
THESIS REPORT ON
OLD AGE CUM ORPHANAGE HOME
DWARAKA, DELHI , INDIA

Thesis submitted to the Department of SCHOOL OF ARCHITECTURE
AND PLANING , BBDU , Lucknow
In partial fulfillment for the award of the degree of

BACHELOR OF ARCHITECTURE

BY

ABHIJEET AWASTHI
1140101006

UNDER THE GUIDANCE OF **Ar.POOJA VERMA**
DEPARTMENT OF ARCHITECTURE, BBD University
LUCKNOW



BBD UNIVERSITY

SCHOOL OF ARCHITECTURE AND PLANING
BABU BANARSI DAS UNIVERSITY , FAIZABAD ROAD, CHUNHUT , LUCKNOW
UTTAR PRADESH, INDIA



CERTIFICATE

It is certified that the work contained in this B.Arch thesis entitled “ OLD AGE CUM ORPHANAGE HOME DWARAKA, DELHI , INDIA”, by ABHIJEET AWASTHI (1140101006), for the award of Bachelor of Architecture from BABU BANARSI DAS UNIVERCITY ,LUCKNOW , UTTAR PRADESH, has been carried out under my supervision at SCHOOL OF ARCHITECTURE & PLANNING, FAIZABAD ROAD , LUCKNOW, UTTAR PRADESH and that this work has not been submitted elsewhere for a degree.

(Signature)
Ar. POOJA VERMA
Thesis guide

Designation:
Address: (college address)
Date:



**Department Of Architecture
SCHOOL OF ARCHITECTURE &
PLANNING,
B.B.D.U ,FAIZABAD ROAD ,
LUCKNOW, UTTAR PRADESH**

I hereby recommend that the project under my supervision by
ABHIJEET AWASTHI OLD AGE CUM ORPHANAGE HOME DWARAKA,
DELHI , INDIA” be accepted in partial fulfillment of the requirements for
the degree of Bachelor of Architecture.

Ar. POOJA VERMA
(THESIS GUIDE)

Ar. Mohit Agarwal
(DEAN)

Ar. Sangeeta sharma
(H.O.D.)

Ar. SHAILESH KUMAR
(THESIS CO-ORDINATOR)

(INTERNAL EXAMINER)

(INTERNAL EXAMINER)

(INTERNAL EXAMINER)



ACKNOWLEDGMENT

My thesis represents not only my hard work on the sheets and paper, it is also reflection of my research efforts in the planning of OLD AGE CUM ORPHANAGE .

This work would not have been possible without the support numerous hands at every moment. Foremost, I would like to express my sincere gratitude to my thesis guide “Ar.POOJA VERMA” and co-guide . My sincere thanks also goes to Ar.NAVEEN SINGH , and rest of faculty members associated with Architecture Department.

I am grateful to all of those with whom I had the pleasure to work with discussions during thesis. Where Architects of my friend circle like AR. BUDHI RAM MAURYA have provided me extensive personal and professional guidance, on the other side my dear friend's, have helped enthusiastically in binding thesis.

SITE ANALYSIS



PROJECT NAME- OLD AGE CUM ORPHANAGE HOME

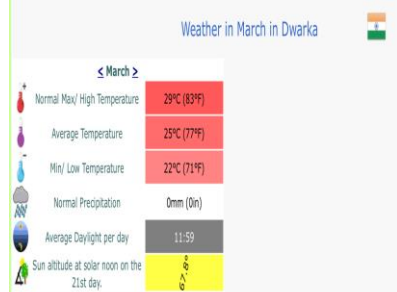
PROJECT BRIEF: The Delhi Government Authority has decide to make an old age cum orphanage home in Dwaraka sector-4. The purpose of home is to help the elderly aged people and the orphans.

Why Dwaraka-

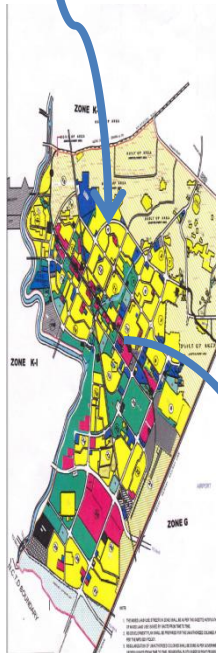
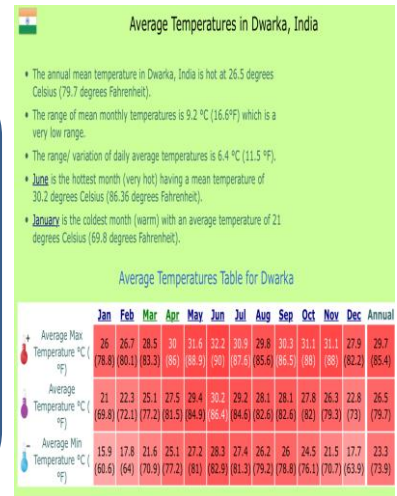
- connectivity to all the major areas like hospitals, bus stations and stops ,schools, banks railway stations, metro stations etc.
- defined green belts and footpaths.
- Adjacent to high density residential areas.
- Within reach of a wider community.
- Since it is connected to major cities and roads, has a great scope to become a landmark.
- Easily accessible by car, bus or public transport.
- well connected roads with proper infrastructures and services.

CLIMATIC CONDITION: Dwaraka , Delhi overlap between monsoon influenced humid subtropical with high variation between summer and winter temperatures and precipitations. It is observes relatively dry short winters and has a prolonged spell of very hot weather due to its semi-arid climate.

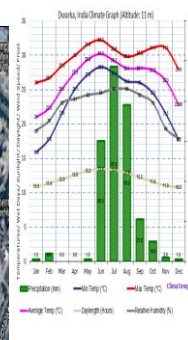
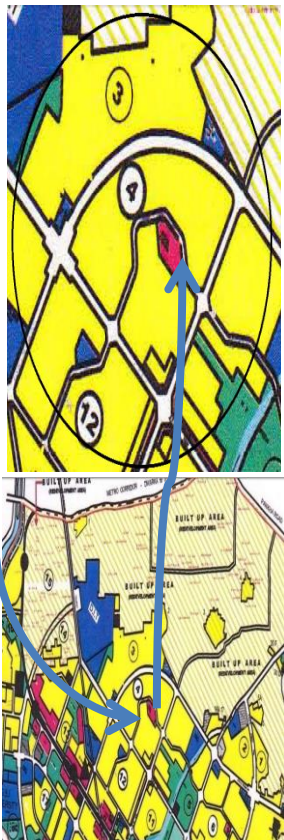
MICRO CLIMATIC CONDITION: Most important wind pattern influencing Delhi's climate are the western disturbance (summer) and the south-east winds (monsoon). As the wind blowing in summer is hot and dry. South-West winds carries humidity and comforts to users. Thus the positioning of site is naturally favorable for the building to be built.



- The average temperature in Dwaraka in March is fairly hot at 25.1 °C (77.18 °F).
- Afternoons can be very hot with **average high temperatures** reaching 28.5 °C (83.3 °F).
- **Overnight temperatures** are generally really warm with an average low of 21.6 °C (70.9 °F).
- In March the (variation) range of daily mean temperatures is 6.9 °C (12.4 °F).
- The weather in March is bone dry. An airy 0mm (0in) of liquid is transferred.
- The shortest day is 11:39 long and the longest day is 12:19 long with an average length of 11:59.



Location of Site:
DWARAKA SECTOR -
4, NEW DELHI



ACCESSIBILITY:

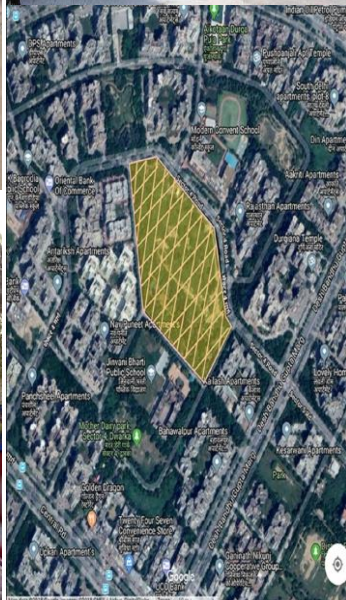
- ❑ Nearest Airport: New Delhi =12.0km
- ❑ Nearest Railway Station: Delhi cant =7.1km, New Delhi =25.0km
- ❑ Nearest Metro Station: Sector11 =1.3km, Sector12=1.5km
- ❑ Nearest Bus Station: New Delhi=24km
- ❑ Nearest Bus Stop:D.P.S. Matiyala=0.85km

OLD AGE CUM ORPHANAGE HOME ABHIJEET AWASTHI B.ARCH- 5TH YEAR.

SITE DETAILING

DESIGN BRIEF, NEED AND AIM OF THE PROJECT:

- The Delhi Government Authority has decide to make an old age cum orphanage home in Dwaraka sector-4.
- The purpose of home is to help the elderly aged people and the orphans.
- Our society, our economy treat old age people and orphans as a burden. The concept of this home to grew from the treatment of old age and orphans as a burden.
- Old age people and orphans are excluded , they face economic, social, psychological , natural exclusion so we have need of this.
- This includes residence for elderly people, residence for orphans, school, art court, play ground, park, yoga hall, prayer hall, kitchen etc.
- The aim of the project to provide a home for elderly people and orphans and good education and skills.



SWAT ANALYSIS:

- STRENGTH:** (a) Major arterial road on every side of the site.
(b) Proposed projects such as socio culture centre at Dwaraka sector 11 at a distance of 1.8 km.
(c) A sports complex is located near it at a distance of 1.2km.
- WEAKNESS:** (a)Low water level.
(b) Visual barrier by high rise apartments.
- Opportunities:** (a)It will helpful to decrease child labor and bagger.
(b) It will be helpful to show hidden talents of children's.
- THREATS:** (a)petrol pump near the site will be s cause of incidents .



ABOUT THE SITE:

LOCATION: SECTOR 4,
DWARAKA
LATITUDE:28°36'5.90"N
LONGITUDE:77°30
.94'E
DRISTRICT:DWARAKA K-II
ACCESSIBILITY:
- AT AZAD HIND FAUZ
MARG
-NEAREST METRO STATION:
DWARAKA SECTOR 11 & 12
-ORIENTATION:NW – SE
-SITE AREA:24660.00 sq m
(6.09 acres)
-LAND: FLAT LAND
-SITE ALTITUDE:214.88m
(705 ft , MEAN SEA LEVEL)
-SOIL TYPE:ALLUVIAL



NEARBY LANDMARKS:

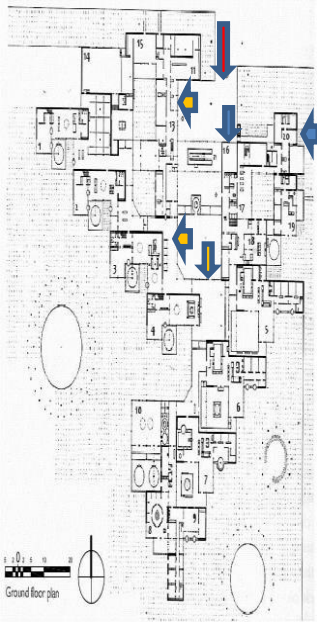
- MODERN CONVENT SCHOOL
- JINVANI BHARATI PUBLIC SCHOOL
- KAILASH APARTMENT
- RAJSTHAN APARTMENT
- NAV PUNIT APARTMENT
- PETROL PUMP

OLD AGE CUM ORPHANAGE HOME

ABHIJEET AWASTHI B.ARCH- 5TH YEAR.

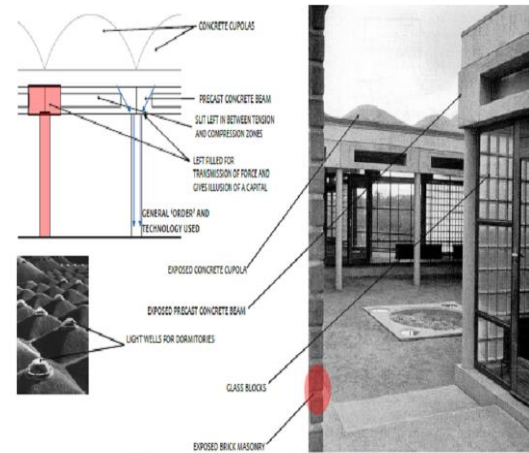
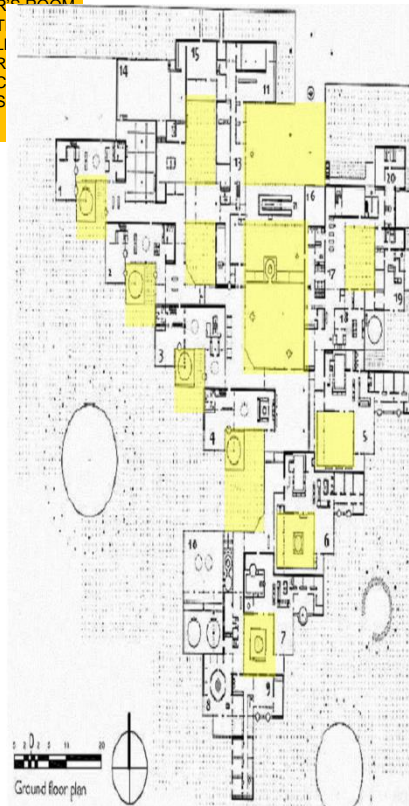
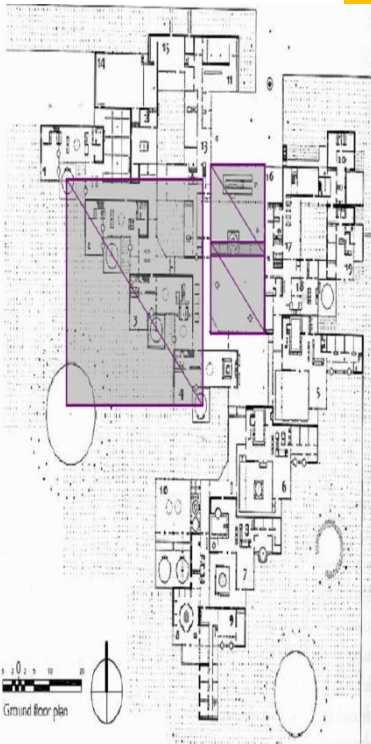
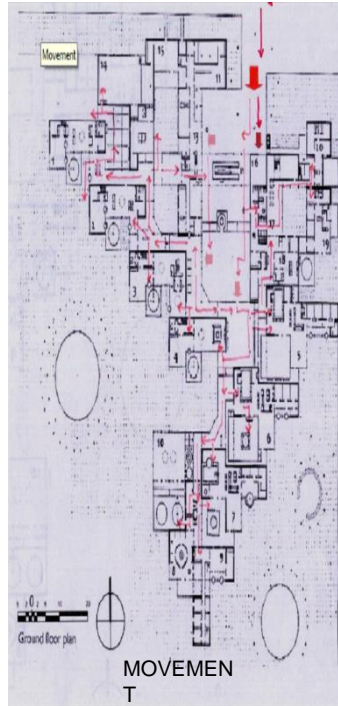
LITERATURE CASE STUDY

AMSTERDAM MUNICIPAL ORPHANAGE ,HOLLAND



KEY:

1. BOYS -14-18
2. GIRLS-14-18
3. BOYS-10-14
4. GIRLS-10-14
5. KIDS-6-10
6. KIDS -4-6
7. KIDS-2-4
8. BABIES
9. INFIRMARY
10. FESTIVE HALL
11. THEATRE / GYM
12. PSYCHOLOGISTS AND STAFFS
13. ADMINISTRATION LIBRARY
14. MENTINANCE AND SERVICE ROOM
15. GARAGE
16. MAIN LINEN ROOM
17. KITCHEN AND DIRECTOR'S ROOM
18. MAIN ENTRANCE

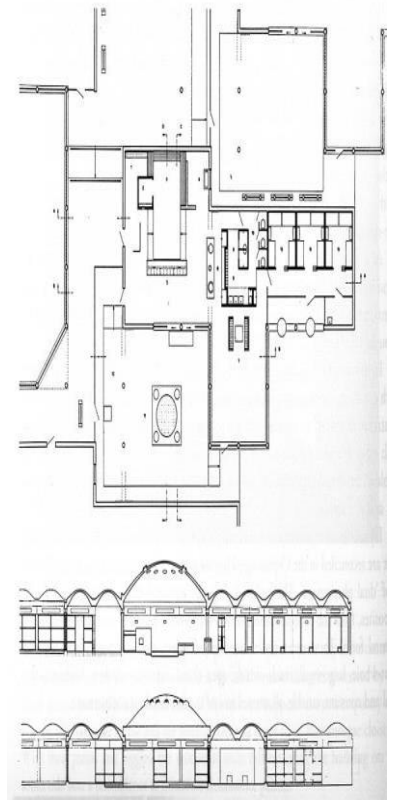


OLD AGE CUM ORPHANAGE HOME
ABHIJEET AWASTHI B.ARCH- 5TH YEAR.

THESIS GUIDE – AR. PUJA VERMA



MODEL



ELEVATION
N



CIRCULATION

AMSTERDAM ORPHANAGE

Dutch Architect ALDO VAN EYCK built the Amsterdam Orphanage in 1960.

This design is focused on a balance of forces to create both a home and a small city on the outskirts of Amsterdam.

DESIGN PROGRAM

It is an Orphanage for children of all ages and includes sleeping quarters, a kitchen, a laundry room, gym, library and administrative space.

Van Ecky's designs for the orphanages were those of both a home for the children, as well as the plan of a small city. He created a decentralized urban node with many points of interaction within the plan.

Van Ecky was interested in a non Hierarchical development of cities and in the Amsterdam orphanage he created a building with many in between conditions to break down the Hierarchy of spaces.

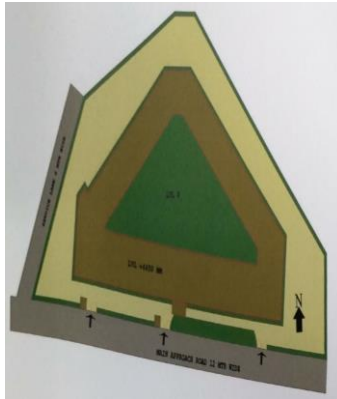


Location – Amsterdam, Holland
Architect – Aldo Van Ecky
Number of units-328
A small unit dimension-3.36m x 3.36m

OLD AGE CUM ORPHANAGE HOME
ABHIJEET AWASTHI B.ARCH- 5TH YEAR.

LITERATURE CASE STUDUY

SAMARPAN VARISHTH JANPARISAR,LUCKNOW



LANDSCAPING

It has a well laid out lawn inside the building. It does not have any other external landscape space, but instead beautifully landscaped inner lawn. Some landscaping is also seen at the front of entrance.

INTRODUCTION

Samapan is a private owned senior citizen home. It is one of the units run by 'GAYATRI PARIVAR TRUST'. It started functioning in October 2005. It offers comfort and care free life to those above 60 years, irrespective of cast and religion.

BUILDING ORIENTATION

Building Entrance is from south – west. All rooms get sunlight and ventilation. Corridors' opens into internal green lawn, due to which the complex is properly ventilated.

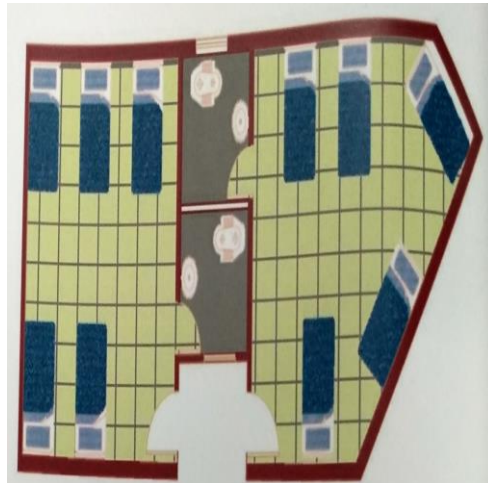
ELECTRICITY AND DRAINAGE

- Electricity supply comes from main power house of the area. Capacity is 25kV used.
- Drainage channels run along the building profile.



LOCATION

It is located in the residential area of Adil Nagar, Sitapur-Faizabad North Ring Road, Lucknow, U.P. It is located near the locality of Indira Nagar.



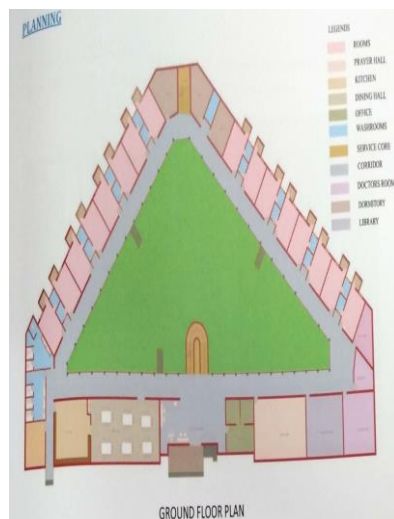
CIRCULATION

- No vertical circulation is there, only ground floor is constructed.
- Horizontal circulation is through corridor having width of 2.4m wide.
- Ramp's ratio 1:10 is provided to access the lawn.



SPECIAL FEATURES

Space between two rooms is created in such a manner, that it can be used for sitting in corridor.



MERITS

- 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.
- No vertical circulations provided.

DEMERITS

- A common central zone is absent.
- No lifts and ramps provision for going upstairs.
- Flooring is not proper, as inmates slip on it.
- There is no provision of signage



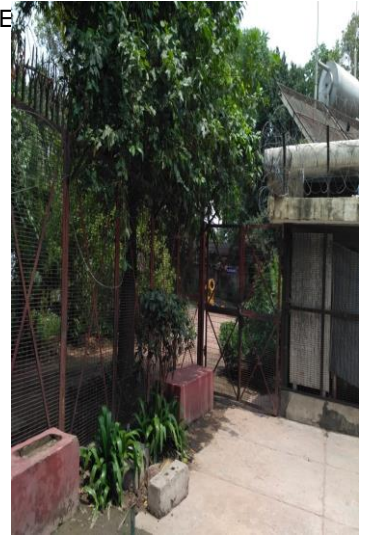
ROOM LAYOUT

OLD AGE CUM ORPHANAGE HOME

ABHIJEET AWASTHI B.ARCH- 5TH YEAR.

LIVE CASE STUDY

BAL SAHYOG ORPHANAGE, CONNAUGHT PLACE OPPOSITE BLOCK NEW DELHI



INTRODUCTION

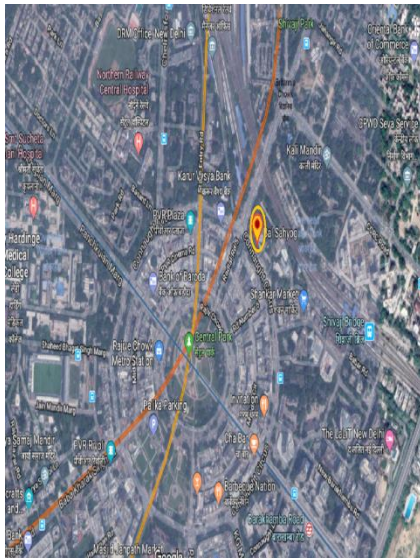
Bal Sahyog orphanage is a nonprofit organization founded in 1954 by former Prime Minister, Smt. Indira Gandhi for care and protection of the helpless, orphan, abandoned and neglected children. Honorable Prime Minister of India is the Ex-Officio Patron of Bal Sahyog.

BUILDING ORIENTATION

Building Entrance is from south side. All rooms get sunlight and ventilation. Corridors' opens south side where jali pattern break the direct sunlight.

LANDSCAPING

It has a well paved path. It has small garden space and a playground for children. The playground beautifully landscaped. Some landscaping is also seen at the front of entrance.



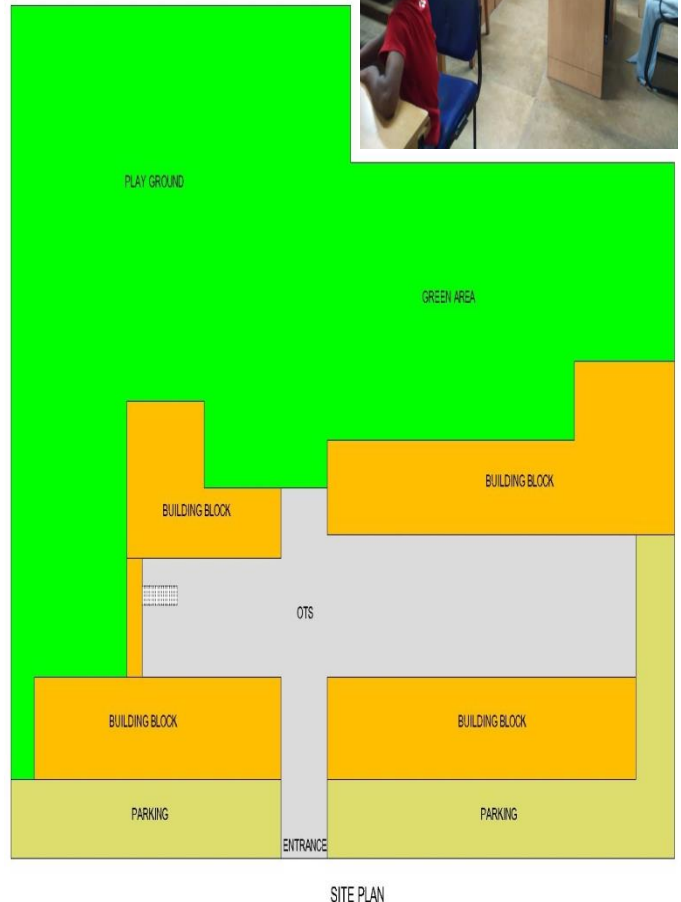
LOCATION

It is located in New Delhi near cannot circus opposite L-block market. It is located at prime location of New Delhi. It is equars 2.67 acres of land.



STAFFS AND ORPHANS STRENGTH

- ❑ There are around 26-30 numbers of staffs are working here.
- ❑ 125 numbers of orphans live here.
- ❑ Only boys no girls.
- ❑ In each dormitories has 25 beds.
- ❑ Two numbers of 8-bedded dispensary.



SITE PLAN

OLD AGE CUM ORPHANAGE HOME

ABHIJEET AWASTHI B.ARCH- 5TH YEAR.

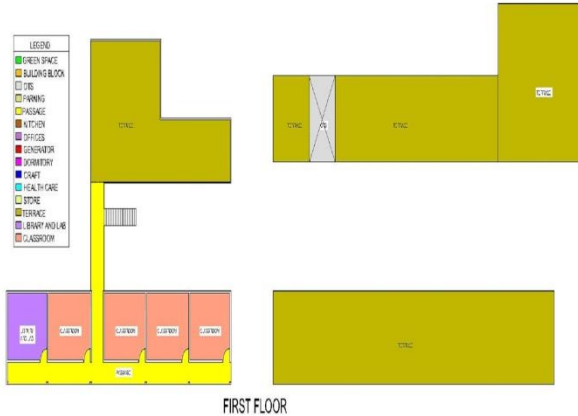
1
0
THESIS GUIDE – AR. PUJA VERMA

LIVE CASE STUDY

BAL SAHYOG ORPHANAGE, CONNAUGHT PLACE OPPOSITE L-BLOCK, NEW DELHI

PLANNING PATTERN

- ❑ The Bal Sahyog building complex does not have any clearly defined planning concept the buildings are housed around one medium sized central space.
- ❑ Planning is introverted.
- ❑ There are four building blocks.
- ❑ The first block has G+1 story building. Ground floor has the administration and first floor has the school and library which is connected with fourth block by a staircase kitchen and dining hall.
- ❑ Second block has residence.
- ❑ Third block has the health care unit and store room and craft area.
- ❑ Fourth block is kitchen and dining area.
- ❑ It has 4 classrooms and 5 dormitories.

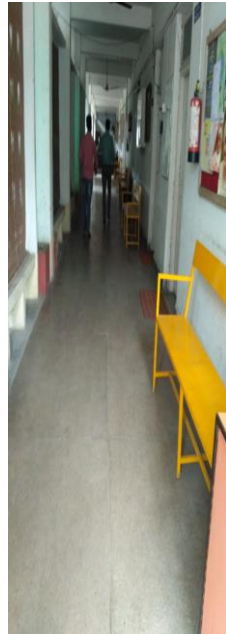


SPECIAL FEATURES

Uses of Jali pattern break gives direct sunlight and also make it good in appearance.

CIRCULATION

- For the vertical circulation there is a staircase.
- Horizontal circulation is through corridor having width of 1.8m wide.

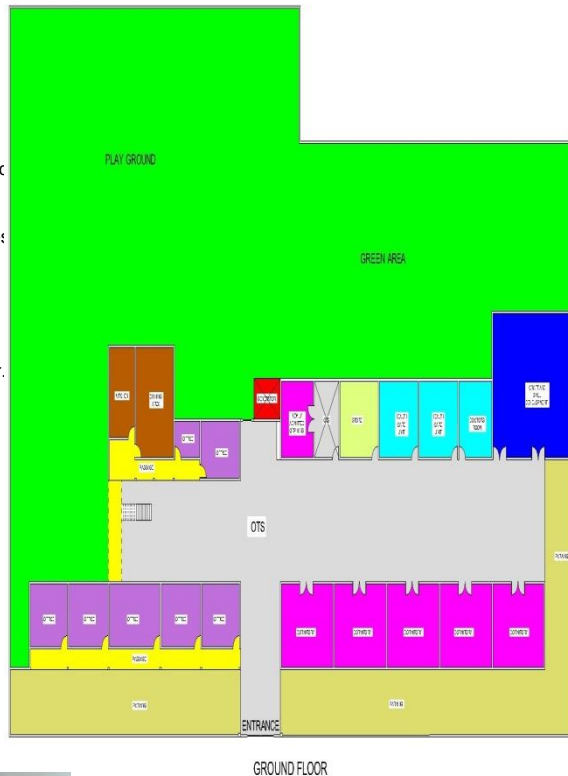


MERITS

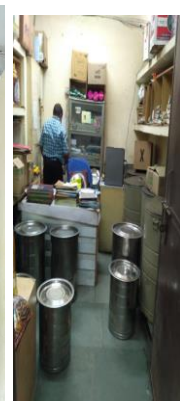
- Semi furnished rooms with proper ventilation.
- Located at prime location of New Delhi.
- Proper integration of green spaces.
- Single story building.
- Parking facilities is provided.
- 24 hours security and wardens available.
- Education and skill development facilities provided.

DEMERITS

- A common central zone is absent.
- There is no ramps for disabled children's.
- Flooring is not proper, as inmates slip on it.
- There is no provision of signage.
- Heavy pollution around the center.



Used vertical lures to cut sunlight.



OLD AGE CUM ORPHANAGE HOME

ABHIJEET AWASTHI B.ARCH- 5TH YEAR.

LIVE CASE STUDY



GODHULI SENIOR CITIZEN HOME, DWARAKA SECTOR -2 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.



ELECTRICITY AND DRAINAGE

- Electricity supply comes from main power house of the area.
- Drainage channels run along the building profile
- Pathways are well paved..



INTRODUCTION

Godhuli is a private owned senior citizen home. It is one of the units of the servants of the People society, Delhi branch. It started functioning in 2001. It offers comfort and care free life to those above 60 years, irrespective of cast and religion.

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.



LOCATION

It is located in the residential area of Dwaraka sector -2, pocket -2, plot no.-7, New Delhi. It is surrounded by the residential apartments. Some educational institute are also present there in vicinity.

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 FEATURES

- 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.

OLD AGE CUM ORPHANAGE HOME

ABHIJEET AWASTHI B.ARCH- 5TH YEAR.

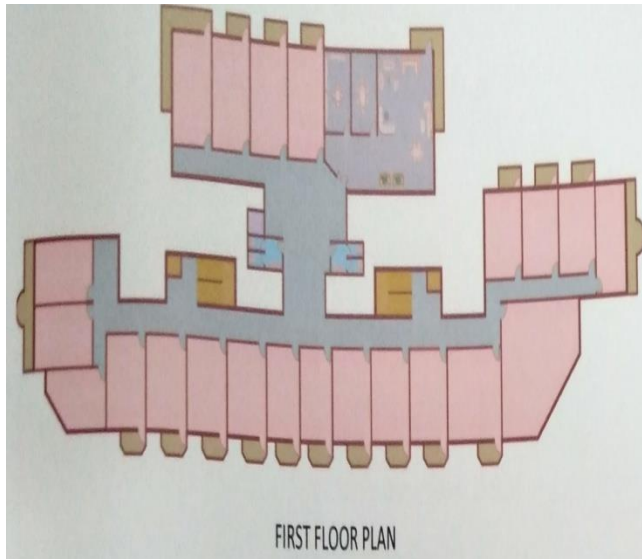
1
2
THESIS GUIDE – AR. PUJA VERMA

LIVE CASE STUDUY

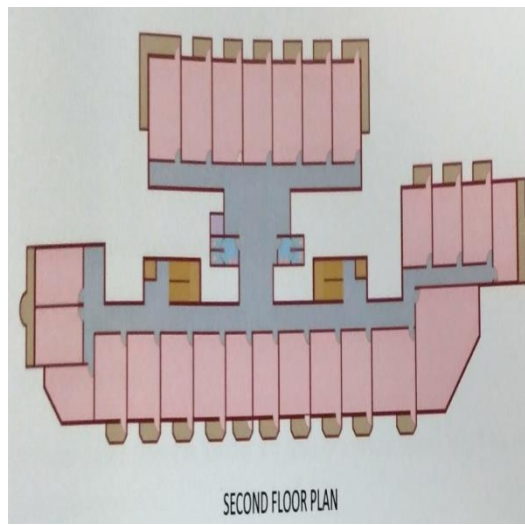
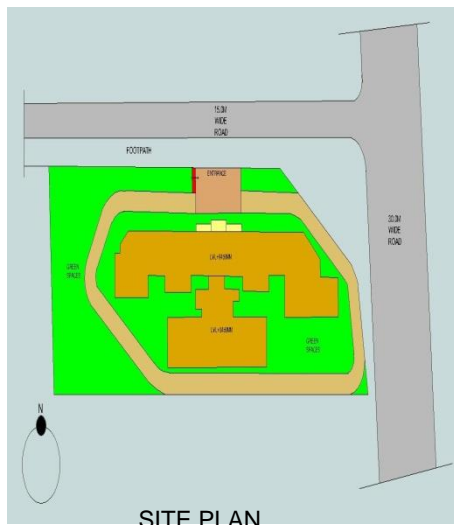
GODHULI SENIOR CITIZEN HOME,DWARAKA SECTOR -2

PLANNING PATTERN

- ❑ The Bal Sahayog building complex does not have any clearly defined planning concept the buildings are housed around one medium sized central space.
- ❑ It is well designed home.
- ❑ There are two building blocks.
- ❑ The block has G+3 story building. Ground floor has the administration, health care unit, dinning area, gym, residence too.
- ❑ It has a basement parking space.
- ❑ All the three floors are residence units.
- ❑ It has double bedroom with attached bathroom.
- ❑ A small library is provided on second floor.
- ❑ A multipurpose hall is situated on the first floor for recreational purposes only. It has card playing table and sofa sets.
- ❑ Corridors are 2.0m wide.
- ❑ It has 50 numbers of rooms.



- ### AREAS
- ❑ Ground coverage = 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.

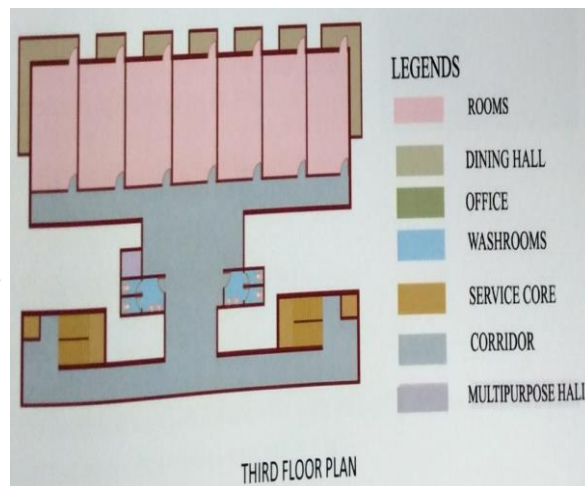


MERITS

- 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.

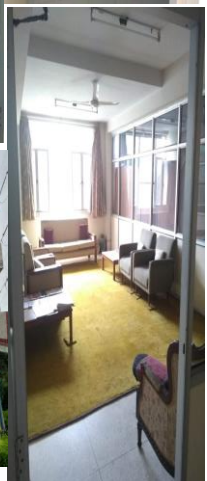
DEMERITS

- A meditation hall is absent.
- There is no provision of signage.
- A common central zone is absent.
- Floor wise area is not distributed proper.
- Prayer hall is absent.



LEGENDS

- ROOMS
- DINING HALL
- OFFICE
- WASHROOMS
- SERVICE CORE
- CORRIDOR
- MULTIPURPOSE HALL



OLD AGE CUM ORPHANAGE HOME

ABHIJEET AWASTHI B.ARCH- 5TH YEAR.

AREA ANALYSIS

BAL SAHYOG

SPACE

AREA IN SQ.M.

- ☐ Administrative and office
200.00
- ☐ Dormitories
300.00
- ☐ Health care unit
100.00
- ☐ Craft
120.00
- ☐ Dinning
100.00
- ☐ Kitchen
60.00
- ☐ Classroom
120.00
- ☐ Library
40.00
- ☐ Store
30.00
- ☐ Circulation
240.00

STANDARDS (150

CHILDREN)

SPACE

AREA IN SQ.M.

- ☐ Administrative and office
200.00
- ☐ Dormitories
50.00 (8 bedded)
- ☐ Health care unit
150.00
- ☐ Craft
250.00
- ☐ Dinning
150.00
- ☐ Kitchen
120.00
- ☐ Classroom
40.00
- ☐ Library and lab
200.00
- ☐ Store
-
- ☐ Circulation
-
- ☐ Green space

GODHULI OLD AGE

HOME

SPACE

AREA IN SQ.M.

- ☐ Reception
40.00
- ☐ Administration
25.00
- ☐ Health care unit
80.00
- ☐ Room
35.00
- ☐ Dinning
130.00
- ☐ Kitchen
60.00
- ☐ Tv room
80.00
- ☐ Library
30.00
- ☐ Store
30.00
- ☐ Physiotherapy room

STANDARDS (100 PEOPLE)

SPACE

AREA IN SQ.M.

- ☐ Reception
50.00
- ☐ Administration
120.00
- ☐ Health care unit
120.00
- ☐ Room
25.00
- ☐ Dinning
150.00
- ☐ Kitchen
80.00
- ☐ T V room
150.00
- ☐ Library
100.00
- ☐ Store
-
- ☐ Physiotherapy room
120.00
- ☐ Green space
-

PROGRAMS

- ☐ ADMINISTRATIVE
- ☐ RECEPTION
- ☐ CLASSROOMS
- ☐ DORMITORIES
- ☐ LIBRARY
- ☐ CRAFT AND SKILL DEVELOPMENT
- ☐ VOCATIONAL TRAINING
- ☐ COMPUTER LAB
- ☐ WORKSHOP
- ☐ YOGA HALL
- ☐ MEDITATION HALL
- ☐ COMMON SPAN
- ☐ LOBBY
- ☐ TV ROOM
- ☐ DINNING HALL
- ☐ KITCHEN
- ☐ READING ROOM
- ☐ HEALTH CARE UNIT
- ☐ DANCE AND MUSIC HALL
- ☐ MEETING ROOM
- ☐ GYM
- ☐ INDOOR GAMES
- ☐ MULTIPORPOSE HALL
- ☐ PRAYER HALL
- ☐ PHYSIOTHERAPY ROOM
- ☐ GUEST MEETING ROOM
- ☐ 8 BEDDED ROOM (ORPHANS)
- ☐ 4 BEDDED ROOM (ELDERLY)
- ☐ EXHIBITION SPACE
- ☐ SEMINAR ROOM
- ☐ DOCTORS ROOM
- ☐ WAITING ROOM
- ☐ PARKING
- ☐ PLAYGROUND
- ☐ GARDEN
- ☐ COURTYARD
- ☐ OPEN AIR THEATOR

OLDAGE CUM ORPHANAGE HOME

- ☐ CLIENT : DELHI DEVELOPMENT AUTHORITY
- ☐ PLOT AREA : 6.09 ACRE
- ☐ LOCATION : DWARAKA SECTOR 4
- ☐ LAND USE : COMMERCIAL
- ☐ PROJECT TYPE : COMMUNITY PROJECT

BYELAWS

- ☐ PLOT AREA = 24640.00 SQ.M.
- ☐ F.A.R. = 1.2
- ☐ MAX. HEIGHT = 26.0M
- ☐ PERMISSIBLE GROUND COVERAGE = 30%
- ☐ PERMISSIBLE GROUND COVERAGE = 7392.04 SQ M
- ☐ PERMISSIBLE BUILTUP AREA = 29568.16 SQ.M.
- ☐ ECS = 1.8
- ☐ SET BACK = FRONT-15, RARE SIDE-12, BACK - 12

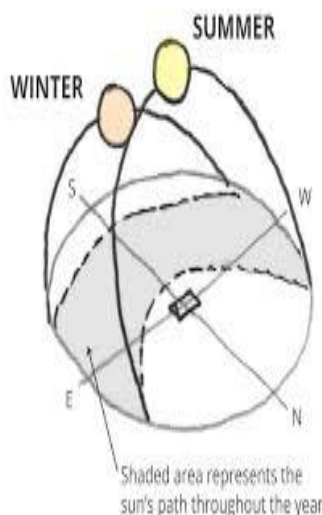
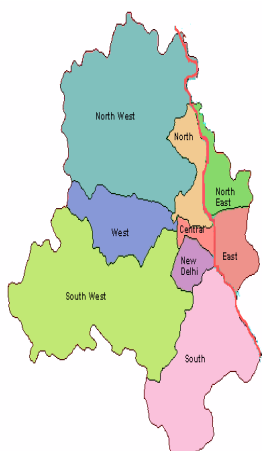
OLD AGE CUM ORPHANAGE HOME

ABHIJEET AWASTHI B.ARCH- 5TH YEAR.

THESIS GUIDE – AR. PUJA VERMA

INTRODUCTION

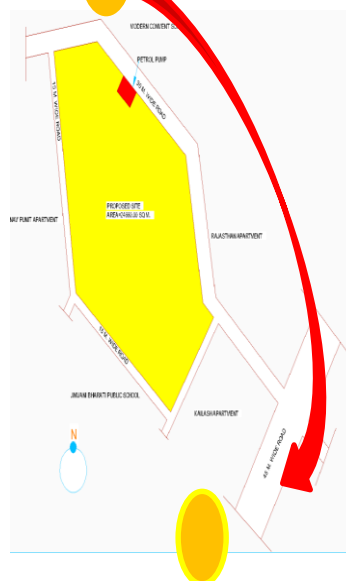
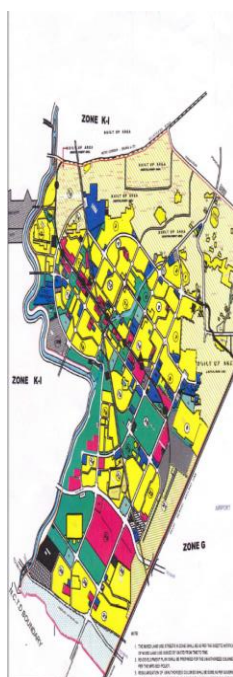
1-The main purpose lies in building an old age home with an orphanage where the elderly between ages 55-75 voluntarily help the institution to provide children with care and education.
2-The intention is to have a place where the children and the elderly can co-habit and provide a home environment for each other.
3-When the old are unable to stay with their families or are destitute, they can experience feelings of security and self-worth. It will also keep their mind-body faculties active and help them to use their free time creatively. Similarly, instead of missing a family life, orphans and homeless children can grow up in a caring and happy environment. This combines the problems of the aged and the orphans and solves it through a simple yet effective solution.



LOCATION- THIS SITE IS LOCATED IN DWARKAPURI, NEW DELHI
AREA-6.09 ACRES (24640 SQ.M.)
F.A.R. -1.2

GROUND COVERAGE - 80%
ACCESSIBILITY

- **Nearest Airport:** New Delhi =12.5km
- **Nearest Railway Station:** Delhi cantt =7.1km, New Delhi =25.0km
- **Nearest Metro Station:** Sector11 =1.5km
- **Sector12** =1.5km
- **Nearest Bus Station:** New Delhi =2.5km
- **Nearest Bus Stop:** D.P.S. Matiyala =1.5km



CLIMATE

Average Temperatures in Dwarka, India

- The annual mean temperature in Dwarka, India is hot at 26.5 degrees Celsius (79.7 degrees Fahrenheit).
- The range of mean monthly temperatures is 9.2 °C (16.6°F) which is a very low range.
- The range/ variation of daily average temperatures is 6.4 °C (11.5 °F).
- **June** is the hottest month (very hot) having a mean temperature of 30.2 degrees Celsius (86.36 degrees Fahrenheit).
- **January** is the coldest month (warm) with an average temperature of 21 degrees Celsius (69.8 degrees Fahrenheit).

Average Temperatures Table for Dwarka

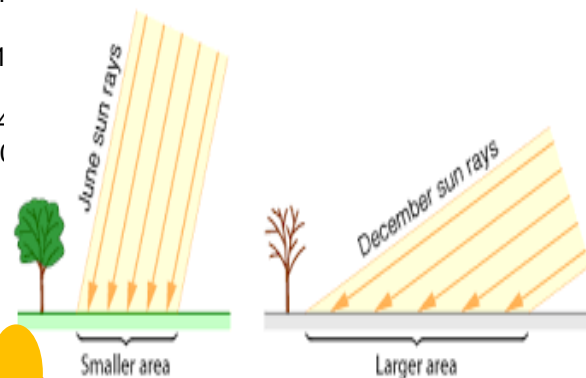
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max Temperature °C (°F)	26 (78.8)	26.7 (80.1)	28.5 (83.3)	30 (86)	31.6 (88.9)	32.2 (90)	30.9 (87.6)	29.8 (85.6)	30.3 (86.5)	31.1 (88)	31.1 (88)	27.9 (82.2)	29.7 (85.4)
Average Temperature °C (°F)	21 (69.8)	22.3 (72.1)	25.1 (77.2)	27.5 (81.5)	29.4 (84.9)	30.2 (86.4)	29.2 (84.6)	28.1 (82.6)	28.1 (82.6)	27.8 (82)	26.3 (79.3)	22.8 (73)	26.5 (79.7)
Average Min Temperature °C (°F)	15.9 (60.6)	17.8 (64)	21.6 (70.9)	25.1 (77.2)	27.2 (81)	28.3 (83)	27.4 (81.3)	26.2 (79.2)	26 (78.8)	24.5 (76.1)	21.5 (70.7)	17.7 (63.9)	23.3 (73.9)

Rainfall/ Precipitation in Dwarka, India

- Dwarka is entrusted with on average 275 mm (10.8 in) of rainfall per year, or 22.9 mm (0.9 in) per month.
- The driest weather is in **March & April** when an average of 0 mm (0 in) of rainfall (precipitation) occurs.
- The wettest weather is in **July** when an average of 97 mm (3.8 in) of rainfall (precipitation) occurs.

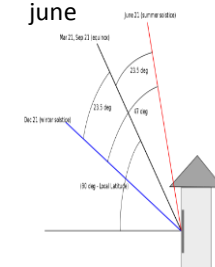
Precipitation Table

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Precipitation mm (in)	1 (0.04)	4 (0.2)	0 (0)	0 (0)	1 (0)	60 (2.4)	97 (3.8)	78 (3.1)	21 (0.8)	10 (0.4)	2 (0.1)	1 (0)	275 (10.8)
Precipitation Litres/m² (Gallons/ft²)	1 (0.02)	4 (0.1)	0 (0)	0 (0)	1 (0.02)	60 (1.47)	97 (2.38)	78 (1.91)	21 (0.52)	10 (0.25)	2 (0.05)	1 (0.02)	275 (6.75)



WIND & SPEED

The wind direction is N-W
TO S-E In winters
Cold & dry
winds from N-W.
In summers hot and dusty
atmosphere in may-june



ZOANING

STEIS 30% COVERED BY BULT STRUCTURE AND 70% OPEN SPACES PROVIDED IN WHICH THERE ARE INTERNAL ROADS AND OTHER SITE CIRCULATION, SURFACE PARKING AND OTHER OPEN GREEN AREAS.



BUILDING PLACEMENT



SILENT ZONE



SEMI SILENT ZONE



NOISE ZONE

SILENT ZONE:>

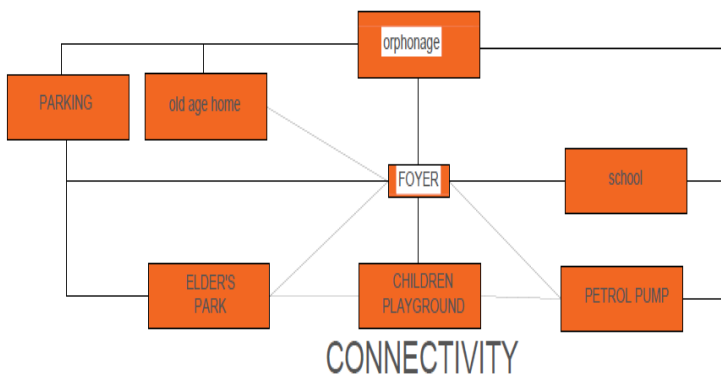
SILENT ZONE LIKE OLD AGE HOME ,AND ALL THE ACTIVITY AREAS.

SEMI SILENT ZONE :>

SEMI SILENT ZONE LIKE ADMINISTRATIVE BLOCK,INSTITUTIONAL BUILDING.

NOISE ZONE:>

NOISE ZONE LIKE ORPHANAGE BLOCK,PLAY GROUND



CONNECTIVITY

OLD AGE CUM ORPHANAGE HOME
ABHIJEET AWASTHI B.ARCH- 5TH YEAR.

THESIS GUIDE – AR. POOJA VERMA

CONCEPT

EVALUATED IN TERMS
OF VOLUME.

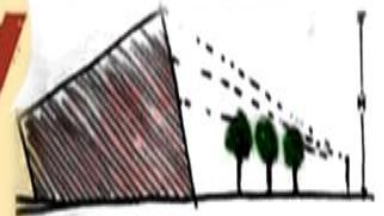
UNITY IN



BEHIND THE CONCEPT
MY AIM.

- CREATING A NEW SPACE FOR THE COMMUNITY (ELDER'S AND ORPHANE) TO GATHER HOLD EVENTS,CULTURAL EXPRESSION.
- ADD LIGHTING AND LANDSCAPE TO MAKE ITS BEAUTY.
- BUILD SERIES OF ACTIVITY AREA LIKE (AMPHITHEATER ,PLAYGROUND, PARK ETC) STARTING FROM CENTRE WHICH IS AMPHITHEATER AND OUTDOOR SEATING SPACE.

DiVERSITY



PROPER VISIBILITY ON THE READ



PLAN



ELEVATION



PLAN



ELEVATION

ELDER BLOCK

GIRL'S ORPHAN

BOY'S ORPHAN

ENTRY

SCHOOL

ENTRY

GARDEN

ENTRY

STRAIGHT WAY



OLD AGE CUM ORPHANAGE HOME
ABHIJEET AWASTHI B.ARCH- 5TH YEAR.

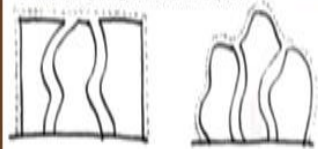
THESIS GUIDE – AR. POOJA VERMA

COURTYARD PLANING

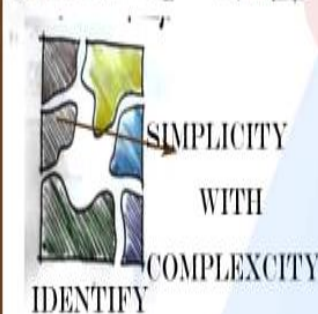
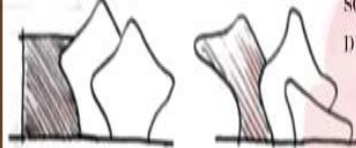


COURTYARD PLANING IS THAT SPACE GENERALLY WITHIN A BUILDING THAT IS OPEN TO SKY. UTILISATION OF NATURAL LIGHT AND BENEFIT FROM AIR CIRCULATION ARE OTHER PLUS POINT OF THE COURTYARD. THESE INNER COURTYARDS AID IN KEEPING THE PRIVATE SPACES COOL.

TRANSFORMATION



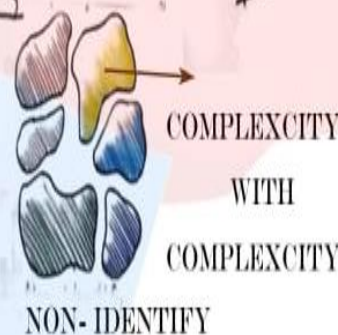
INTERSECTION



SIMPLICITY
WITH
COMPLEXITY
IDENTIFY

COURTYARD

SQUARE SHAPE PLANING
DUE TO SITE PROFILE



COMPLEXITY
WITH
COMPLEXITY
NON-IDENTIFY

RAMP DEVELOPMENT



RAMP ARE SLOPED PATHWAYS USED INSIDE AND OUTSIDE BUILDING USED TO PROVIDE ACCESS VERTICALS. RAMP'S PROVIDE AN ALTNATIVE TO STAIRS FOR WHEEL CHAIR USERS .PEOPLE WITH MOBILITY ISSUES AND PEOPLE WITH PRAMES BICYCLES AND OTHER WHEELED ITEMS.

THE SLOPE OR STEEPNESS OF A RAMP IS THE ANGULAR RELATIONSHIP BETWEEN ITS RISE (VERTICAL HEIGHT) AND ITS HORIZONTAL PROJECTION. THE RISE TO BE SET AT A UNIT OF ONE, A SLOPE OF RATIO 0:12.

A RAMP THAT HAS TOO STEEP A SLOPE WILL PROVE DIFFICULT FOR PEOPLE TO USE AND COULD EVEN BE UNSAFE,WHILST A RAMP WITH TOO SHALLOW A SLOPE CAN REQUIRE EXCESSIVE LENGHT.

EXTERNAL RAMP

EXTERNAL RAMP SUPPORT IN THE FORM OF HAND-RAIL SHOULD BE PROVIDED ON BOTH SIDE OF THE RAMP.THE FRICTIONAL CHARACTERISTICS OF THE RAMP AND LANDING SHOULD BE SIMILAR.

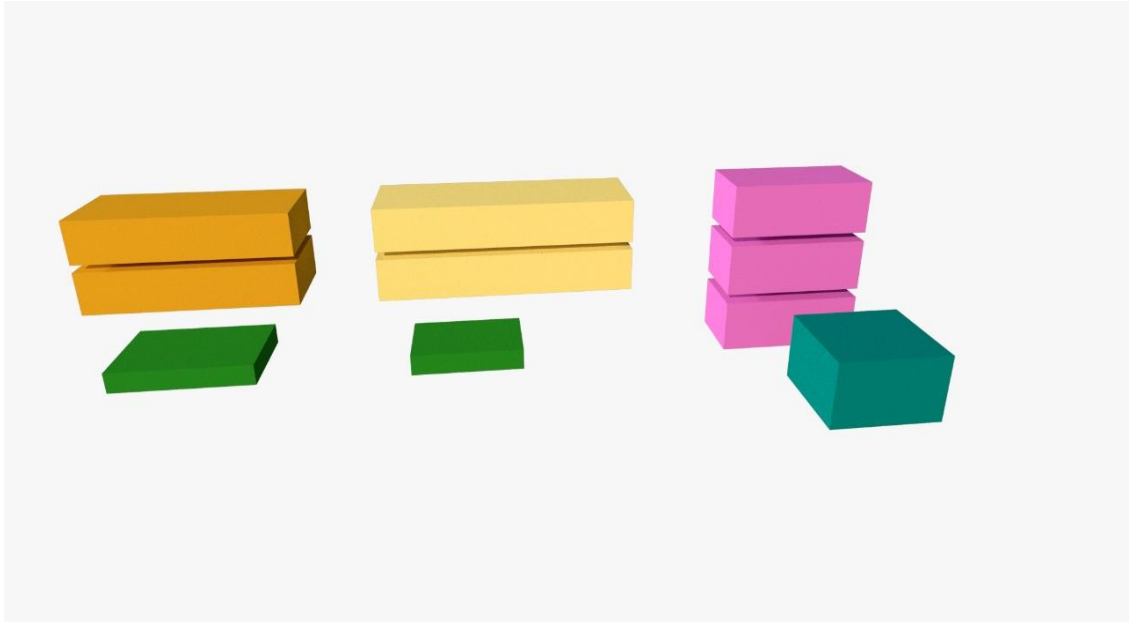
INTERNAL RAMP

THE DESIGN CONSIDERATION FOR INTERNAL RAMP'S ARE THE SAME AS THOSE ABOVE FOR EXTERNAL RAMP'S EXCLUDING ISSUES RELATING TO THE EXTERNAL ENVIRONMENT



STACKING

VERTICAL STACKING

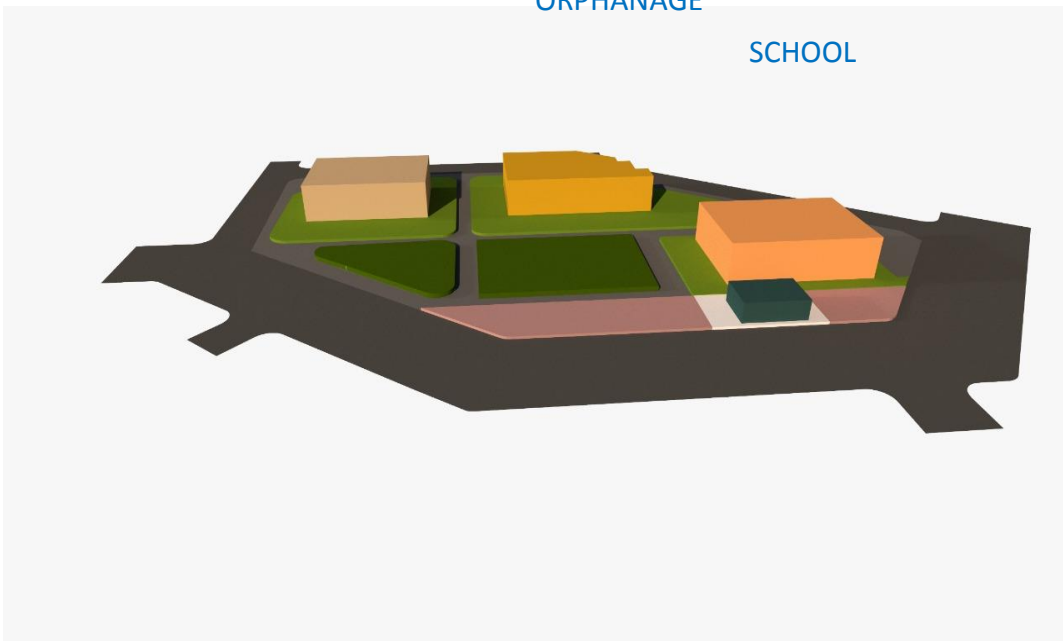


HORIZONTAL STACKING

OLD AGE HOME

ORPHANAGE

SCHOOL



OLD AGE CUM ORPHANAGE HOME
ABHIJEET AWASTHI B.ARCH- 5TH YEAR.

THESIS GUIDE – AR. POOJA VERMA

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 DEVELOPMENT	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		

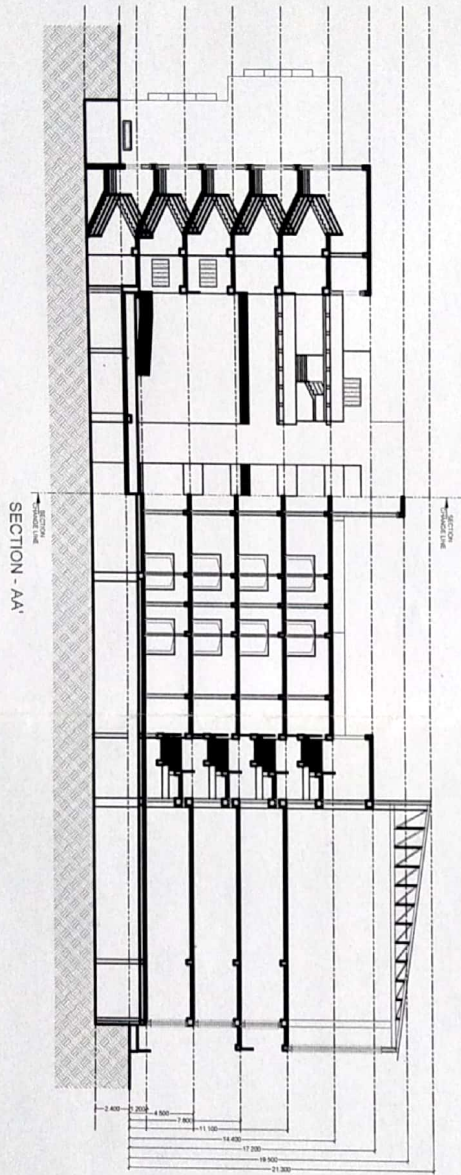
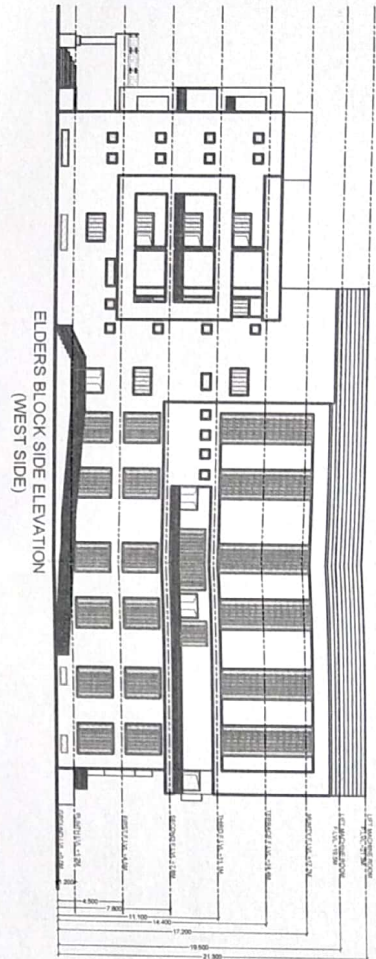
SHOPS	30	(6 N.) 180
RESTURANT	1.8 M2 /PERSON	(150 N.) 200
TOILETS		
CIRCULATION		
TOTAL		

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		

OLD AGE CUM ORPHANAGE HOME

ABHIJEET AWASTHI B.ARCH- 5TH YEAR.

THESIS GUIDE – AR. POOJA VERMA



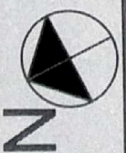
OLD-AGE
CUM
ORPHANAGE
HOME

SHEET
OLD AGE HOME

BBD
UNIVERSITY
LUCKNOW

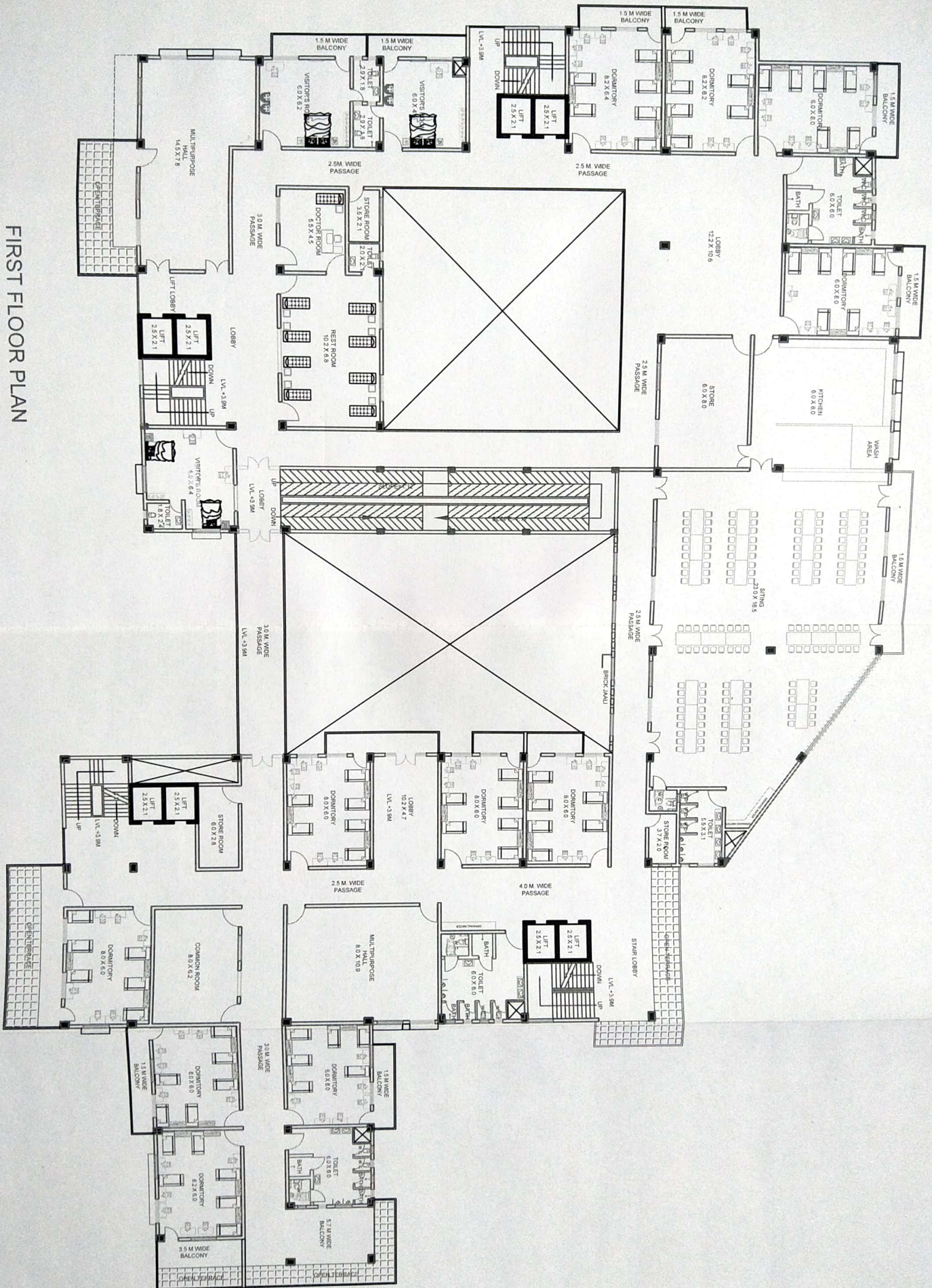
UNDER GUIDANCE OF-
AR. POOJA VERMA

SCALE=1:100



SUBMITTED BY-
ABHIJEET AWASTHI
B.ARCH 10TH SEM.(2019-20)
ROLL NO. - 1140101006

FIRST FLOOR PLAN



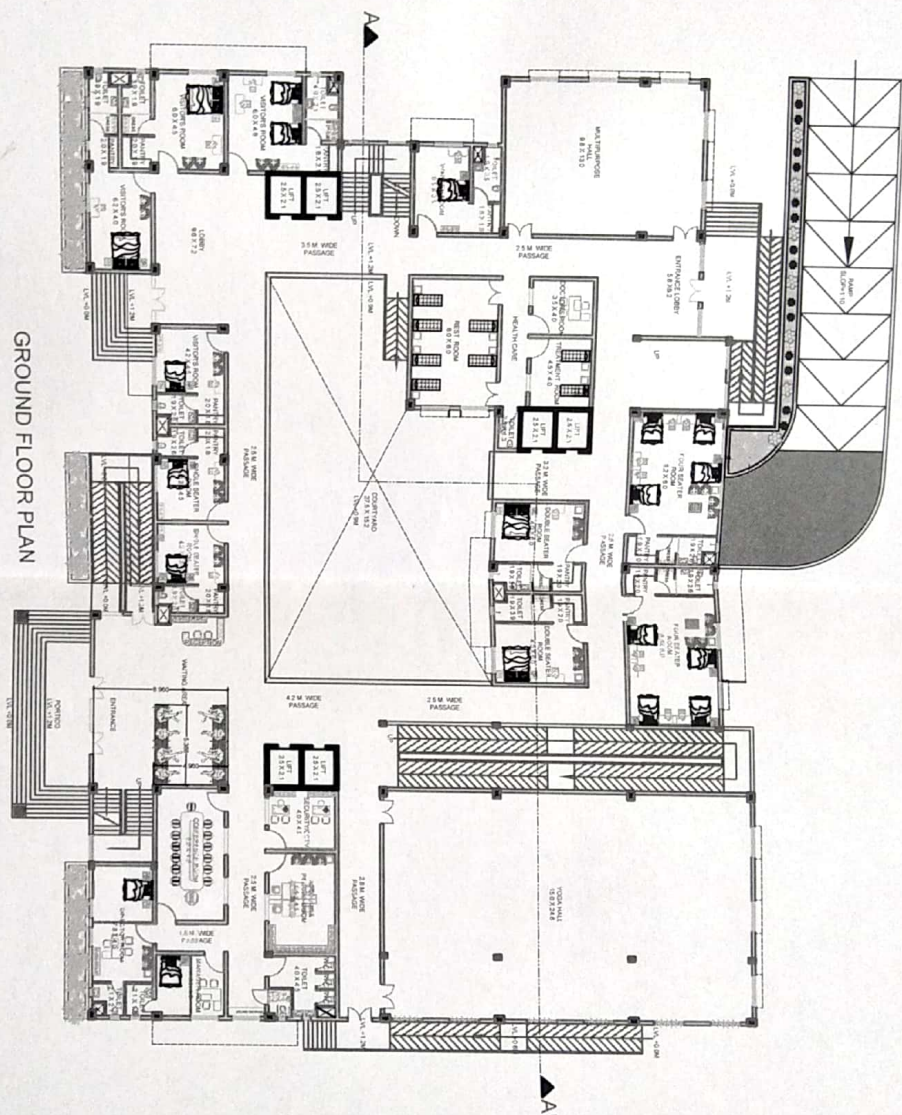
OLD-AGE
CUM
ORPHANAGE
HOME

SHEET
OLD AGE HOME

BBD
UNIVERSITY
LUCKNOW

UNDER GUIDANCE OF-
AR. POOJA VERMA

SCALE=1:100





OLD-AGE
CUM
ORPHANAGE
HOME

SHEET
OLD AGE HOME

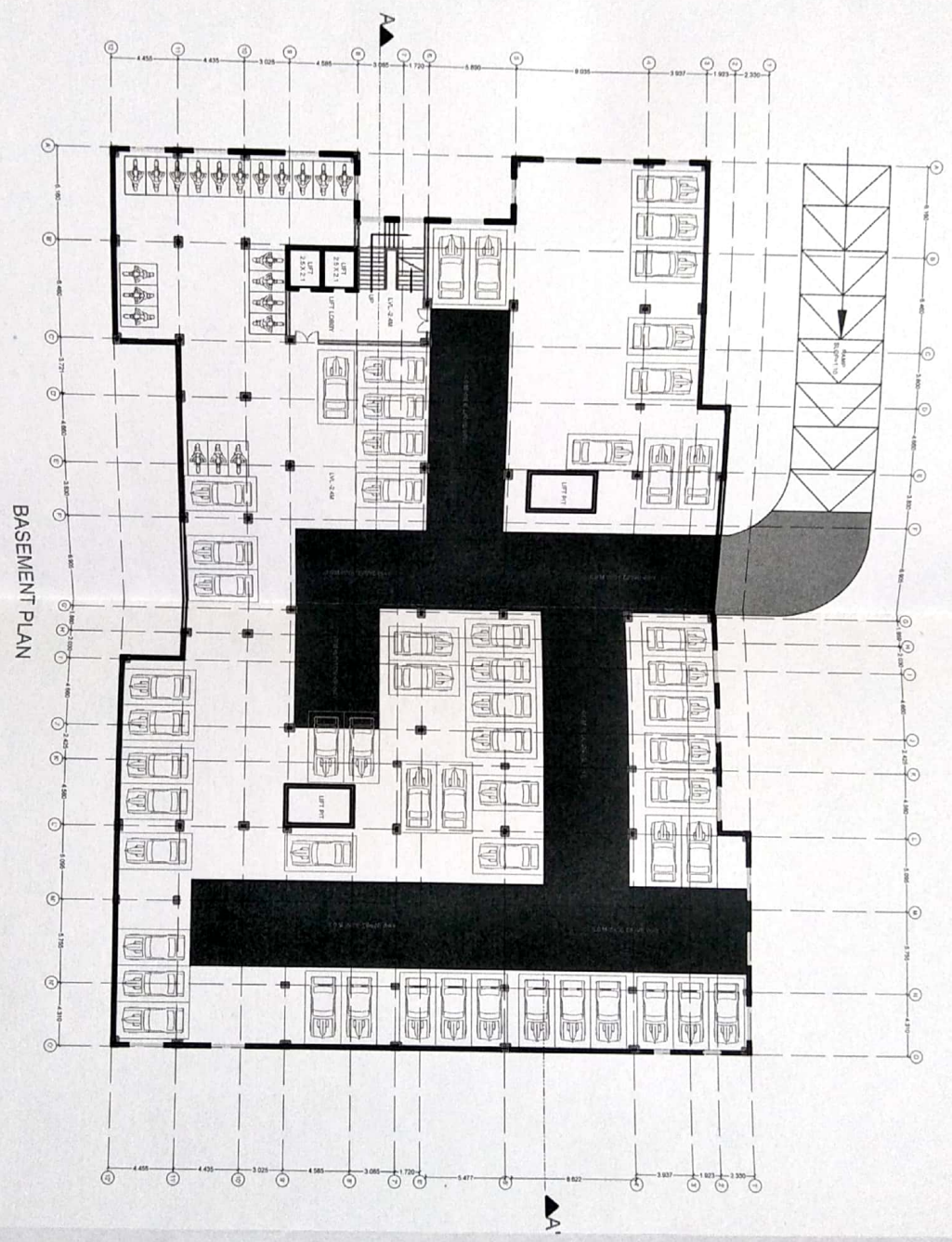
BBD
UNIVERSITY
LUCKNOW

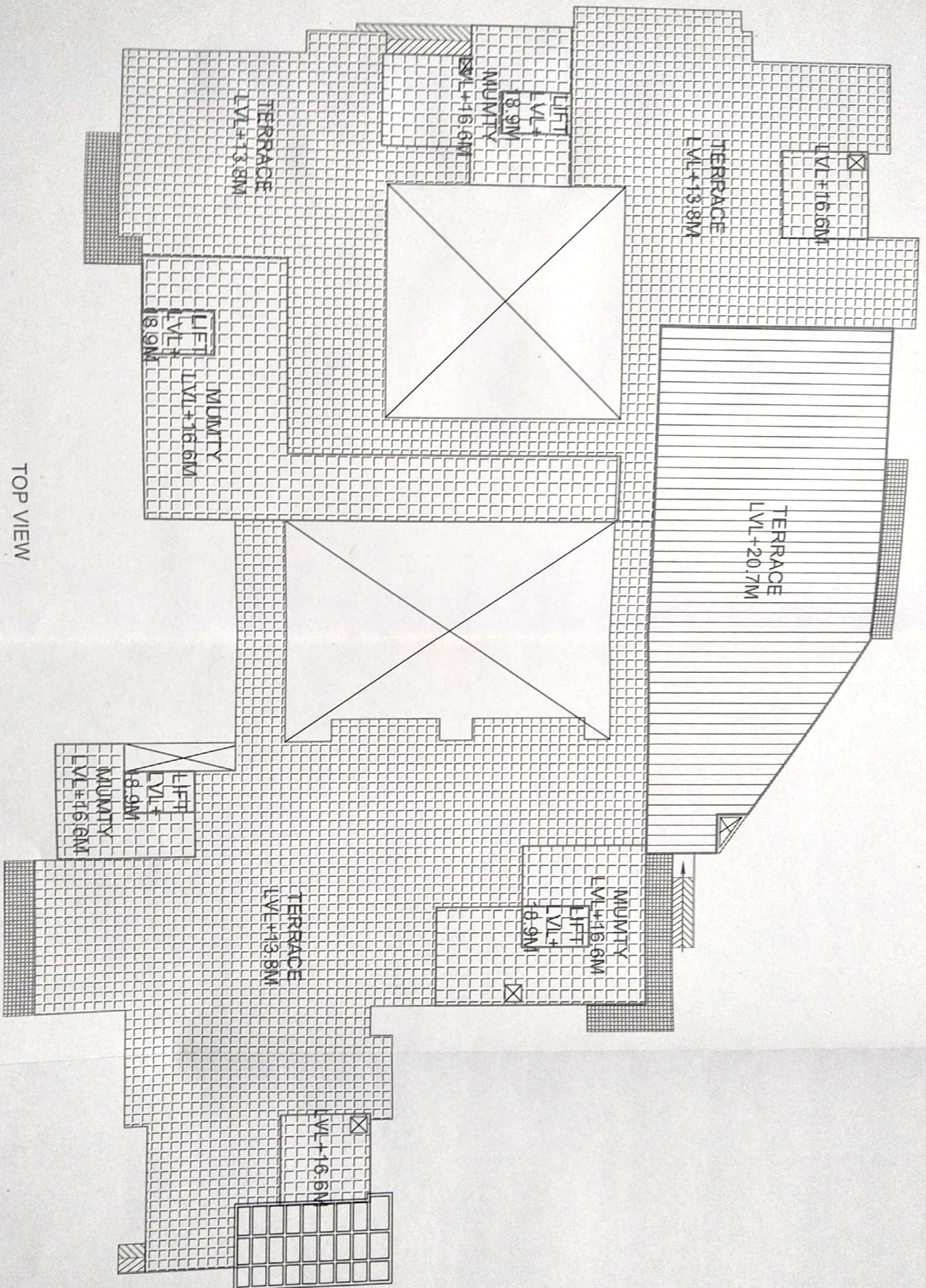
UNDER GUIDANCE OF-
AR. POOJA VERMA

SCALE=1:100



SUBMITTED BY-
ABHIJEET AWASTHI
B.ARCH 10TH SEM.(2019-20)





TOP VIEW

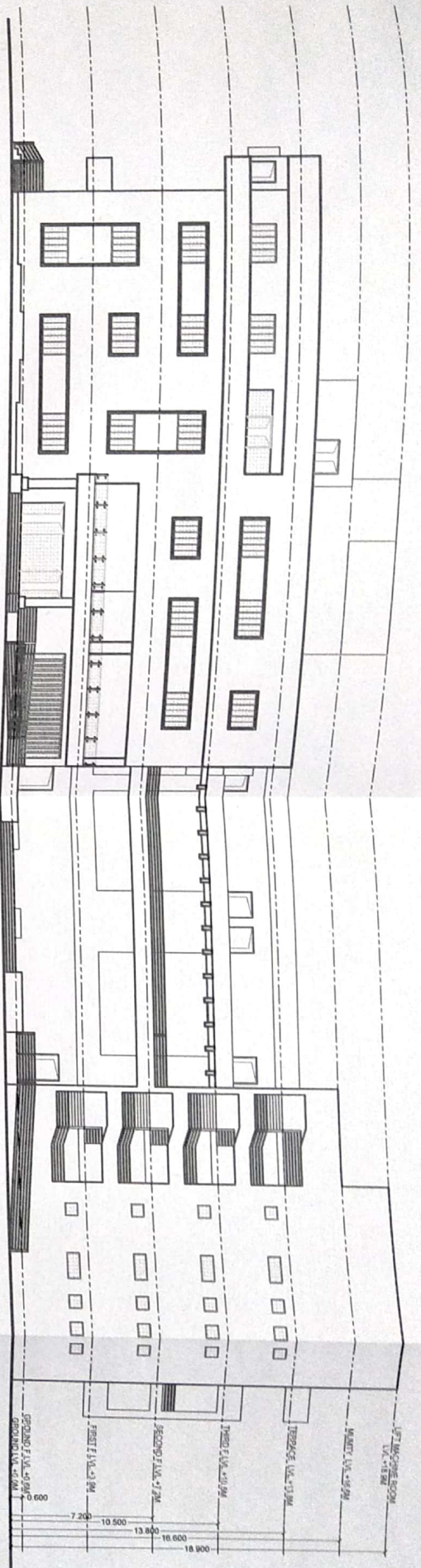
SHEET TITLE -
SCHOOL BLOCK
ELEVATION

BBD
UNIVERSITY
LUCKNOW

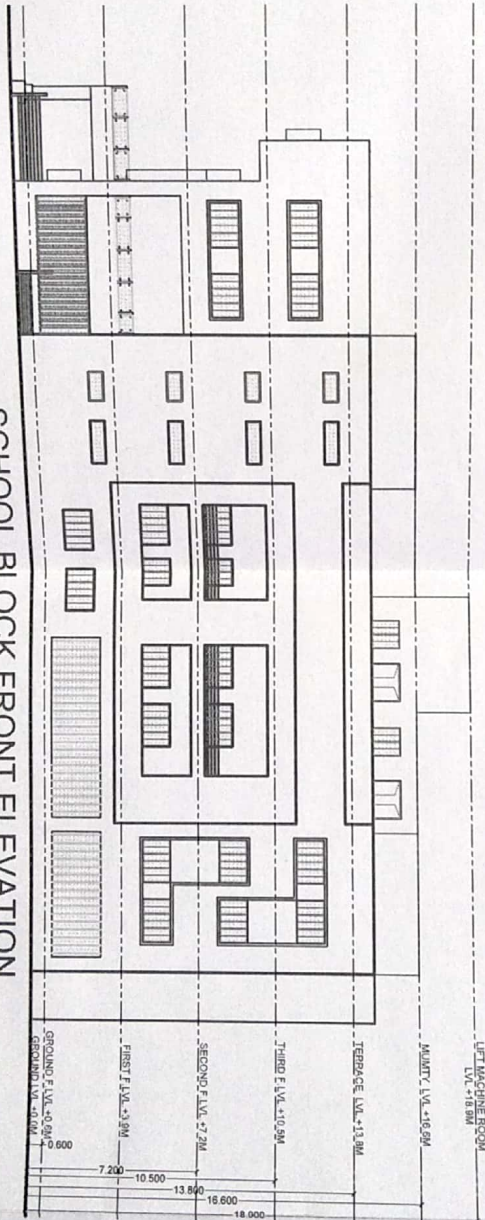
UNDER GUIDANCE OF-
AR. POOJA VERMA

SCALE=1:100





SCHOOL BLOCK FRONT ELEVATION
(SOUTH SIDE)



SCHOOL BLOCK FRONT ELEVATION
(EAST SIDE)

OLD-AGE CUM
ORPHANAGE
HOME

SHEET
TITLE -
SCHOOL
BLOCK
ELEVATION

BBD UNIVERSITY
LUCKNOW

UNDER GUIDANCE OF -
AR. POOJA VERMA

SCALE=1:100



SUBMITTED BY -
ABHIJEET AWASTHI
B ARCH 10TH SEM.(2019-20)
ROLL NO. - 1140101006

OLD-AGE
CUM
ORPHANAGE
HOMAGE

SHEET TITLE -
SCHOOL
BLOCK
FLOOR PLAN

BBD
UNIVERSITY
LUCKNOW

UNDER GUIDANCE OF-
AR. POOJA VERMA

SCALE=1:100

