Topic

Learning Spaces

A DESSERTATION

Submitted in Fulfillment

Of the Requirement for degree

Of

MASTER OF ARCHITECTURE

BY:

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BABU BANARASI DAS UNIVERSITY LUCKNOW

CERTIFICATE

It is certified that the work contained in this thesis entitled " Title of the thesis is Learning Spaces" (SCHOOL) by VAISHALI YADAV (Roll no – 1190109015), for the award of Master of Architecture from Babu Banarasi Das University has been carried out under my/our supervision and that this work has been not been submitted elsewhere for the degree.

Signature

(Name of Supervisor)

(Designation)

(Address)

Date :-

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SYNOPSIS

TITLE

LEARNING SPACES: DISCOVERING THE SPACES FOR THE FUTURE OF LEARNING.

INTRODUCTION

A school is a second home for the children. They are required to spend a considerable time in the classroom. Children have to spend about 80% of their school time in the classroom performing various activities like reading, writing, drawing and other related activities, which requires them to sit continuously for long hours. The sitting position has been found to be the most troublesome situation in connection with low back pain. Mismatches between the dimensions of school furniture and body dimensions might be the reason for the occurrence of discomfort/problems in various body parts of school children. Most of the furniture found in classrooms is not designed or suited to the anthropometric dimensions of the students. It is easy to imagine that pain and discomfort have an impact on the ability of students to focus on learning. Various studies have shown that the ill fitted design of classroom furniture have contributed to the high incidence of musculoskeletal disorders among schoolchildren. Back pain is a significant burden of primary school children. Some studies have highlighted the high prevalence of back pain that exists among school children including bad sitting posture. These exposures may be present in schools due to prolonged flexed postures caused by mismatch between children and school furniture. A greater understanding of the risk factors associated with the onset of spinal pain is important before well targeted preventative action can be taken with the aim of controlling and/or reducing back pain amongst children. In a large number of rural primary schools of West Bengal state (also in other states of India), students are not provided with bench and desk. They sit on the floor for attending the class. They sit on a typical Indian traditional sitting posture, i.e., sitting on the floor with folded legs. Sometimes the children stretch their legs while sitting on the floor. However, in some other schools students use a unit of bench and desk for reading / writing purpose. Children observed sitting in static postures during lessons showed increased levels of upper back pain and neck pain. Sitting in the same posture for a long time causes an extremely undesirable physiological strain and the muscles, the ligaments, and the disc and that the situation is related to pain.

Do not train a child to learn by force or harshness; but direct them to it by what amuses their minds, so that you may be better able to discover with accuracy the peculiar bent of the genius of each."(plato)

In our society we are facing in the contemporary school settings for young children. The humble beginning of the schools were very informal, the students and teachers did not have walls and furniture to define a classroom

MOTIVATION

The traditional education consists of teacher and the student and a "space" when the teacher can give lessons. These spaces might have started as under the tree moving into outdoors classrooms with furniture and then into the enclosed classrooms (four walled space with rows of furniture).

This research is based on envisioning new spaces through story telling. Presented in a series of children books that set-up a mind frame, which helps to better understand the children needs and behaviors.

The aim is to create poetic and haptic spaces through story telling and sculpting in imaginative narratives to help children learn and play in more attuned environments.

OBJECTIVE

The main goal of the project is to design spaces for learning in which students can feel connected and where they can learn. Most of the furniture found in classrooms is not designed or suited to the anthropometric dimensions of the students.

Children observed sitting in static postures during lessons showed increased levels of upper back pain and neck pain. Sitting in the same posture for a long time causes an extremely undesirable physiological strain and the muscles, the ligaments, and the disc and that the situation is related to pain.

I want to resolve the anthropometric dimensions of the students.

RESEARCH WORK/ METHODS/DESCRIPTION

The data will be collected through

Internet

Books

Research papers

Interviews

Questionnaires

LIST OF CASE STUDIES

GD GOENKA PUBIC SCHOOL

CONCLUSIONS

Developing strategies that contribute new ideas to transform learning environment.

Provide interactive learning space.

LIMITATIONS

- They cost too much
  - Net cost comparable to local private schools
  - Extensive use of endowments to retain families
- It can be difficult for a student to adjust to boarding school because he/she has been placed in completely new surroundings with unfamiliar people and circumstances.
- Time spent with family and friends from home becomes limited, which can make the transition seem harder.
- Ragging
  - Boarding schools are infamous for insidious forms of ragging on campus. Boarders with low self-esteem are usually the biggest victims of ragging, bullying or subtler forms of abuse in the absence of parents, they may not know whom to turn to turn for support and relief.

Design Issues

The precedents and building guidelines revealed important issues that can define the design of a new age elementary school in urbanizing areas. While certain issues were radical others were more secondary, but had the ability to enhance the user experience of a school facility.

Radical Issues

Efficient Circulation

Future Expansion and Reuse

Collaborative Learning

Shared Community Facility

Separation of Grades

Small Footprint

Critical Design Issue

Daylighting

Connection to outdoor spaces

Multiple floors

The test program described in the previous chapter has been used to come up with a morphology of school buildings for densely populated contexts. Schemes have been developed keeping each of the secondary issues as the main idea. It is however understood that a school design can be a solution for more than one or even all these issues. In order to study the difference in form and space interactions, only one issue has been undertaken as the core design problem, but all schemes include the radical issues related to sustainable school design.

RESEARCH POINTS :-

The sitting position has been found to be the most troublesome situation in connection with low back pain.

Mismatches between the dimensions of school furniture and body dimensions might be the reason for the occurrence of discomfort/problems in various body parts of school children. Most of the furniture found in classrooms is not designed or suited to the anthropometric dimensions of the students.

CASE STUDY

VIDYA SANSKAR INTERNATIONAL SCHOOL, FARIDABAD

INTRODUCTION

ARCHITECT: C.P. KUKEREJA AND ASSOCIATES , NEW DELHI

FOUNDED: IN 2006

LOCATION: KHERI –JASANA ROAD, GREATER FARIDABAD, HARYANA .

THE CURRENT STUDENT STRENGTH : APPROXIMATELY 1500

CATEGORY: INSTITUTIONAL

VIDYA SANSKAR INTERNATIONAL SCHOOL **FOLLOWS THE CAMBRIDGE INTERNATIONAL CURRICULUM.**

SITE: THE CAMPUS IS SITUATED IN **9 ACRES OF LAND WITH FLAT TERRAIN TOPOGRAPHY.**

ENVIRONMENT AND MICRO CLIMATE

THE CLIMATE OF FARIDABAD IS COMPOSITE TYPE, WITH HOT SUMMERS AND COLD WINTERS.

KEEPING THIS IN MIND EFFORT HAS BEEN MADE TO PROVIDE MAX. CROSS VENTILATION DURING SUMMERS AND PLENTY OF SUNLIGHT DURING WINTERS, WHICH IS ACHIEVED BY COURTYARD PLANNING IN ACADEMIC BLOCK

ORIENTATION:

THE MAIN ENTRANCE TO THE SITE IS NORTH FACING WHILE THE SERVICE ENTRANCE IS FACING THE SOUTH SIDE.

SITE PROFILE

FRONT SETBACK –20 METERS

REAR SETBACK –9 METERS

SIDE 1 SETBACK –9 METERS

SIDE 2 SETBACK –9 METERS

1- ADMINISTRATIVE BLOCK

2- ACADEMIC BLOCK

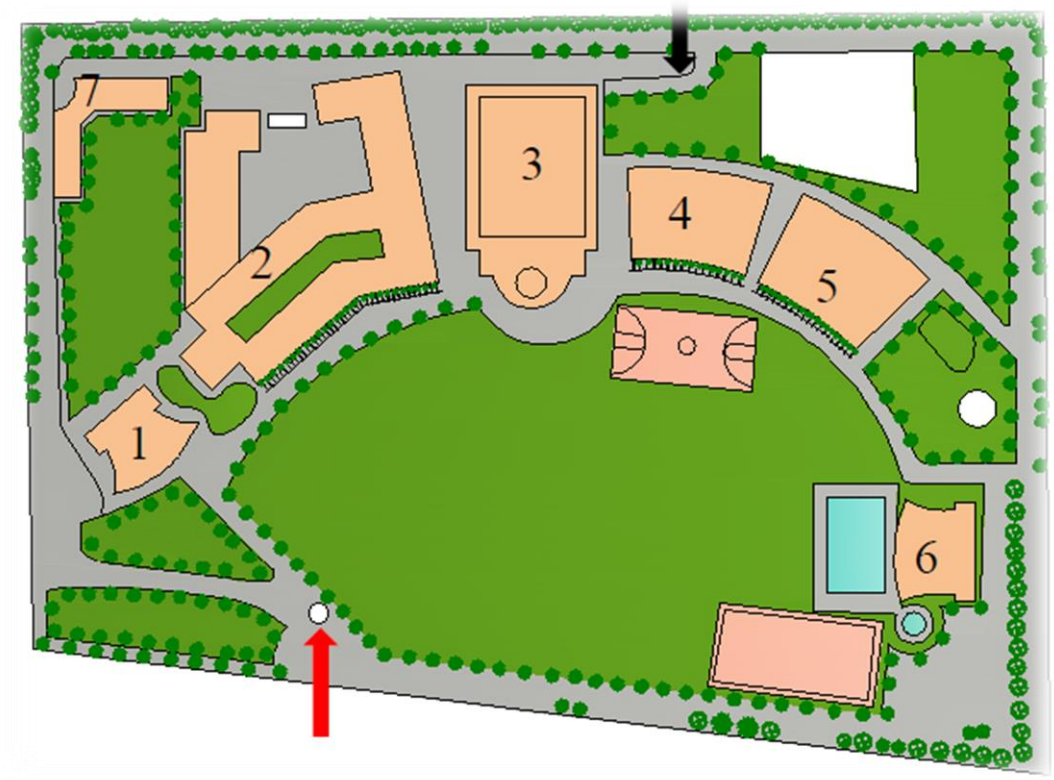
3- DINING AND KITCHEN

4- MULTIPURPOSE HALL

5- BOYS HOSTEL

6- GIRLS HOSTEL

7- SPORTS BLOCK



SITE ACCESIBILITY:

- THE MAIN ENTRY TO THE SITE LEADS TO THE ADMINISTRATIVE BLOCK.
- THERE IS ONE PEDESTRIAN ENTRY AS WELL.
- THE SCHOOL BUILDING IS VISIBLE FROM THE ENTRANCE.
- THE SITE ENTRY GIVES A VERY GRAND FEEL, AND IS WELL LANDSCAPED

PARKING:

- PARKING FOR THE SCHOOL BUSES IS NEXT TO THE MAIN ENTRANCE.
- SEPARATE ENTRY AND EXIT LEADING TO BUS PARKING. IT CATERS TO 8-10 BUSES.
- STAFF PARKING FOR 15-20 CARS IS PROVIDED NEAR THE ENTRANCE NEXT TO THE ADMINISTRATIVE BLOCK. THIS SPACES CATERS TO COVERED PARKING FOR 10 CARS.
- PARKING FOR THE STAFF IS ALSO PROVIDED NEAR THEIR RESIDENCES BACK LANE PARALLEL TO SERVICE LANE SERVICES AS THE PARKING SPACE FOR THE STAFF CARS.
- An open area between two secondary blocks for assemblies of different purpose .

ACADEMIC BLOCK

THE PLANNING OF ACADEMIC BLOCK IS DIVIDED INTO FOUR PARTS:-

•PRE-PRIMARY

•PRIMARY

•MIDDLE

•SECONDARY

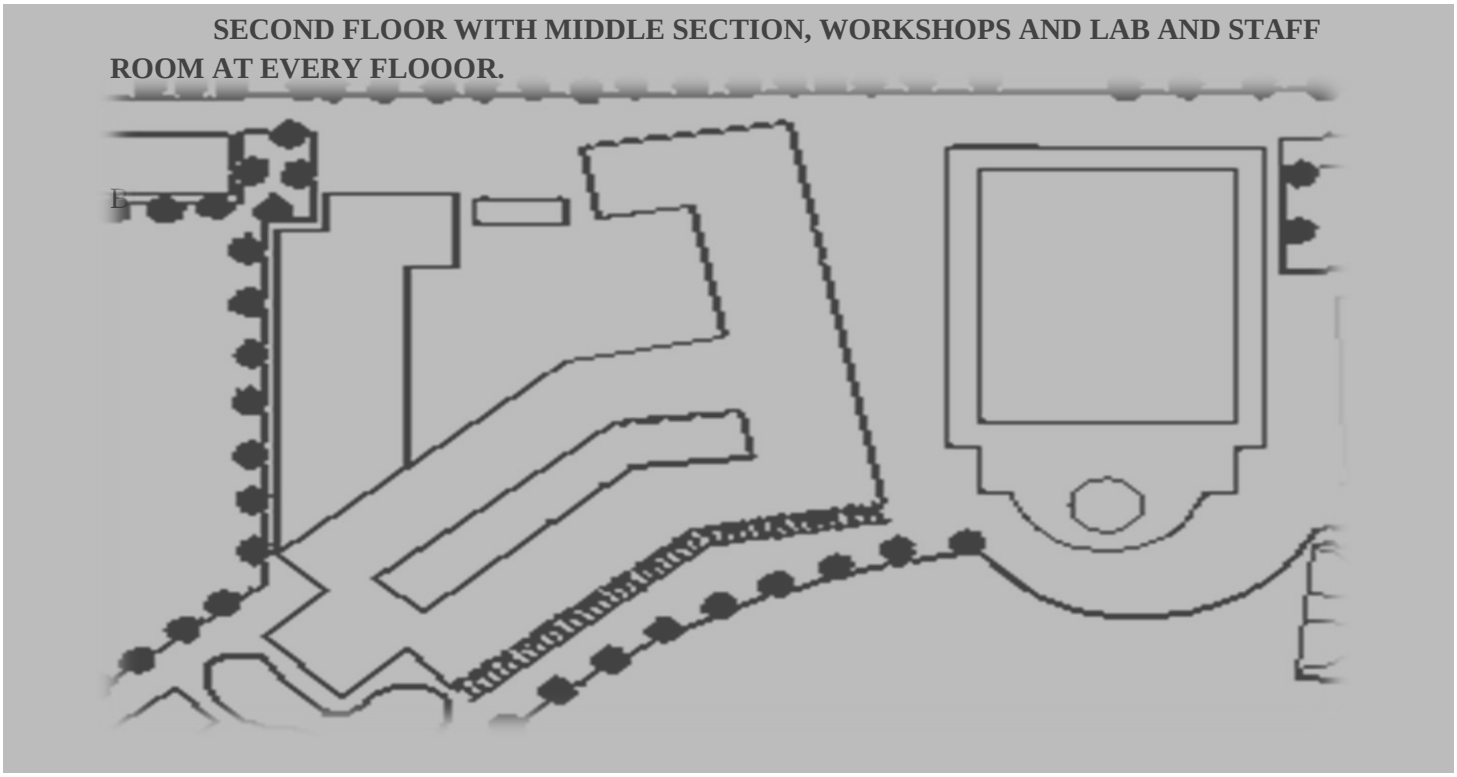
BLOCK- 1: **GROUND FLOOR HAVE THE PRE-PRIMARY**

SECTIONWITH PLAY AREAS IN BETWEEN.

FIRST FLOOR WITH PRIMARY SECTION

WITH LABS AND WORKSHOPS.

SECOND FLOOR WITH MIDDLE SECTION, WORKSHOPS AND LAB AND STAFF ROOM AT EVERY FLOOOR.



UTILITY AND SPACE ENHANCEMENT

SWIMMIMG POOL

TABLE TENIS

CORRIDOR GREEN SPACE IN BETWEEN

RECREATIONAL ZONE:

- THERE IS A GREAT EMPHASIS ON PHYSICAL ACTIVITY AND A VARIETY OF OPPORTUNITIES HAVE BEEN PROVIDED TO THE STUDENTS TO EXCEL IN THEIR AREA OF ABILITY AND INTEREST.
- THE VARIOUS INDOOR AND OUTDOOR SPORTS HAVE BEEN PROVIDED.
- THE STUDENTS CENTRE HOUSES THE VARIOUS INDOOR SPORTS AND A WELL EQUIPPED GYMNASIUM. AROUND IT ARE PLACED THE VARIOUS OUTDOOR SPORTS.
- THE CENTRAL GREEN LAND AT THE ENTRANCE OF THE SCHOOL COVERING A LARGE AREA IS PROVIDED WITH HORSE RIDING SPACE AND CRICKET PITCH.

VARIOUS OUTDOOR FACILITIES:

- 400M RACING TRACK
- HORSE RIDING ARENA
- TENNIS COURT

B-PLAY FIELD WITH RACING TRACK

C. KINDER'S PLAY ZONE

STRUCTURAL DETAILS

- THE STRUCTURES ARE MOSTLY FRAMED G+2 STRUCTURES.

THE CEILING HEIGHT : 4.2 meters

WALL:

- THERE IS A 9" THICK BRICK WALL ON THE OUTSIDE, THEN AN AIR GAP RANGING FROM 4" TO 10" AND THEN A 4.5" OR 9" WALL ON THE INSIDE.

SWIMMING POOL:

- THE SWIMMING POOLS ARE ALSO CONSTRUCTED IN THE LOWER GROUND FLOOR ABOUT 3 METERS BELOW THE GROUND.
- THIS HAS RESULTED IN A SAVING OF ABOUT 210 KW OF LOAD.
- **ROOF:**
- TERRACES ARE OPEN TO THE SUN HEAT AND RADIATE A LOT OF HEAT INSIDE.
- THIS INCREASES THE AIR CONDITIONNING LOAD ON THE TOP FLOOR OF THE BUILDING. HERE AGAIN WE GO THE NATURAL WAY.
- WE LAY THE BRICK BATS OVER THE RCC ROOF FOR INSULATION.

BUILDING SERVICES FIRE ALARM SYSTEM

HVAC

WATER SUPPLY SYSTEM

- SEPARATE HOSTELS FOR BOYS AND GIRLS.
- AIR-CONDITIONED, WELL APPOINTED ROOMS WITH COMFORTABLE BEDS, BUILT-IN DRAWERS, A LOCKER, CUPBOARD AND STUDY DESK
- A COMMON ROOM WITH TELEVISION AND A HOST OF GAMES.
- SUPERVISED INTERNET ACCESS.
- SUPERVISED PREPARATION TIME FOR COMPLETING ASSIGNMENTS AND FOR CLARIFYING DOUBTS.
- ACCESS TO ALL SPORTS FACILITIES.
- HEALTHY AND WHOLESOME DIET SERVING INTERNATIONAL CUISINE

DESIGN DETAILING CONSIDERING THE BARRIER FREE-ENVIRONMENT

PATHWAYS GREEN PHILOSOPHY

- GREEN IS SOMETHING THAT IS VERY CLOSE TO OUR HEARTS. VIDYA TOTALLY BELIEVES IN SUSTAINABLE HABITAT AND TRIES TO DO ITS BIT TOWARDS SECURING THE ENVIRONMENT FOR THE FUTURE.
- ARCHITECTURE WAS SUCH THAT THE BUILDINGS FAIRED VERY GOOD IN TERMS OF INTERNAL CONDITIONS BOTH IN STRONG SUMMERS AND COLD WINTERS
- THERE WERE SIMPLE ARCHITECTURAL TECHNIQUES THAT WERE USED TO REACH THESE KINDS OF CONDITIONS.
- AT VIDYA WE RELY ON THESE SIMPLE ARCHITECTURAL TECHNIQUES TO BUILD A GREEN CAMPUS. GIVEN BELOW ARE SOME OF THE SALIENT FEATURES THAT.

DESIGN & TECHNOLOGY WORKSHOP

- THE DESIGN & TECHNOLOGY LABORATORY AT VIDYA IS VERY WELL EQUIPPED WITH INDUSTRY STANDARD MACHINES AND EQUIPMENTS ENABLING THEM TO PURSUE INDIVIDUAL PROJECTS.

- THE TEACHERS CONSTANTLY GUIDE AND MOTIVATE THE STUDENTS AND HONE THEIR SKILLS TO PERFECTION.

CLASSROOM

CLASSROOM SIZE: 6X7.5= 45SQM.

NO. OF STUDENTS= 30

ACCORDING TO STANDARDS= 52 SQ.M FOR 40 STUDENTS

LABORATORY

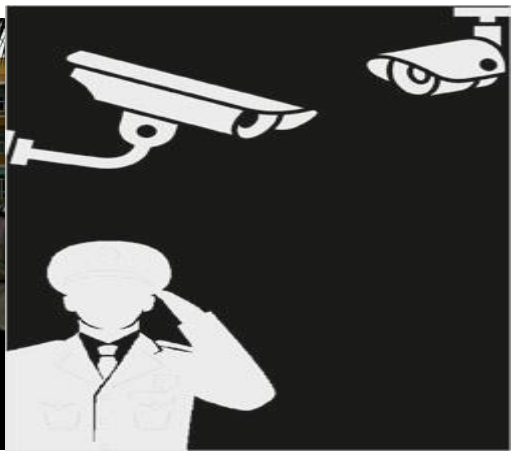
LAB SIZE: 10X10 = 100SQM.
NO. OF STUDENTS=24
ACCORDING TO STANDARDS= 62.8 SQ.M FOR 24 STUDENTS

PLAYGROUND

400M RACING TRACK
HORSE RIDING ARENA
TENNIS COURT
PLAY FIELDS ARE WELL ORIENTED, THUS IT IS VERY COMFORTABLE FOR STUDENTS TO PLAY.

SPRINKLER SYSTEM IN PROJECTER ROOM

FIRE ALARM SYSTEM



CCTV SECURITY SERVICES

CLASSROOM, LIBRARY, MUSIC ROOM, VIEW

PRIMARY CLASS

MIDDLE CLASS

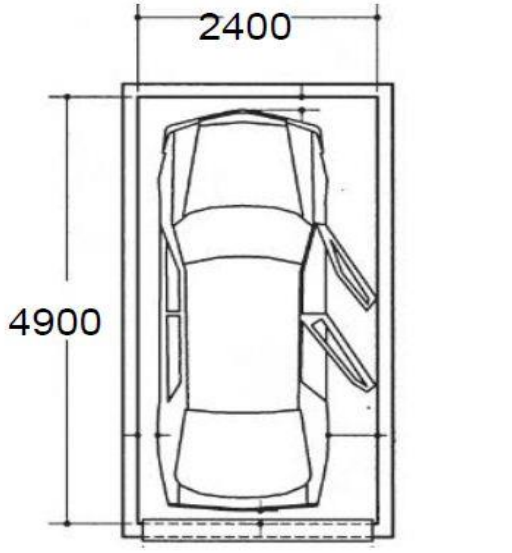
WORKSHOP

PARKING DETAILS

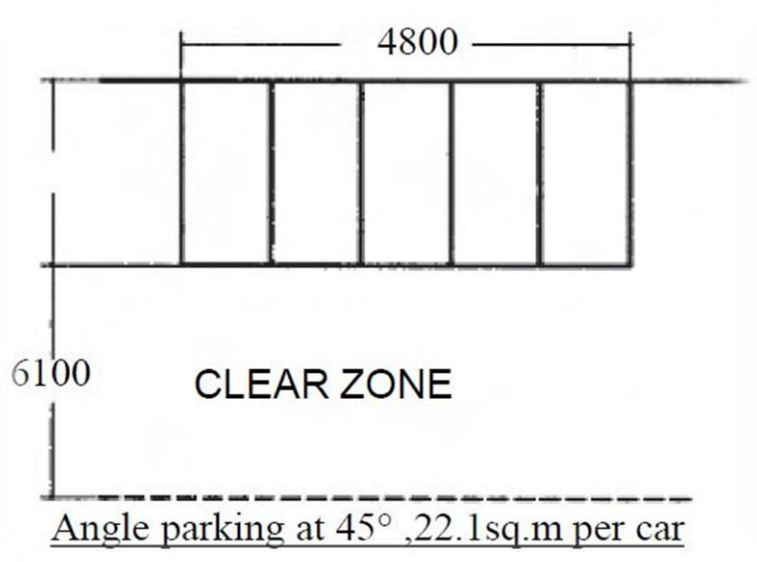
PARKING:

- PARKING FOR THE **SCHOOL BUSES IS NEXT TO THE MAIN**
- **ENTRANCE.**
- SEPARATE ENTRY AND EXIT LEADING TO BUS PARKING. IT CATERS TO **8-10 BUSES.**
- STAFF PARKING FOR **15-20 CARS IS PROVIDED NEAR THE ENTRANCE NEXT**
- **TO THE ADMINISTRATIVE BLOCK. THIS SPACES CATERS TO COVERED PARKING** FOR 10 CARS.
- PARKING FOR THE STAFF IS ALSO PROVIDED NEAR THEIR RESIDENCES BACK
- LANE PARALLEL TO SERVICE LANE SERVICES AS THE PARKING SPACE FOR THE STAFF CARS.

SPACE REQUIRED FOR A BASIC CAR PARKING



Standard car parking space



Angle parking at 45° ,22.1sq.m per car

GENESIS GLOBAL SCHOOL ,NOIDA

INTRODUCTION

ARCHITECT : NOSTRI ARCHITECTS

LOCATION : SECTOR - 132, EXPRESSWAY, NOIDA, UTTAR PRADESH 201304

ABOUT THE SITE

APPROACH :MAIN ROAD TO THE CAMPUS IS 25 M. WIDE ,WHILE THE SERVICE ENTRY IS 8 M. WIDE.

ORIENTATION: THE MAIN ENTRANCE IS **NORTH** FACING WHILE THE SERVICE ENTRANCE IS FACING THE NORTH TO WEST SIDE

SITE AREA: THE CAMPUS IS SITUATED IN **30** ACRES OF LAND.

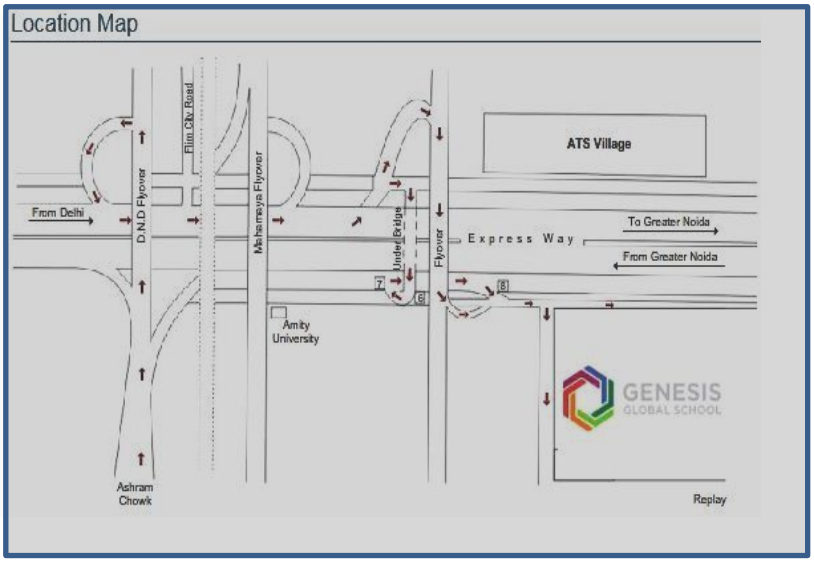
GROUND COVERAGE OF ONLY ABOUT 25%

CLIMATE

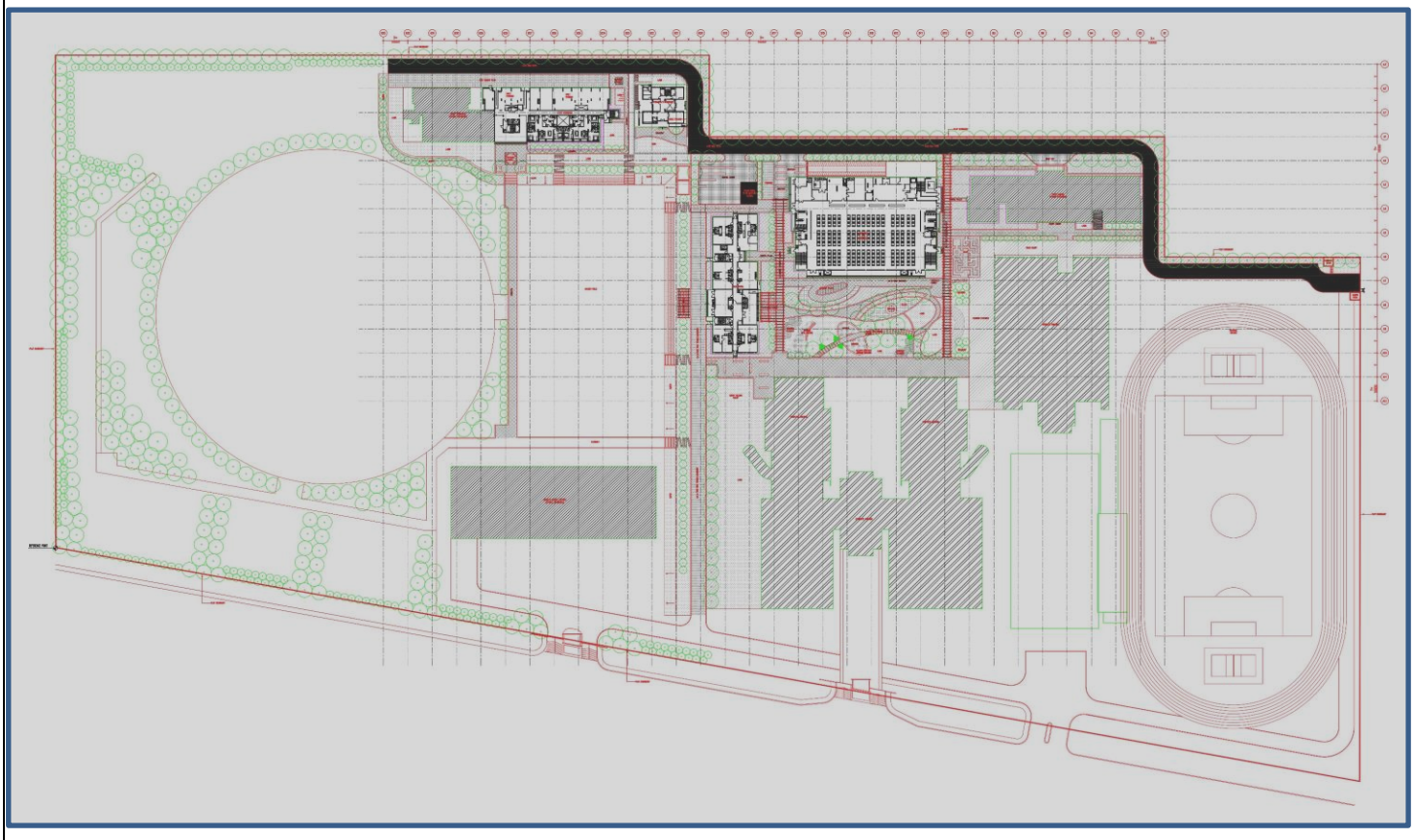
THE TEMPERATURE HERE AVERAGES = 25.2 °C. THE RAINFALL HERE AVERAGES = 728 MM.

TEMPERATURES FALL TO AS LOW AS 3 TO 4 °C AT THE PEAK OF WINTERS.

THE TEMPERATURE RANGES FROM A MAXIMUM OF 48 °C TO A MINIMUM OF 28 °C




GENESIS GLOBAL SCHOOL



SITE PLANNING

FEATURES : THE MAIN ENTRANCE IS NORTH FACING WHILE THE SERVICE ENTRANCE IS FACING THE EAST SIDE SIDE.

SITE ACCESIBILITY : THERE ARE 3 ENTRIES, THERE IS ONE PEDESTRIAN ENTRY AS WELL.THE SCHOOL BUILDING IS VISIBLE FROM THE ENTRANCE THE SITE ENTRY GIVES A VERY GRAND FEEL,AND IS WELL LANDSCAPED.

ABOUT THE SITE : THE SITE HAS A NATURAL SLOPE WHICH HAS BEEN WELL INCORPORATED IN THE LANDSCAPE DESIGN OF THE SCHOOL.

THE MAIN ENTRY TO THE SITE LEADS TO THE ADMINISTRATIVE BLOCK. FORMS THE NUCLEUS OF THE CAMPUS, THE HOSTELS, THE SCHOOL BUILDING AND THE CENTRAL COMPLEX FOR RECREATIONAL AND CULTURAL ACTIVITIES ARE WRAPPED AROUND THIS.

STRUCTURE: THE STRUCTURES ARE MOSTLY FRAMED G+4 STRUCTURES.

SERVICES

THIS BUILDING CONSIST OF FOUR FLOORS BASEMENT = SERVICES (ELECTRICAL, A.C, WI-FI ETC.).

LIFT = BASEMENT TO FOURTH FLOOR.

SWIMMING POOL INFRONT OF MULTI PURPOSE HALL

SITE ZONING

1 RECEPTION

2 ADMINISTRATIVE BLOCK

3 ACADEMIC BLOCK

4 KITCHEN AND DINING

5 GIRL'S HOSTEL

6 BOY'S HOSTEL

7 STAFF RESIDENCE

8 PRINCIPAL'S RESIDENCE

9 DIRECTOR'S RESIDENCE

10 MULTI PURPOSE HALL

11 SWIMMING POOL

12 HOCKEY FIELD

13 CRICKET PAVILION

14 TENNIS AND BASKETBALL LAWN

15 HOURSE RIDE LAWN

16 PARKING FOR STAFF

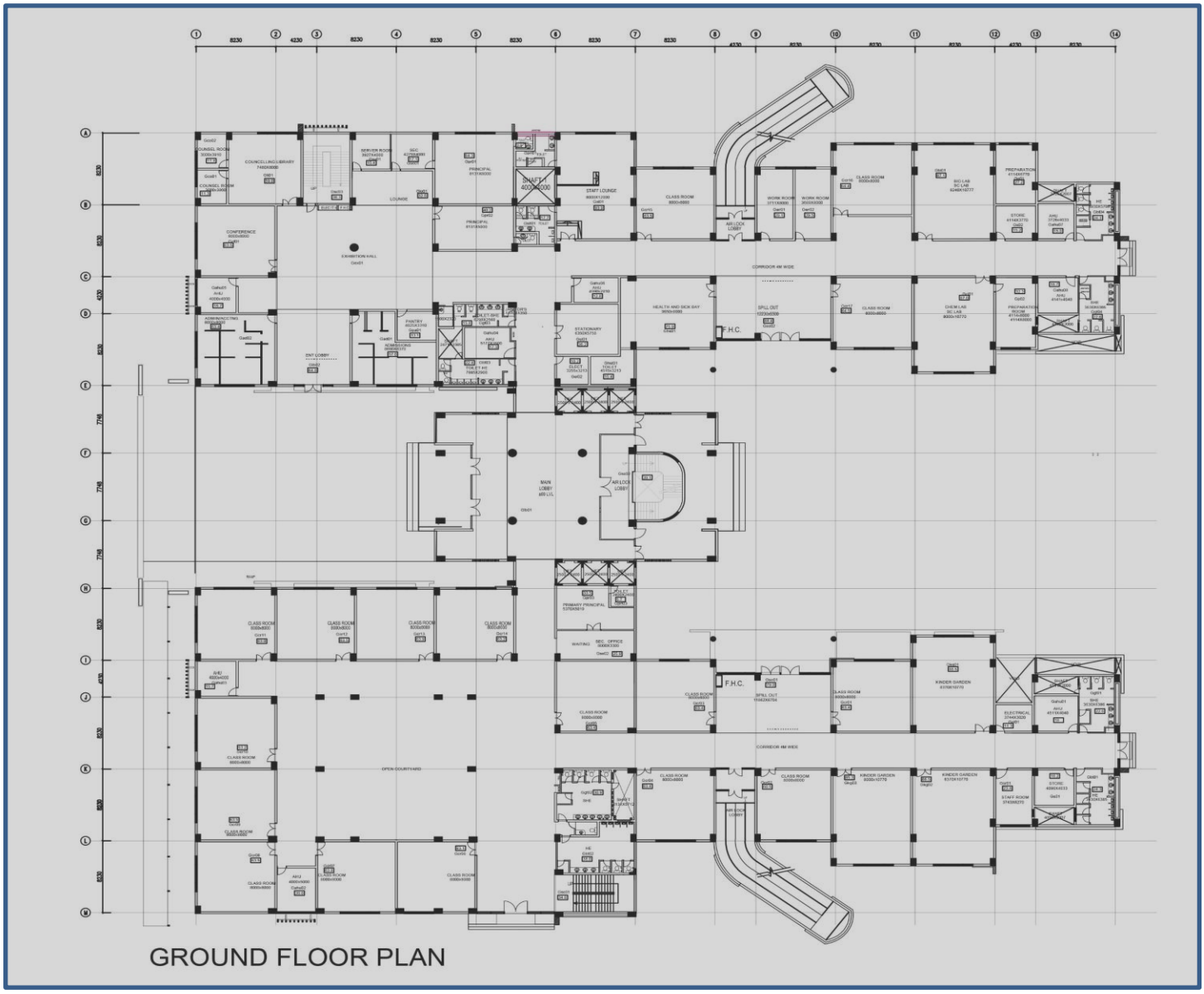
17 BUS PARKING

18 FOOTBALL FIELD

MAIN ENTRY

3D SITE PLAN

FLOORS PLANS OF ACADEMIC BLOCK



SPORTS FACILITIES INCLUDE

OUTDOOR

1-CRICKET PITCH AND PRACTICE NETS

2-SYNTHETIC TENNIS COURTS & BASKETBALL COURTS

3-ATHLETICS

4-HORSE RIDING

5-MINI BASKETBALL & TENNIS COURTS

INDOOR

1-GLASS SQUASH COURTS

2-BADMINTON

3-TABLE TENNIS

4- GYM

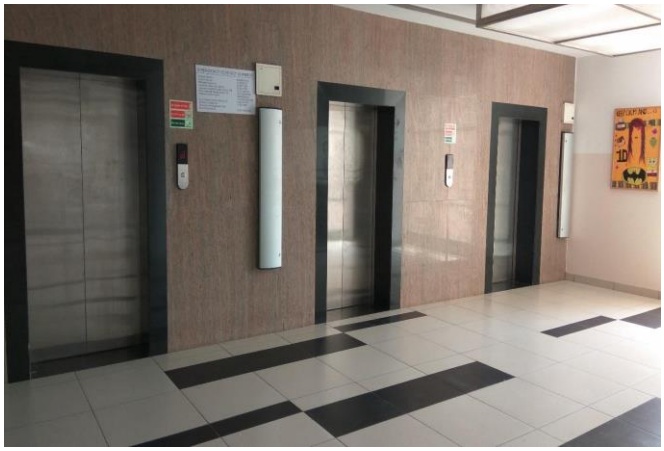
LIBRARY

COMPUTER LAB

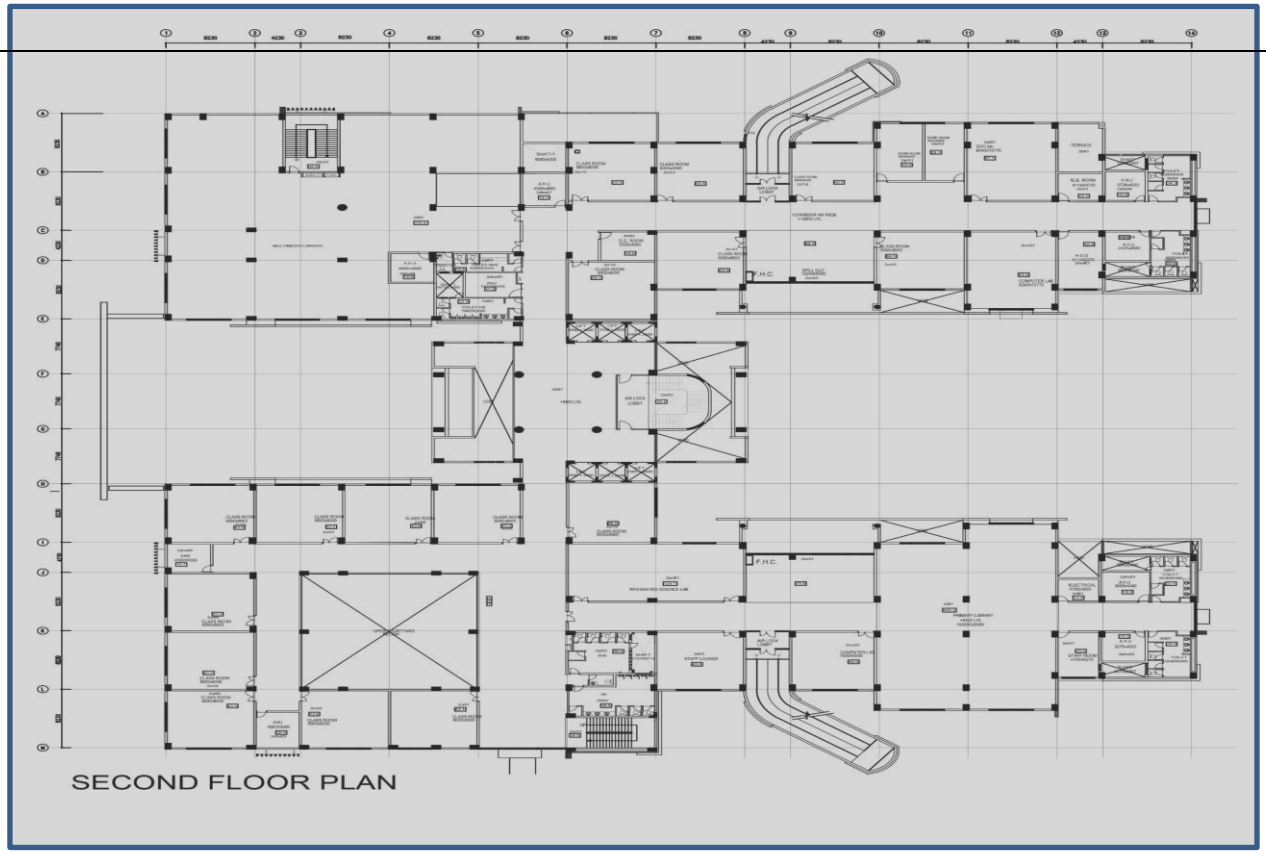
INTERIOR

CLASSROOM

MULTI PURPOSE HALL



LIFT LOBBY



CLASSROOM

CLASSROOM SIZE: 6X8= 48SQM.

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LABORATORY

LAB SIZE: 10X10 = 100SQM.

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PLAYGROUND

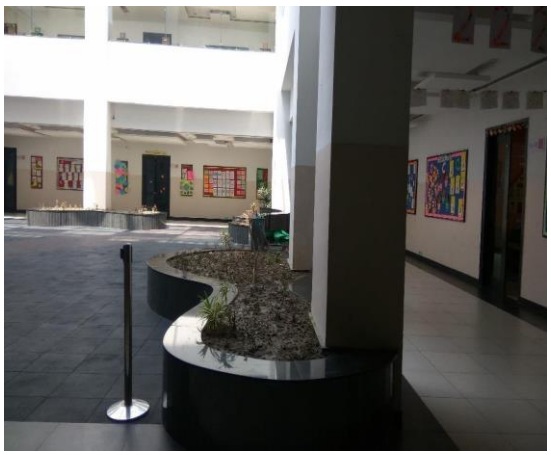
- 400M RACING TRACK
- HORSE RIDING ARENA
- TENNIS COURT
- PLAY FIELDS ARE WELL ORIENTED, THUS IT IS VERY
- COMFORTABLE FOR STUDENTS TO PLAY.

FIELD

PLAYING FIELD WITH RACING TRACK

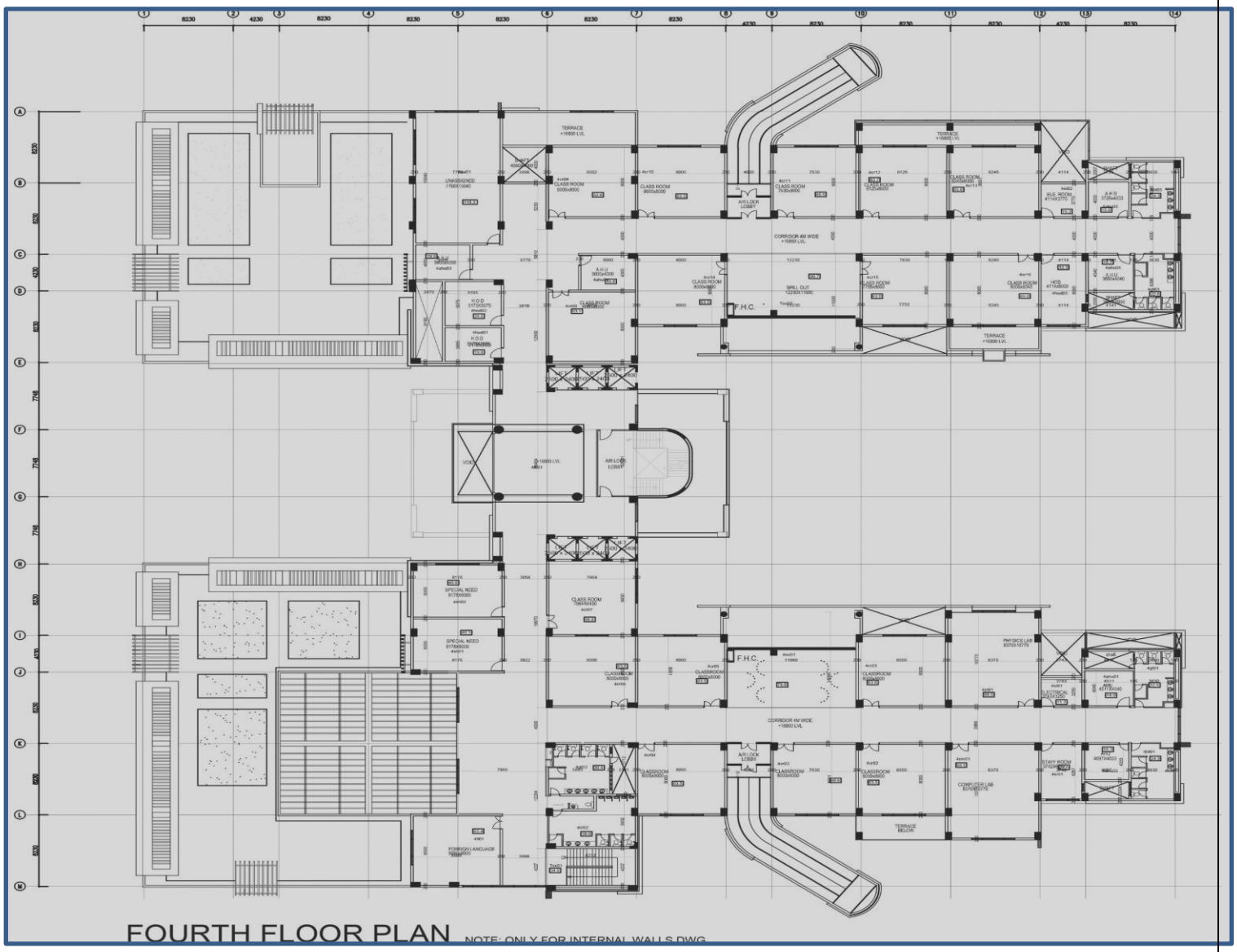
HORSE RIDE FIELD

WAITING AREA



LOBBY

RECEPTION



PARKING

FIRE EXIT

GREEN

PLAY GROUND

SELAQUI INTERNATIONAL SCHOOL,DEHRADUN

INTRODUCTION

- **ARCHITECT:** AR.AMARDEEP SINGH, GURGAON
- **FOUNDED:** IN OCTOBER 2000
- **LOCATION:** CHAKRATA ROAD, DEHRADUN, UTTARAKHAND
- **THE CURRENT STUDENT STRENGTH :** APPROXIMATELY 1300
- **CATEGORY:** CENTRAL BOARD OF SECONDARY EDUCATION (CBSE)
- **SELAQUI INTERNATIONAL SCHOOL:** FOLLOWS THE CENTRAL BOARD OF SECONDARY EDUCATION (CBSE) ESTABLISHED IN THE YEAR 1929 **. INTERNATIONAL** CURRICULUM.
- **SITE:** THE CAMPUS IS SITUATED IN **52 ACRES OF LAND WITH FLAT CONTOUR SITE TOPOGRAPHY.**

USER BEHAVIOR AND REQUIREMENTS

1.MAIN ENTRANCE

2.SERVICE ENTRANCE

3.ACEDAMIC BLOCK

4.AUDITORIUM

5. SQUASH COURT

6. MUSIC ROOM

7. ADMINISTRATION/ LIBRARY

8. AADHARSHILA

9. SCULPTURE ROOM

10. SWIMMING POOL

11. S.T.P

12 .BOYS HOSTEL

13. HOUSE MASTER'S RESIDENCE

14. GIRL'S HOSTEL

15. DINING HALL

16. KITCHEN

17. HEALTH CENTRE

18. UTILITIES

19. FACULTY HOUSING

20. SENIOR FACULTY

21. GUEST HOUSE

22. CHAIRMAN'S RESIDENCE

23. PRINCIPAL'S RESIDENCE

24. ATHLETICS TRACK

25. CRICKET GROUND

26. FOOTBALL GROUND

27. HOCKEY GROUND

28. BASKETBALL COURT

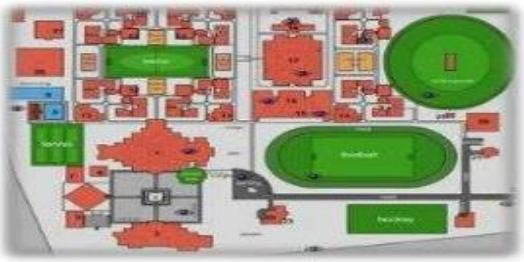
29. VOLLEYBALL COURT

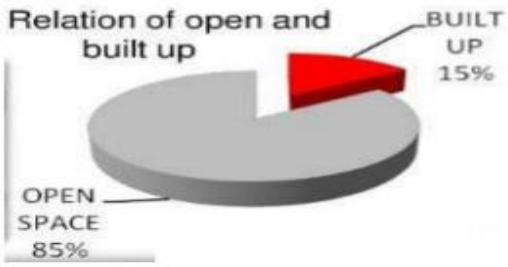
30. TENNIS COURTS

ENVIRONMENT AND MICRO CLIMATE

CLIMATE AND SITE SPECIFICATION

- Summers are hot and temperature ranges between 27-41 degree celcius.
- Winters are more pleasant and may get cold. As the temperature ranges from 5-27 degree celcius.
- Site area : 52 acres
- Architect : Gurgaon based architect Amardeep Singh
- Built up :
  - School building area – 3 acres (5.8%)
  - Facility – 1.3 acres (2.5%)
  - Residential – 3.5 acres (6.7%)
- Open area :
  - Parking and playground – 44.2 acres (86%)





PARKING

- PARKING FOR THE **SCHOOL BUSES IS NEXT TO THE MAIN ENTRANCE.**
- SEPARATE ENTRY AND EXIT LEADING TO BUS PARKING.
- IT CATERS TO **8-10 BUSES.**
- PARKING FOR THE STAFF IS PROVIDED NEAR THEIR RESIDENCES.BACKLANE
- PARALLEL TO SERVICE LANE SERVICES AS THE PARKING SPACE FOR THE STAFF
- CARS.
- STAFF PARKING FOR **15-20 CARS IS PROVIDED NEAR THE ENTRANCE NEXT TO THE ADMINISTRATIVE** THIS SPACES CATERS TO COVERED PARKING FOR 10 CARS.

UTILITY AND SPACE ENHANCEMENT

CLASSROOM

CANTEEN

PARKING

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- PARALLEL TO SERVICE LANE SERVICES AS THE PARKING SPACE FOR THE STAFF
- CARS.
- STAFF PARKING FOR **15-20 CARS IS PROVIDED NEAR THE ENTRANCE NEXT TO THE ADMINISTRATIVE** THIS SPACES CATERS TO COVERED PARKING FOR 10 CARS.