

**THESIS REPORT ON
OLD AGE HOME CUM ORPHANAGE**

**BACHELOR OF ARCHITECTURE
BY**

ATUL KEERTI

1150101022

THESIS GUIDE

**PROF. MOHIT KR. AGARWAL
AR. RAMAKANT**

SESSION

2019-20

TO THE

SCHOOL OF ARCHITECTURE AND PLANNING

BABU BANARASI DAS UNIVERSITY

LUCKNOW.

**SCHOOL OF ARCHITECTURE AND PLANNING
BABU BANARASI DAS UNIVERSITY,
LUCKNOW (U.P.).**

CERTIFICATE

I hereby recommend that the thesis entitled“OLD AGE CUM ORPHANAGE, NEW DELHI“ under the supervision of PROF. MOHIT KR. AGARWAL, is the bonafide work of the student and can be accepted as partial fulfillment of the requirement for the degree of Bachelor’s degree in architecture, school of Architecture and Planning, BBDU, Lucknow.

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Recommendation

Accepted
Not Accepted

External Examiner

External Examiner

BABU BANARASI DAS UNIVERSITY, LUCKNOW (U.P.).

Certificate of thesis submission for evaluation

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ACKNOWLEDGEMENT

I would like to take this opportunity to thank my beloved thesis guide of **PROF. MOHIT KR. AGARWAL**, who have always helped me and have give me brilliant ideas. I highly appreciate all the help they have given to me. Their concerns about the many problems involved in acquiring land for **OLD AGE HOE** or for the expansion of existing ones have encouraged me to conduct this study as a means of presenting more explicitly the difficulties of **OLD AGE HOME** in metropolitan areas.

I would like to thank the Dean **PROF. MOHIT KR. AGARWAL** and thesis coordinator **Ar. Urvashi Tiwari** without whose help and co-ordination this thesis may not have been possible. I also want to thank all my faculty members for the guidance that helped successfully integrating the research aspects of the project throughout this thesis.

ATUL KEERTI

INDEX

CHAPTER 1 : INTRODUCTION

CHAPTER 1 : SITE STUDY

CHAPTER 1 : CASE STUDY

CHAPTER 1 : LITERATURE STUDY

CHAPTER 1 : CONCEPT

INTRODUCTION

OLD AGE-

OLD AGE IS WHEN A PERSON IS OLD AND NEAR THE TIME WHEN HE OR SHE DIES. HELPLESS PEOPLE OF ABOVE 60 YEARS IRRESPECTIVE OF RACE, CAST AND CREED CAN BE REHABILITATED WITH THE FULL RESPONSIBILITY IN A CENTRE NAMED OLD AGE .ALL BASIC AMENITIES LIKE ACCOMMODATION, FOODS, CLOTHS, MEDICINES AND OTHER FACILITIES ARE PROVIDED FREE OF COST TO THE NEGLECTED, UNABLE TO EARN LIVELIHOOD AND HELPLESS OLD PEOPLES OF ABOVE 60 YEARS TILL THEIR DEATH IN THE CENTRE.



ORPHANAGE-

AN ORPHANAGE IS A PLACE WHERE CHILDREN WHO DO NOT HAVE GUARDIANS WHO ARE CAPABLE OF CARING FOR THEM LIVE. SOME ORPHANAGES EMPLOY PROFESSIONALS LIKE NURSES, TEACHERS, AND OTHER PEOPLE INVOLVED IN RAISING CHILDREN IN ORDER TO CARE FOR THE CHILDREN ENTIRELY WITHIN THE ORPHANAGE.



AIMS -

"THE AIM IS TO PROVIDE A SECURE AND FRIENDLY ENVIRONMENT, A SPACE FOR INTERACTION AND A COMMON SHELTER FOR TWO GENERATIONS WHERE THEY CAN SHARE THEIR GRIEVANCES WITH EACH OTHER."



OBJECTIVE-



TO CREATE A FRIENDLY ENVIRONMENT WHERE THE CHILDREN WOULD BE ABLE TO LEARN WITH ELDERLY LIKE THEIR GRANDPARENTS UNDER THEIR SUPERVISION AND ELDERLY ALSO BE ABLE TO SPEND TIME AND UNDERSTAND THE NEW GENERATION AND THE ATMOSPHERE CREATED BY MY DESIGN WOULD BE RESPONSIBLE FOR THIS SENSE OF FEELING.

TO PROVIDE STABLE, SAFE, AND HOMELIKE ATMOSPHERE FOR ORPHANS AND ELDERLY.

TO PROVIDE EDUCATION AND THE OPPORTUNITY FOR SELF DEVELOPMENT TO ENABLE THEM INDEPENDENT LIVES.

TO PROTECT CHILDREN FROM FURTHER EXPLOITATION AND CHILD LABOR.

NEEDS OF PROJECT-



THE REMAINING UNITS WOULD BE AVAILABLE FOR RETIRED CENTRAL AND STATE GOVERNMENT EMPLOYEES, ARMED FORCES, TEACHING FACULTY OF GOVERNMENT UNIVERSITIES AND COLLEGES AND DDA EMPLOYEES OF CERTAIN PAY SCALES. THE EXACT QUOTA FOR EACH CATEGORY IS YET TO BE DECIDED. THE APARTMENTS WOULD BE ALLOTTED WITH LIFE-LONG TENANCY RIGHTS. AFTER THE DEATH OF THE ALLOTTEE, THE DDA WOULD RE-ALLOT THE UNIT TO THE NEXT PERSON IN THE WAIT-LIST.

PROBLEM STATEMENT-

IT HAS DECIDED TO SET UP AN OLD AGE HOME CUM ORPHANAGE FOR OLDER PEOPLE AND ORPHANS WHO HAVE NOWHERE TO GO, AND NO ONE TO SUPPORT THEM, OLD AGE HOMES CUM ORPHANS SERVE AS A SAFE HEAVEN.

THESE HOMES GIVE THEM A SENSE OF SECURITY AND FRIENDSHIP AS SHARE THEIR GRIEVANCES WITH OTHERS LIKE THEM STAYING AT HOME, MAKING THEM AN UNUSUAL FAMILY OF OLD PEOPLE AND ORPHANS.

Table 2.4. Elderly and Children population

Year	Population in lakh	
	Elderly (+60year)	Children (0-14year)
1991	4.5 (4.8%)	32.8 (34.8%)
2001	8.1 (5.9%)	40.6 (29.5%)
2011	14.2 (7.8%)	45.0(24.7%)
2021	24.6 (10.7%)	49.9 (21.7%)

SCOPE AND LIMITATION-

TO UNDERSTAND THE PROJECT IN DETAIL AND STUDY ALL ITS ASPECTS AND CONDITIONS TO MAKE THESE PEOPLE FIT SURVIVAL.

CONNECTIVITY OF VARIOUS SPACES INCLUDING OLD AGE HOME, ORPHANAGE, ADMINISTRATION, RECREATIONAL, REHABILITATION, LIBRARY, PLAY GROUND AND LANDSCAPED AREAS IS IMPORTANT AS IT CREATES THE OVERALL AMBIENCE OF THE SPACE.

TO UNDERSTAND HOW ARCHITECTURE OF SPACES AND LANDSCAPE CAN GIVE THEM COMFORT AND EXCITEMENT WHICH HELP ME IN DESIGNING.

SCOPE FOR THE PROJECT WOULD INCLUDE COLOUR SCHEME, FRIENDLY AND CALM ENVIRONMENT, LIGHTING, PSYCHOLOGICAL ASPECT.

TO UNDERSTAND THE ASPECTS OF COST EFFICIENT ARCHITECTURE TO MAKE THE BUILDING SELF SUSTAINABLE.

THE PROJECT WILL FOCUS ON THREE MAJOR ASPECTS: SAFETY, SECURITY AND COMMUNAL NEEDS.

IT WILL LIMIT ITSELF DEPENDING UPON THE AGE FACTORS OF BOTH THE AGE GROUP PEOPLE.

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SITE STUDY

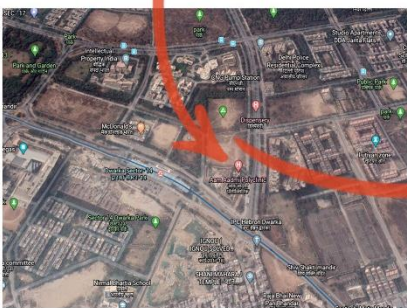
WHY DWARKA?

- CONNECTIVITY TO ALL THE MAJOR AREAS LIKE HOSPITALS, BUS STATIONS AND STOPS, SCHOOLS, BANKS RAILWAY STATIONS, METRO STATIONS ETC.
- EASILY ACCESSIBLE BY CAR, BUS OR PUBLIC TRANSPORT. WELL CONNECTED ROADS WITH PROPER INFRASTRUCTURES AND SERVICES.
- DEFINED GREEN BELTS AND FOOTPATHS.
- ADJACENT TO HIGH DENSITY RESIDENTIAL AREAS.
- WITHIN REACH OF A WIDER COMMUNITY.
- SINCE IT IS CONNECTED TO MAJOR CITIES AND ROADS, HAS A GREAT SCOPE TO BECOME A LANDMARK.

SITE LOCATION-

PROJECT BRIEF

THE DELHI GOVERNMENT AUTHORITY HAS DECIDE TO MAKE AN OLD AGE CUM ORPHANAGE HOME IN DWARKA SECTOR-16. THE PURPOSE OF HOME IS TO HELP THE ELDERLY AGED PEOPLE AND THE ORPHANS.



ACCESSIBILITY

- ✈ 14.0 KM FROM I.G.I AIRPORT
- 🚂 1.2.0 KM FROM NEW DELHI RAILWAY STATION.
- 🚫 4.0 KM FROM DWARKA SECTOR 10
- 🏠 11.0 KM FROM DADA DEV HOSPITAL
- 🚌 3.0 KM FROM DTC BUS TERMINAL

MAJOR SURROUNDING

DWARKA IS LOCATED IN SOUTH- WEST OF DELHI & ITS MAIN LANDMARK ARE-

- DINDIRA GANDHI INTERNATIONAL AIRPORT
- JANAKPURI & VIKAS PURI
- FIVE STAR HOTEL LIKE HOTEL RADISON.
- NATIONAL HIGHWAY 8
- VASANT VIHAR
- VASANT KUNJ
- GURGAON

POPULATION & AREA

POPULATION-11LAKHS
TOTAL AREA-5648 HECTARE
AREA (PHASE 1)-1964 HACTARE
AREA (PHASE 1)-1996 HACTARE
AREA (PHASE 1)-1688 HACTARE
DWARKA PROJECT IS PLANNED 29 SECTORS

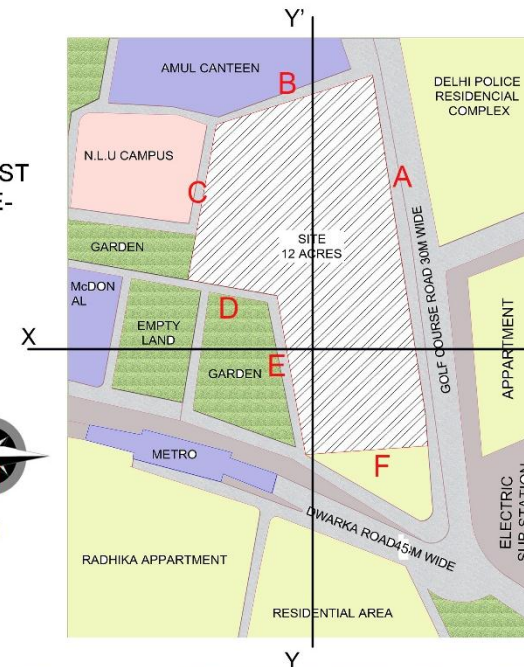
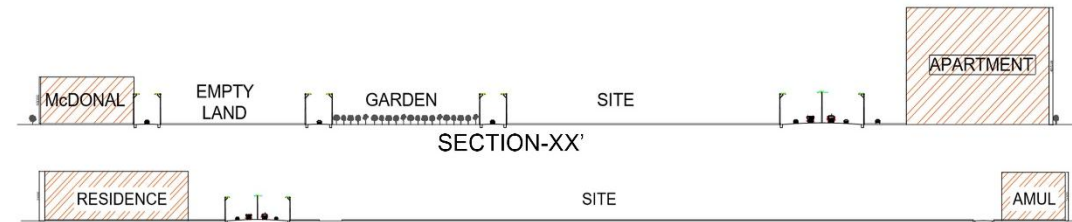
LAND DISTRIBUTION OF DWARKA

RESIDENTIAL-48.54%
COMMERCIAL-7.05%
GOVERNMENT-0.94%
PUBLIC/SEMI PUBLIC-16.20%
RECREATIONAL-16.94%
TRANSPORT-14.33%
UTILITIES-3.0%

SLOPE OF SITE

NATURAL SLOP OF THE SITE IS TOWARDS NORTH DIRECTION.

ON SITE CONSIDERATION



LOCATION

THIS SITE IS LOCATED IN SECTOR 16 DWARKA, NEW DELHI.

DIMENSION OF SITE

THE DIMENSION OF SITE ARE-

A SIDE - 343.2 M.
B SIDE - 145.9 M.
C SIDE - 144.5 M.
D SIDE - 80.6 M
E SIDE - 148.0 M.
X'F SIDE - 108.8 M.



SOIL CONDITION

SITE HAVING HARD STRATA HAVING COMPOSITE OF GREY ALLUVIAL SOIL WITH ROCK FORMATION AT SOME PART.



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SITE STUDY

OFF SITE CONSIDERATION-

ACCESS TO SITE-

THE NORTH SIDE (DWARKA ROAD) IS 45 M WIDE.
THE WEST SIDE (GOLF COURSE ROAD) IS 30M WIDE.
AND OTHER ALL ROAD ARE 9 M WIDE.

TRANSPORT-

THE SITE IS WELL CONNECTED WITH AD-
EQUATE SERVICE LIKE-
METRO STATION
BUS STATION
AUTO



NATIONAL LAW UNIVERSITY



AMUL CANTEEN



DELHI POLICE RESIDENCE

SERVICES-

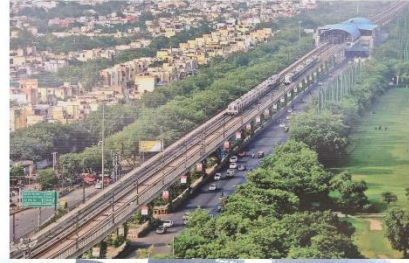
ELECTRICAL SUB STATION
HIGH TENSION LINES AND LOW TENSION LINES COULD BE TAKEN FROM ELECTRICAL POWER



DRAINAGE
PROPER DRAINAGE ARE RUNNING ALONG THE SITE TO COLLECT THE RAIN WATER



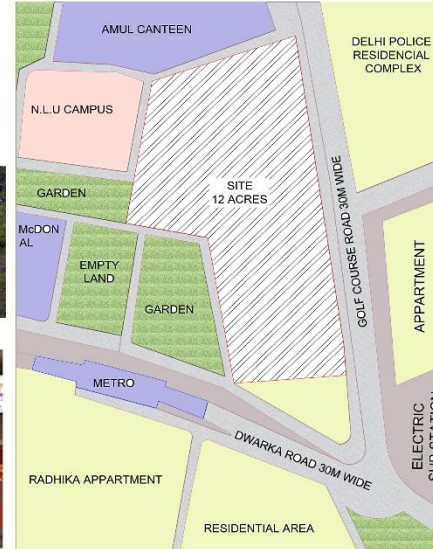
SEWER LINE
SEWER LINE ARE RUNNING ALONG THE ROADS UNDER THE PATHWAY



GARDEN



MCDONALDS



APARTMENT



ELECTRICAL SUB STATION



SURROUNDING-

THE SITE SURROUNDING CONSIST-
METRO STATION AT NORTH-EAST SIDE
ELECTRICAL POWER SUB STATION AT NORTH-WEST SIDE.
APARTMENT AROUND THE SITE AT WEST, NORTH,NORTH-EAST AND SOUTH-WEST SIDE.

EXISTING FEATURE-

THE SITE CONSIST OF-
WILD GRASS
EXISTING TREE

EXISTING FEATURE-

F.A.R - 1.25
GROUND COVERAGE-25%
PARKING- @3 E.C.S PER 100 SQM



RADHIKA APPARTMENT



RESIDENTIAL AREA

TREE-



NEEM



SACRED FIG



GOOLAR FIG



MANGO



ASHOKA



HIGH TENTION
HIGH TENTION LINES ARE RUNNING ALONG THE ROAD.

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SITE STUDY

CLIMATE STUDY

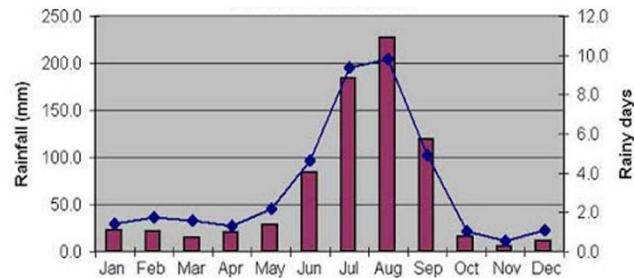
THE CLIMATE ANALYSIS ON THE SITE SHALL INFLUENCED THE FOLLOWING ASPECTS IN DESIGN OF THE BUILDING LIKE , ORIENTATION OF THE BUILDING , PROTECTION FROM SUN EXPOSURE, COOLING & HEATING DEVICES AND CHOICES OF MATERIAL.

THE SITE IS LOCATED IN DWARKA SECTOR 16, NEW DELHI.

LATITUDE: 28°36'5,90"N

LONGITUDE: 77°01'13"E

ALTITUDE :- 214 METRE ABOVE FROM SEA LEVEL.



MAINLY THREE SEASONS OCCURS :-

HOT & DRY CLIMATE (MARCH – JUNE)

WARM & HUMID (JULY – SEPTEMBER)

COOL & DRY (OCTOBER - FEBRUARY)

MAXIMUM TEMPERATURE :-

39.8°C IN THE MONTH OF MAY.

MINIMUM TEMPERATURE :-

7.6 °C IN THE MONTH OF JANUARY.

AVERAGE TEMPERATURE :-

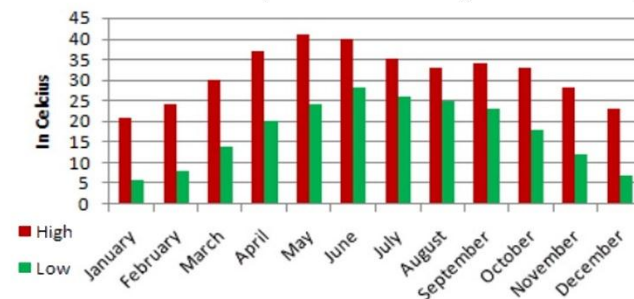
31°C IN THE MONTH OF JUNE

PRECIPITATION (MM)

•MAXIMUM :- 230MM. ,AVERAGE RAINFALL FOR 16 DAYS (JULY)

•MINIMUM :- 9MM. ,AVERAGE RAINFALL FOR 1 DAY (NOVEMBER)

•AVERAGE :- 120MM. , RAINFALL FOR (SEPTEMBER)



SWOT ANALYSIS

STRENGTH :-

SITE IS SURROUNDED BY RESIDENTIAL AND EDUCATIONAL UNITS, THAT GIVES A SENSE OF SECURITY.

ON THE ONE SIDE OF THE SITE FLOWS THE NAZAFGARH CANAL.

EASY ACCESS TO RAILWAY STATION AND BUS TERMINAL.

RELATIVE HUMIDITY :-

• MAXIMUM :-73°C IN THE MONTH OF AUGUST

• MINIMUM:-33°C IN THE MONTH OF MAY

• AVERAGE :-47°C IN THE MONTH OF JUNE

•WIND AND SPEED :-

•THE WINDS DIRECTION IS N-W TO S-E.

•IN WINTERS COLD & DRY WINDS FROM N-W.

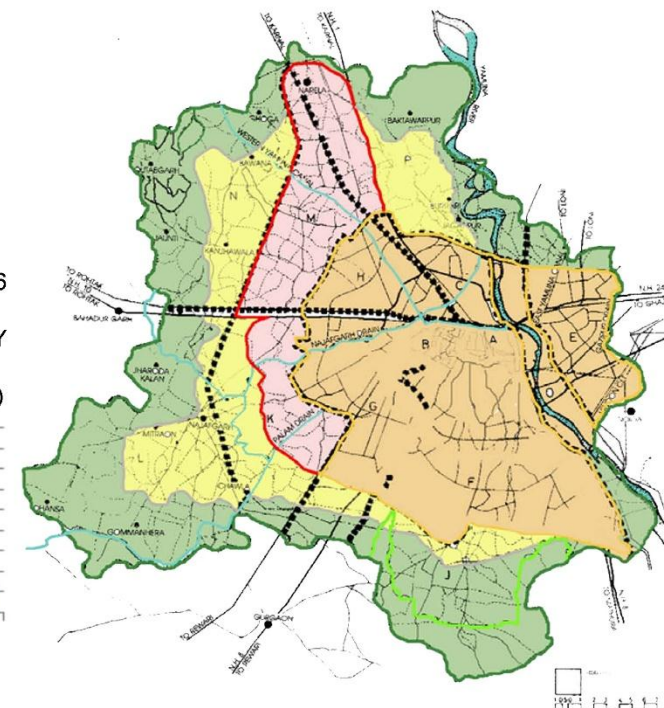
•IN SUMMERS HOT AND DUSTY ATMOSPHERE IN MAY- JUNE.

•SUN MOVEMENT :-

•THE SUN MOVES EAST TO WEST VIA SOUTH DIRECTION.

•THE SUN AFFECTS THE SITE OR BUILDING FEATURES LIKE ORIENTATION, WINDOW PLACEMENT, SOLAR DESIGN FEATURES AND ETC.

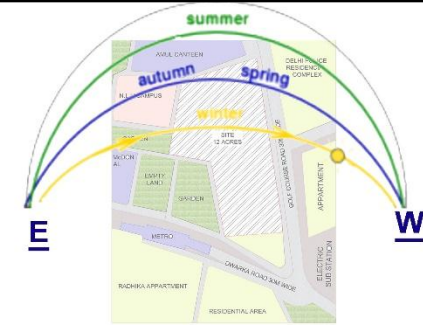
MASTER PLAN DELHI (2021)



WEAKNESS :-

LOW WATER LEVEL.

VISUAL BARRIER BY HIGH RISE APARTMENTS.



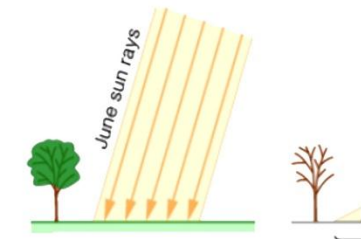
Temperature averages for Dwarka

AVERAGE DAYTIME TEMPERATURES (°C)

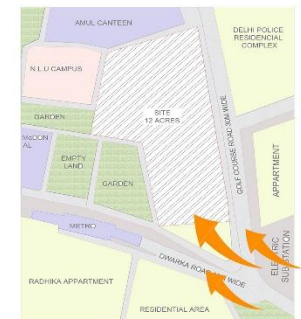
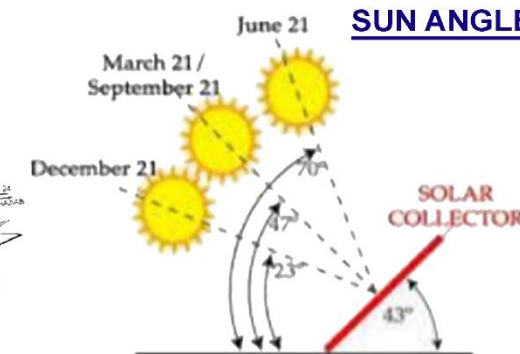
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MAX	32	36	37	39	35	36	34	32	34	38	36	32
AVG	23	25	27	29	31	31	30	29	29	30	28	25
MIN	0	15	20	25	28	0	0	25	25	20	0	15

AVERAGE NIGHTTIME TEMPERATURES (°C)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MAX	27	29	29	29	31	33	31	30	30	34	32	28
AVG	20	22	24	27	29	30	29	27	27	27	25	21
MIN	14	15	19	23	27	26	26	0	21	24	26	14



SUN ANGLE



WIND DIRECTION



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CASE STUDY - 1

LOCATION-	B-11,SECTOR-62, NOIDA (U.P)
BUILDING TYPE-	OLD AGE HOME CUM ORPHANAGE
MATERIAL-	BRICK ,CONCRETE ,PVC DOOR WINDOW
AREA-	5.5 ACRES
PROJECT COST-	15.5 CRORE
CLIENT-	NOIDA DEVELOPMENT AUTHORITY
FLOOR-	5 FLOORS
CAPACITY-	400 (200-250 ELDERLY) (150 ORPHANAGE)

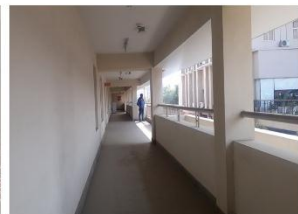
ABOUT BUILDING-

DADA-DADI PARK, AN INITIATIVE OF THE NOIDA AUTHORITY IS A STEP TOWARDS THE BETTERMENT OF SENIOR CITIZENS, HOMELESS COUPLES AND ORPHAN CHILDREN. IT WILL BE READY IN THE BEGINNING OF 2018. THE BUILDING WILL BE CONSTRUCTED ACROSS OF 4,300 SQUARE METRES WITH EACH FLOOR OCCUPYING 1,300 SQUARE FEET AREA. IT WILL HAVE A OF 76 ROOMS AND 4 DORMITORIES.



LANDSCAPING-






IT HAVE OTHER EXTERNAL LANDSCAPE SPACE, BUT INSTEAD LANDSCAPED INNER LAWN. SOME LANDSCAPING IS ALSO IS SEEN IN THE SIDE OF BUILDING.



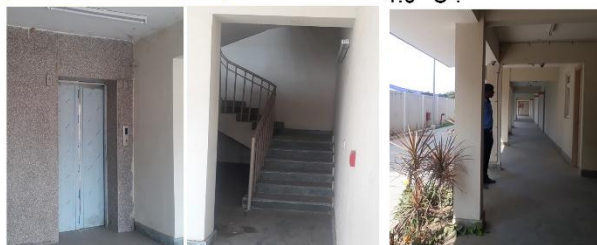
BUILDING ORIENTATION-

BUILDING ENTRANCE IS FROM SOUTH. ALL ROOMS GET SUNLIGHT AND VENTILATION. CORRIDORS' OPENS INTO INTERNAL GREEN LAWN, DUE TO WHICH THE BUILDING IS PROPERLY VENTILATED.

ACCESSIBILITY-

-  33.0 KM FROM I.G.I AIRPORT
-  17.0 KM FROM NEW DELHI RAILWAY STATION.
-  7.0 KM FROM NOIDA CITY CENTRE
-  9.0 KM FROM FORTIS HOSPITAL, NOIDA
-  11.0 KM FROM GHAZIABAD BUS TERMINAL

CIRCULATION-



FOR VERTICAL CIRCULATION THERE IS A STAIRCASE AND ALSO A LIFT. HORIZONTAL CIRCULATION IS THROUGH CORRIDOR HAVING WIDTH OF 2.5M WIDE.

AREAS-

- DORMITORIES-65SQM.
- STORE-25 SQM.
- LIBRARY-95 SQM
- DOCTOR ROOM-36 SQM.
- MEETING ROOM-30
- VOCATIONAL TRAINING -25SQM.
- ELECTRICAL ROOM-25
- WARDEN ROOM-20SQM
- ADMINISTRATIVE ROOM-35 SQM.
- 2 BEDED ROOM-25 SQM.
- 4 BEDED ROOM-30 SQM.
- TOILET-25 SQM.
- PRAYER ROOM- 40 SQM.



CLIMATE-

GREATER NOIDA HAS A HOT AND HUMID FOR MOST OF THE SEASON.

SUMMER

FROM MARCH TO JUNE THE WEATHER REMAINS HOT AND TEMPERATURE RANGES FROM MAXIMUM OF 45.0 °C | 113.0 °F TO MINIMUM 23.0 °C | 73.0 °F.

MANSOON

MANSOON SEASON PREVAILS DURING MID JUNE TO MID SEPTEMBER WITH AN AVERAGE RAINFALLOF 93.2 CM (36.7 INCHES), BUR SOME TIMES FREQUENT HEAVY RAIN CASES FLOOD.

WINTER-

IN THE WINTER SEASON TEMPERATURES FALL SUBSTANTIALLY DOWN TO AS LOW AS 3.0 °C TO 4.0 °C .

FLOOR PLANS-



PADESTRIAN



STAIRCASE



GROUND FLOOR



CORRIDOR



LIBRARY

ANNUAL TEMPERATURE & RAINFALL CHART			
Months	Max	Min	Rainfall
January	21	07	25
February	24	10	22
March	30	15	17
April	36	21	07
May	41	27	08
June	40	29	65
July	35	27	211
August	34	26	173
September	34	25	150
October	35	19	31
November	29	12	01
December	23	08	05



LIFT



KITCHEN



4 BEADED ROOM



GROUND FLOOR



TYPICAL FLOOR PLAN



GENERATOR



2 BEDED ROOM

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CASE STUDY - 2

LOCATION-

IT IS LOCATED IN THE RESIDENTIAL AREA OF DWARAKA SECTOR -2, PLOT NO.-7, NEW DELHI. IT IS SURROUNDED BY THE RESIDENTIAL APARTMENTS.



ACCESSIBILITY-

11.0 KM FROM I.G.I AIRPORT

23.0 KM FROM NEW DELHI RAILWAY STATION.

4.0 KM FROM DWARKA SECTOR 10

11.0 KM FROM DADA DEV HOSPITAL

3.0 KM FROM DTC BUS TERMINAL

LANDSCAPING-

IT HAS A WELL LAID OUT LAWN INSIDE THE BUILDING. IT ALSO HAVE OTHER EXTERNAL LANDSCAPE SPACE, BUT INSTEAD BEAUTIFULLY LANDSCAPED INNER LAWN. SOME LANDSCAPING IS ALSO IS SEEN AT THE FRONT OF ENTRANCE.



ABOUT GODHULI-

IT STARTED FUNCTIONING IN 2002 AND IS BUILT ON A 4000 SQ MTS PLOT AND CONSISTS OF GROUND, FIRST, SECOND, & THIRD FLOOR AND THERE IS A BASEMENT CAR PARK.

ELECTRICITY AND DRAINAGE-

ELECTRICITY SUPPLY COMES FROM MAIN POWER HOUSE OF THE AREA. DRAINAGE CHANNELS RUN ALONG THE BUILDING PROFILE PATHWAYS ARE WELL PAVED..

BUILDING ORIENTATION-

BUILDING ENTRANCE IS FROM NORTH - WEST. ALL ROOMS GET SUNLIGHT AND VENTILATION. CORRIDORS' OPENS INTO INTERNAL GREEN LAWN, DUE TO WHICH THE COMPLEX IS PROPERLY VENTILATED.



CIRCULATION-

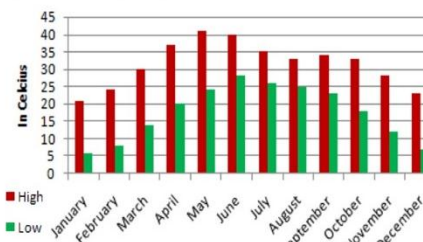
FOR VERTICAL CIRCULATION THERE IS A STAIRCASE AND ALSO A LIFT. HORIZONTAL CIRCULATION IS THROUGH CORRIDOR HAVING WIDTH OF 2.0M WIDE. RAMP'S RATIO 1:12 IS PROVIDED TO ACCESS THE LAWN.



SPECIAL FEATURE-

SPACE BETWEEN TWO ROOMS IS CREATED IN SUCH A MANNER, THAT IT CAN BE USED FOR SITTING IN CORRIDOR. INNER COURTYARD IS SURROUNDED BY BUILDING BLOCK WHICH MAKE SHADOW INSIDE OF IT. PARKING FACILITY IS PROVIDED.

CLIMATE-



THE NEW DELHI LIES ON 215M ABOVE SEA LEVEL . THE PREVAILING CLIMATE IN NEW DELHI IS KNOWN AS A LOCAL STEPPE CLIMATE. DURING THE YEAR, THERE IS LITTLE RAINFALL IN NEW DELHI. THE TEMPERATURE HERE AVERAGES 25.2 °C | 77.3 °F. THE ANNUAL RAINFALL IS 693 MM | 27.3 INCH.

SITE SURROUNDING-



AREAS-

GROUND COVER- AGE = 30% (1100 SQ.M.)
AREA = 1.5 ACRES
FAR = 1.2
COVERED AREA = 3750 SQ.M.
ROOMS = 12SQ.M,
15SQ.M
TOILET = 6SQ.M.
DINNING = 100SQ.M.
MULTIPURPOSE HALL = 75SQ.M
LIBRARY = 20SQ.M.
DISPENSARY = 100SQ.M.
LIFT = 2.5SQ.M.

FLOOR PLANS-



DEMERITS-

A MEDITATION HALL IS ABSENT. THERE IS NO PROVISION OF SIGNAGE. A COMMON CENTRAL ZONE IS ABSENT. FLOOR WISE AREA IS NOT DISTRIBUTED

DEMERITS-

WELL LIGHTED ROOMS WITH PROPER VENTILATION. LOCATED IN A NOISE FREE CONTEXT, PROVIDING SMOOTHER ENVIRONMENT TO INMATES. PROPER INTEGRATION OF GREEN SPACES. RAMP IS PROVIDED AT THE ENTRANCE. LIFT IS PROVIDED FOR VERTICAL CIRCULATIONS. A LIBRARY IS ALSO GIVEN.

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LITERATURE STUDY - 1

AMSTERDAM ORPHANAGE, NETHERLANDS

ARCHITECT- ALDO VAN EYCK
LOCATION- AMSTERDAM, THE NETHERLANDS
DATE- 1960 TO 1961
BUILDING TYPE- DORMITORY
CONSTRUCTION SYSTEM BRICK, CONCRETE, BRICK GLASS
STYLE- MODERN
FACILITIES- INFIRMARY
 FESTIVE HALL
 THEATRE / GYM
 PSYCHOLOGISTS AND STAFFS
 ADMINISTRATION
 LIBRARY
 MENTINANCE AND SERVICE ROOM
 GARAGE

CLIMATE- TEMPERATE

NOTES- LOW PROFILE, FREE PLAN CREATING LOCAL COURT, REPEATED MODULES WITH INDIVIDUAL HIPPED ROOF.



- A HOME FOR 125 CHILDREN OF ALL AGES WAS CREATED HERE, ARTICULATING A REVOLUTIONARY
- SYNTHESIS IN THE CONSIDERATION OF THE INDIVIDUAL AND THE GROUP, INNER AND OUTER SPACE,
- EXTENDED AND SMALL AREAS.
- HIS DESIGN FOCUSED ON A BALANCE OF FORCES TO CREATE BOTH A HOME AND SMALL CITY ON THE OUTSKIRTS OF AMSTERDAM.

FACILITIES-

BOYS -14-18
 GIRLS-14-18
 BOYS-10-14
 GIRLS-10-14
 KIDS-6-10
 KIDS -4-6
 KIDS-2-4
 INFIRMARY
 FESTIVE HALL
 THEATRE / GYM
 PSYCHOLOGISTS AND STAFFS
 ADMINISTRATION
 LIBRARY
 MENTINANCE AND SERVICE ROOM
 GARAGE
 MAIN LINEN ROOM
 MAIN KITCHEN AND DIRECTOR'S ROOM
 TEAM LEADER'S ROOM

CONCEPT-

THE ORPHANAGE DEvised BY ALDO VAN EYCK QUICKLY BECAME KNOWN THROUGHOUT THE WORLD DUE TO THE EXEMPLARY CONCEPT OF THE BUILDING, A HOME FOR 125 CHILDREN OF ALL AGES, ARTICULATING A REVOLUTIONARY SYNTHESIS IN THE CONSIDERATION OF THE INDIVIDUAL AND THE GROUP, THE INNER AND OUTER SPACE, OF LARGE AND SMALL AREAS.



STRUCTURE-

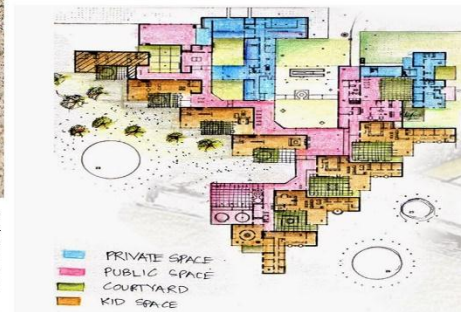
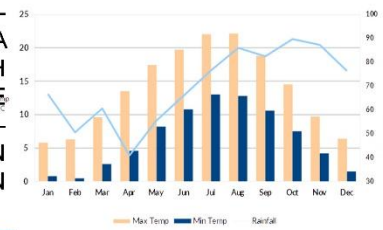
UNDERNEATH THE ARCHITECTURAL BALANCE THAT IS OFFERED TO THE SIGHT IS A STRICTLY CONFIRMED ARCHITECTURAL ORDER, CONSISTING OF COLUMNS, CARGO WALLS AND ARCHITRAVES THAT COMBINE TO FORM AN ORTHOGONAL GRID. THE ROOF DOMES AT THE TOP OF THE GRID PROVIDE CONTINUOUS SPATIAL ARTICULATION.

CLIMATE-

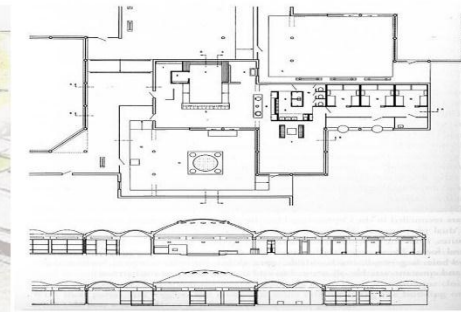
THE NETHERLANDS HAVE A TEMPERATE MARITIME CLIMATE INFLUENCED BY THE NORTH SEA AND ATLANTIC OCEAN, WITH COOL SUMMERS AND MODERATE WINTERS. DAYTIME TEMPERATURES VARIES FROM 2°C-6°C IN THE WINTER AND 17°C-20°C IN THE SUMMER.



Max/Min Average Daily Temp & Monthly Rainfall in Amsterdam



PLAN

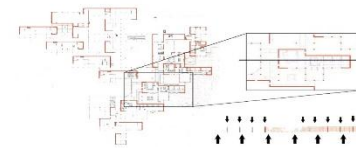


ELEVATION



MATERIAL-

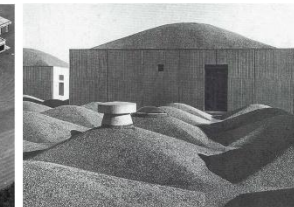
THE BUILDINGS HAVE BEEN BUILT WITH REINFORCED CONCRETE PANELS AND BOTH OPAQUE BRICK, DARK BROWN, AND TRANSLUCENT GLASS. THE FLOORS ARE ALSO MADE OF CONCRETE



STRUCTURE AND GRAVITATIONAL LOADS

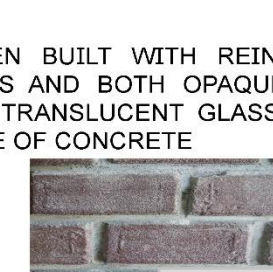
SKY LIGHT-

SOME OF THE DOMES ARE COVERED WITH SKYLIGHTS THAT ALLOW THE ENTRANCE OF NATURAL LIGHT. THE RAYS OF LIGHT PENETRATE THE SEMI-DARK ROOMS CREATING IMAGES OF GREAT VISUAL INTEREST. ALONG THE MAIN CORRIDORS ARE GLASS WALLS THAT OVERLOOK THE MANY COURTYARDS OF THE BUILDING, ALLOWING FOR BEAUTIFUL VIEWS, IN ADDITION TO PROVIDING LIGHT TO MOST AREAS OF THE ORPHANAGE



DOME-

THE CENTRAL AREA OF THE PROJECT IS COVERED WITH A HUNDRED PYRAMIDAL DOMES OF SQUARE BASE, 3.36M OF SIDE, PREFABRICATED IN CONCRETE AND SOME OF THEM WITH A CENTRAL SKYLIGHT. THE DOMES ARE SUPPORTED BY A GRID OF EQUAL DIMENSIONS CREATED BY ROUND PILLARS AND CONCRETE T-SHAPED JIGS MADE IN SITU.



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LITERATURE STUDY - 2

BHARAT SADAN, HARIDWAR (UTTRAKHAND)

LOCATION-

BHOOPATPUR, SAPT SAROVAR ROAD, HARIDWAR, UTTARAKHAND

ACCESSIBILITY-

HARIDWAR BUS STAND AND RAILWAY STATION-8 KM NEAR BHARAT MATA JANHIT TRUST

SURROUNDING-

SYNDICATE BANK OUTSIDE THE ASHRAM. A HOSPITAL WITHIN THE PROXIMITY OF 1K.M. SITE WAS FLAT WITH NO UNDULATIONS. TEMPLE IS LOCATED IN NORTH SIDE.

COURTYARD-

COURTYARD HAS GREEN SPACE. FACILITATE PROPER SITTING. BENCHES ARE ALSO LAID IN THE COURTYARD. FACILITATE SOCIAL INTERACTION BETWEEN THE OLD.



DESIGN ELEMENT-

SHADING DEVICE (CHAJJA)
JALLIES
COURTYARD PLANNING



ACCOMODATION-

FOR 324 SENIOR CITIZENS IN 108 ROOMS. TWO PEOPLE STAY IN A ROOM.



DINING HALL-

ALL THE INMATES NEED TO EAT THEIR MEALS IN THE COMMON DINING ROOM. KITCHEN AND WASH ROOM ARE ATTACHED IN A ROOM. CAPACITY ONLY FOR 80 PERSONS.

MEDICAL FACILITY-

SEPARATE ROOM FOR DOCTOR. DOCTOR COME DAILY. PROVISION OF AMBULANCE AVAILABLE FOR 24X7 HOURS



CLIMATE-

TOURISTS PLANNING TO VISIT HARIDWAR SHOULD VISIT THE CITY BETWEEN SEPTEMBER AND MARCH. HARIDWAR IS BEST KNOWN AS A PILGRIMAGE DESTINATION. HARIDWAR EXPERIENCES THREE SEASONS IN A YEAR - SUMMER, MONSOON AND WINTER.

SUMMER IN HARIDWAR

THIS CLIMATE EXTENDS FROM MARCH TO MAY AND THE TEMPERATURE GENERALLY RANGES FROM 18° C TO 40° C.

MONSOON IN HARIDWAR

MONSOON IS WHEN HARIDWAR RECEIVES A DECENT AMOUNT OF RAINFALL, ALTHOUGH HUMIDITY INCREASES CONSIDERABLY. THIS SEASON STRETCHES FROM JUNE TO SEPTEMBER.

WINTER IN HARIDWAR

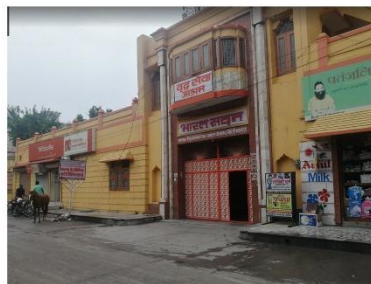
WINTERS ARE COOL AND PLEASANT AND LAST FROM OCTOBER TO FEBRUARY. THE MINIMUM AND MAXIMUM TEMPERATURES RANGE FROM 6° C AND 30° C RESPECTIVELY.

PLANING-

COURTYARD PLANNING. EVERY ROOM HAS OPENING IN THE COURTYARD. FACILITATE PROPER SITTING. ROOMS CONNECTED BY CORRIDOR RUN ALONG THE COURTYARD. EVERY ROOM ATTACHED WITH TOILETS. PROVISION OF ROOMS FOR COUPLE. PROVISION OF LIFT LEADING TO FIRST AND SECOND FLOOR. 10" WIDE CORRIDOR

ABOUT BUILDING-

BUILT IN JULY 1982. FREE FOR POOR (TRUST PAID) TOTAL NO. OF ROOMS ARE 108. TOTAL INTAKE IS 324.



Haridwar Current Weather

Mostly cloudy throughout the day. Min 10° C Max 20° C

Best Season / Best Time to Visit Haridwar

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Year Weather Chart

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min 8° C	Min 11° C	Min 14° C	Min 19° C	Min 22° C	Min 25° C	Min 24° C	Min 24° C	Min 23° C	Min 17° C	Min 14° C	Min 8° C
Max 18° C	Max 21° C	Max 26° C	Max 34° C	Max 38° C	Max 39° C	Max 31° C	Max 30° C	Max 29° C	Max 26° C	Max 20° C	Max 19° C

FLOW CHART-



VERTICAL CIRCULATION-

WELL DESIGNED USE OF STAIRCASES AND LIFTS STAIRCASES ARE DESIGNED THAT THERE ARE 15 STEP IN SINGLE FLIGHT RISER - 4 INCHES, TREAD - 12 INCHES(1") AND 4FT WIDE

VERTICAL CIRCULATION-

NO PROVISION OF RAMPS ONLY ONE LIFT IS PROVIDED RECREATIONAL FACILITIES, T.V ROOM, LIBRARY ARE ALSO NOT PROVIDED LESS SETBACK SPACES (10FT ONLY) IN WHICH NO FRONT SETBACK IS PROVIDED

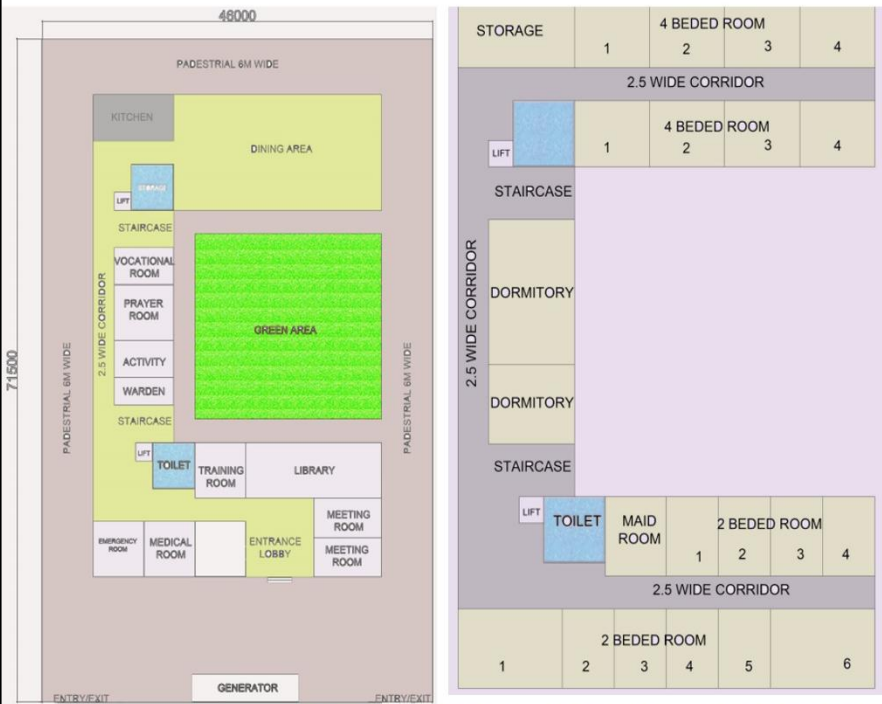


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COMPARATIVE CHART

CASE STUDY FLOOR PLANS-



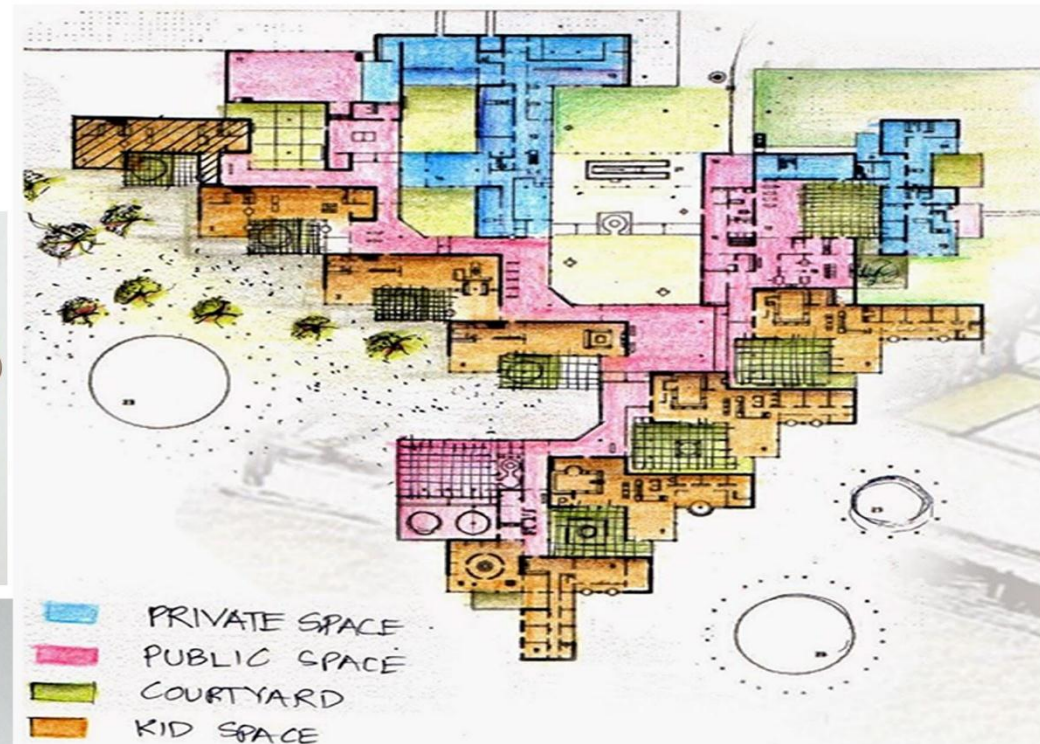
CASE STUDY-2 GROUND +3RD FLOOR



COMPARATIVE CHART

	DADA-DADI PARK ,NOIDA	GODHULI OLD AGE HOME	AMSTERDAM ORPHANAGE,NETHERLANDS	BHARAT SADAN, HARIDWAR (UTTRAKHAND)
BUILDING TYPE	OLD AGE CUM ORPHANAGE	OLD AGE HOME	ORPHANAGE	OLD AGE HOME
CONCEPT & STYLE	CORIDOOOR BASED PLANNING	CORIDOOOR BASED PLANNING	CORIDOOOR BASED PLANNING	CORIDOOOR BASED PLANNING
LOCATION	SECTOR-62, NOIDA (UP)	SECTOR-2, DWARKA, NEW DELHI	AMSTERDAM THE NETHERLAND	BHOOPATPUR, SAPT SAROVAR ROAD, HARIDWAR, UTTARAKHAND
SITE AREA	22257.7SQM.	4000 SQM.	-	4500 SQM.
NO. OF BLOCKS	1	1	1	1
HEIGHT	16.5 MTR.	12.4 MTR.	4.5 MTR.	6.5 MTR.
NO. OF FLOORS	G+4	G+5	1	G+1
BASEMENT	NO	YES	NO	NO
PARKING	AROUND THE BUILDING	-	-	-
NO. OF LIFTS	2 LIFTS	2 LIFTS	NO	NO

LITRATURE-1 GROUND



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STANDARD

STANDARDS-

THE DESIGN GUIDELINES FOR PEOPLE WITHIN AND OUTSIDE THE BUILDINGS AND FACILITIES SHOULD BE SIMILAR LIKE OTHER PHYSICALLY DISABLED PERSON.
DIMENSION OF WHEELCHAIR- 1070MMX750MM.

TOILET:-

THE MINIMUM SIZE- 1500MMX1750MM.
HANDRAILS ARE 50MM CLEARANCE FROM WALL.

AREA:-

AREAS OF BEDROOM 13.5 SQ. M.

AREAS OF DORMITORY 33.5 SQ. M. PER 6 PERSON

AREA OF YOGA, MEDITATION HALL, LIBRARY PER INMATE 2.5 SQ. M.

RAMPED APPROACHED-

RAMP SHOULD BE FINISHED WITH NON-SLIP MATERIAL TO ENTER THE BUILDING
MINIMUM WIDTH OF RAMP- 1800MM AND MAXIMUM GRADIENT IS 1:12 TO 1:20
VERTICAL CIRCULATION
RAMPS SHOULD BE FREE FOR ACCESSIBILITY TO LEVEL CHANGES FOR EASY AND BARRIER FREE CIRCULATION.
WIDTH-1200MM
HANDRAILS HEIGHT ON RAMP-850-900MM

GREEN SPACES-

GREEN SPACE SHOULD BE WELL INTEGRATED WITH HABITABLE ROOMS
IT SHOULD BE SUCH THAT PERSONS SITTING IN A ROOM OR BALCONY CAN EASILY VIEW THE GREEN SPACE AND ALSO IT SHOULD BE NOISE FREE BUFFER ZONE

HORIZONTAL CIRCULATION-

CORRIDOR SHOULD HAVE MINIMUM WIDTH OF 2.4M
IT SHOULD HAVE HANDRAILS ON THE WALLS FOR EASY WALKING OF SENIOR CITIZENS

WALKWAYS AND PATHWAYS-

SMOOTH, HARD LEVEL SURFACE SUITABLE FOR WALKING AND WHEELING
MINIMUM WALKWAY WIDTH -1200MM, FOR TWO WAY MODERATE TRAFFIC -1650-1800MM
LONGITUDINAL WALK GRADIENT -30-50MM IN 1 METRE
SPACES FOR BENCHES SEATS ARE PROVIDED, 320-425 HIGH

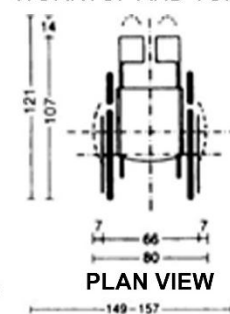
STEPS AND STAIRS-

UNIFORM RISER-150MM AND TREAD -300MM

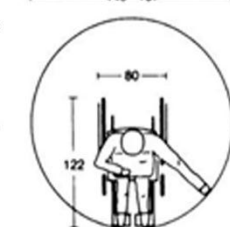
MAXIMUM HEIGHT OF FLIGHT BETWEEN LANDING TO BE 1200MM

KITCHEN-

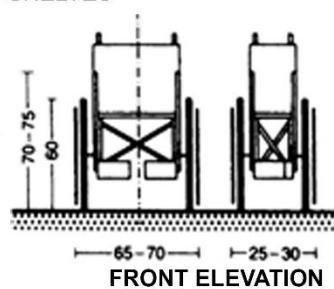
MIN 1500MM OF WIDTH BETWEEN COUNTER AND OPPOSITE WALL
WORK TOPS, SINKS AND COOKING AREA SHOULD BE 780-800MM
MAXIMUM HEIGHT OF SHELVES OVER WORKTOPS IS 1200MM
A MIN. GAP OF 400MM TO BE PROVIDED BETWEEN EDGE OF WORKTOP AND TOP SHELVES



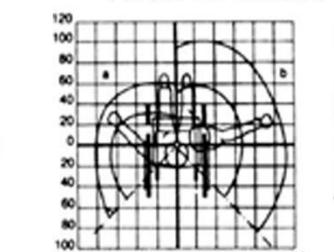
PLAN VIEW



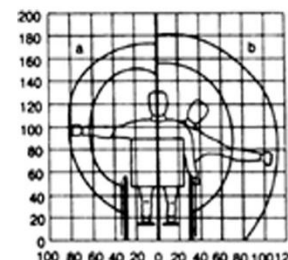
MIN.TURNING CIRCLE
DOOR ACCESS-



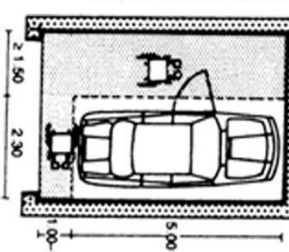
FRONT ELEVATION



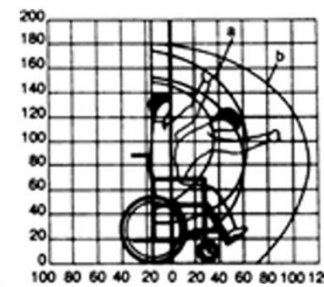
PLAN



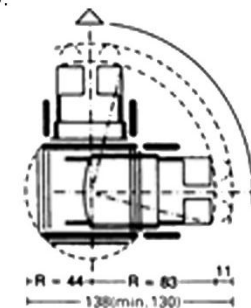
REAR ELEVATION



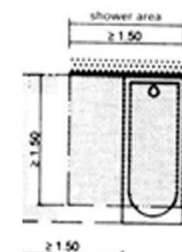
SPACE REQUIREMENT
IN GARAGE



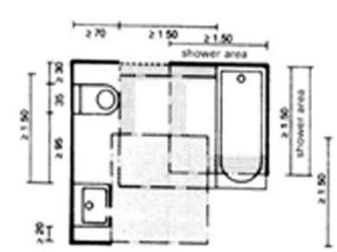
SIDE ELEVATION



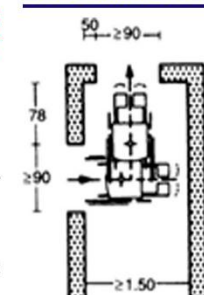
TURNING CIRCLE



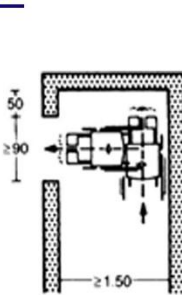
MOVEMENT AREA
SHOWER AND BATH



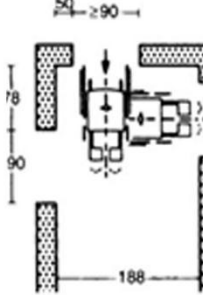
MOVEMENT AREA
BATHROOM



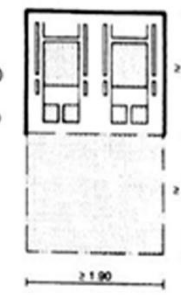
ONE DOOR



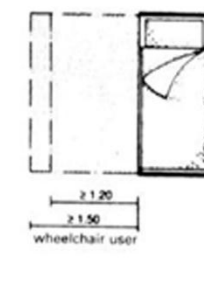
TWO DOOR



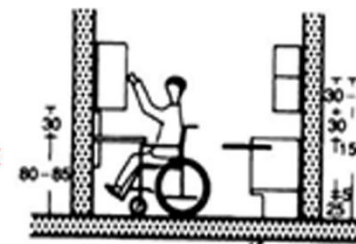
THRE DOOR



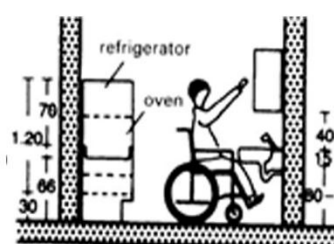
SPACE REQUIREMENT BESIDE A BED FOR
USER & NON-USER OF A WHEELCHAIR



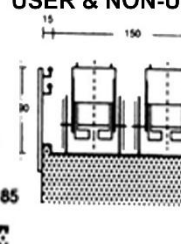
MOVEMENT AREA
BATHROOM



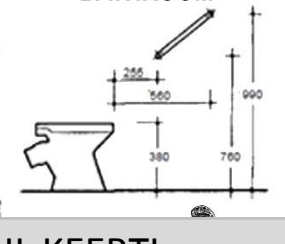
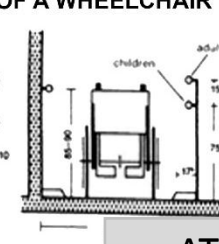
DIMENSION IN KITCHEN



DIMENSION AROUND
SINK, OVEN & FREEZE



HALLS AND PASSAGE



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CONCEPT - INTRODUCTION

INTRODUCTION

1-THE OLD-AGE PEOPLE CAN SPEND THEIR LAST DAYS WITH THE KIDS AS IF THEY ARE SPENDING GOOD TIME WITH THEIR GRAND-CHILDREN.

2-THIS IS ONE OF THE BEST POSSIBLE WAYS TO LESSEN THEIR PAIN BECAUSE THE OLD PEOPLE(MANY OF THEM) OVER THERE ARE VERY MUCH OBSESSED WITH THEIR FAMILY AND THEY ARE CRAVING FOR THEIR LOVE AND COME BACK.

2-THEY COULD EASILY PASS THEIR TIME BY ENGAGING THEMSELVES IN TEACHING THOSE KIDS, HELPING THEM IN DOING HOME-WORK, PACKING THEIR LUNCH BOXES IN THE MORNING, PLAITING THE KIDS, PLAYING WITH THEM RATHER THAN CHIT CHATTING WITH THE FELLOW MATES.

LOCATION

LOCATION:-THIS SITE IS LOCATED IN SECTOR -16,DWARKA,NEW DELHI.

AREA:- 12 ACRES (48562.27 SQM.)

F.A.R:- 1.25

GROUND COVERAGE:- 25%

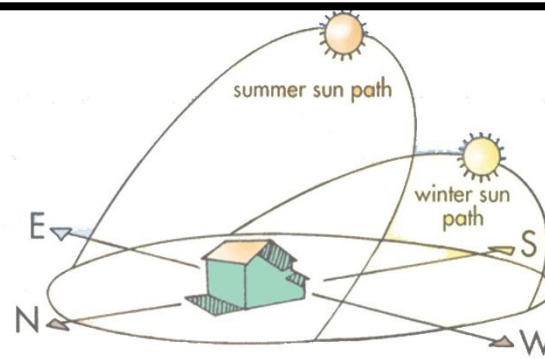
LOCATION

 14.0 KM FROM I.G.I AIRPORT

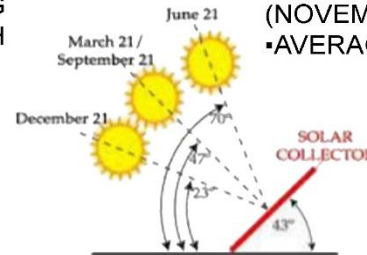
 1.2.0 KM FROM NEW DELHI RAILWAY STATION.

 4.0 KM FROM DWARKA SECTOR 10

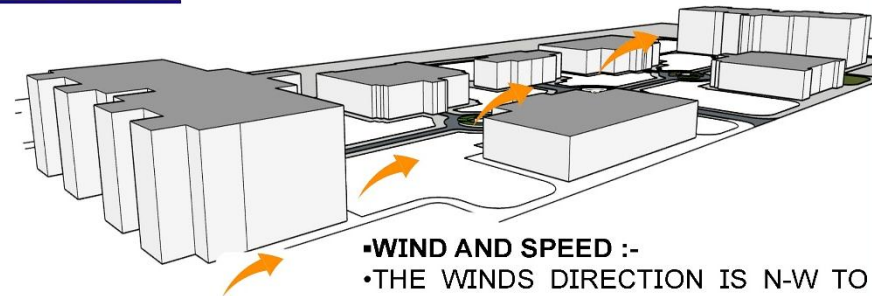
 3.0 KM FROM DTC BUS TERMINAL



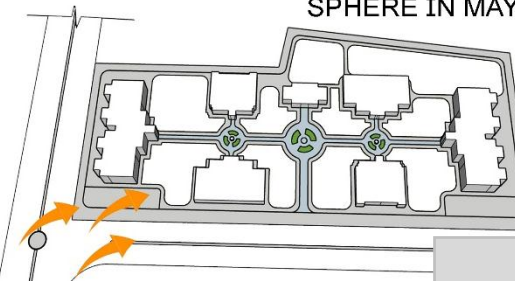
- MAXIMUM :- 230MM. ,AVERAGE RAINFALL FOR 16 DAYS (JULY)
- MINIMUM :- 9MM. ,AVERAGE RAINFALL FOR 1 DAY (NOVEMBER)
- AVERAGE :- 120MM. , RAINFALL FOR (SEPTEMBER)



SUN ANGLE



- WIND AND SPEED :-
- THE WINDS DIRECTION IS N-W TO S-E.
- IN WINTERS COLD & DRY WINDS FROM N-W.
- IN SUMMERS HOT AND DUSTY ATMOSPHERE IN MAY- JUNE.



WIND DIRECTION

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CONCEPT

OLD AGE

- 1- OLD AGE HOME, ALTHOUGH OLD PEOPLE'S HOME CAN ALSO REFER TO A NURSING HOME.
- 2- IT IS A MULTI-RESIDENCE HOUSING FACILITY INTENDED FOR THE ELDERLY. TYPICALLY, EACH PERSON OR COUPLE IN THE HOME HAS AN APARTMENT-STYLE ROOM OR SUITE OF ROOMS. ADDITIONAL FACILITIES ARE PROVIDED WITHIN THE BUILDING. THIS CAN INCLUDE FACILITIES FOR MEALS, GATHERINGS, RECREATION ACTIVITIES, AND SOME FORM OF HEALTH OR HOSPICE CARE.
- 3- A PLACE IN A RETIREMENT HOME CAN BE PAID FOR ON A RENTAL BASIS, LIKE AN APARTMENT, OR CAN BE BOUGHT IN PERPETUITY ON THE SAME BASIS AS A CONDOMINIUM.

ORPHANAGE

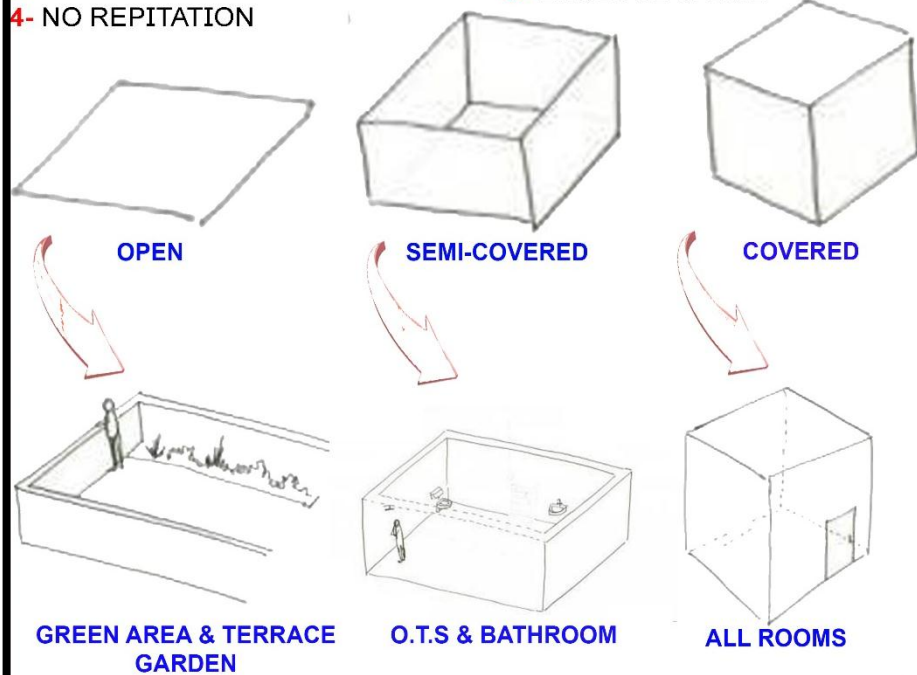
- 1- AN ORPHANAGE IS A PLACE WHERE CHILDREN WHO DO NOT HAVE GUARDIANS WHO ARE CAPABLE OF CARING FOR THEM LIVE.
- 2- SOME ORPHANAGES EMPLOY PROFESSIONALS LIKE NURSES, TEACHERS, AND OTHER PEOPLE INVOLVED IN RAISING CHILDREN IN ORDER TO CARE FOR THE CHILDREN ENTIRELY WITHIN THE ORPHANAGE.

CONCEPT

FORM FOLLOW FUNCTION

- 1- BALANCE PLANNING
- 2- FREE FLOW CIRCULATION
- 3- DIRECT CONNECTIVITY
- 4- NO REPETITION

- 1- DIFFUSED SPACE
- 2- FACTORED SPACE
- 3- ENCLOSE SPACE



PLANNING



RECTANGULAR PLANNING



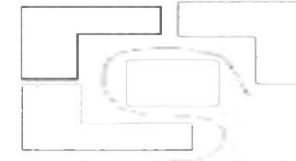
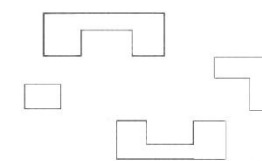
NEEDS OF GRAND OPEN SPACE



NO SHARP EDGE



COURTYARD PLANNING



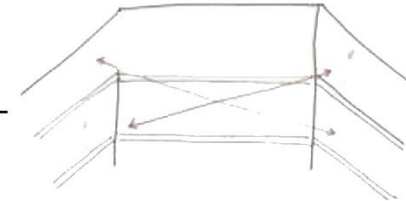
BUILT OPEN SPACES REMOVING OBSTRUCTION

SPACE AND FORM

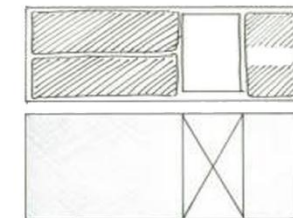
THIS TYPE OF HOUSE HAS A LINEAR FORM BOTH HORIZONTAL- LY AND VERTICALLY.

COURTYARD

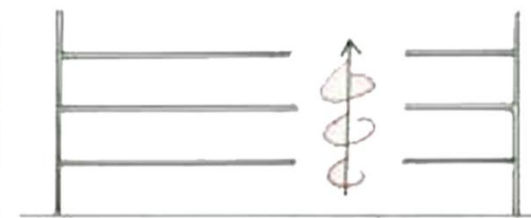
CONTAINED COURTYARD BRINGS NATURAL LIGHT AND VENTI- LATION IN THE HOUSE.



VERTICAL INTERACTION



LIGHT



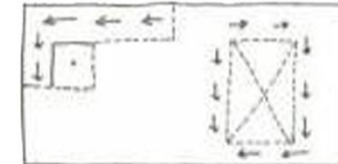
VENTILATION



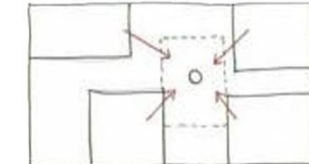
HORIZONTAL INTERACTION



CREATING A GRID FOR SYMMETRICAL BALANCE

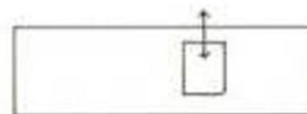


CIRCULATION
STAIRCASE, LIFT AND
COURTYARD IS MAIN ZONE
OF CIRCULATION



FOCUS/FOCAL POINT

FOCUS IS CREAT- ED BY THE COURTYARD SPATIAL- LY HIGH- LIGHTED EVEN MORE BY THE PLACEMENT OF TREE.



CREATE CONSTANT CONNECTION
BETWEEN OUTDOOR AND INDOOR
SPACE



FACADE

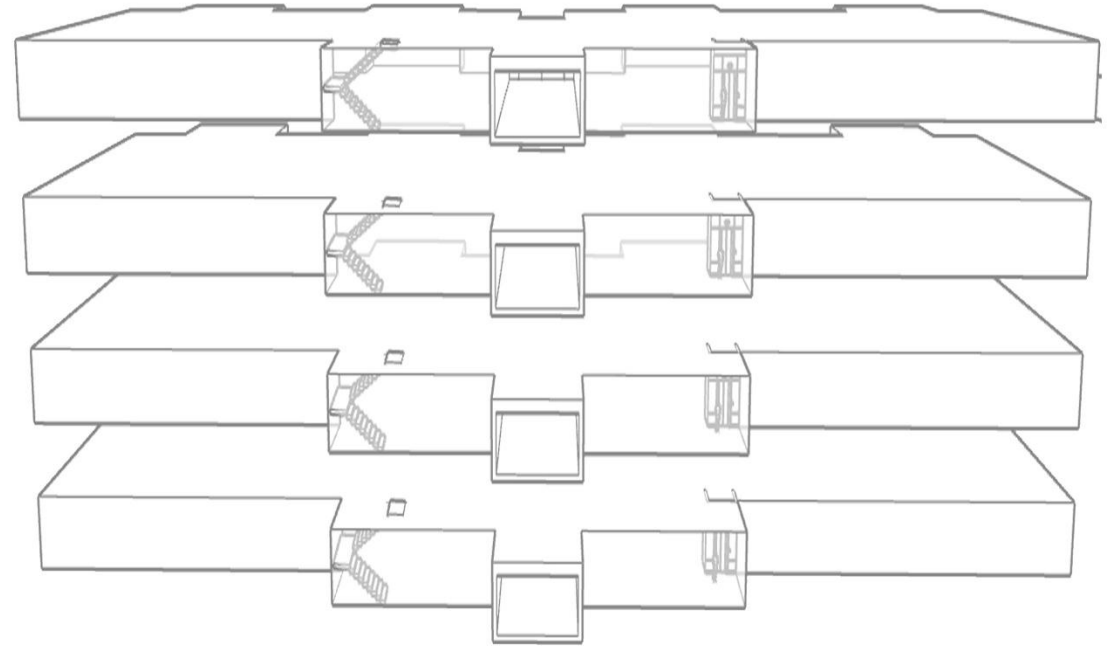
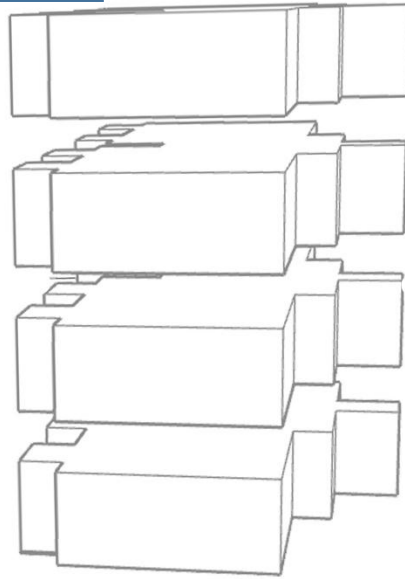
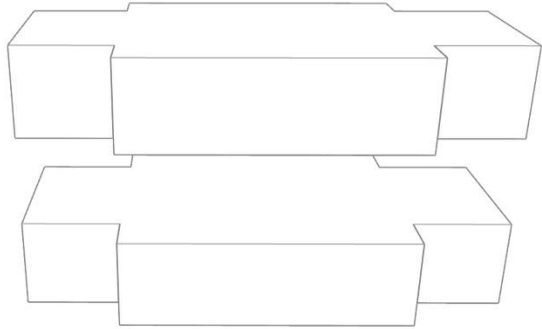
THE FACADE IS A SPA- TIAL JUNCTION BE- TWEEN THE STREET

ATUL KEERTI

1150101022

STACKING

VERTICAL STACKING



HORIZONTAL STACKING

GREEN SPACE

SCHOOL

RESTUARANT

VOCATIONAL
TRAINING

KIDS PLAY
AREA

RESIDENCE FOR
OLD AGE

ADMIN BLOCK

FOYER

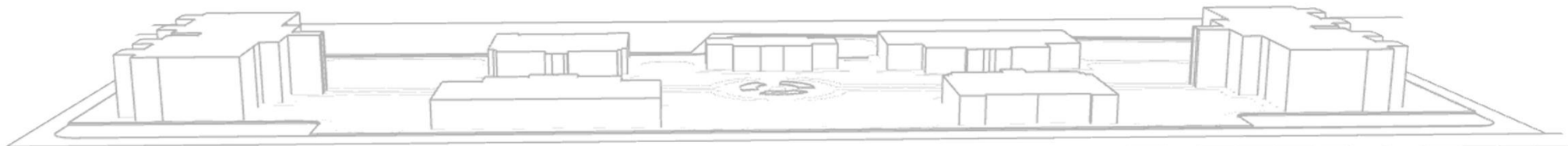
MEDITATION
CENTER

RESIDENCE FOR
ORPHANAGE

PARKING

ENTRY

PARKING



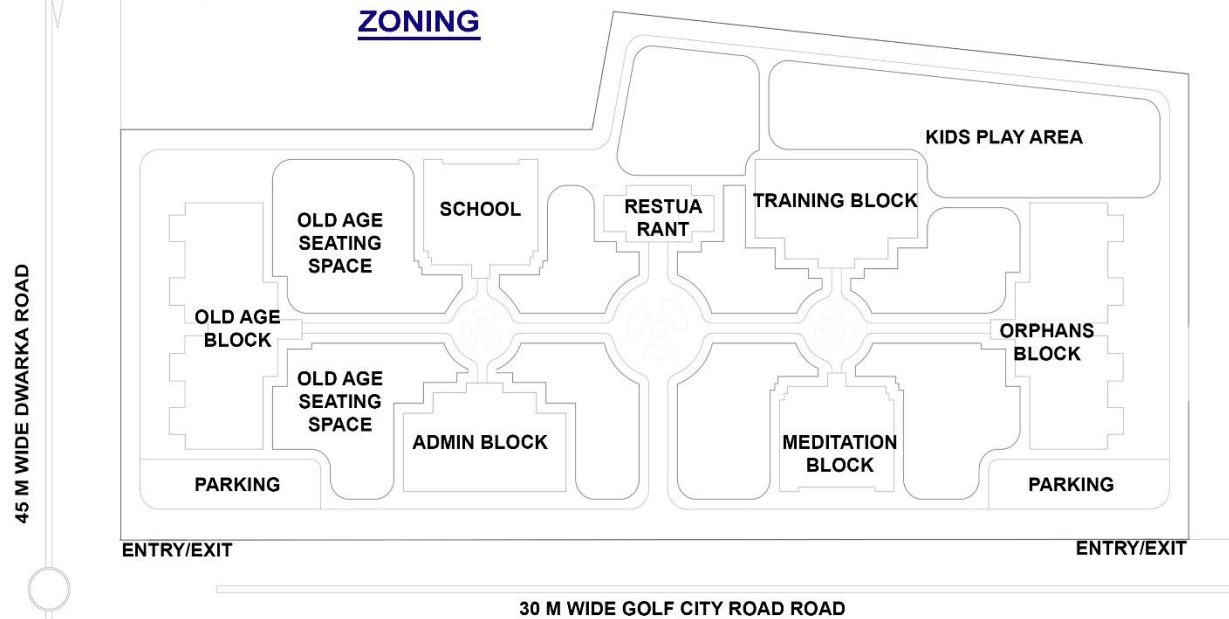
ATUL KEERTI

1150101022

ZONING

SITE IS 20% COVERED BY BUILT STRUCTURE AND 80% OPEN SPACES PROVIDED IN WHICH THERE ARE INTERNAL ROADS AND OTHER SITE CIRCULATION, SURFACE PARKING AND OTHER OPEN GREEN AREAS.

ZONING



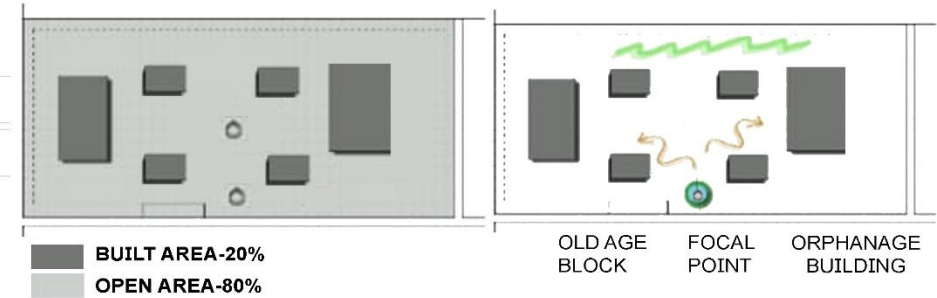
BUILDING PLACEMENT



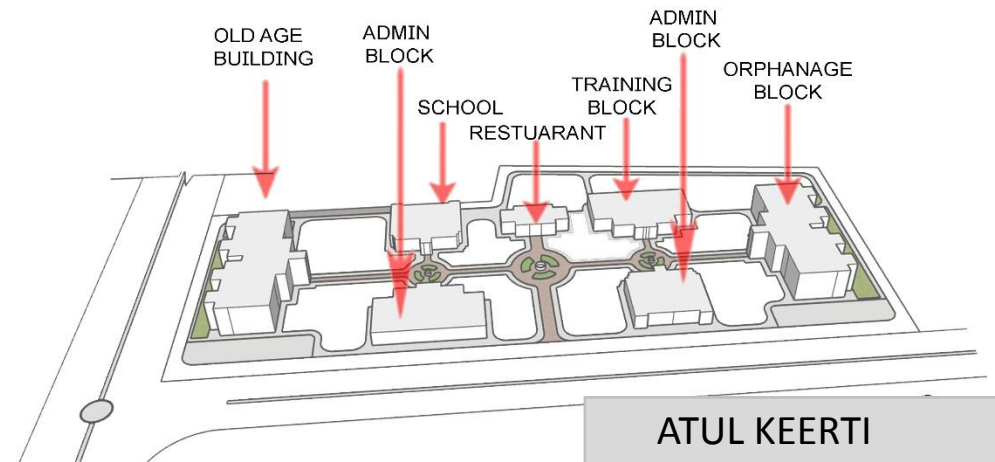
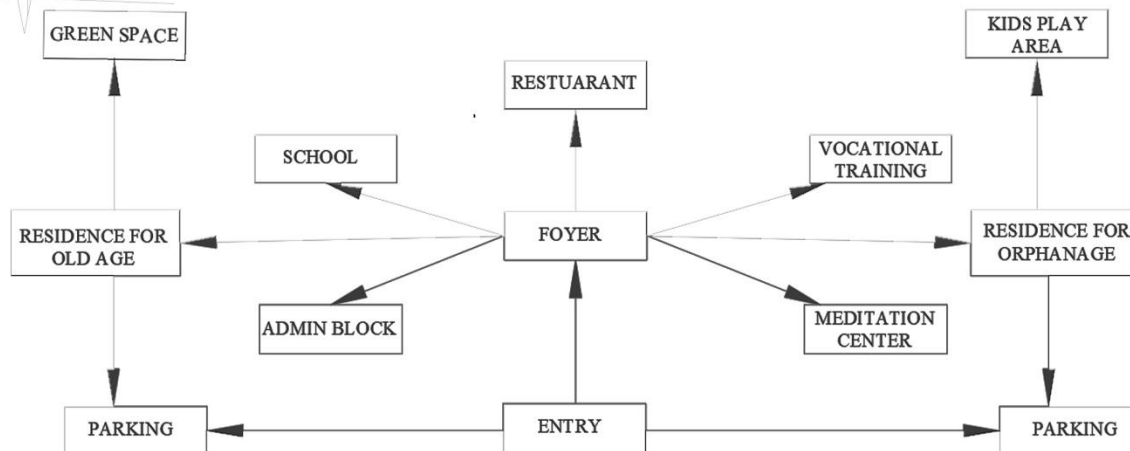
SILENT ZONE :-
SILENT ZONE LIKE OLD AGE HOME, AND ALL THE ACTIVITY AREAS.

SEMI SILENT ZONE:-
SEMI SILENT ZONE LIKE ADMINISTRATIVE BLOCK, INSTITUTIONAL BUILDING.

NOISE ZONE
NOISE ZONE LIKE ORPHANAGE BLOCK, PLAY GROUND.



CONNECTIVITY



ATUL KEERTI
1150101022

AREA ANALYSIS

AREA ANALYSIS OF OLD AGE CUM ORPHANAGE HOME

PROGRAMS	STANDARDS	FINAL AREA
RECEPTION	2 M2 /PERSON	20
WAITING AREA	0.9 M2 /PERSON	48
CLERICKAL STAFF OFFICE	6 M2 /PERSON	48
ACCOUNT OFFICE	6 M2/PERSON	48
MEETING ROOM	1.5 M2/PERSON	(30 PERSON) 48
TOILET		
CIRCULATION		
TOTAL		

RECEPTION	2 M2/PERSON	10
SECURITY	—	24
WARDENS/STAFF	10 M2/PERSON	400
DORMITORIES(6 BEDDED)	(8 M2/PERSON)48	(10 N.)480
ROOM (2 PERSON)	25	20 N.(500)
ROOM (4 PERSON)	50	20 N. (1000)
GUEST ROOM/VISITORS ROOM	25 M2 EACH	(10 N.) 250
LOUNDRY	120	120
TOILET		
CIRCULATION		
TOTAL		

RECEPTION AND WAITING	2 M2 /PERSON	24
DOCTOR'S ROOM	20	(2 N.) 40
MEDICAL EXAMINATION ROOM	30	30
WARD	12 M2/PATIENT	120
PHYSIOTHERAPY ROOM	48	48
TOILET		
CIRCULATION		
TOTAL		

RECEPTION AND COUNTER	2 M2/PERSON	30
DINNING HALL	1.4 M2 / PERSON	1000
KITCHEN	300	300
STORAGE	48	48
KITCHEN YARD	60	60
WASHROOM	60	60
TOILET		
CIRCULATION		
TOTAL		

RECEPTION	2 M2/PERSON	10
READING ROOM	1.5 M2/PERSON	300.00
BOOK STORE	5000 BOOKS	60
COMPUTER AND E-CORNER	2.5M2/PERSON	(20 N.) 50
AUDIO AND VIDEO VISIABLE ROOM	60	60
CIRCULATION		
TOTAL		

COMPUTER LAB	2.5M2/PERSON	(60 N.) 150
LANGUAGE ROOM	1.5 M2/PERSON	(20 N.) 30
PERSNALITY DEVLOPMENT	0.75 M2/PERSON	30
ELECTRONICS AND ELECTRICAL WORKS	200	200
POTTERY WORKSHOP	200	200
WOODEN WORKSHOP	200	200
CRAFT MAKING	200	200
MULTIPURPOSE HALL	1.5 M2/PERSON	(120 N.) 200
STORE	4 N. EACH 30 M2	120
STAFF ROOM	10 M2/ STAFF	40
EXHIBITION AREA	120	120
TOILET		
CIRCULATION		

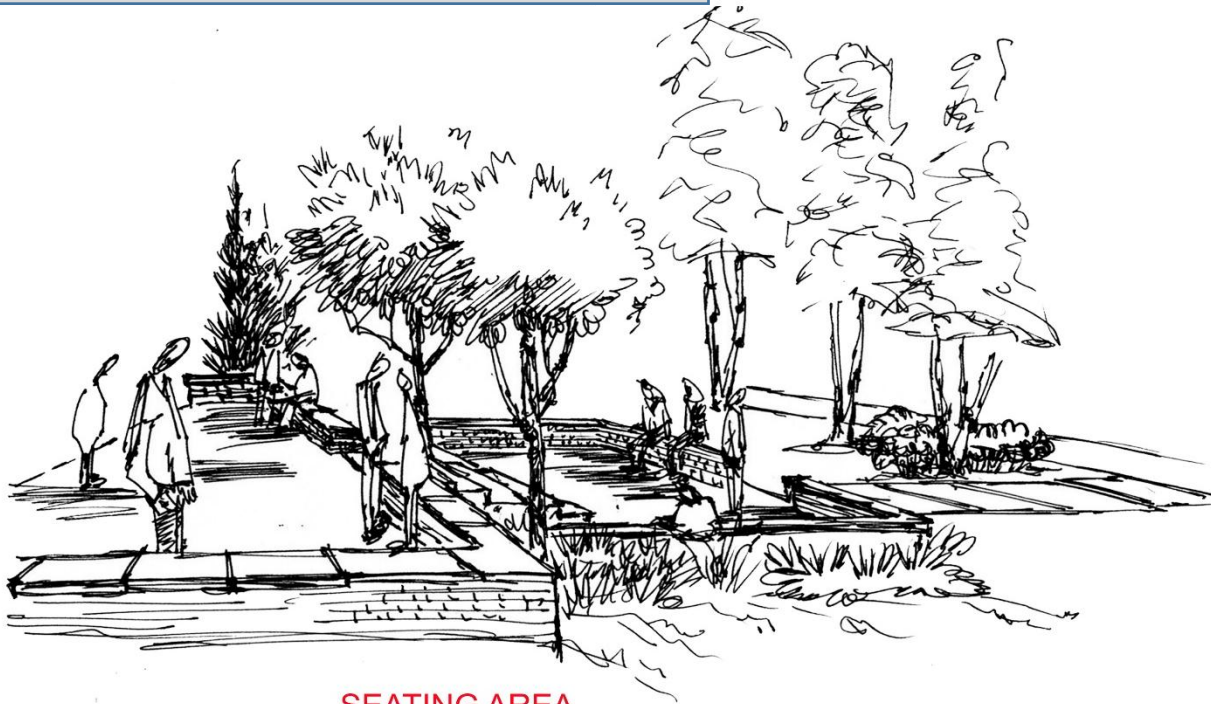
INDOOR GAMES	—	600
OUTDOOR GAMES	—	—
GYMNASIUM	—	—
COMMON ROOM	1 M2/ PERSON	(2 N.)120
MEDITATION AREA	1.8 M2/PERSON	(120 N.) 220
YOGA HALL	5 M2/PERSON	(120 N.) 600
T.V. LOUNGE	1.5 M2/PERSON	(150 N.) 230
PRAYER HALL	0.75 M2/PERSON	(150 N.) 120
WASHROOM		
MULTIPURPOSE HALL	1.5 M2/PERSON	(260 N.) 400
CIRCULATION AREA		
TOTAL		

SHOPS	30	(6 N.)180
RESTURANT	1.8 M2/PERSON	(150 N.)200
TOILETS		
CIRCULATION		
TOTAL		

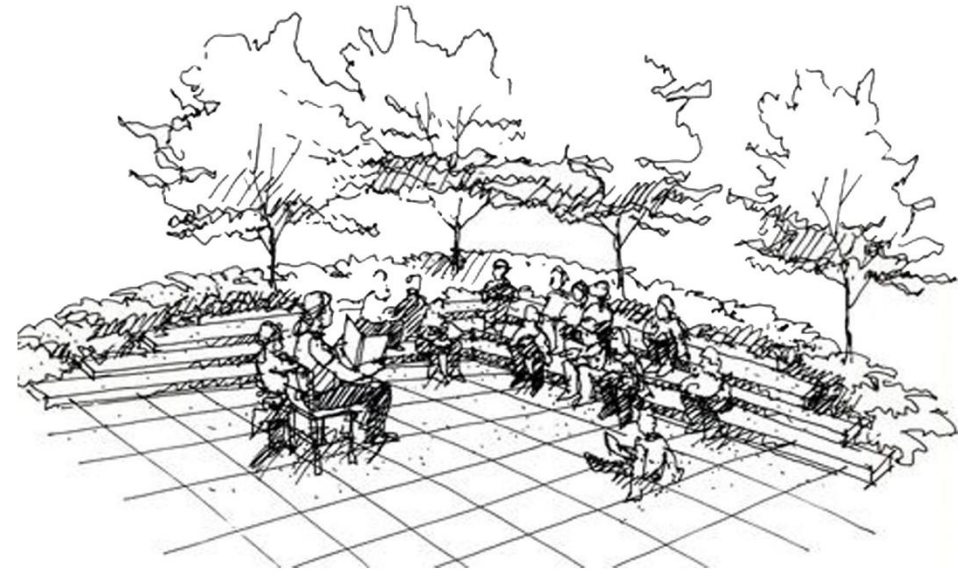
RECEPTION AND WAITING	0.9 M2/PERSON	40
CLASSROOMS	(40 STUDENTS)60	(4 N.)240
LABS	54M2	(4 N.)240
DIRECTOR'S ROOM	20 M2	20 M2
PRINCIPLE'S ROOM	20 M2	20 M2
OFFICE	—	24
FACULTY ROOM	6 M2/ STAFF	180
LIBRARY	112	120
SEMINOR HALL	1.4 M2/STUDENT	(120 N.)160
EXAMINATION CONTROL ROOM	—	30
DANCE CLASSROOM	2 M2/STUDENT	(40 N.) 80
MUSIC CLASSROOM	2 M2/STUDENT	(40 N.) 80
COMMON ROOM	1 M2 / STUDENT	(2 N.)80
STAFF MEATING ROOM	1.5 M2 /STAFF	(40 N.) 60
STORE	—	(2 N.) 60
TOILET		
CIRCULATION		
TOTAL		

ATUL KEERTI

1150101022



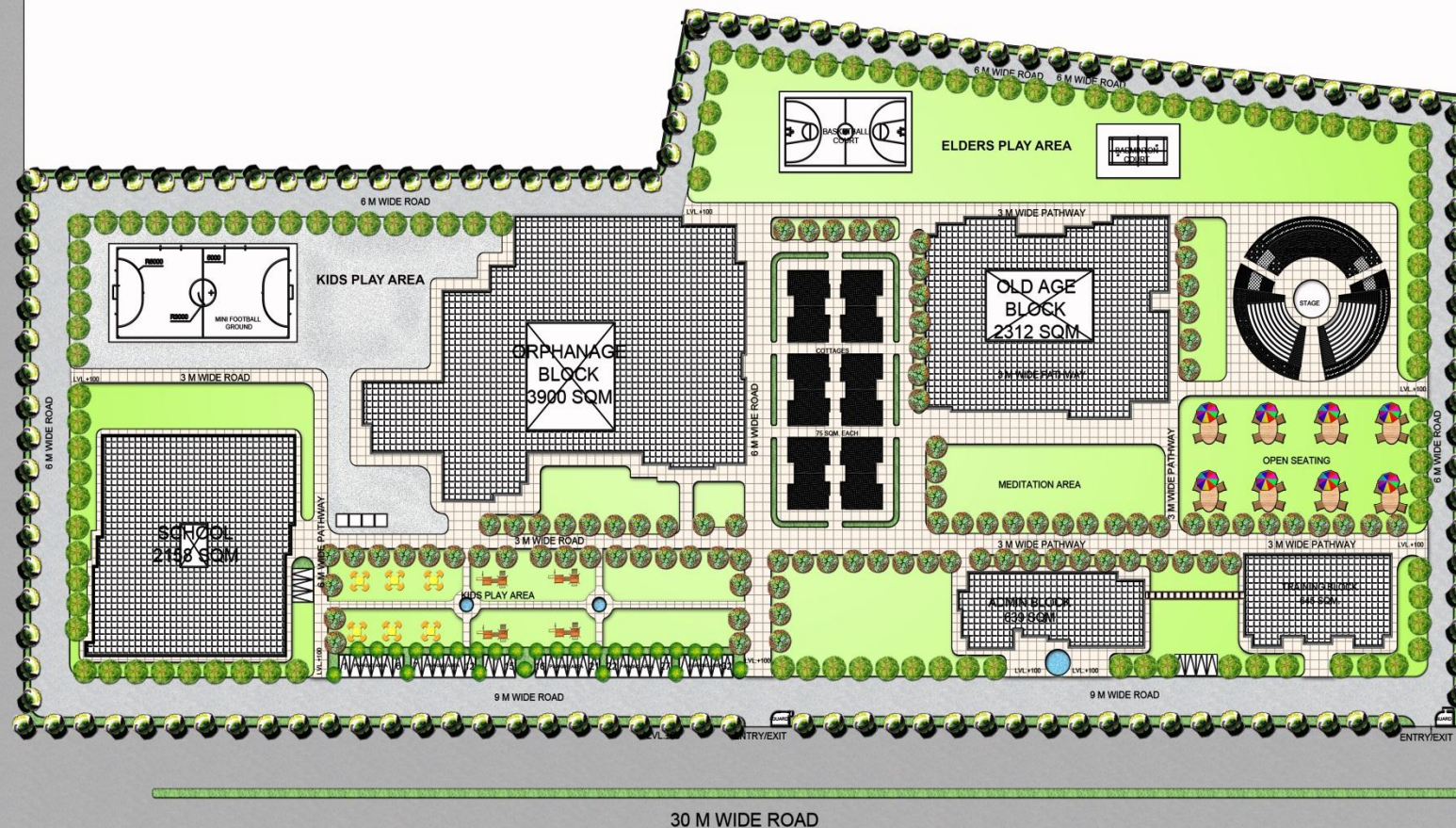
SEATING AREA



OPEN SPACE FOR STUDY



PRODUCED BY AN ALP-2K STUDENT VERSION



OLD AGE CUM ORPHANAGE

SITE LOCATION :

NEW DELHI

COLLEGE :

B.B.D.U

ALL DIMENSIONS ARE IN MILLIMETERS
SCALE 1:15000

NAME :

ATUL KERRY

ROLL NO. :

1100101022

ACADEMIC :

BRANCH (A/R) 6TH YR

GUIDE BY :

PROF. ABHINAV AGARWAL
A/R. RAMAKANT



SITE PLAN



OLD AGE BLOCK



GROUND FLOOR PLAN

OLD AGE CUM ORPHANAGE

SITE LOCATION :

NEW DELHI

COLLEGE :

B.B.D.U

ALL DIMENSIONS ARE IN MILLIMETERS
SCALE 1:3000

NAME :
ATUL KEERTI

ROLL NO. :
1150101022

ACADEMIC :
BARCH (AR) 5TH YR

GUIDE BY :
PROF. MOHIT AGARWAL
AR, RAMAKANT



PRODUCED BY AN AUTOGRAPH STUDENT VERSION



POSTER PRESENTATIONS

1561

OLD AGE BLOCK



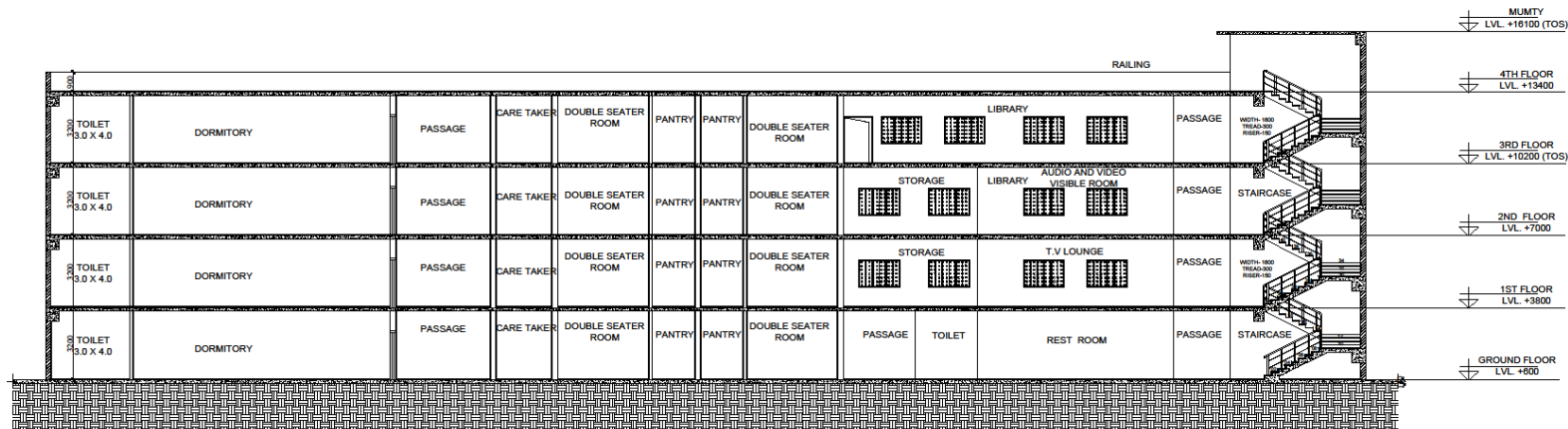
2ND TO 3RD TYPICAL FLOOR PLAN

OLD AGE CUM ORPHANAGE

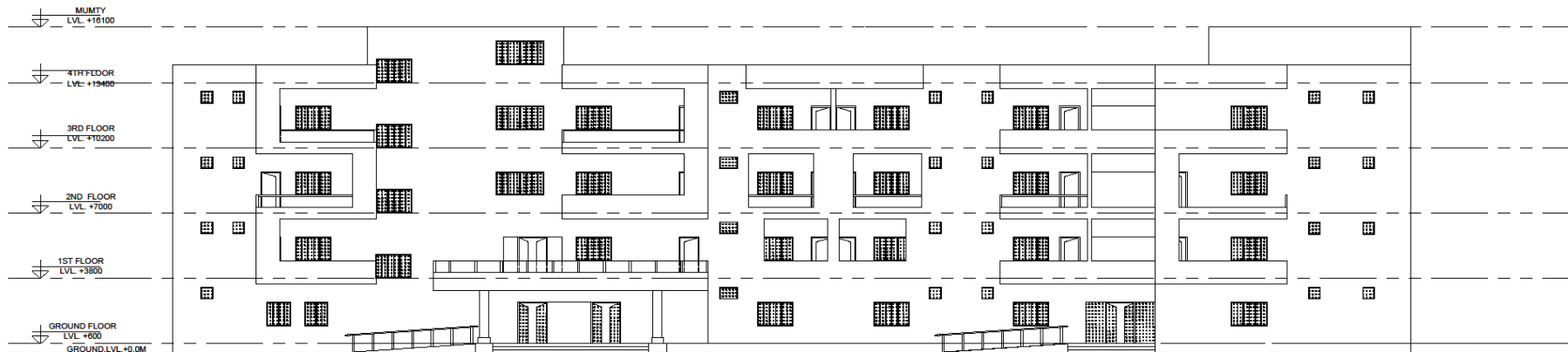
SITE LOCATION :
NEW DELHI
COLLEGE :
B.B.D.U
ALL DIMENSIONS ARE IN MILLIMETERS
SCALE 1:3000

NAME :
ATUL KEERTI
ROLL NO. :
1150101022
ACADEMIC :
I.BARCH (AR) 5TH YR
GUIDE BY :
PROF. MOHIT AGARWAL
AR. RAMAKANT





SECTION - AA'



FRONT ELEVATION

OLD AGE CUM ORPHANAGE

SITE LOCATION :

NEW DELHI

COLLEGE :

B.B.D.U

ALL DIMENSIONS ARE IN MILLIMETERS
SCALE 1:15000

NAME :
ATUL KEERTI

ROLL NO. :
1150101022

ACADEMIC :
I.B.A.R.C. (AR) 5TH YR

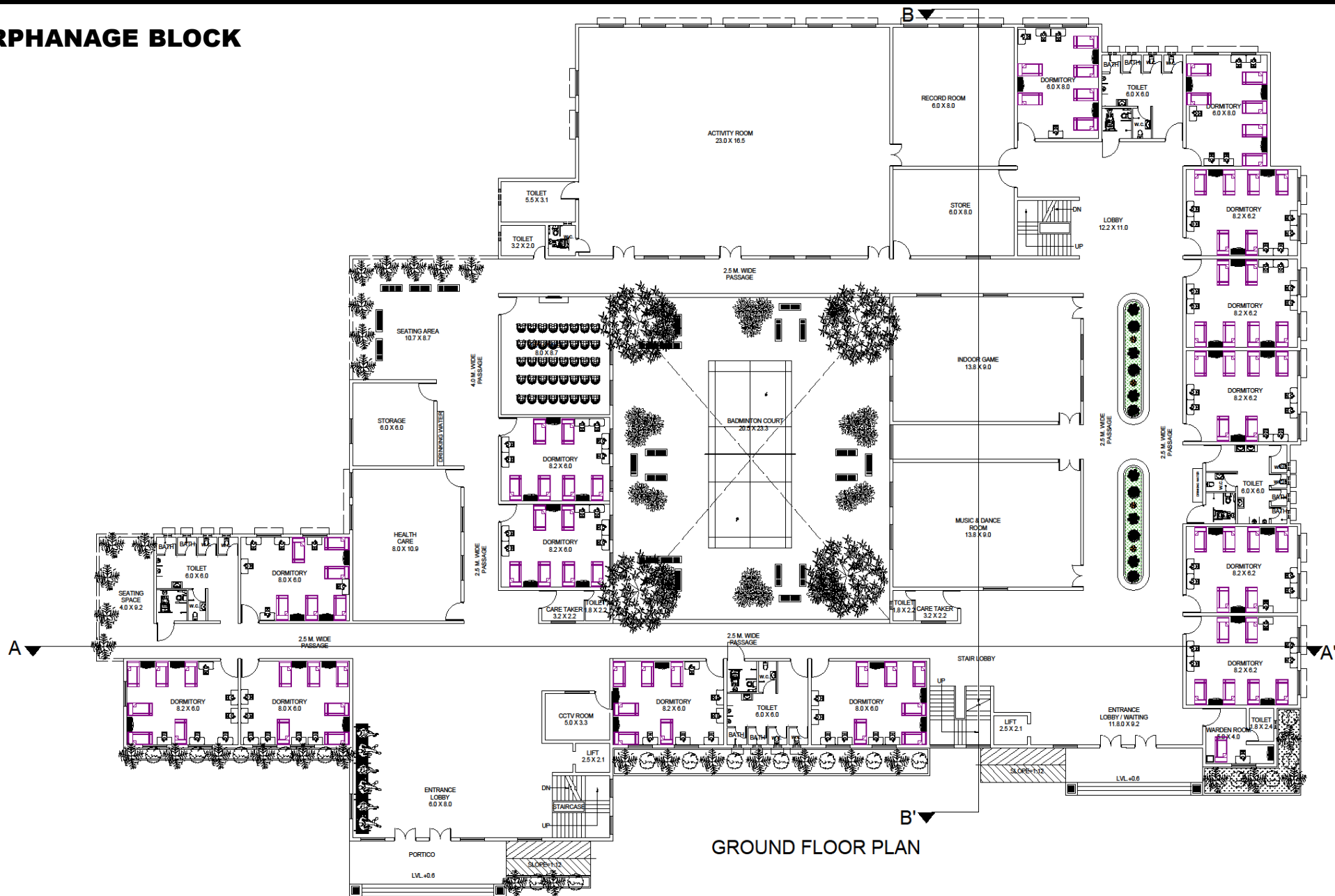
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PROF. MOHIT AGARWAL
AR, RAMAKANT



OLD AGE BLOCK



ORPHANAGE BLOCK



OLD AGE CUM ORPHANAGE

SITE LOCATION :
NEW DELHI
 COLLEGE :
B.B.D.U
 ALL DIMENSIONS ARE IN METERS
 SCALE 1:3500

NAME :
ATUL KEERTI
 ROLL NO. :
1150101022
 ACADEMIC :
BARCH (AR) 5TH YR
 GUIDE BY :
PROF. MOHIT AGARWAL
AR. RAMAKANT



ORPHANAGE BLOCK



FIRST FLOOR PLAN

OLD AGE CUM ORPHANAGE

SITE LOCATION :

NEW DELHI

COLLEGE :

B.B.D.U

ALL DIMENSIONS ARE IN METERS
SCALE 1:3500

NAME :
ATUL KEERTI

ROLL NO. :
1150101022

ACADEMIC :
BARCH (AR) 5TH YR

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AR. RAMAKANT



ORPHANAGE BLOCK



SECOND TO THIRD TYPICAL
FLOOR PLAN

OLD AGE CUM ORPHANAGE

SITE LOCATION :

NEW DELHI

COLLEGE :

B.B.D.U

ALL DIMENSIONS ARE IN MILLIMETERS
SCALE 1:3500

NAME :
ATUL KEERTI

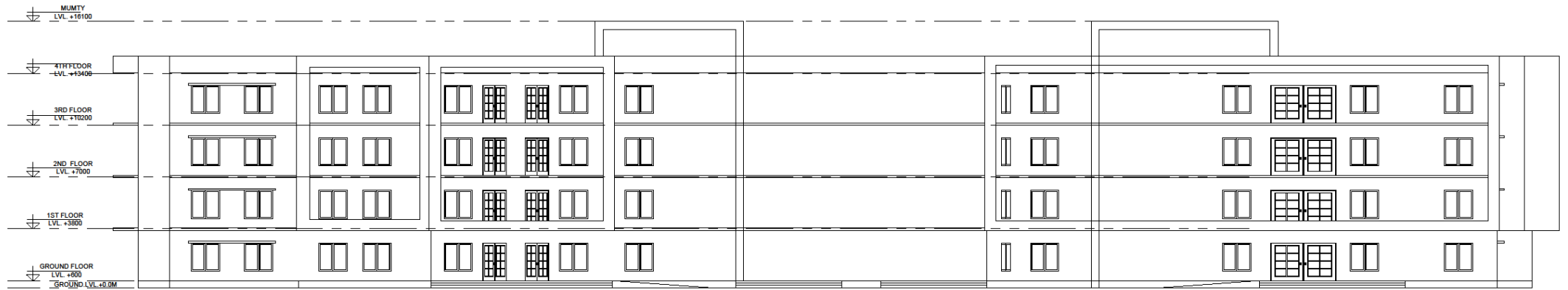
ROLL NO. :
1150101022

ACADEMIC :
BARCH (AR) 5TH YR

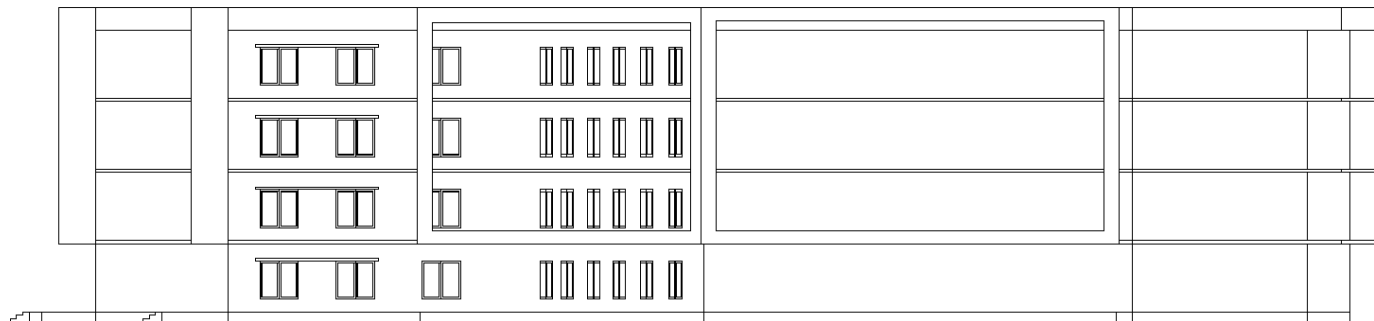
GUIDE BY :
PROF. MOHIT AGARWAL
AIR. RAMAKANT



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FRONT ELEVATION



SIDE ELEVATION

OLD AGE CUM ORPHANAGE

SITE LOCATION :
NEW DELHI
COLLEGE :
B.B.D.U

ALL DIMENSIONS ARE IN MILLIMETERS
SCALE 1:3000

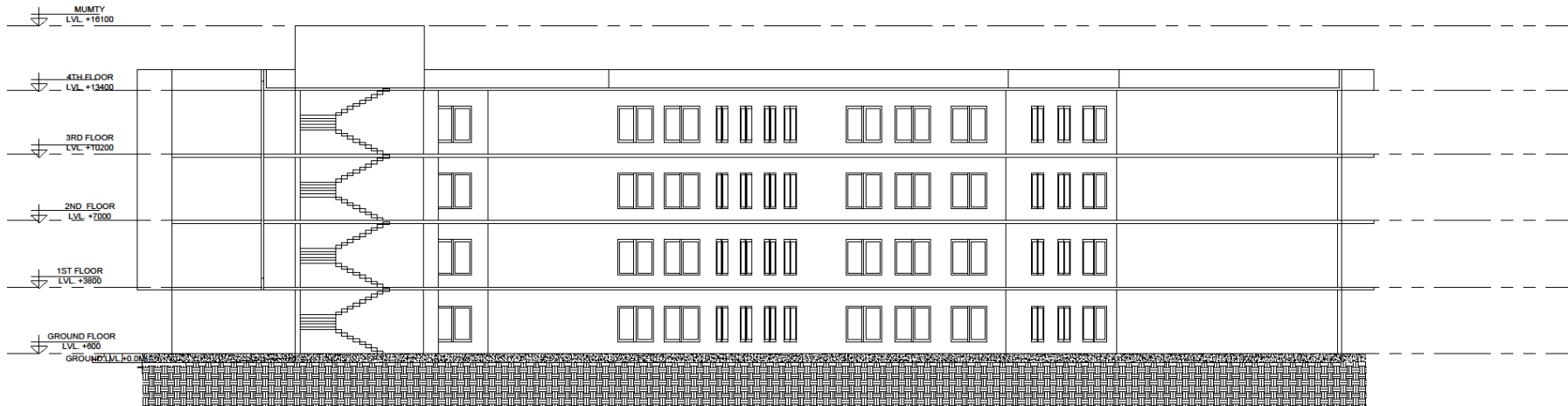
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ATUL KEERTI

ROLL NO. :
1150101022

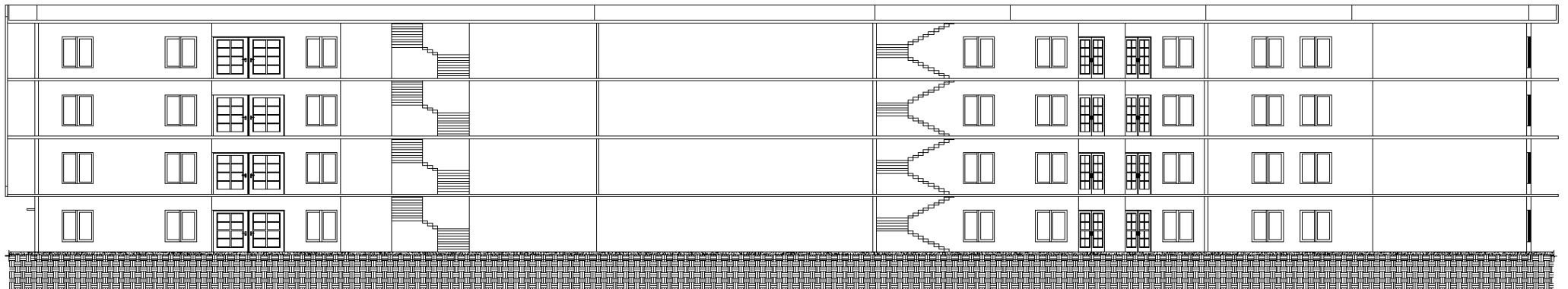
ACADEMIC :
IIARCH (AR) 5TH YR

GUIDE BY :
**PROF. MOHIT AGARWAL
AR, RAMAKANT**





SECTION-BB'



SECTION AA'

OLD AGE CUM ORPHANAGE

SITE LOCATION :
NEW DELHI
COLLEGE :
B.B.D.U

ALL DIMENSIONS ARE IN MILLIMETERS
SCALE 1:3000

NAME :
ATUL KEERTI

ROLL NO. :
1150101022

ACADEMIC :
IIARCH (AR) 5TH YR

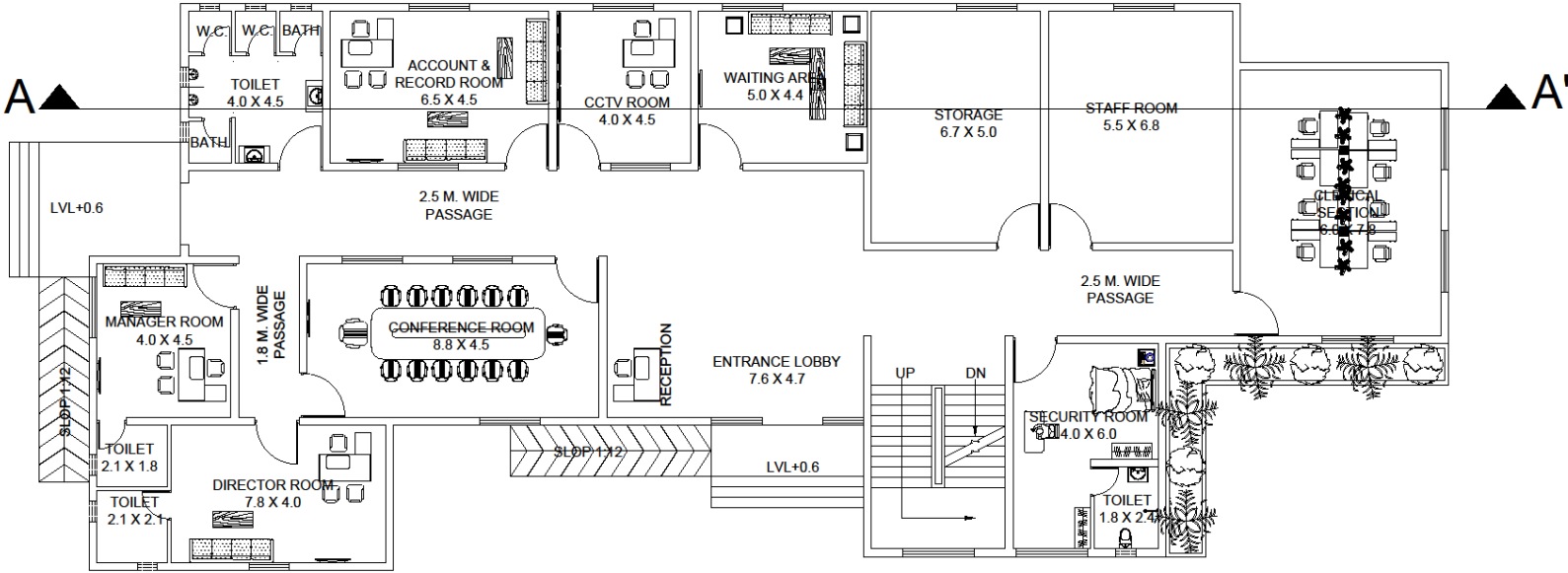
GUIDE BY :
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AR, RAMAKANT**



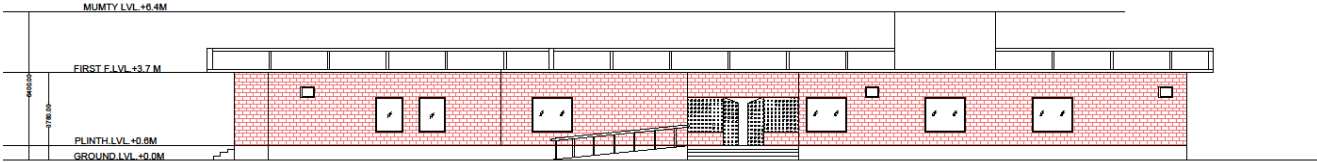
ORPHANAGE BLOCK



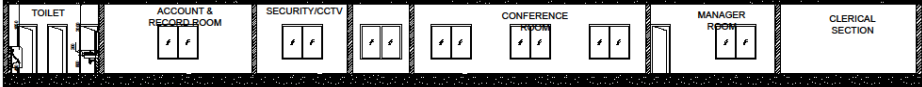
ADMIN BLOCK



PLAN

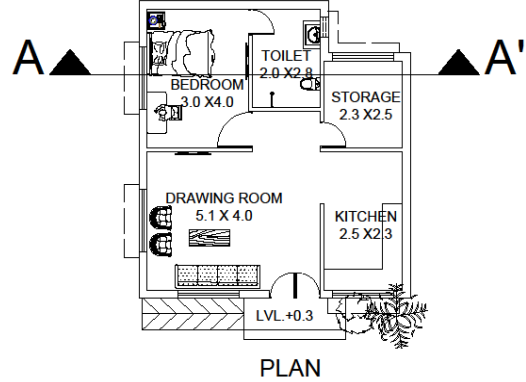


ELEVATION



SECTION-AA'

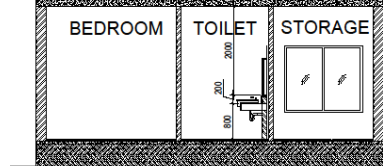
COTTAGE



PLAN



ELEVATION



SECTION-XX'

OLD AGE CUM ORPHANAGE

SITE LOCATION :
NEW DELHI
COLLEGE :
B.B.D.U

ALL DIMENSIONS ARE IN METERS
SCALE 1:3000

NAME :
ATUL KEERTI
ROLL NO. :
1150101022
ACADEMIC :
BARCH (AR) 5TH YR
GUIDE BY :
PROF. MOHIT AGARWAL
AR. RAMAKANT



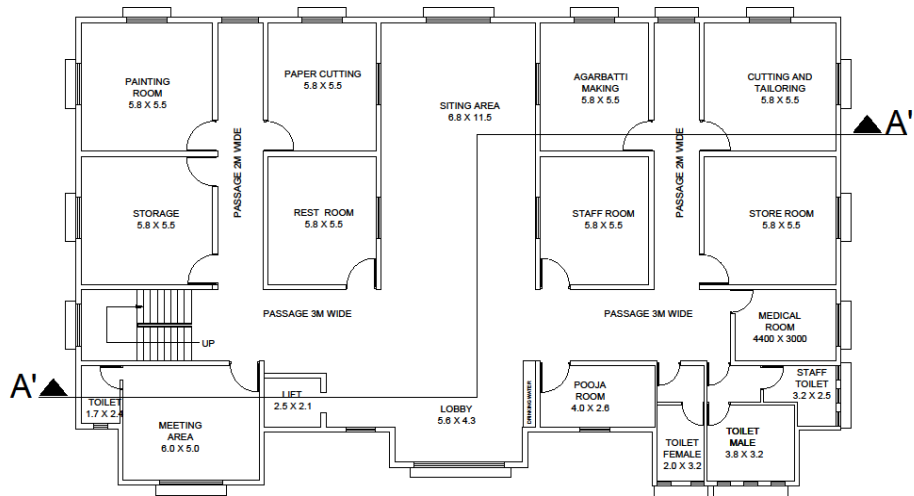
ADMIN BLOCK



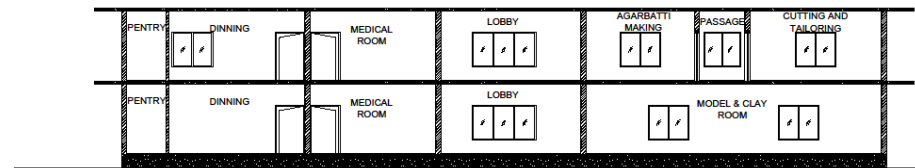
COTTAGE



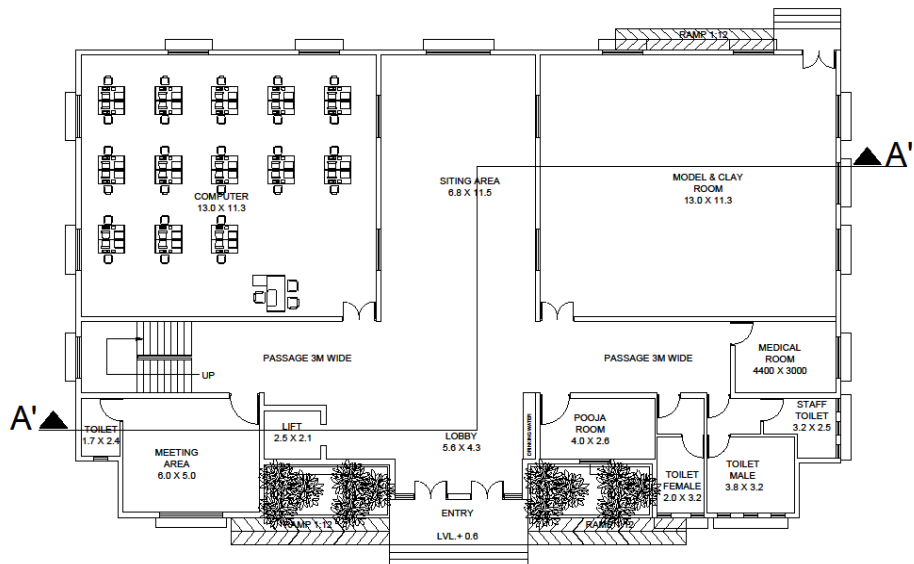
TRAINING BLOCK



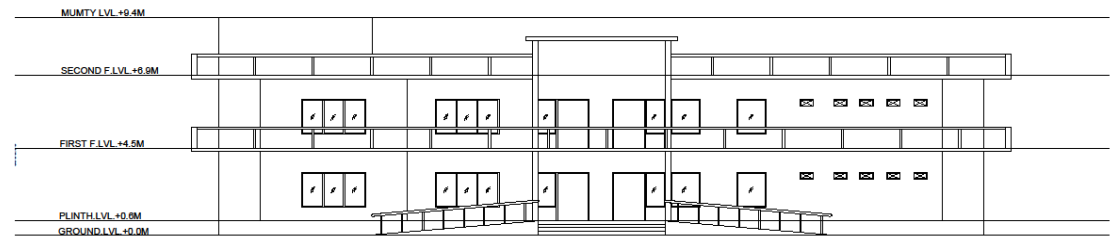
1st FLOOR



SECTION-XX'



GROUND FLOOR



ELEVATION

OLD AGE CUM ORPHANAGE

SITE LOCATION :
NEW DELHI
COLLEGE :
B.B.D.U

ALL DIMENSIONS ARE IN METRE/FEET
SCALE 1:3000

NAME :
ATUL KEERTI

ROLL NO. :
1150101022

ACADEMIC :
BARCH (AR) 5TH YR

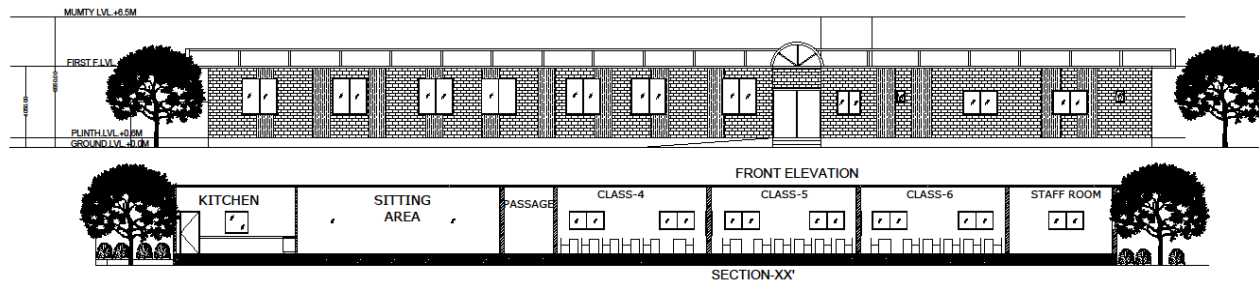
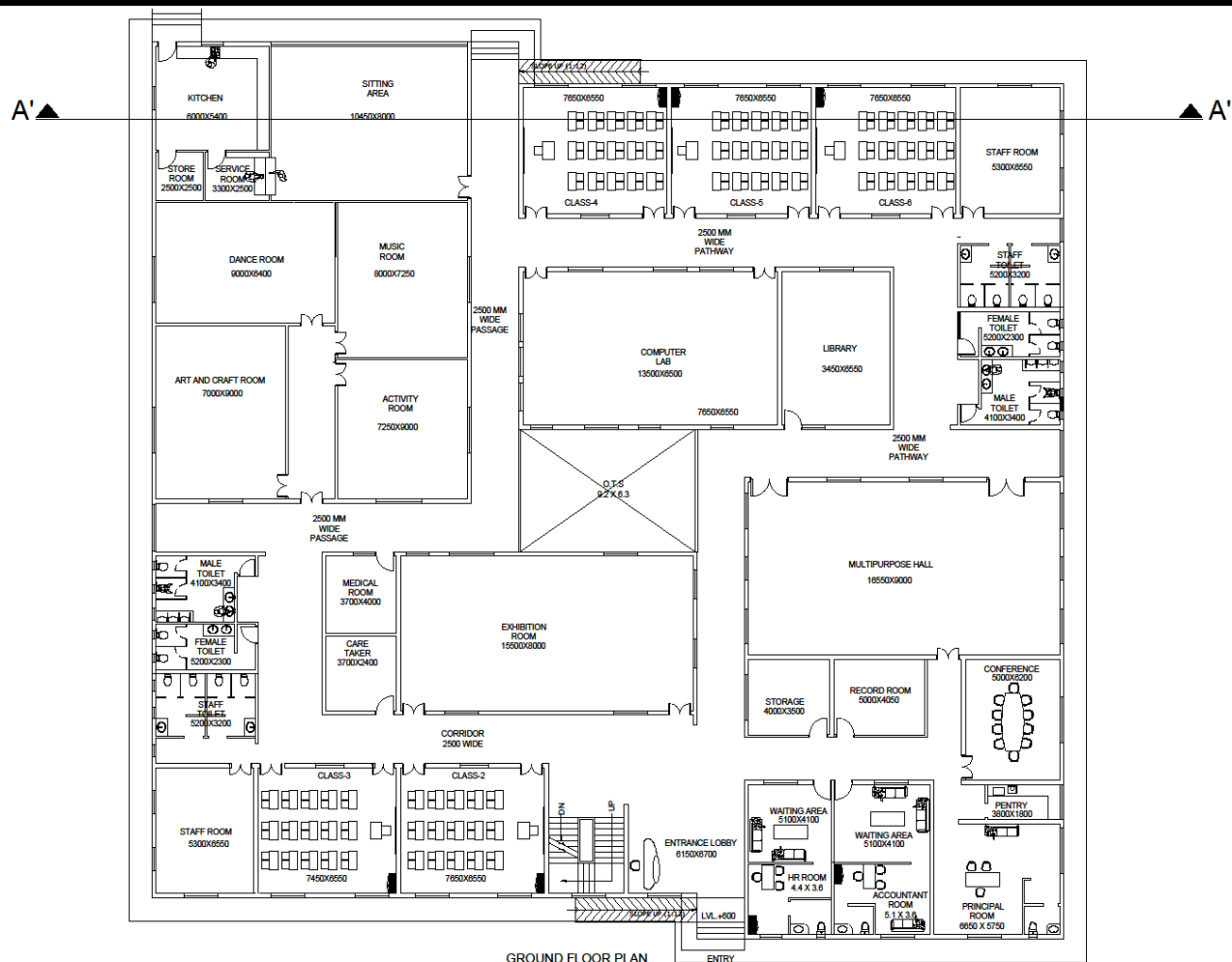
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AR. RAMAKANT



TRAINING BLOCK



SCHOOL



OLD AGE CUM ORPHANAGE

SITE LOCATION :
NEW DELHI
COLLEGE :
B.B.D.U

ALL DIMENSIONS ARE IN MILLIMETERS
SCALE 1:3000

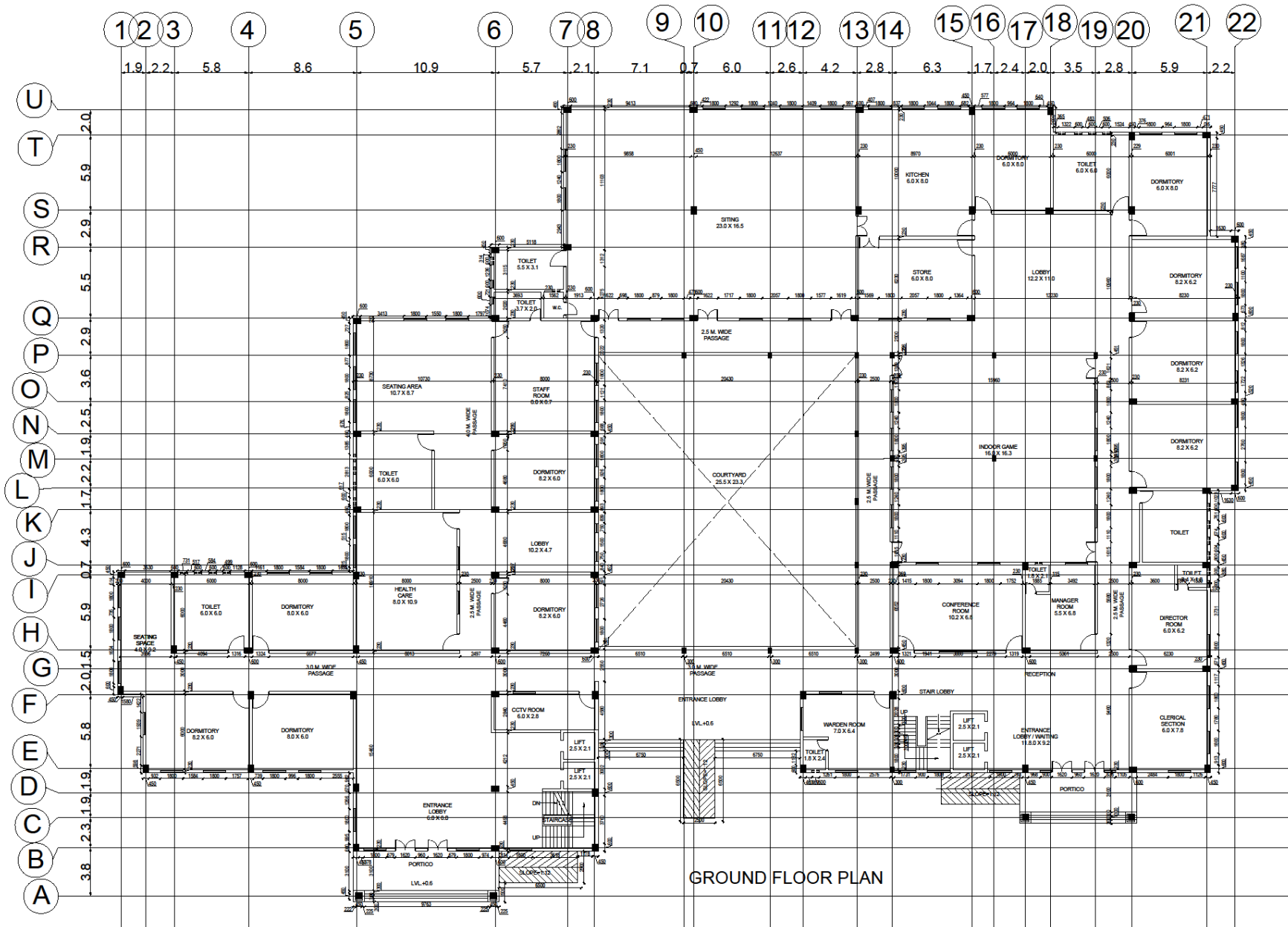
NAME :
ATUL KEERTI

ROLL NO. :
1150101022

ACADEMIC :
BARCH (AR) 5TH YR

GUIDE BY :
PROF. MOHIT AGARWAL
AR, RAMAKANT





OLD AGE CUM ORPHANAGE

SITE LOCATION :

NEW DELHI

COLLEGE :

B.B.D.U

ALL DIMENSIONS ARE IN MILLIMETERS
SCALE 1:3000

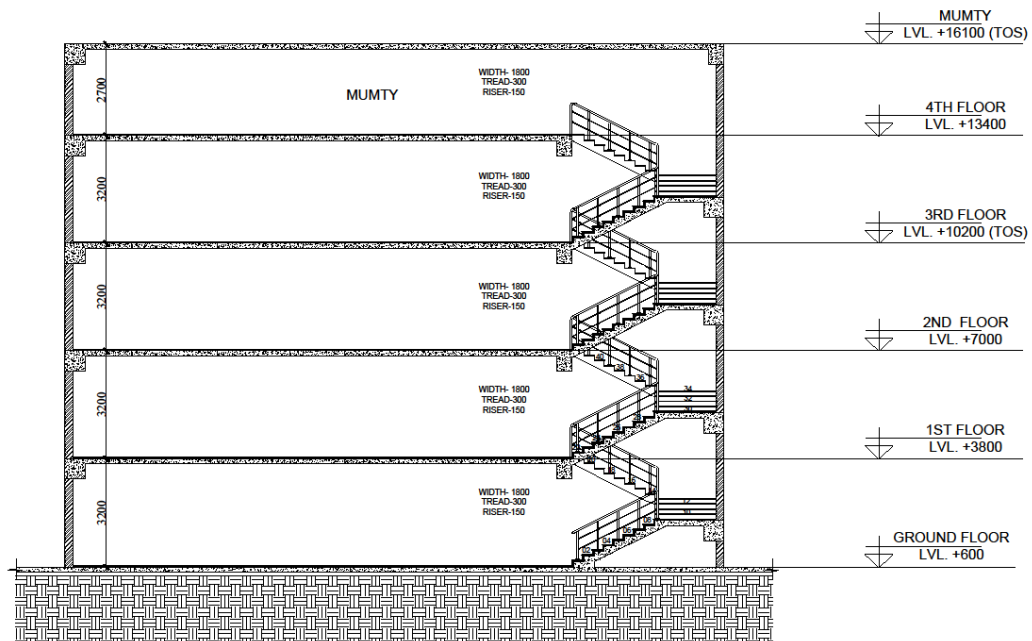
NAME :
ATUL KEERTI

ROLL NO. :
1150101022

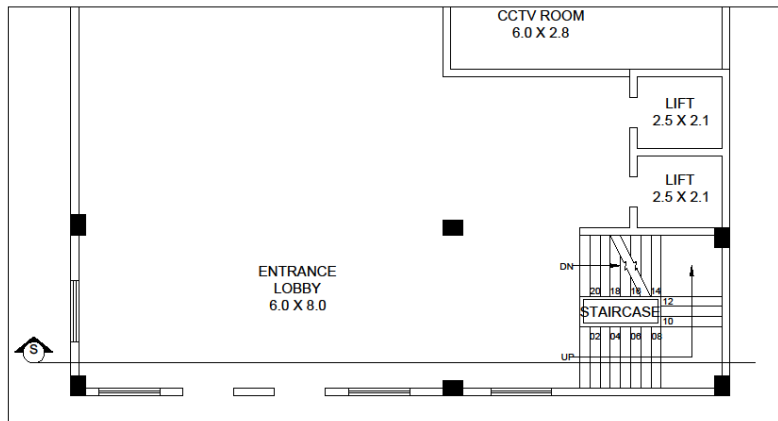
ACADEMIC :
BLARCH (AR) 5TH YR

GUIDE BY :
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AR. RAMAKANT

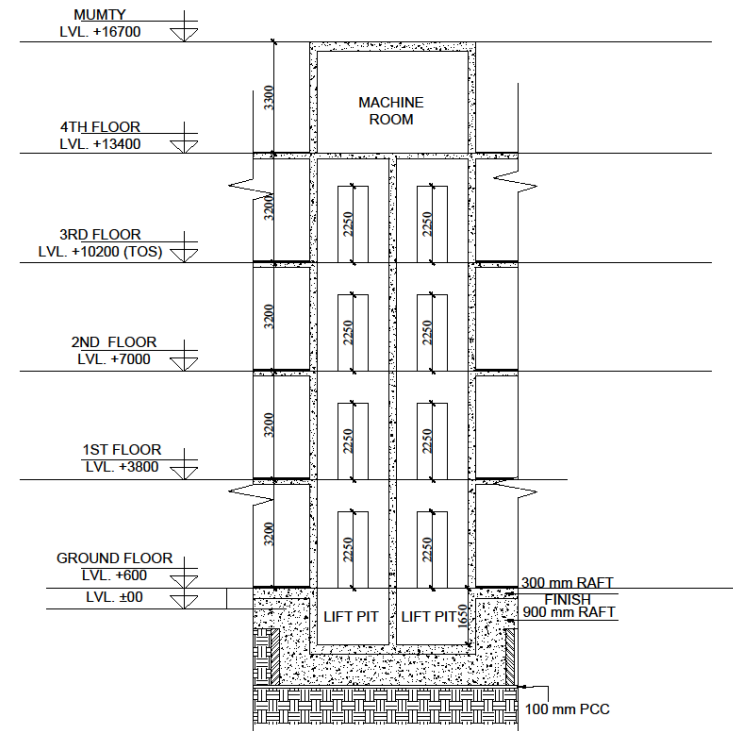




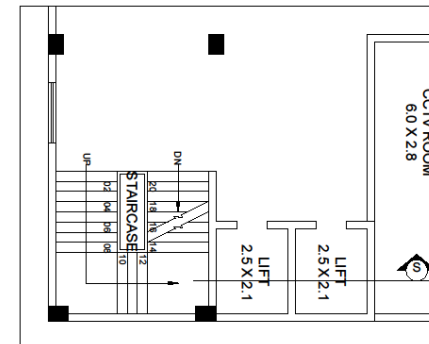
STAIRCASE SECTION- S



TYPICAL FLOOR PLAN GROUND TO THIRD FLOOR



LIFT SECTION- S



TYPICAL FLOOR PLAN GROUND TO THIRD FLOOR

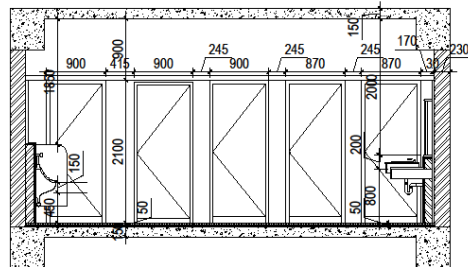
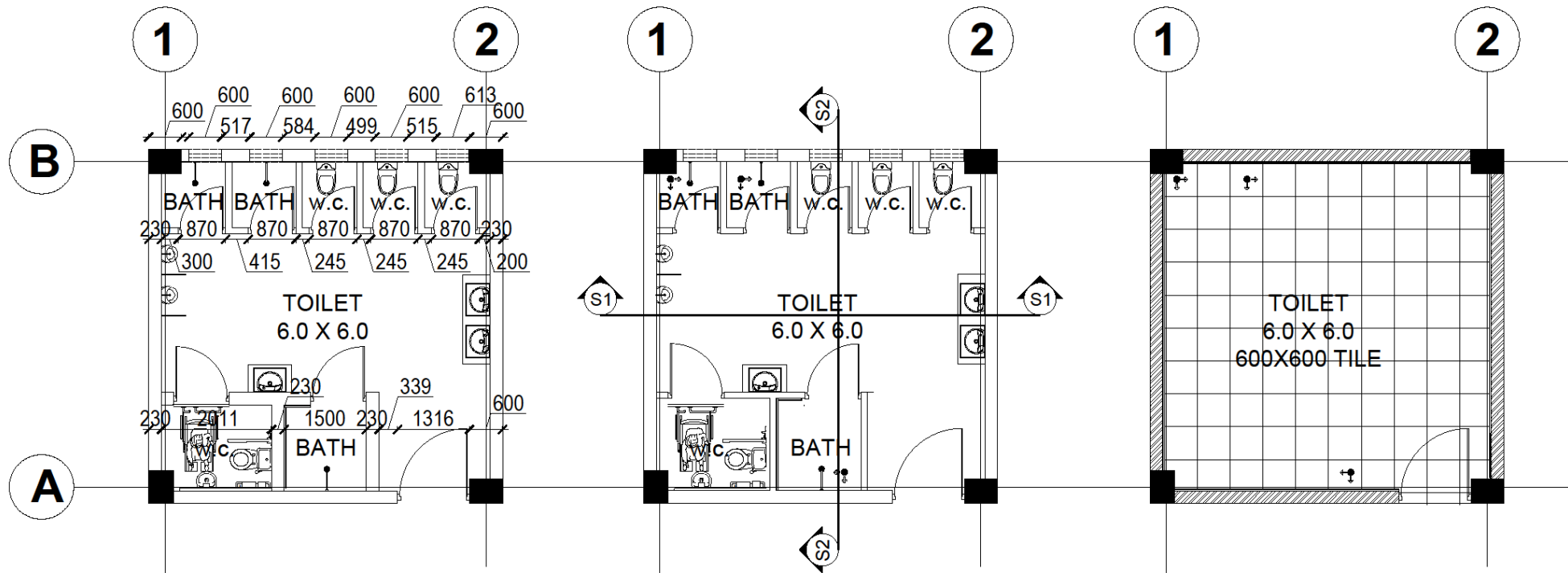
OLD AGE CUM ORPHANAGE

SITE LOCATION :
NEW DELHI
COLLEGE :
B.B.D.U

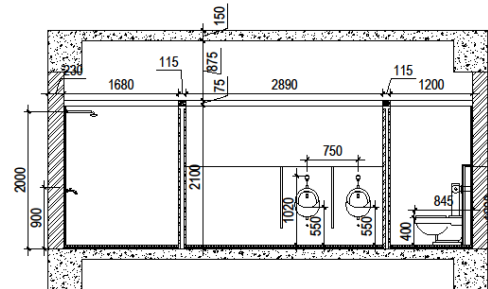
ALL DIMENSIONS ARE IN MILLIMETERS
SCALE 1:2000

NAME :
ATUL KEERTI
ROLL NO. :
1150101022
ACADEMIC :
BARCH (AR) 5TH YR
GUIDE BY :
PROF. MOHIT AGARWAL
AR. RAMAKANT





SECTION - S1



SECTION - S2

OLD AGE CUM ORPHANAGE

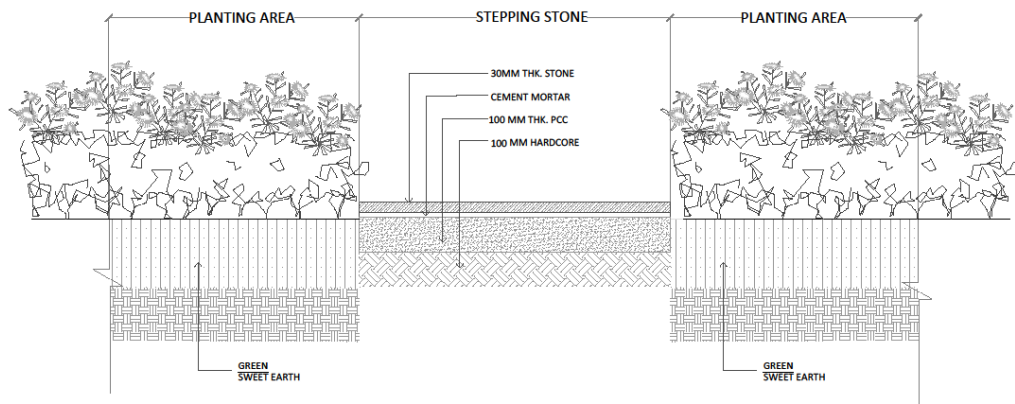
SITE LOCATION :
NEW DELHI
COLLEGE :
B.B.D.U

ALL DIMENSIONS ARE IN MILLIMETERS
SCALE 1:1000

NAME :
ATUL KEERTI
ROLL NO. :
1150101022
ACADEMIC :
II/ARCH (AR) 5TH YR
GUIDE BY :
PROF. MOHIT AGARWAL
AR. RAMAKANT



S.NO.	BOTANICAL NAME	LOCAL NAME	HEIGHT / SHAPE	FOLIAGE	FLOWERING	SPECIAL FEATURE
1.	DELONIX REGIA	GULMOHAR	10 TO 15M, UMBRELLA SHAPED	LIGHT FEATHERY 10 TO 20 CM PINNACAE	SCARLET RED, ORANGE WRINKLED AT TIP, APR-JUN	EVERGREEN, QUICK GROWING
2.	SPATHODEA CAMPANULATA	AMALTAS	6 TO 10M HIGH	LIGHT FEATHERY 10 TO 20 CM PINNACAE	SCARLET RED, ORANGE WRINKLED AT TIP, APR-JUN	EVERGREEN, QUICK GROWING
3.		AKASH NEEM	20MT COLUMNAR	LARGE, 50 TO 60 CM, LEAFLET 4 TO 6 CM LONG	WHITE CYLINDRICAL 25 TO 30CM LONG FRAGRANCE, HT. BLOOMING IN AUTUMN AND SPRING	EVERGREEN, QUICK GROWING
4.		QUEEN OF NIGHTS	LARGE SHRUB	LEAVES ALTERNATE OVATE, ABLONG 10.4CM LONG	CREAMY WHITE LIGHTLY SCENTED, AT NIGHTS, 2CM LONG TUBULAR, BLOOM IN SUMMER AND RAIN	EVERGREEN

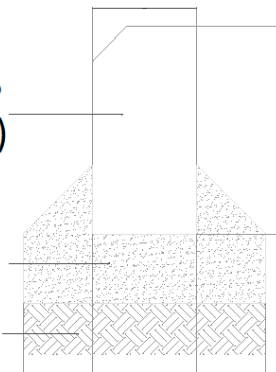


5.	AZADIRACHTA INDICA	NEEM	10 TO 16MT SPHERICAL	DELICATE SHINY 20 TO 40 CMS, SCENTED	YELLOW IN MAR-APR	MEDICINAL PURPOSE, SLOW GROWING
6.	SYZGIUM CUMIM	JAMUN	25 TO 30MT OVAL	DARK GREEN, GLOSSY ROUND LEAVES	SMALL DIRTY WHITE IN FEB-MAY, FRUIT OBLONG FLESHY DEEP PURPLE PULP	BARK IS ASTRIGENT AND USED IN SORE THROATS, ASTHMA ETC.
7.	HIBISCUS ROSA SINENSIS	CHINA ROSE	1 TO 3M	OVATE COARSELY TOOTHED	LARGE WHITE/ RED/ PINK/ ORANGE COLOURED	USED AS HEDGE
8.	CHRYSANTHEMUM	SADABAHAR	40 TO 60 CM	DULL GREEN SMALL	WHITE / YELLOW / PINK / PURPLE IN WINTER, NUMEROUS PETALS	
9.	CASSIA NODOSA	PINK CASSIA	12 TO 16M HT; UMBRELLA	20 TO 30 CM LONG LEAF, DENSE	BRIGHT PINK ON ERCT OCCURS DURING MAR-APR	EVERGREEN
10.	DELONIX REGIA	GULMOHAR	12M		IT IS A TREE THAT IS LARGELY GROWN FOR ITS BEAUTY. THE WOOD WHICH IS WHITE AND SOFT IS USED FOR MAKING ORNAMENTS, AND CAN BE VERY HIGHLY POLISHED. THE FLOWERS AND BUDS ARE USED (AS A HERB) FOR FLAVORING FOOD.	

STONE KERB
(LOCAL STONE)

P.C.C. BED

WELL COMPACTED
SUB GRADE



OLD AGE CUM ORPHANAGE

SITE LOCATION :

NEW DELHI

COLLEGE :

B.B.D.U

ALL DIMENSIONS ARE IN MILLIMETERS

NAME :
ATUL KEERTI

ROLL NO. :
1150101022

ACADEMIC :
I BARCH (AR) 5TH YR

GUIDE BY :
PROF. MOHIT AGARWAL
AR, RAMAKANT



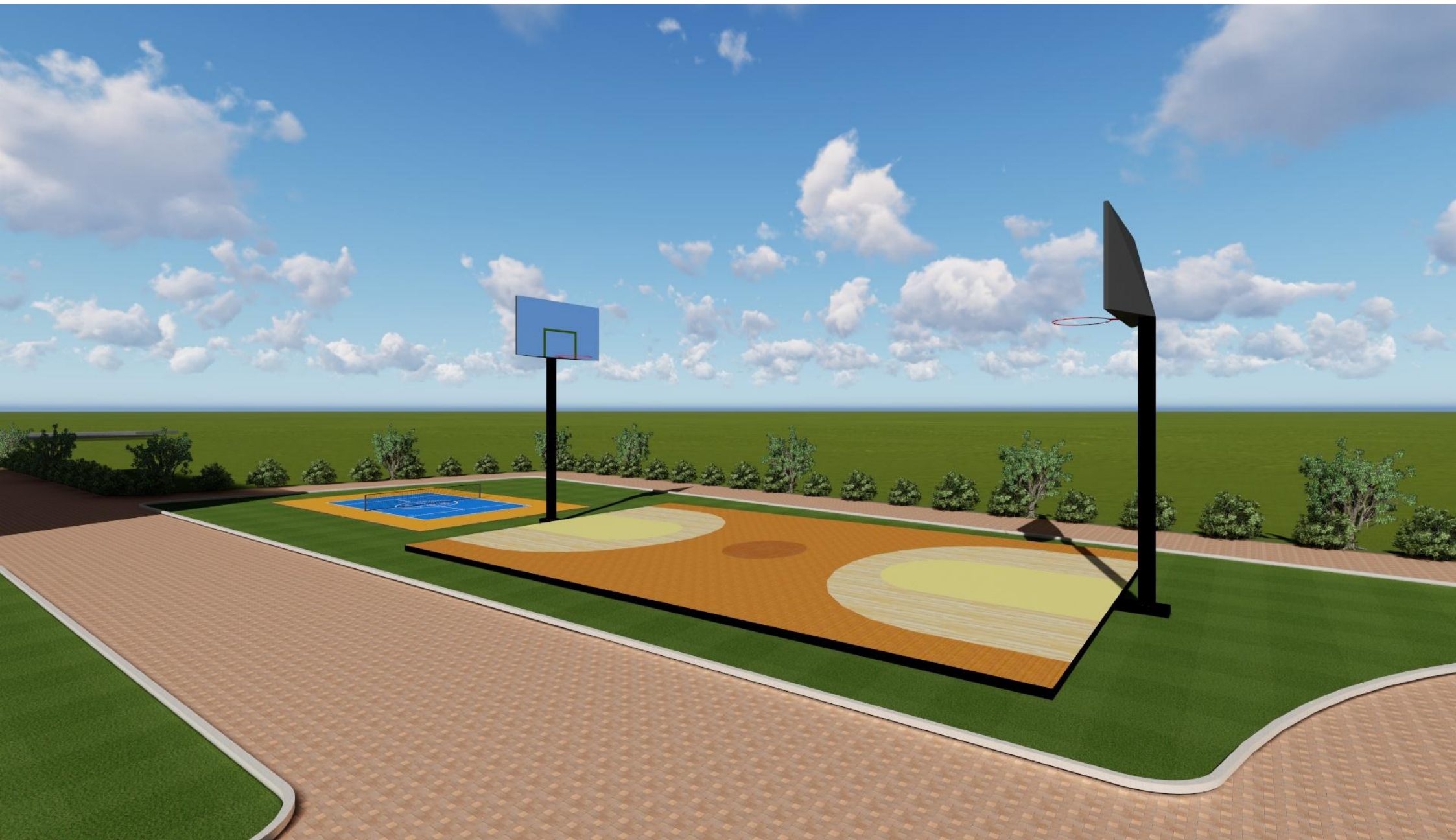
SCHOOL



AMPHITHEATER



BASKETBALL



PARKING



SEATING AREA



THANK YOU