: 4.7 km Distance
Connected main road on the west side of the site
Foster School: 5.2 km Distance

YASH DOLAS
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THESIS PROJECT