

AR3311 - ADVANCED SPACE DESIGN STUDIO

PRIMARY SCHOOL DESIGN

NAME	JAYA SREE. M
REG NO	963423241701
SEM / YEAR	III / II
BATCH	2023 - 2028.
CLG NAME	SIGMA COLLEGE OF ARCHITECTURE



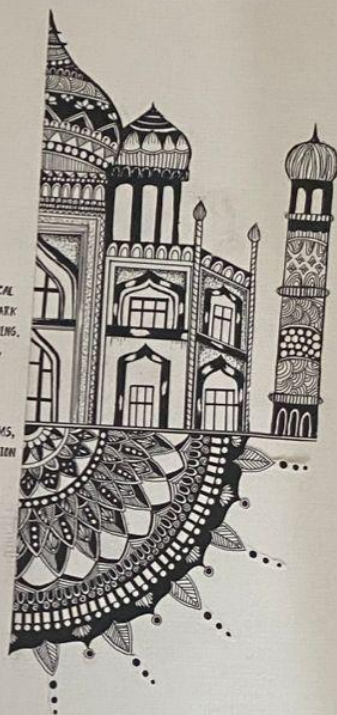


PRIMARY SCHOOL

A PLACE WHERE YOUNG MINDS BLOSSOM, CURIOSITY TAKES FLIGHT, AND FRIENDSHIPS ARE FORGED. THIS MAGICAL PLACE IS CALLED "PRIMARY SCHOOL." HERE, CHILDREN EMBARK ON A GRAND ADVENTURE, EXPLORING THE WONDERS OF READING, WRITING, AND ARITHMETIC. THEY LEARN TO COUNT, SPELL, AND SOLVE PUZZLES, ALL WHILE GIGGLING WITH THEIR CLASSMATES.

PRIMARY SCHOOL IS MORE THAN JUST A PLACE OF LEARNING; IT'S A PLACE OF GROWTH, A PLACE OF DREAMS, AND A PLACE WHERE CHILDREN BECOME THE BEST VERSION OF THEMSELVES.

THE SEEDS OF KNOWLEDGE ARE PLANTED IN THE GARDEN OF PRIMARY SCHOOL.



FEATURES

- DESIGN FOCUSES ON PROVIDING SPACES THAT CONNECTS CHILDREN AND NATURE
- CREATIVE LEARNING METHOD AND FLEXIBLE LEARNING AREAS ARE CREATED
- FORM USED IS UNIQUE
- FOCUSES ON OUTDOOR TEACHING SPACES
- OPEN PLAN PLAY ROOM
- USING SEDUM AS ROOFING PLANT AND SOLAR PANELS
- HEALTHY PLAYING ENVIRONMENT
- LARGE OPEN SPACES, AUDITORIUMS & CIRCULAR SPACES
- INTERNAL CLIMBING WALL

NURSERY SPACE

- THERE ARE OPEN PLAN PLAY ROOMS WITH CENTRAL DINING AND PERFORMANCE SPACE
- A SEDUM ROOF COVERS THE EARLY YEARS BUILDING AND THE LOW LEVEL STORAGE UNITS IN THE PLAYGROUND ARE COVERED WITH SEDUM PLANTS
- THE NURSERY, CIRCULAR IN FORM FILLED WITH NATURAL LIGHT, IS DESIGNED AROUND A CENTRAL TREE HOUSE STORYTELLING SNUG
- THE THEME OF NATURE PERMEATES THROUGHOUT THE SCHOOL AND IS REFLECTED IN FURNITURE MATERIALS, SHADES, COLOURS AND GRAPHICS

IDEOLOGY

THE DESIGN FOCUSES ON PROVIDING SPACES WITH IN SPACES WHICH ENCOURAGE CHILDREN'S CURIOSITY AND CREATIVITY A LEARNING LANDSCAPE ENRICHED WITH "PLAY" ELEMENTS AND MATERIAL FORMS

PRIMARY SPACE

- THE MAIN PLAYGROUND CONTAINS A WATER PUMP AND WEIRS, PLAY TUNNELS, BOLLWORKING WALL, MUD KITCHEN AND FIRE PIT
- THIS WOODEN STRUCTURE CONTAINS STORAGE FOR TOOLS AND MATERIALS PROVIDED FOR THE CONTRACTOR AND OTHER CREATURES OF KID'S IMAGINATION
- IT HAS TIERED OUTDOOR TEACHING AND SOCIAL SPACE WITH INTERACTIVE ZONES
- AN INTERNAL CLIMBING WALL ALSO KNOWN AS THE MAIDENHILL PROVIDES SCOPE FOR HIGH ENERGY ACTIVITY
- THIS LEARNING LAB IS FILLED WITH CURIOSITY CABINETS, MODULAR FURNITURE AND SMART SCREEN TECHNOLOGY WHICH ENABLES ACTIVE TUTIL COLLABORATION THROUGHOUT THE SCHOOL GROUNDS
- FLEXIBLE LEARNING AREAS INCLUDE COZY SNUGS A BEDROOM, HIDEAWAY AND A LARGER AUDITORIUM
- THE "LEARNING LANDSCAPE" CONTINUES THE THEME BEYOND THE BUILDING WHERE THE DESIGN OF THE OUTDOOR SPACES INTEGRATE THE CONCEPT OF "NATURAL PLAY"

CONSTRUCTION MATERIALS

ZINC
TIMBER CLAD
GLASS
TIMBER
PLYWOOD
CONCRETE

LOCATION
NEWTON MEARNS,
UNITED KINGDOM

MAIDENHILL SCHOOL
ARCHITECT - RDP
AREA 4725 m², YEAR 2019

CONCEPT

- THE "LEARNING LANDSCAPE" CONTINUES THE THEME BEYOND A BEYOND THE BUILDING WHERE THE DESIGN OF THE OUTDOOR SPACES INTEGRATE THE CONCEPT OF "NATURAL PLAY"
- THE "THEME OF NATURE" PERMEATES THROUGHOUT THE SCHOOL AND REFLECTED IS ALL SPACES
- IT PROVIDING A TRANQUIL BACK - GROUND

INFERENCE

- USE OF ENERGY EFFICIENCY TECHNIQUES
- LOW WATER USE FITTINGS, SOLAR PANELLED ROOF, WATER HARVESTING
- BEAUTIFUL AND CREATIVE INTERIORS
- IT HAS A LEARNING LAB FILLED WITH CURIOSITY CABINETS

INTERNATIONAL CASE STUDY



PEMERS



DATE: 01.01.2024

SHEET NO

1

NAME

REG NO

BATCH

SEM/YEAR

SUBJECT

CLG NAME

NAME

REG NO

BATCH

SEM/YEAR

SUBJECT

CLG NAME

ARCHITECTURE

ADVANCED SPACE DESIGN STUDIO

SIGMA COLLEGE OF

HANGSHOU HAISHU SCHOOL OF FUTURE SCI TECH CITY

ARCHITECT
LOCATION
CATEGORY
YEAR
AREA

LYCS ARCHITECTURE
HANGZHOU, CHINA
ELEMENTARY & PRIMARY
2018
44,900 m²

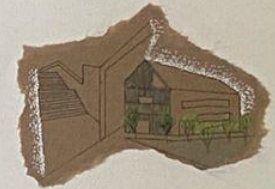


LOCATED IN THE FUTURE SCIENCE AND TECHNOLOGY CITY AREA OF WESTERN HANGZHOU, THE HAISHU SCHOOL IS A 12-CLASS KINDERGARTEN AND 27-CLASS ELEMENTARY SCHOOL COMPLEX DESIGNED BY LYCS ARCHITECTURE. THE SCHOOL'S DESIGN IS INSPIRED BY THE LANGUAGE OF CHILDREN'S DRAWINGS, WHERE THE IDEAL COMPLEX IS FULL OF FRIENDLY SCALES AND JOYFUL STREETS. THE ARCHITECTS HAVE THIS DIVIDED THE 48000 SQUARE METER VOLUME INTO 18 SMALL BUILDINGS WITH GABLE ROOFS. THESE BUILDINGS GRADUALLY INCREASE THE BUILDING SCALE ACCORDING TO THE DIFFERENT SCALES AND BEHAVIORS OF THE KINDERGARTEN.

THE STORY OF A SMALL TOWN

KINDERGARTEN

THE KINDER GARDEN PROGRAM CONSISTS OF 12 CLASSROOMS, WHICH FORM U-SHAPED UNIT WITH OPEN AREA EMBRACING THE CHILDREN.
THE BUILDING FORM ENDS THE ARCHITECTURAL COLOURS, CREATING A SPACE THAT IS COLOURFUL AND WHOLESALE.
THE "SMALL TOWN" FORM OF THE BUILDING EXTENDED TO THE INTERIOR.
THE SHAPES OF CHILDREN'S DRAWINGS APPEAR HERE.



INFERENCE

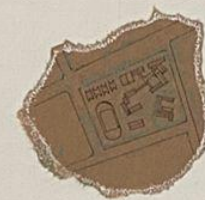
BLOCKS CAN BE PLACED FAR APART TO MAXIMUM IN THE CAMPUS.
CHILDREN OF SAME AGE CAN BE PLACED TOGETHER AT MAY REDUCE BULLYING AND MAKE THE CHILD MORE COMFORTABLE. IT MAY ALSO INCREASE COMMUNICATION BETWEEN CHILDREN.
NEW TECHNIQUES THAT INTEREST AND FACINATE THE KIDS SHOULD BE ADOPTED MOSTLY, COLOURFUL SURROUNDING CREATES HAPPY SPACES.
WHEN THE CONTEXT IS NOT APPEALING, THE WHOLE SETUP CAN WORK INWARDS WHERE EVERYTHING CAN BE CUSTOMIZED ACCORDING TO OUR NEEDS.



FUN ROOFS TO ENJOY - FREELY

TO PROVIDE MORE INTERESTING ACTIVITY SPACES FOR CHILDREN, THE ARCHITECTS USE GABLE ROOFS AND TAKE ADVANTAGE OF THE SPACE UNDER TO PLAY GAMES LIKE FOOTBALL, A-JOO, A TIANJING TREE.

THE DISTINCTIVE COLOURFUL FACADE



CONCEPT

IT IS INSPIRED BY A RANDOM CHILD DRAWING THAT DEPICTS HIS IDEAL SCHOOL WHICH IS LIKE A SMALL TOWN FULL OF SMALL SCALE SPACES AND "HAPPY" STREETS.
THE 28000 SQM CAMPUS IS DIVIDED INTO 35 MUCH SMALLER SCALE WITH GABLE VOLUME.
A COMFORTABLE CAMPUS ENVIRONMENT IS FORMED BY SMALL INNER COURTYARDS WITHIN AND AMONG THESE VOLUMES.
ALL THE FUNCTIONAL SPACES ARE CONNECTED IN SERIES THROUGH CORRIDOR, INNER COURTYARDS.



SITE PLAN

AMENITIES

A GYMNASIUM
A RECREATION COURT
A PRIMARY SCHOOL
A WHITE WALKWAY
A PLAY GROUND
A BUS STAND

PRIMARY SCHOOL

THE NORTH AND SOUTH SIDES, CORRESPONDING TO THE LOWER CORNERS AND THE UPPER CORNERS, FORM TWO THE VARIOUS BY CENTER WALKWAY AND WALK INTO THE TEACHING BUILDING WHICH ALSO SPACE THE CHILDREN TO EXPLORE THE CAMPUS.

THE ENCLOSURE OF THE BUILDING CREATES A DISTINCTIVE INNER COURTYARD AND INTERESTING AREAS.
THE SPACE IN BETWEEN BUILDINGS OFFER INNER COURTYARDS WITH VARIATION OF PLAYING AND LANDSCAPE.
A MAIN STREET THAT STATISTICS WALKWAYS CUSTOMLY AND PEDESTAL IS ALSO CREATED IN BETWEEN THE BLOCKS.
THE HEIGHT OF THESE BLOCKS INCREASE INCREMENTALLY TO ADAPT DIFFERENT ENTERTAINMENTS, AS WELL AS TO CREATE DYNAMIC SKYLINE.
COURTYARD SERVES AS INTERACTIVE SPACES.

COLOR SCHEME

THESE FACADE PAINTED WITH BRIGHT COLOURS OF YELLOW, GREEN AND LIGHT BLUE NOT ONLY RENDER A WARM AND LIVELY ATMOSPHERE, BUT MORE IMPORTANTLY CREATES SENSE OF BELONGING AND IDENTIFICATION OF DIFFERENT LOCATIONS IN THE CAMPUS ACCORDING TO THE LOCATION COLOURS.

STUDENTS CAN EASILY DESCRIBE THEIR THE ENTIRE CAMPUS AND BUILDINGS ARE INTEGRATED WITH THE SCALE, GROWTH AND EMOTIONS OF THE CHILDREN.
THE PASTORAL-LIKE TOWN

SECTION

PLAN

INTERNATIONAL CASE STUDY



SHEETNO
2

NAME
REG NO
BATCH
YEAR/SEM
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CLG NAME

JAVA SREE M
963423265701
2025 - 2028
I / II
ADVANCED SPACE DESIGN STUDIO
SIGMA COLLEGE OF ARCHITECTURE



DESIGN

THE EXISTING NEEM TREE WAS DECIDED TO BE PRESERVED. ITS SHAPE BECAME THE CENTRAL ELEMENT AND AN OPEN COURTYARD WAS CONCEIVED AROUND IT THROUGH A PRACTICAL TRANSITION OF OPEN, SEMICOVERED - FULLY COVERED AREAS. ALL ACTIVITIES WERE ARRANGED AROUND THE CENTRAL OPEN SPACE.



SPACES

● CONNECTION OF THE INNER KING OF THE CHILD TO THE INFINITY IS AN ESSENTIAL ELEMENT OF EDUCATION IN AUTOVILLE.
● THE CURVED ROOFS GRADUALLY RISE UP TO BRING THE SKY INSIDE, TO CONNECT THE EYE TO THE SKY AND INVOLVE SPIRITUAL CONNECTION. THE TRUSSES ELEVATING THE ROOF ARE ELEMENTS TO HANG WORKS OF CHILDREN AND THIS WAY THE BUILDING ITSELF BECOMES THE PART OF THE PLAY.



NANDANAM KINDERGARTEN

LOCATION - AROVILLE PONDICHERRY

SITE AREA - 6150 SQ.M

GROUND COVERAGE - 925 SQ.M

BUILD UP AREA - 737 SQ.M

NO OF FLOOR 1

ARCHITECT - PATH ARCHITECTS & PLANNERS



NANDANAM GARDEN

CONSTRUCTION AND TECHNOLOGY

TYPE OF MATERIAL USED : THE PROJECT IS BUILT ON A LOAD BEARING MATERIAL APPROPRIATE SELECTION OF MATERIAL AS THE CLIMATE HERE IS HOT AND HUMID.

TRUSS AND HOOKER BLOCKS ROOFING : TO KEEP THE SCALE LOW FOR SUPPORT SYSTEM THAT IS TRANSPARENT VIBRANT AND PLAYFUL WITH AN INTERACTIVE POSSIBILITY OF BEING PART OF DISPLAY OF CHILDREN WORKS.

FILLER SLABS USED IN ATE ROOMS : THE FILLER SLABS USED IN ATR- ACTIVITY BLOCKS FOR BETTER INSULATION AND AESTHETICS IN THE ACTIVITY ROOMS.

FEATURES

EXPOSED BRICK WALL, HOLLOW TERRACOTTA ROOFING WITH THERMAL INSULATION, USE OF PLAYFUL ELEMENTS AND A STEADY FLOW OF CIRCULATION SPACES ARRANGED AROUND THE CENTRAL COURTYARD RESPONDING TO THE HOT-HUMID CLIMATE AND HEAVY MONSOONS IN THE AREA, LARGE WINDOWS AND SKYLIGHTS WITH APPROPRIATE ORIENTATION AND OVERHANGS LET IN THE LIGHT AND WIND.



INFERENCE

CHILD - CENTRIC SPACES
THE LAYOUT IS DESIGNED FOR EASE OF MOVEMENT, SAFETY, AND ENGAGEMENT, ENCOURAGING EXPLORATION AND LEARNING.

NATURAL INTEGRATION
THE DESIGN MUST INCLUDE OUTDOOR SPACES, GREENERY AND NATURAL LIGHT TO CONNECT CHILDREN WITH NATURE, PROMOTING WELL-BEING SPACES.

VIBRANT, COLORS AND FORMS
BRIGHT COLOURS AND VARIED FORMS STIMULATE CREATIVITY AND SENSORY DEVELOPMENT.

DESIGN : A CLOSE PLAYMATE TO THE CHILDREN, THE BUILT FORM CREATES OPPORTUNITIES FOR EXPERIMENTAL LEARNING.

COMPONENTS OF PROGRAM

1. ENTRANCE
2. ASSEMBLY HALL
3. CLASSROOMS
4. TEACHERS ROOM
5. ACTIVITY ROOM
6. DINING ROOM
7. DINING ANNEX
8. TOILETS
9. CENTRAL COURTYARD
10. PUZZLE CORNER
11. READING CORNER
12. LEGO CORNER
13. PUZZLE ROOM
14. DOLL HOUSE

VISUAL CONNECTIVITY THROUGHOUT THE SCHOOL, INTERCONNECTIVITY OF DIFFERENT ACTIVITIES AND AN INTEGRAL INCLUSION OF VARIOUS BUILD AND UNBUILT SPACE WAS THE BASIS OF SPATIAL ARRANGEMENT, ALL SPACES ARE ARRANGED AROUND THE CENTRAL AREAS.



INDIAN CASE STUDY



SHEET NO
3

NAME
REXAND
BATCH
YEAR/SEM
SUBJECT
CLG NAME

JAVA SKEE M
95542320101
2023 - 2024
I / II
ADVANCED SPACE DESIGN STUDIO
SIRMA COLLEGE OF ARCHITECTURE

SANGAM ELEMENTARY SCHOOL

ARCHITECT SNEHAKLUE ARCHITECTS

LOCATION KHILWARA, RAJASTHAN
AREA 2600 SQ.M
PLOT AREA 33810 SQ.FT

OBJECTIVE OF PROJECT

- IN OLDEN DAYS, STUDENTS WERE TAUGHT IN OPEN ENVIRONMENT UNDER THE TREES.
- ARCHITECTS HAVE BEEN INSPIRED BY THIS CONCEPT AS THEY HELPS CHILDREN CONNECT WITH NATURE.

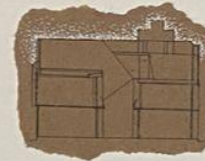
ENVIRONMENT & MICROCLIMATE

- PROJECT IS IN RAJASTHAN IT IS THE HOME OF EXTREMELY HARSH CLIMATE CONDITIONS WITH VERY LITTLE VEGETATION OR WATER AND CLIMATE IS HOT AND DRY.
- FOR COOLING LONG FACING FACADE AT WIND DIRECTION.
- FOR VENTILATION IT HAS TWO COURTYARD BETWEEN THE BUILDING.
- EAST SIDE HAS LESS WINDOWS AND SLOPING PART OF BUILDING.
- REPURPOSE TOOF AS PLAYING AREA.
- PUNCTURE HOLES WINDOWS FOR EXTERIOR VIEW FOR CHILDREN.
- USE OF MORE COLOURS AND SHAPES IN FURNITURE.

ELEVATION



SECTION



FEATURE

- SCHOOL HAS THE TWO COURTYARDS TO REDUCE THE HEAT GAIN AND MAXIMUM VENTILATION AND ALLOWS MORE LIGHT.



STYLE OF ARCHITECTURE

- THE WHOLE STRUCTURE OF BUILDING IN REC FRAMEWORK THE FORM OF STRUCTURE IS TRIANGULAR AND SLOPING LIKE CHEESE PIECE.
- THE DESIGN IS FOCUSED ON ESTABLISHING AN ENTITY FOR STUDENTS, WHERE THE BUILD SPACE AND ENVIRONMENT TOGETHER BECOMES A SUCCESSFUL TOOL FOR LEARNING.
- SCHOOL HAS COURTYARD FOR THE REDUCE HEAT GAIN AND MAXIMUM VENTILATION AND ALLOWS MORE LIGHT.

CONSTRUCTION TECHNOLOGY

- 2 WINDOWS**
THE EXTERNAL SURFACE OF THE BUILDING HAS MULTIPLE PUNCTURES. THE EXTERIOR HAS MANY TINY WINDOW PANELS TO MAINTAIN VISUAL CONNECT WITH NATURE AND THE SURROUNDINGS.
- 2 SLOPE FORM**
THE SLOPE GAVE RISE TO DOUBLE HEIGHT VOLUMNS, WHICH GAVE RISE TO MEZZANINES INSIDE THE CLASSROOMS THESE ADDITIONAL SPACES PROVIDE ROOM FOR MULTIPURPOSE ACTIVITIES.

FORM EVOLUTION

THE ARCHITECTURAL ENTITY WAS INSPIRED BY THAT ENDURING IMAGE OF CHEESE WITH TINY PUNCTURE LIKE WINDOWS THAT HELPS TO MAINTAIN VISUAL CONNECTIVITY WITH NATURE AND THE SURROUNDINGS THE STAGGERING AND TWISTING OF STOREYS GENERATES SMALL PLANTERS.



SECTION



THE STUDENTS GET A VIEW OF THE OUTSIDE WHILE SITTING AT THEIR DESKS

ELEVATION



THE BUILDING IS A THREE STORED STRUCTURE

INFERENCE

- ARCHITECT CREATE A SCHOOL LIKE ENVIRONMENT SPACE.
- NUMBER OF PUNCTURE HOLES WINDOWS HELPS TO SMALL CHILDREN FOR OUTER VIEW.
- REPURPOSED ENTIRE TOOF AS PLAYING AREA.
- COURTYARD IS LIKE BREATHING CENTRE OF BUILDING.
- USING VARIOUS COLOURS WHICH CHILDREN LIKES.
- CHILDREN CONNECT WITH NATURE
- THE BUILDING HAS LOT OF VEGETATION AND OPENINGS.



AMPHITHEATER

REQUIREMENTS OF USER BEHAVIOUR

- USES OF MORE COLOURS AND SHAPES IN FURNITURE.
- USING RAILING AND PLANTERS ALL AROUND PERIMETER FOR CHILDREN SAFETY.
- PUNCTURE HOLES WINDOWS FOR EXTERIOR VIEW FOR CHILDREN.
- REPURPOSE TOOF AS PLAYING AREA.
- UPPER CLASSROOM FOR SENIOR STUDENTS.
- COURTYARD IS LIKE BREATHING CENTRE OF BUILDING.

STRUCTURE

- A COLUMN IN ARCHITECTURE IS A STRUCTURAL ELEMENT THAT TRANSMITS THROUGH COMPRESSION, THE WEIGHT OF THE STRUCTURE ABOVE TO OTHER STRUCTURAL ELEMENTS BELOW. IN OTHER WORDS, A COLUMN IS A COMPRESSION MEMBER.



SITE PLAN ANALYSIS

- SITE IS LOCATED IN THE DENSE URBAN IN CITY IN RESIDENTIAL NEIGHBOURHOOD.
- SITE IS PERFECT RECTANGULAR AND HAS 3 ROAD ON 3 SIDE.
- ENTRY IN SITE FROM MAIN ROAD AT SOUTH-EAST CORNER.
- ORIENTATION EAST FACE BUILDING.

INDIAN CASE STUDY



REMARKS



DATE 20/09/2021

SHEET NO

4

NAME
REG NO
BATCH
YEAR / SEM
SUBJECT
CLG NAME

JAYA SREE M
96542325101
2083 - 2028
II / II
ADVANCED SPACE DESIGN STUDIO

WHO?	HANGZHOU HAI SHU SCHOOL OF SCI-CITY	MAIDENHILL PRIMARY SCHOOL	SANGAM ELEMENTARY SCHOOL	NANDANAM KINDERGARTEN
WHERE?	HANGZHOU, CHINA	SCOTLAND, UK	RAJASTHAN, INDIA	PONDICHERY, TAMILNADU
WHEN?	2018, AREA - 44900 M ²	2019, AREA - 4475 M ²	2018, AREA - 2600 M ²	2014, AREA - 6150 SQM
WHAT?	FUTURISTIC AND INNOVATIVE DESIGN, REFLECTING A FOCUS ON TECHNOLOGY AND MODERNITY. IT FEATURES MODERN ARCHITECTURE INSPIRED BY CHILDREN'S DRAWINGS, WITH A "SMALL TOWN" STYLE LEARNING ENVIRONMENT.	MODERN, FUNCTIONAL DESIGN AIMED AT CREATING OPEN, FLEXIBLE LEARNING SPACES. IT IS A STATE-OF-THE-ART EDUCATIONAL FACILITY COMBINING PRIMARY EDUCATION AND EARLY YEARS LEARNING.	DESIGN ADAPTED TO THE ARID, HOT CLIMATE. IT FOCUSES ON PRIMARY EDUCATION, LIKELY EMPHASIZING FOUNDATIONAL SKILLS LITERACY, NUMERACY, AND CRITICAL THINKING.	TRADITIONAL INDIAN SCHOOL ARCHITECTURE. THE KINDERGARTEN PROVIDES A NURTURING ENVIRONMENT FOR EXPLORATION, CREATIVITY, AND GROWTH.
FURNITURE ARRANGEMENT	ERGONOMIC FURNITURE, DESK MAY HAVE INTEGRATED TECHNOLOGY.	FLEXIBLE, MODULAR FURNITURE	TRADITIONAL STATIC ARRANGEMENT.	TRADITIONAL STATIC ARRANGEMENT
BUILDING MATERIALS	→ GLASS AND STEEL → CONCRETE → HIGH TECH COMPOSITE MATERIALS → SOLAR PANELS → ECO FRIENDLY MATERIALS.	→ SUSTAINABLE TIMBER → GLASS → STEEL AND CONCRETE → RECYCLED AND ECO-FRIENDLY MATERIAL → GREEN ROOFING.	→ LOCAL STONE → THICK MUD OR ADOBE WALLS → LIME PLASTER → TERRACOTA	→ BRICK MORTAR → CONCRETE → CLAY TILES → WOOD → LOCAL STONE
COLOUR SCHEME	EXTERIOR → FUTURISTIC COLORS. → BOLD ACCENTS. INTERIOR → HIGH TECH NEUTRALS. → DYNAMIC ACCENTS.	EXTERIOR → MODERN NEUTRALS. → ECO-FRIENDLY ACCENTS. INTERIOR → CALM, SOFT COLOURS. → BRIGHT ACCENTS.	EXTERIOR → WARM EARTH TONES → TRADITIONAL ACCENTS. INTERIOR → SOFT NEUTRALS. → CULTURAL PATTERNS.	EXTERIOR → EARTH TONES → VIBRANT ACCENTS INTERIOR → NEUTRAL WALLS → ACCENT COLORS.
LANDSCAPING	INTEGRATE MODERN LANDSCAPING WITH TECHNOLOGICAL FEATURES.	GREEN AREAS, INCLUDING GREEN ROOFS.	CLIMATE - ADAPTED LANDSCAPING WITH BASIC GREEN SPACES.	CLIMATE - ADAPTED LANDSCAPING WITH COURTYARDS.
VISTAS				
INFERENCE	→ THE DESIGN IS LIKELY CHARACTERIZED BY FUTURISTIC AESTHETICS AND ADVANCED TECHNOLOGICAL INTEGRATION. → FEATURES SUCH AS FLEXIBLE SPACES, HIGH-TECH LABS, AND INNOVATIVE BUILDING MATERIALS ARE USED TO CREATE A STATE-OF-THE-ART EDUCATIONAL ENVIRONMENT. → THE ARCHITECTURE SUPPORTS THE SCHOOL'S FOCUS ON STEM AND INNOVATION.	→ THE ARCHITECTURE EMPHASIZES SUSTAINABILITY AND FLEXIBILITY, WITH A DESIGN THAT INTEGRATES NATURAL LIGHT AND OUTDOOR LEARNING SPACES. → THE USE OF ECO-FRIENDLY MATERIALS AND ENERGY EFFICIENT SYSTEM SUPPORTS. → THE OPEN PLAN LAYOUT PROMOTES A COLLABORATIVE AND ADAPTABLE ENVIRONMENT.	→ THE DESIGN REFLECTS A BLEND OF TRADITIONAL RAJASTHANI ARCHITECTURE WITH MODERN ADAPTATIONS TO SUIT THE ARID CLIMATE. → THICK WALLS, SMALL WINDOWS, AND COURTYARDS ARE INTEGRAL TO MANAGING HEAT AND PROVIDING SHADED AREAS. → THE ARCHITECTURAL STYLE LIKELY INCORPORATES LOCAL MATERIALS AND DECORATIVE ELEMENTS.	→ THE DESIGN FOCUSED ON OPTIMIZING LIMITED URBAN SPACE WHILE ADDRESSING THE HOT AND HUMID CLIMATE. → FEATURES SUCH AS OPEN COURTYARDS AND VERANDAS ARE USED TO ENHANCE VENTILATION AND COOLING.

PRIMARY SCHOOL - COMPARATIVE ANALYSIS



REMARKS
DATE 10-10-2024

SHEET NO
5

NAME
REG NO
BATCH
YEAR/SEM
SUBJECT
CLG NAME

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FACILITIES

- C DANCE ROOM
- C MUSIC ROOM
- C LABORATORY
- C YOGA ROOM
- C INDOOR GAMES
- C SICK ROOM
- C MONTESSORI
- C LIBRARY
- C CANTEEN
- C ADMINISTRATION

LANDSCAPE



A CIRCULAR LAWN LANDSCAPE
C THE CIRCULAR DESIGN CREATES THE BALANCED AND VISUALLY APPEARING SPACE, IDEAL FOR SHOWCASING A FOCAL POINT.

STAIRCASE



MONTESSORI

- C A MONTESSORI DESIGN FOCUS ON THE CREATING A CHILD CENTRED ENVIRONMENT THE FOSTERS INDEPENDENCE CREATIVITY AND NATURAL EXPLORATION.
- C FLEXIBLE SPACE.
- C MINIMALIST AND ORGANISED.
- C LEARNING BY DOING.



GRASS CONTOURING



GRASS CONTOURING REFERS TO SHAPING OR LEVELLING GRASSY AREAS TO FOLLOW THE NATURAL OR DESIGNED TOPOGRAPHY OF A LANDSCAPE. IT IS OFTEN USED TO IMPROVE AESTHETICS.

KEY FEATURES,

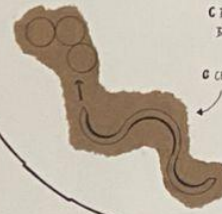
- C EROSION CONTROL
- C AESTHETICS.
- C IMPROVED DRAINAGE.
- C TERRACING.

PLAN



CONCEPT

C FORM "C" REFLECTS IN THE DESIGN BECAUSE OF THE SCHOOL NAME.



C BUILDING ARRANGEMENT IS BASED ON CLUSTER FORM.

C CENTRIC DESIGN

MATERIALS

- C CONCRETE.
- C BRICKS.
- C PVC.
- C INTERLOCKING TILES.
- C CERAMIC TILES.
- C STEEL.
- C HOLLOW STEEL.
- C PLYWOOD.
- C TEXTURED WALL.
- C CEMENT FLOOR.



INFERENCE

SPATIAL LAYOUT THE SCHOOL'S LAYOUT IS LIKELY ORGANIZED TO FOSTER BOTH ACADEMIC AND EXTRACURRICULAR ACTIVITIES.

COMMUNITY AND GATHERING DESIGNED TO PROMOTE INTERACTION AND A SENSE OF COMMUNITY AMONG STUDENTS AND STAFF.

LOCAL CONTEXT AND MATERIALS THE DESIGN EFFECTIVE BLEND WITH THE LOCAL ENVIRONMENT. THE DESIGN FOLLOWS REGULATORY STANDARDS FOR FIRE SAFETY, EMERGENCY EXITS AND STRUCTURAL STABILITY.

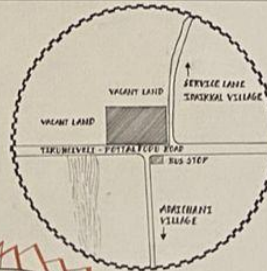
LIVE CASE STUDY



REMARKS	SHEET NO.	NAME	JAVA SHEEL M
	6	REG NO	96542825101
		BATCH	2024 - 2028
		YEAR/SEM	I / II
		SUBJECT	ADVANCED SPACE DESIGN STUDIO
		CLG NAME	SIGMA COLLEGE OF ARCHITECTURE

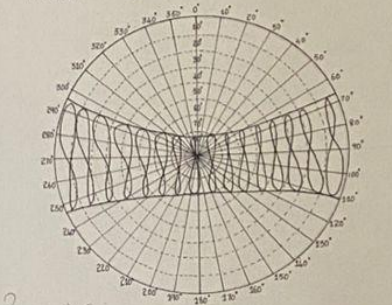
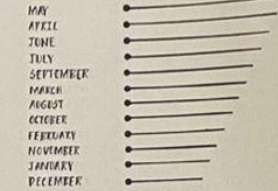


LOCATION
ANAINAPAKUMALNADANUR,
ALANGULAM TALUK,
TIRUNELVELI,
TAMILNADU,
INDIA



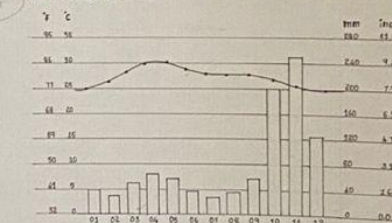
CLIMATOLOGY

ANNUAL HIGH TEMPERATURE	35.9°C
ANNUAL LOW TEMPERATURE	24°C
AVERAGE ANNUAL PRECIPITATION	163.28 mm
WARMEST MONTH	APRIL 35.83°C
COLDEST MONTH	JANUARY 20.09°C
WETTEST MONTH	NOVEMBER 439.45 mm
DRIEST MONTH	JULY 25.46 mm



SUN PATH
DIAGRAM

HOT SEMI-ARID CLIMATE WITH HIGH HUMIDITY



CLIMATE GRAPH / WEATHER BY MONTH

HOT AND HUMID

NEARBY ACCESS

HOSPITAL	AMBALI GOVERNMENT HOSPITAL - 9.5 KM
POLICE STATION	MANNAKOVIL PRIMARY HEALTH CENTRE - 6.8 KM
POST OFFICE	AMBALI POLICE STATION - 8.8 KM
BUS STAND	TAPPANKULAM POST OFFICE - 4.4 KM
FIRE STATION	OPPOSITE TO THE SITE - BUS STOP - 1.5 KM
	AMBASAMUTHIRAM BUS STAND - 7.4 KM
	AMBASAMUTHIRAM FIRE STATION - 8.2 KM

VEGETATION

- MAGILAM TREE
- NEEM TREE
- PALM TREE
- KAKUVELAM TREE
- FOREST BUSHES

S
THE SOIL IS SUITABLE FOR AGRICULTURE LIKE
THE SITE IS NEAR TO MOST OF THE FACILITIES
WATER PROXIMATE
WARM CLIMATE

W
THE OVER POPULATION AROUND THE SITE
THE SITE IS DIRECTLY ACCESSIBLE FROM ONLY ONE SIDE
SOIL ERODES EASILY

O
EXISTING MOUNTAIN VIEWS
EXISTING GREEN AREAS
LOW TRAFFIC AREA
IMPROVED TECHNOLOGY

T
SOIL EROSION
NATURAL DISASTER
ECONOMIC POWERTY IN THE AREA
PLANTS, GRASS, TREES IN THE SITE

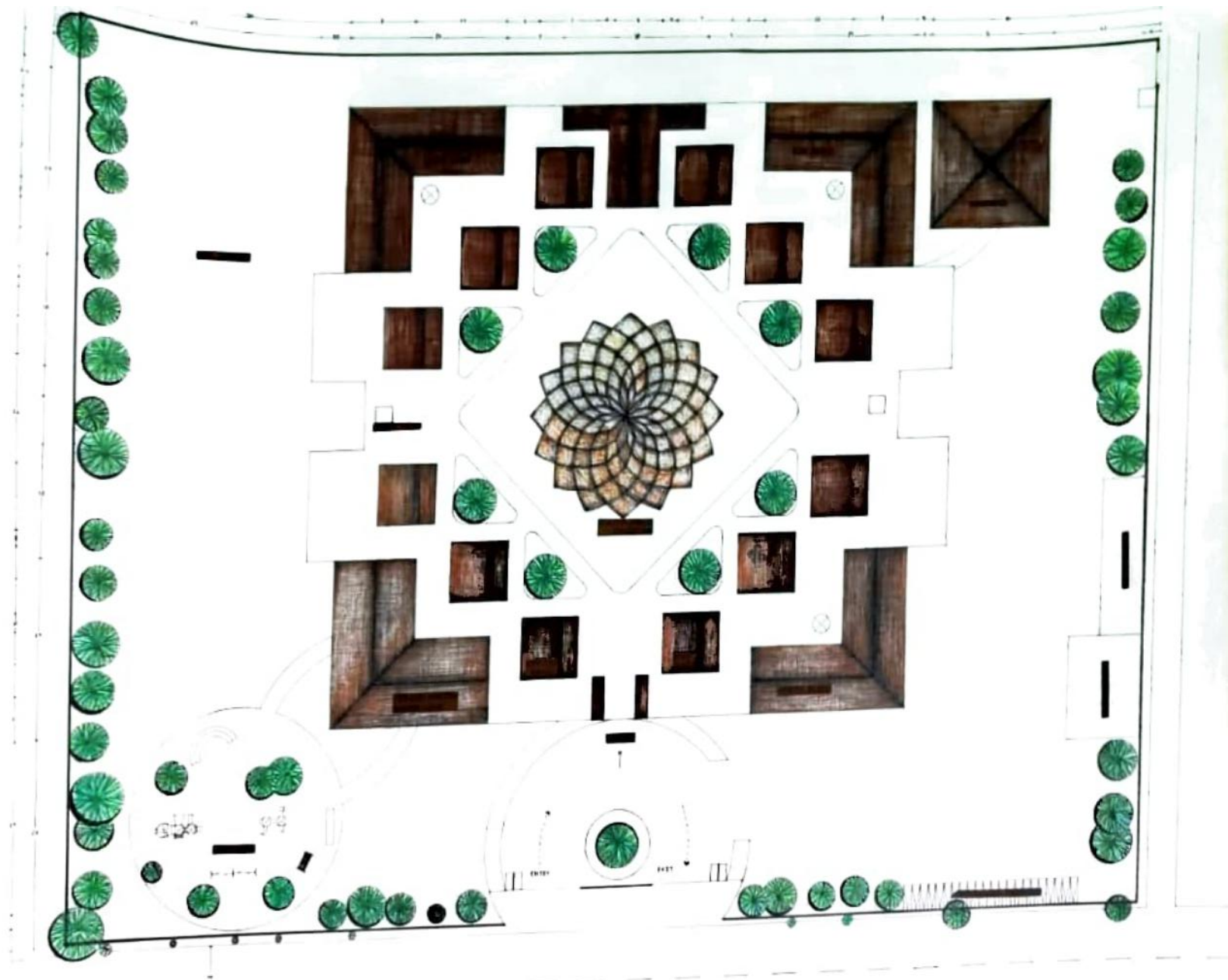
PRIMARY SCHOOL - SITE ANALYSIS

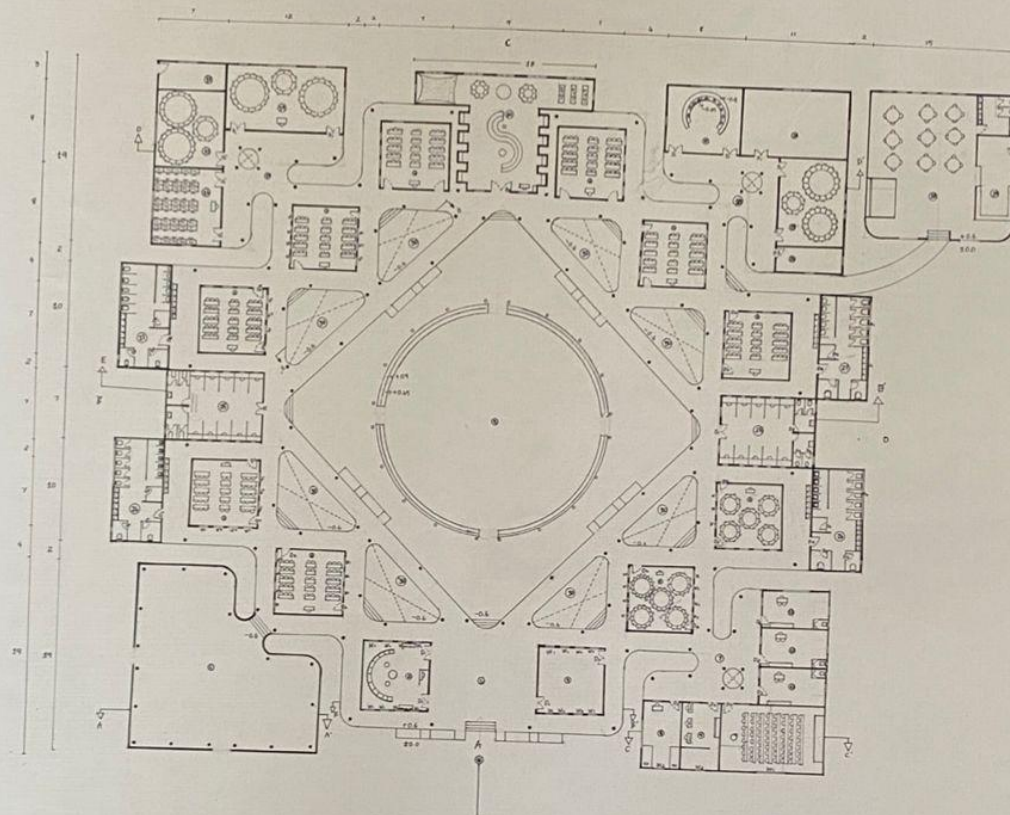


DATE: 10/10/2024
ALL DIMENSIONS ARE IN METERS
SCALE: 1:400

SHEET NO.
7

NAME: JAYA SREE M
REG NO: 96342852101
BATCH: 2025 - 2028
YEAR/SEM: II / II
SUBJECT: ADVANCED SPACE DESIGN STUDIO
CLG NAME: SIGMA COLLEGE OF ARCHITECTURE





LEGENDS

1. ENTRY	- 100 m ²
2. WRITING ROOM	- 100 m ²
3. BOOK DEPOT	- 100 m ²
4. CLASS ROOMS	- 100 m ²
5. MULTI PURPOSE HALL	- 400 m ²
6. SMOKE GARDEN AND LAWN (SMOKE GARDEN)	- 200 m ²
7. ADMIN BLOCK	- 200 m ²
8. SICK ROOM	- 50 m ²
9. ACCOUNTS	- 50 m ²
10. MEETING HALL	- 80 m ²
11. PRINCIPAL ROOM	- 80 m ²
12. VICE PRINCIPAL ROOM	- 50 m ²
13. CORRESPONDENT ROOM	- 50 m ²
14. LIBRARY	- 100 m ²
15. STEM LAB	- 200 m ²
16. COMPUTER LAB	- 100 m ²
17. SCIENCE AND MATHS LAB	- 100 m ²
18. LANGUAGE LAB	- 100 m ²
19. STORE ROOM	- 50 m ²
20. ACTIVITY BLOCK	- 200 m ²
21. MUSIC ROOM	- 50 m ²
22. DANCE ROOM	- 50 m ²
23. ART ROOM	- 50 m ²
24. STORE ROOM	- 50 m ²
25. TEACHERS ROOM	- 100 m ²
26. TOILET (BOYS)	- 50 m ²
27. TOILET (GIRLS)	- 50 m ²
28. CANTINE	- 100 m ²
29. KITCHEN	- 50 m ²
30. COURTYARD	- 100 m ²
31. STATIONERY SHOP	- 50 m ²

D1	- 1.2 x 2.0 m
D2	- 1.2 x 2.0 m
D3	- 1.2 x 2.0 m
D4	- 0.8 x 1.8 m
D5	- 2.4 x 0.6 m
D6	- 2.4 x 1.2 m
D7	- 2.4 x 0.6 m
D8	- 0.4 x 1.2 m

PRIMARY SCHOOL - FLOOR PLAN



REMARKS



DATE: 11-11-2024



ALL DIMENSIONS ARE IN METERS

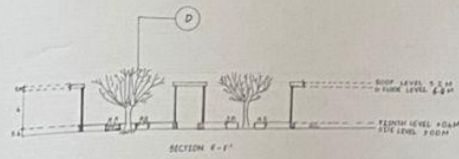
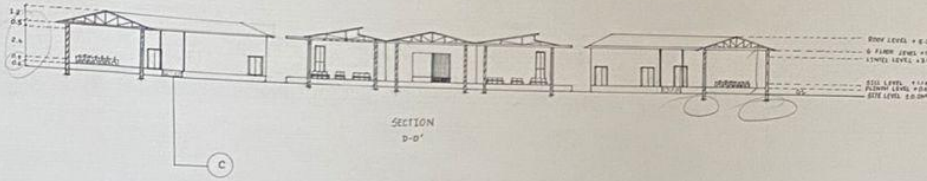
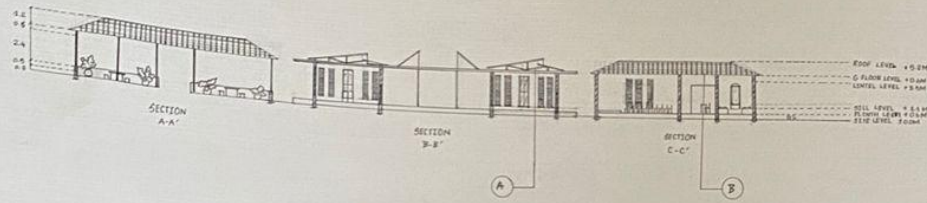
SHEET NO

10

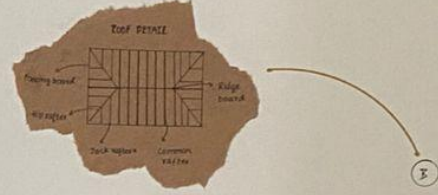
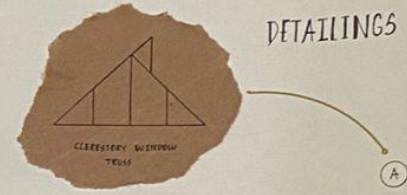
NAME
REG NO
BATCH
YEAR / SEM

JAVA STEEL M
963423251701
2023 - 2024
2 / 2

SECTIONS



DETAILINGS



PRIMARY SCHOOL - SECTIONS

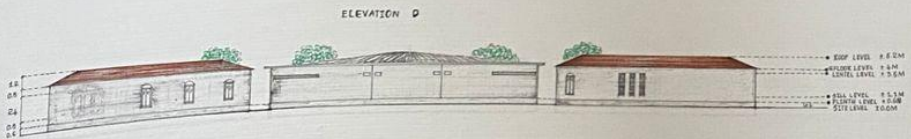
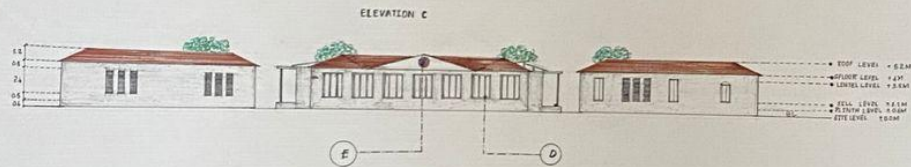


SCALE 1/20
ALL DIMENSIONS
ARE IN METRES

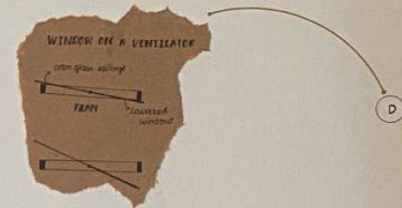
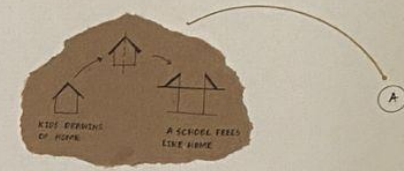
SHEET NO
11

NAME
REG NO
BATCH
SEM / YEAR
SUBJECT
CLG NAME
JMA STEEL M
9254 2525 2101
2025 - 2028
II / II
ADVANCED SPACE DESIGN STUDIO
SINHA, CHAKRAVARTY

ELEVATIONS



DETAILINGS



PRIMARY SCHOOL - ELEVATION

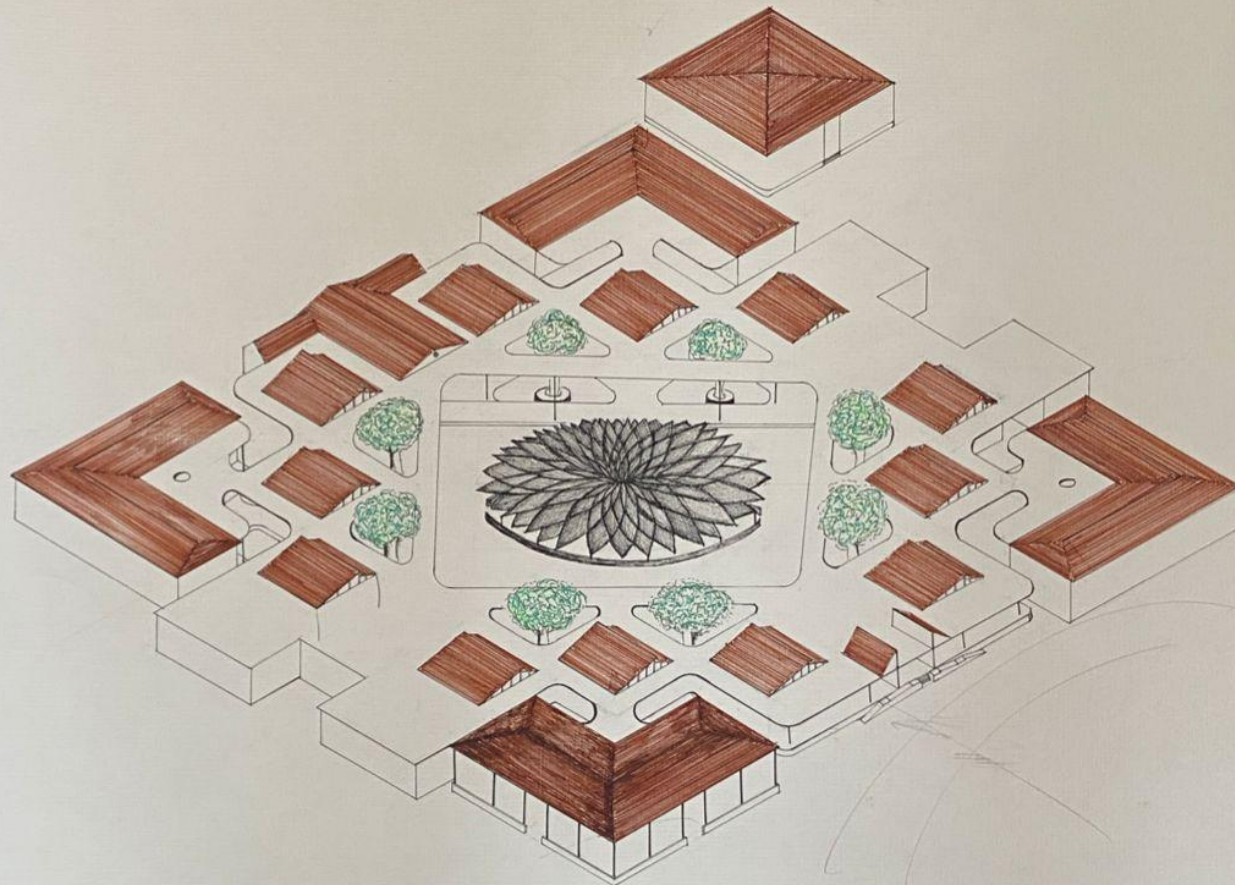


SCALE 1:200
ALL DIMENSIONS
ARE IN METRES

SHEET NO
11

NAME
REGNO
BATCH
SEM/YEAR
SUBJECT
CLG NAME

JAVASREE.M
96362355101
2023-2028
III / III
ADVANCE SPACE DESIGN STUDIO
SIBMA COLLEGE OF
ARCHITECTURE



PRIMARY SCHOOL - VIEW



SHEET NO.
12

NAME JAYA SREE M
REG NO 96342324, 1101
BATCH ED23 - 2024
SEM/YEAR II / I
SUBJECT ADVANCED SPACE DESIGN STUDIO
COLLEGE SIGMA COLLEGE OF ARCHITECTURE



