BUDDHIST HERMITAGE:A HUB FOR CULTURAL,

SPIRITIUAL AND EDUCATIONAL RENAISSANCE

A Thesis Submitted in Partial Fulfillment for the Requirements for the Degree of

BACHELOR OF ARCHITECTURE

in

Field of specialization(ARCHITECTURE)

by

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Under the guidance of

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to the

School of Architecture

BABU BANARASI DAS UNIVERSITY,

LUCKNOW

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ACKNOWLEDGEMENT

The journey which started 5 years ago has culminated....as I step into the world a series of people flash in my memory without whose support and good will this journey wouldn't have been easy and free flowing.....

To start with. First and foremost gratitude towards almighty GOD for his blessings. Then I would like to thank all my faculty members who have supported and guided me all these memorable 5 years.

I would like to thank my thesis guide **AR.URVASHI TIWARI** who has been extremely co-operative since the very beginning and who helped me to utilize my skills and creativity to the utmost...

Last but not the least all friends and love one who give their all kind of support and **Concern,Collegues**- Sandeep,Vineet,Kaushlendra.

I have put in my best of efforts and worked day and night to make this project a success .hope u too will appreciate my endeavour.....

I wish to dedicate this work to my love ones.....Who are always their in my heart.

BABU BANARASI DAS UNIVER CERTIFICATE OF THESIS SUBMISSION	•		
1. Name :DIKSHA SINGH			
2. Roll No :1150101026			
3. Thesis title:BUDDHIST HERMITAGE:A HU CULTURAL,SPIRITUAL AND EDUCATION RENAISSANCE.	_		
4. Degree for which the thesis is submitted:BACHELC ARCHITECTURE	OR OF		
5. Faculty of the University to which the thesis is submit	ted		
6. Thesis Preparation Guide was referred to for preparing	the thesis.	YES	NO 🗌
7. Specifications regarding thesis format have been closely	y followed.	YES	NO 🗌
8. The contents of the thesis have been organized based or guidelines.	1 the	YES	NO 🗌
9. The thesis has been prepared without resorting to plagia	rism.	YES	NO 🗌
10. All sources used have been cited appropriately.		YES	NO
11. The thesis has not been submitted elsewhere for a degr	ree.	YES	NO
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Signature(s) of the Guide AR. URVASHI TIWARI BBDU, Lucknow.	Name	e of the Car e: DIKSHA II No. 1150	SINGH

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INTRODUCTION

BUDDHISM

A path which ultimately culminates in Enlightenment or Buddhahood. An enlightened being sees the nature of reality absolutely clearly, lives fully and naturally in accordance with that vision. This is the goal buddhist spiritual life, representing the end of suffering for anyone who attains it.

BUDDHISM INCLUDES ANALYSIS OF HUMAN PSYCHOLOGY, EMOTIONS, BEHAVIOUR AND MOTIVATION.

Buddhism has the potential for transformation, healing and existential meaning.

EIGHT FOLD PATH



The basic tenets of Buddhist teaching are straightforward and practical:nothing is fixed or permanent; actions have consequences; change is possible. So Buddhism addresses itself to all people irrespective of race, nationality, caste, sexuality, or gender. It teaches practical methods which enable people to realise and use its

teachings in order to transform their experience, to be fully responsible for their lives.

RELIGIOUS AND CULTURAL HERITAGE

<u>LUMBINI</u>

BIRTH PLACE OF (GAUTAM BUDDHA), SITUATED IN NEPAL.

BODHGAYA

BODH GAYA IS A VILLAGE IN THE NORTHEAST INDIAN STATE OF BIHAR WHERE BUDDHA REALIZED ENLIGHTMENT

<u>SARNATH</u>

SARNATH IS A PLACE LOCATED 10 KILOMETRES NORTH-EAST OF VARANASI NEAR THE CONFLUENCE OF THE GANGES AND THE VARUNA RIVERS IN UTTAR PRADESH, INDIA. IT IS WHERE BUDDHA DELIVERED FIRST SERMEN.

KUSHINAGAR

KUSHINAGAR IS A PILGRIMAGE TOWN IN THE KUSHINAGAR DISTRICT OF THE INDIAN STATE OF UTTAR PRADESH. BUDDHA ATTAINED PARINIRVANA HERE.

OVERVIEW

- Buddhist hermitage will have spaces that will be a hub for almost each activity associated with the culture.
 Buddhist teachings to be spread across. The purpose is not just to meditate or pray but is to provide shelter for the monks and tourists. to provide a space where people can naturally be treated.
- Buddhism not only about worshipping but the teaching the thoughts of Gautam buddha,His preachings, Culture focus on the knowledge of ethics, norms, traditions etc.
- It plays a very important role in the development of the culture; both inter connected with each other.
 Education teaches about the social and cultural values.





NEED OF THE TOPIC

- With fast growing technology and development of cities, it is hard to find spiritual satisfaction.to pursue and explore healing it is important to create a hub where a person can achieve mental peace.
- Also, with this hard pace of life and addiction to faster living, people are ignoring the culture and ancient art.in order to study details and teach people the culture it becomes important to create a centre that combines each and every aspects necessary.
- To study Buddhist architecture
- To study in detail the disciplined lifestyle of monks.
- conserve values of ancient languages

Why Sanskrit with Buddhism?

- Sanskrit being the most ancient language was widely used since Vedic period. Many major languages spoken today have some or the other association with Sanskrit.at a time is the most important language. Buddhist language pali is also associated with Sanskrit. Even Nalanda which is known Buddhist monastery in Bihar has major focus to teach Sanskrit also.
- An institutional centre is built to re-establish the language and more people become aware of the language.

<u>AIM</u>

- To design a Buddhist Monastery, that will function as a centre for religious work & meditation, a centre for Buddhist learning and a residence for the monks.
- Environment for monks and tourist
- To enhance the Buddhist culture and conserve it
- Peace
- To educate people the values of Buddhism & Sanskrit.
- space for meditation
- enhancing Ayurveda and various treatment process

OBJECTIVE

- To acquaint people regarding Buddhism .
- Provide space for various yoga competiitions.
- Promote local economy through their own tradition and crafts.
- To create holistic environment that restore and maintain the equilibrium between mind and the body.
- To promote the value of Sanskrit language and educate people about the ancient language.
- To understand and study the philosophy of Buddhism and Buddhist Architecture and incorporate them in the design of the building and the spaces- both open and closed.



HISTORY & BACKGROUND

- The history of Buddhism spans from the 6th century BCE to the present. Buddhism arose in the eastern part of Ancient India, in and around the ancient Kingdom of Magadha (now in Bihar, India), and is based on the teachings of Siddhartha Gautama. This makes it one of the oldest religions practiced today.
- Sanskrit is an Old Indo-Aryan language. It traces its linguistic ancestry to the Proto-Indo-Aryan language, Proto-Indo-Iranian and the Proto-Indo-European languages. Sanskrit is traceable to the 2nd millennium BCE in a form known as Vedic Sanskrit, with the Rigveda as the earliest-known composition. It was probably the texts that make of the Rigveda, which is a collection of Hindu hymns that dates back to ancient times. Though there isn't a large body of evidence to support this, but even though Vedic Sanskrit was a purely spoken language, complete memorization in order for proper pronunciation was crucial, so we can safely say that the written accounts we have now were most likely the same as the ones then.
- Sanskrit being the oldest language that was in the vogue from the Vedic period. The language pali that Buddhist people speak or have adopted.
- Sanskrit, which is considered an Indo-Aryan language, was the liturgical language of Jainism, Hinduism, and Buddhism. Pali is considered a Prakrit language or a middle Indo-Aryan language.

SCOPE & LIMITATIONS

- A place to give immense scope to many lost souls who desperately need to come out kind of stress, anxiety or feel low in their life.
- Sanskrit being the most ancient language will be taught which will help to enhance the old culture.
- Yoga and meditation is important in our everyday life.it strengthens our physical and mental ower.
- Disciplined lifestyle maintained.
- The design consists of various therapy treatment along with landscaping such as herbal gardens. The design will include detoxification centre and methadone clinic.

- The centre will be traditionally Buddhist hub that will also cater Sanskrit and yoga studies along with buddha's ideology.
- Providing quality education to improve and upgrade inner happiness rather tha mer external materialistic comfort or happiness.taking universal responsibility and seeking lasting happiness through imparting the education of buddhist view of interdependent organization and non-voilence practise.



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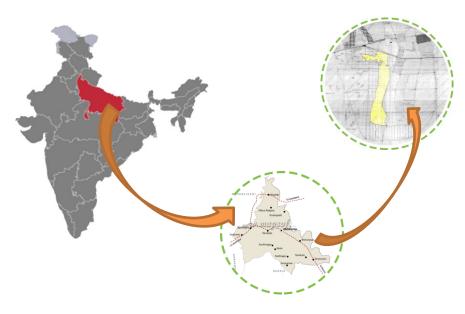
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SITE STUDY

ABOUT CITY

- Kushinagar is a pilgrimage town in the kushinagar district of the india state uttar Pradesh.
- It is the buddhist pilgrimage site where Gautam buddha attained parinirvana after his death.
- It is an international buddhiat pilgrimage center.
- The followers of buddhist, especially from Asian countries, wish to visit this place at least once in their lifeline.



- Kushinagar is a town and a historical place located in the north-eastern marginal area of Uttar Pradesh.
- The name "Kasia Bazar" has been changed to Kushinagar and after that "Kasia Bazar" has officially become a municipality with the name "Kushinagar".
- This is a Buddhist pilgrimage where Gautam Buddha had Mahaparinirvana. Kushinagar is located **on National Highway 28**, **about 50 km east of Gorakhpur**. There are many beautiful Buddhist temples here. For this reason, it is also an international tourist destination where Buddhists pilgrims from all over the world come for excursions. After the Kushinagar town and eastwards, **Bihar state starts about 20 km**.

RELIGIOUS AND CULTURAL HERITAGE



KUSHINAGAR IS ONE OF THE MAIN PLACES AMOUNG BUDDHIST CIRCUIT

SITE APPROACH

SITE DETAIL

- CLIENT: MAITREYA BUDDHA PROJECT
- LOCATION: KUSHINAGAR, NATIONAL HIGHWAY 28.NEAR RAMABHAR STUPA
- **<u>SITEAREA</u>**:247ACRES
- <u>SHAPE</u>-IRREGULAR
- **<u>TOPOGRAPHY</u>**: THE SITE IS FLAT LAND
- SITE FEATURES: RAMABHAR STUPA WHICH IS ARCHELOGICAL SITE AND UNDERTAKEN BY ASI, WHOSE BOUNDARY IS ADJACENT TO THE SITE.

SITE CO.ORDINATES

LATTITUDE : 26 46'74"N LONGITUDE : 83 51'55"E

THE MAIN APPROACH ROAD IS NATIONAL HIGHWAY 28 AND AROUND THE SITE,WITHIN 3KMS LIES: buddha pg college hotels shops restaurents hospitals atm petrol pump

BYELAWS

KUSHINAGAR SPECIAL AREA DEVELOPMENT AUTHORITY(KSADA)

- F.A.R: 1
- GROUND COVERAGE: 40%
- LANDUSE: PUBLIC BUILDING
- GROUND COVERAGE:30%
- PARKING:2E.C.S PER 100 SQ.MSETBACKS
- FRONT: 6M
- BACK: 3M
- REAR 1: 3M
- REAR 2: 3M
- BUILDING HEIGHT:10.5M











SITE APPROACH

SITE DETAIL



Site is near to Ramabhar stupa and temples.

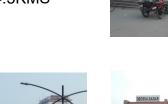


MAHAYOGI GORAKHNTH AIRPORT:45.7KMS KUSHINAGAR AIRPORT(under constructed):6 KMS

- PADRAUNA Railway Station : 23.8KMS
- DEORIA Railway Station :36.6KMS
- GORAKHPUR Railway Station :54.5KMS

















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SITE IMAGES



NORTH SIDE





SOUTH SIDE



EAST SIDE

WEST SIDE

ON SITE CONDITION

ROAD

- THE MAIN ROAD CALLED GORAKHPUR NH-28 IS
- THE ACESS ROAD IS 24M WIDE.

SOIL

- THE SOIL PRESENT IS CLAY SOIL.
- BEARING CAPACITY: 10 T/SQM
- THEY ARE BEST FOR FARMING THAN SANDY SOILS.

TOPOGRAPHY

 THE SITE IS FLAT LAND, JUST LIKE THE SURROUNDING AGRICULTURE LANDS, AND NEED NOT TO BE REFILL.

VEGETATION:

- THE VEGETATION COMPRISES OF GRASS WEEDS, SMALL BUSHES ETC.
- TREES LIKE BAMBOO, TEAK, EUKALYPTUS ARE PRESENT ON SITE.
- THE SURROUNDING AGRICULTURE LANDS ARE WHEAT FIELDS AND MUSTARD.

TRAFFIC MOVEMENT

IN KUSHINAGAR: NORMAL DAYS- 1000 TO 2000 PEOPLE BUDH PURNIMA- 1 LAKH TO 4 LAKH PEOPLE.

WATER BODIES

HIRANYAVATI RIVER IS PRESENT ON THE SITE .



NH-28



SOIL TYPE



VEGETATION



WATER BODY

SERVICES

WATER SUPPLY

- WATER IS SUPPLIED BY THE BORE WELLS AT 120 FT.
- 1 NO SUBMERSIBLE PUMPS 24 HRS WATER SUPPLY
- WATER PROVIDED BY NAGAR PALIKA.

SEWAGE

- NO PROVISION OF SEWAGE LINE THERE.
- THE AREA IS NOT CONNECTED TO A SEWERAGE NETWORK.
- SEWAGE IS DUMPED INTO HIRANYA RIVER.

DRAINAGE SYSTEM

- OUTFALL IS IN A TRADITIONAL TANK SYSTEM WITH GOOD CONDITION.
- MANHOLES ARE SELF BUILT WHICH DIRECTLY CONNECTS TO GROUNDS.

ELECTRICITY

- ELECTRICITY CONNECTION IS AVAILABLE AT THE SITE SUPPLIED BY U.P. ELECTRICITY BOARD.
- 2 NO.OF TRANSFORMER ARE FOUND AT THE BACK SIDE OF THE SITE.
- LOW TENSION LINES RUNS ALONG THE FRONT OF THE SITE I.E.33KV LINE)NORTH-SOUTH DIRECTION.

TELEPHONE CONNECTIVITY

- THE AREA HAS ACCESS TO TELEPHONE NETWORK SERVICES.
- MOBILE TOWER WERE FOUND WHILE WAY TO KUSHINAGAR

CLIMATE

IN KUSHINAGAR

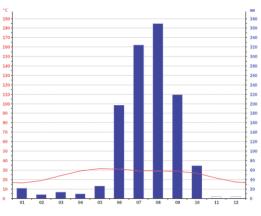
Kushinagar lies on 202m above sea level In Kushinaga, the climate is warm and temperate. There is significant rainfall throughout the year in Kushinagar. Even the driest month still has a lot of rainfall.

RAINFALL -

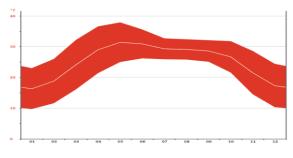
The driest month is april, there is 4 mm of precipitation in april. most precipitation fall in july, with an average of 285 mm. the precipitation varies 281 mm between the driest month and the wettest month. the average annual rainfall is 976 mm.

TEMPERATURE-

With an average of 32.6'C, june is tge warmest month.In January, the average temperature is 14,6'c. It is the lowest average temperature of the whole year. The average temperature vary during the year by 18.0'c.



PRECIPITATION GRAPH



TEMPERATURE GRAPH

<u>HUMIDITY</u>

In the monsoon and the post monsoon season 4 the relative humidity is high, being above 70% 3 thereafter the humidity decreases 20% to 40% 4 and in the summer air is very dry. The average 6 humidity is 67%.

5 4 3 1 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

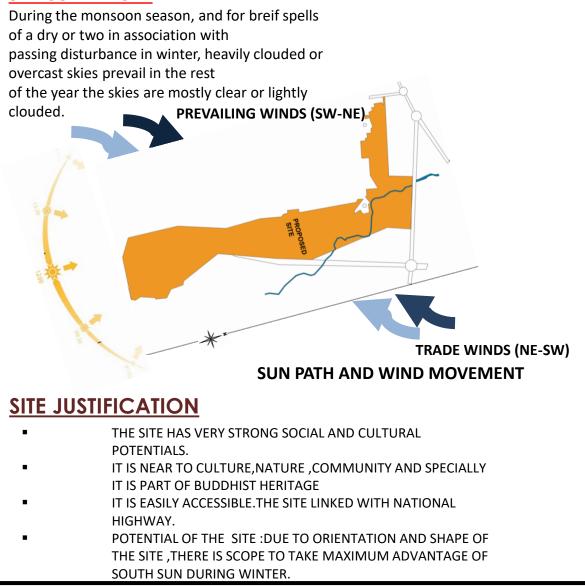
HUMIDITY GRAPH

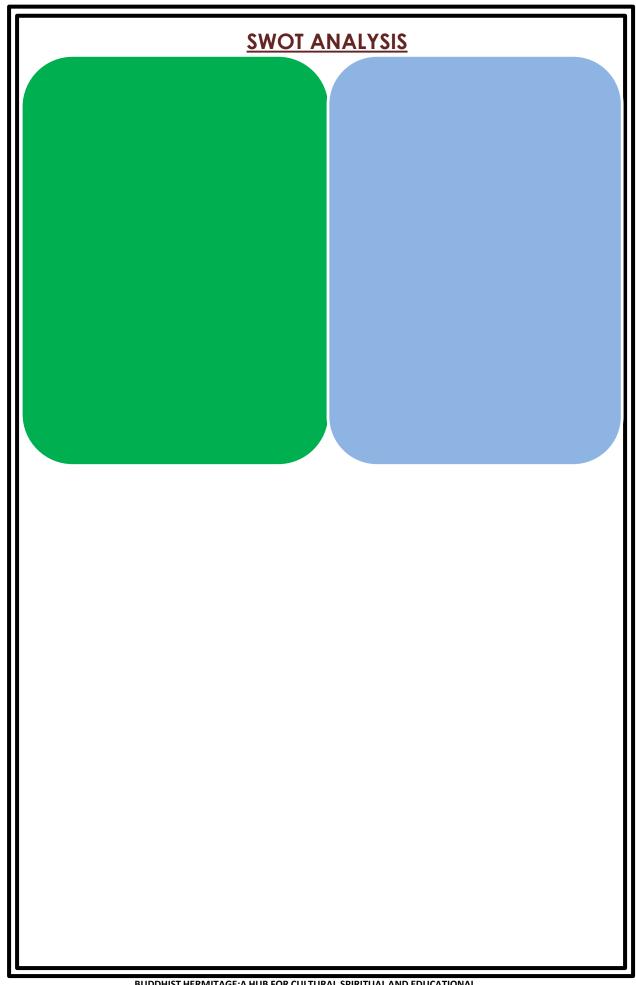
WIND SPEED

Winds are in general very high with a slight increase in force the late summer and monsoon season, the mean annual wind blow 5.1 kmph, and form many years the direction of prevailing winds is feom north-east to south-west direction. A south westerly wind blow air from the south-west to north-east.



SKY CONDITION-





LITERATURE STUDY

NALANDA MAHAVIHARA

NALANDA: THE GIVER OF KNOWLEDGE

"Nalanda was a Mahavihara, or a large Buddhist monastery situated in the ancient kingdom of Magadh."

OVERVIEW

It was the first residential university of the world. The monasteries here are built on the Kushan style of architecture. There is a large courtyard that is surrounded by cells where the monks lived. Nalanda was destroyed by Muslim invaders in the 12th century.

10,000 monks and 1,500 teachers once inhabited Nalanda in 108 monasteries, each has rooms (single or double occupancy, with wooden doors back then) lining four sides of a courtyard, a main entrance on one side, and a shrine facing the entrance in the courtyard. A row of larger shrines, or stupas, in brick and plaster, stand in front of the monasteries. other common features of which include a podium for lectures, a communal brick oven, a bathroom, a water well (often with octagonal cross-section, supposedly inspired by the Eightfold Path).

, when the site was surveyed and preliminary excavations were conducted by the Archaeological Survey of India. Systematic excavations commenced in 1915, which unearthed eleven monasteries and six brick temples neatly arranged on grounds 12 hectares (30 acres) in area. A trove of sculptures, coins, seals, and inscriptions have also been discovered in the ruins, many of which are on display in the Nalanda Archaeological Museum, situated nearby. Nalanda is now a notable tourist destination, and a part of the Buddhist tourism circuit.

Strength of Nalanda's course of studies was the ecumenical approach to knowledge. It was basically a Buddhist center for study and contemplation. But it also served the greater educational needs by providing basic education in grammar, poetics, logic and epistemology, medicine, arts, religious and political philosophy. It had a faculty and student body in excess of 10,000





APPROACH

 95 kilometres (59 mi) southeast of Patna near the town of Bihar Sharif



Nalanda has a good network of roads, which connect it with other major cities of the state including of Patna, Bodhgaya, Rajgir, Delhi, Kolkata



Nearest railway station is Bakhtiyarpur 38 Kms.

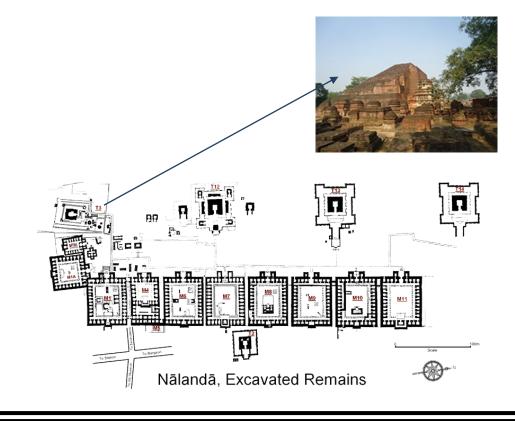


Nearest airport is Patna 93 kms.

The layout and architecture of Nalanda

It was basically a Buddhist center for study and contemplation. The most imposing structure of all is <u>Temple no. 3</u> or <u>the Temple of</u> <u>Sariputra.</u> This temple was constructed in seven phases. Unlike other temples, this temple faces north. This temple is surrounded by several votive stupas and minor shrines probably added by devotees at a later stage.

<u>A thirty metre wide passage runs from north to south of the ruins.</u> <u>The temples (chaityas) are arranged to the west of this passage .</u> <u>And to its east, you will find lined up the remains of monasteries</u> <u>(viharas).</u>



A GLANCE AT NALANDA UNIVERSITY RUINS

The whole complex of Nalanda University was protected around by the thick walls of red bricks varying in their height. It is believed that the whole University campus is spread across over 15,000,000 square meters and only 10% of which has been excavated while rest of the ruins still lie earthen under the ground.

The classroom system at Nalanda university:

There were around 10000 students and 2000 teachers in the university. The curricula of the university offered the study of abstract knowledge like <u>Philosophy</u>, religion, <u>Buddhism</u> and <u>scientific</u> thoughts in <u>astronomy</u>, <u>mathematics</u>, <u>anatomy etc</u>. in each classroom, there used to be hundreds of students and they were not allowed to go outside until the lecture was over.

To add to their facility, even a well was there in most of the classroom to quench the thirst of the students if they were thirsty. There were around 8 colleges with tens of classrooms.





A classroom of Nalanda University: Teacher sat on the dash and students on the ground

Dormitory of the students:

Nalanda University was the first of its kind which was a boarding university in the true sense. The whole boarding system was divided into three layers or floors of the dormitory. New students lived in the basement, middle-level students at the ground and dormitory captain and more experienced students at the top floor. There was a stairway system to connect the floors. There were as many as 300 rooms.



Students dormitory and floors



Teachers lived among the students in the monasteries, common features of which include a podium for lectures, a communal brick oven, bathrooms, and a water well (<u>often with octagonal cross-section</u>, <u>supposedly inspired</u> <u>by the Eightfold Path</u>). Where the floors were not made of brick or stone, they were periodically daubed with dried cow-dung mixed with straw, providing a cleaner, firmer surface than mud, termite repulsion, and cheap thermal insulation. Water clocks guided daily routines and gongs were used to signal the start and end of events, services, and ceremonies.

All the monasteries at Nalanda have a similar layout and appearance. A shrine chamber strategically is placed at the entrance of each monastery. This ensures that one sees the shrine as one enters the edifice. The monasteries are rectangular with a central quadrangular court. This is surrounded by a verandah which, in turn, is bounded by an outer row of cells for the monks to stay.





STUDENT RESIDENCES IN NALANDA

Ventilation system at the dormitory:

There were no proper windows. However, fresh air and sunlight were ensured by the ventilation system at the dormitory was an opening. These openings where wide and inclined in nature to allow the air and sunlight to come in through.









Ventilation system (The inclined wall near the stairway)

Drainage system:

The drainage system was also hierarchical in nature. There was the main drainage system which carried the water of the whole settlement then there was smaller drainage which was from households. This drainage system was more or less inspired by the Harappan culture. The bigger drains were seated deeper in the earth while the smaller drains were shallow. so that smaller drainage could flush in the bigger and dipper seated drainage.



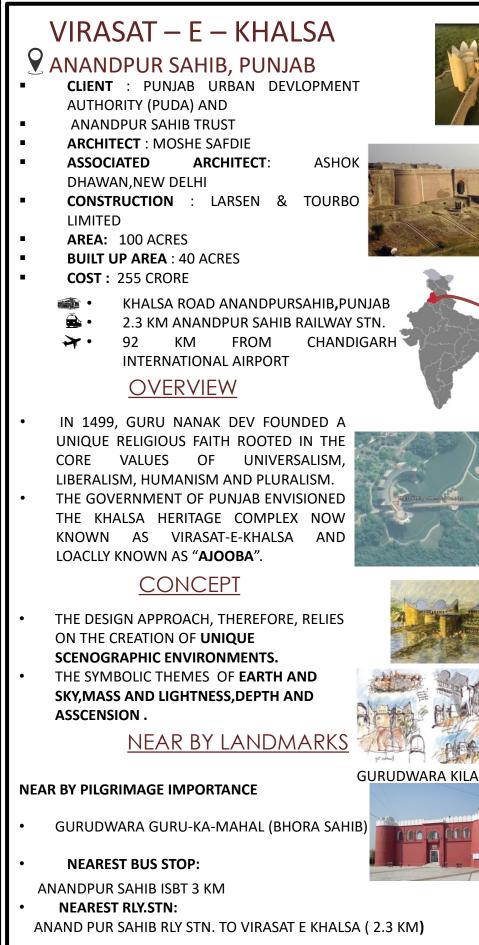
OCTAGONAL WELL



Drainage system and Markings of the bricks on the drainage wall



UNIVERSITY CORRIDOR









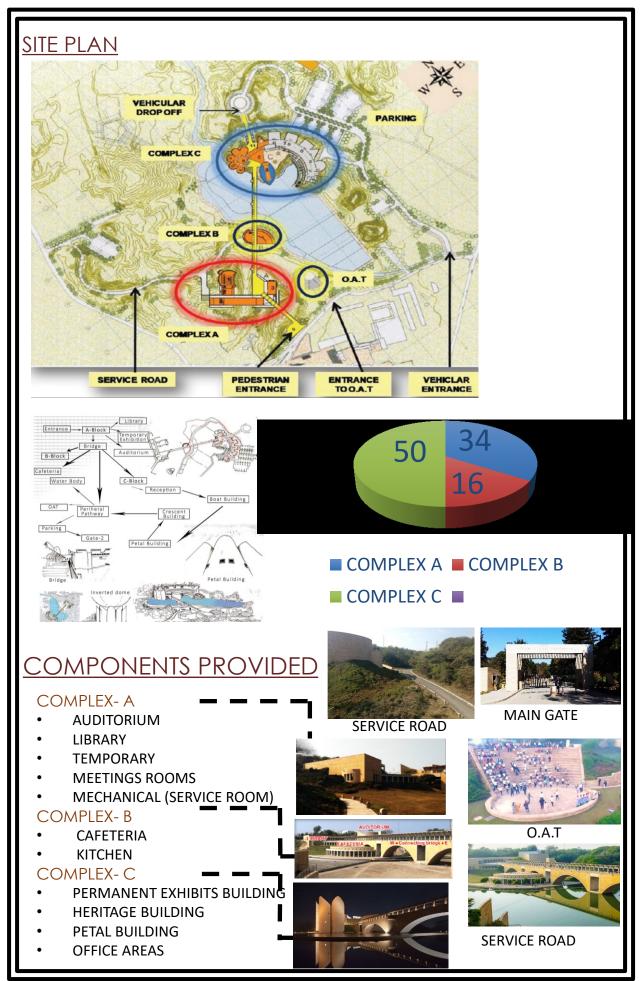




GURUDWARA KILA SHRI

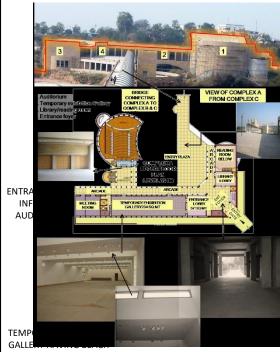


VIRASAT E KHALSA

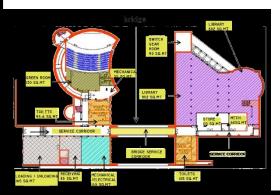


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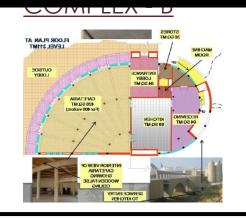
COMPLEX - A



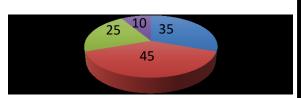
WOODEN FLOORING







COMPLEX-A



AUDITORIUM LIBRARY

■ EXHIBITION ■ SERVICES

THE **WESTERN COMPLEX** FORMS THE GATEWAY FROM THE TOWN OF ANANDPUR SAHIB TO THE MUSEUM.

THE STRUCTURE OF THE COMPLEX IS MADE UP OF CONCRETE BEARING WALL SAND VIRENDEEL TRUSSES.

THE WALLS ASCENDING FROM THE RAVINE LEVEL ALSO CLAD WITH WEATHER RESISTANT SANDSTONE.

•

THE LIBRARY HAVING A COVERED AREA OF 2230 SQ.M

THE 400 SEATED AUDITORIUM HAVING COVERED AREA 1980 SQ.M SPLIT INTO THREE LEVELS.

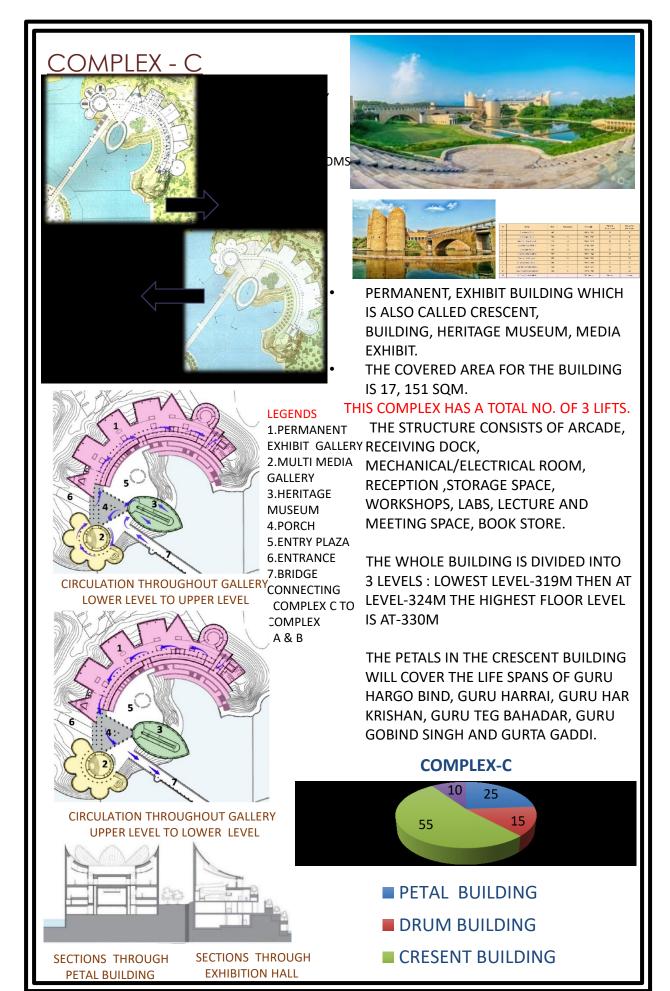
LOWER FLOOR PLAN OF COMPLEX HAS LIBRARY/READING (ROOM WHICH IS ALSO A , ELEC.ROOM, MECHANICAL, SWITCH GEAR ROOM,RECEIVING AREA, TOILETS

<u>COMPLEX - B</u>

IT MAINLY CONSIST OF PEDESTRIAN BRIDGE, CAFETERIA AND KITCHEN BLOCK

THE 165M LONG END WIDE PEDESTRIAN BRIDGE, WHICH IS CONNECTING COMPLEX A & C, PRIMARILY CONSISTS OF FOUR INDEPENDENTLY TIED ARCHES

CAFETERIA AND KITCHEN BLOCKS CONSIST OF CAFETERIA OF COVERED AREA AS 1424 SQM. THE FOUNDINGLEVEL OF CAFÉ DINING IS 316.4 M



BUDDHIST HERMITAGE:A HUB FOR CULTURAL,SPIRITUAL AND EDUCATIONAL RENAISSANCE,KUSHINAGAR



TRIANGLE ABOVE – HISTORY GALLERY - 9

- MARTYRDOM MEMORIAL OF GURU ARJAN DEV JI.
- THE GROWING INFLUENCE OF THE GURU SOON BEGAN TO THREATEN THE MUGHALS.

CRESENT BUILDING GALLERY 10--GALLERY 15

GALLERY -10

- THE GALLERY SHOWS THE MIRI PIRI GRAND
 STAIRCASE LEVEL
- THE MARTYRDOM OF GURU ARJAN DEV INSPIRED THE NEXT GURU, GURU HARGOBIND TO INTRODUCE THE PHILOSOPHIES MIRI AND PIRI.

GALLERY - 11

NEW DIRECTIONS IN SIKHISM

 GURU HARGOBIND JI, GURU HAR RAI JI AND GURU MARTYRDOM HARKRISHAN JI.
 E OF TEG BHADUR

GALLERY - 12

- THIS GALEERY SHOWS GURU TEG BHADUR NINTH GURU AND GURUSHIP OF GURU GOVIND
- GALLERY 13
- FORMATION OF THE KHALSA
- In 1699, on the auspicious day of Baisakhi, Guru GOBIND INVITED SIKHS FROM FAR AND WIDE.

GALLERY – 14

- GURU GOBIND SINGH JI POST KHALSA.
- SOON A LARGER MUGHAL FORCE WAS SENT TO CAPTURE ANANDPUR SAHIB.

GALLERY – 15

- THE ETERNAL GURU IN HIS LAST TIME ,
- GURU GOBIND SINGH HELD COURT, AND ADDRESSING HIS DEVOTEES, DECLARED THAT HENCEFORTH THE GURU GRANTH SAHIB WOULD BE THE ONLY GURU OF ALL SIKHS.

GALLERY 16 -- GALLERY 22

- **GALLERY 16 –**TOWARDS SOVEREGIAN RULE
- **GALLERY 17** TOWARDS SOVERGIEN RULE
- **GALLERY 18** MAHARAJA RANJIT SINGH
- **GALLERY 19** COLONIAL RULE
- GALLERY 20 PARTITION OF PUNJAB (1947)
- GALLERY 21 POST INDEPENDEPENDENCE
- GALLERY 22 POST INDEPENDENCE, S



ARJAN JI

G-12.

G-10, MIRI PIRI









G-13, FIRMATION OF KHALSA



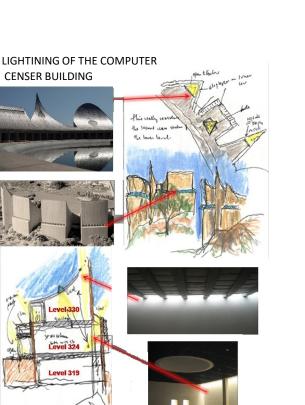
G-14, FIRMATION OF KHALSA



ARCHITECTURAL CHARACTER

THE CANOPY ON THIS BRIDGE IS ANARCHITECTURAL EXPERIMENT AND IS SITUATED IN THE OPPOSITE DIRECTION OF THE SUNN DOES NOT PROVIDE ANY SHADE

THE ROOFTOPS OF ALL THE PETALS HAVE BEEN



<u>LANDSCAPING</u>

- WATER, WHICH IS ABUNDANTLY AVAILABLE HAS BEEN INCORPORATEDTHE LANDSCAPING SCHEME.
- THE FLOOR OF THE RAVINE FORMS THE CENTRE PIECE OF THE COMPLEX.
- AS FAR AS POSSIBLE, THE NATURAL LANDSCAPE AND TOPOGRAPHY HAS BEEN MAINTAINED.

FACILITIES AVAILABLE





HOURS WATER SUPPLY :

THERE ARE TWO PUMP HOUSES CONSISTING OF 3 AND 5 MOTORS RESPECTIVELY.

4 HRS ELECTRICITY SUPPLY :

WO SUBSTATION; TWO RANSFORMERS OF 11000 KV EACH, HT ANELS & LT PANELS AND ONE MERGENCY PANEL TO AUGMENT THE LECTRICITY SUPPLY TO THE CAMPUS. N CASE OF LOAD SHADING, LECTRICITY SUPPLY IS THROUGH D.G. ETS; 6 GENERATORS OF TWO 75 KVA, 80 KVA & FOUR 250 KVA

FIRE FIGHTING:

ALL LOW RISE BUILDINGS ARE EQUIPPED WITH HANDY/MANUAL FIRE FIGHTING EXTINGUISHERS. MUSEUM AND GALLERIES IS EQUIPPED WITH SMOKE DETECTION AND SPRINKLER SYSTEM TO MEET THE UNFORTUNATE FIRE

UNFORTUNATE HAZARD

PARKS AND FOUNTAINS ETC. :

- THERE IS LARGE LANDSCAPING CONSISTING OF 7 ACRES MAGNIFICENT WATERBODY, ONE HILL AND OTHER BASIC AMENITIES.
- THE WATER IN LANDSCAPE IS CANAL A RIVER SOURCE, THEN IT IS TREATED AND USED.

PROVISION OF RAMPS

RAMPS IN THE EXTERIOR ARE PROVIDED FOR INTERNAL ACCESS FOR DIFFERENTLY ABLED.

RAINWATER HARVESTING SYSTEM

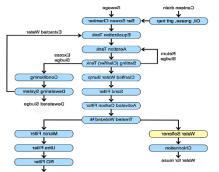
IN THIS CAMPUS THE RAIN WATER FROM

VARIOUS CATCHMENT, INCLUDING ROOFTOP,

SURFACE RUNOFF IS HARVESTED.

SOLID WASTE MANAGEMENT

- THERE IS A SEWAGE TREATMENT PLANT
 INSTALLED IN CAMPUS SINCE
- UNDERGROUND STORAGE: 50,000 LT



<u>MERITS</u>

- PROVISIONS FOR PHYSICALLY HANDICAPED
 VISITORS WERE SUFFICIENT .
- WATER BODY PROVIDES A SUBTLENESS AND CALMNESS TO THE STRUCTURE AND MAINTAINING THE MACRO CLIMATE.

DEMERITS

- NO RAMP IN THE AUDITORIUM BUILDING
- SERVICE FLOOR WERE NOT GUARDED ENOUGH.

<u>INFERENCES</u>

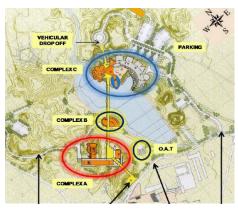
- USE OF PUNCTURED CEILINGS AND FLOOR SLAB DESIGN TO ALLOW THE SKYLIGHT ON EVERY FLOOR.
- USE OF LOCALLY AVAILABLE MATERIAL.











CASE STUDY

KUSHINAGAR

KUSHINAGAR IS A PILGRIMAGE THE KUSHINAGAR DISTRICT INDIAN STATE OF UTAR PRADESH A BUDDHIST PILGRIMAGE SIT BUDDHA ATTAINED PARINIRVAN HIS DEATH.



<u>OVERVIEW</u>

Kushinagar is a town and a historical place located in the north-eastern marginal area of Uttar Pradesh. The name "Kasia Bazar" has been changed to Kushinagar and after that "Kasia Bazar" has officially become а municipality with the name "Kushinagar". This a Buddhist pilgrimage where Gautam is Buddha had Mahaparinirvana. Kushinagar is located on National Highway 28, about 50 km east of Gorakhpur. There are many beautiful Buddhist temples here. For this reason, it is also an international tourist destination where Buddhists pilgrims from all over the world come for excursions. After the Kushinagar town and eastwards, Bihar state starts about 20 km.

COMPONENTS OF CIRCUIT

MAHA PARINIRVANA TEMPLE

Regarded probably as one of the most sacred shrines of the Buddhists across the world,

It houses <u>the 6.10 m long</u> idol of Lord Buddha lying in a position when he left his mortal remains at the age of 80 and achieved the supreme state of salvation or permanent bliss. The monolithic statue of Buddha is built out of a single piece of red sandstone of Chunar.

It shows him reclining on his right side with his face facing the west. It was considered the right posture for Mahaparinirvana.

The statue is built upon a large brick platform supported by stone pillars in its corners.

There is an inscription on the platform stating that it was built by Swami Haribala, a disciple of the Buddha in 5th century AD. Both the temple and the vihar were a gift of a grateful disciple to his august teacher. The temple attracts huge crowds of tourists and pilgrims from all over the world.





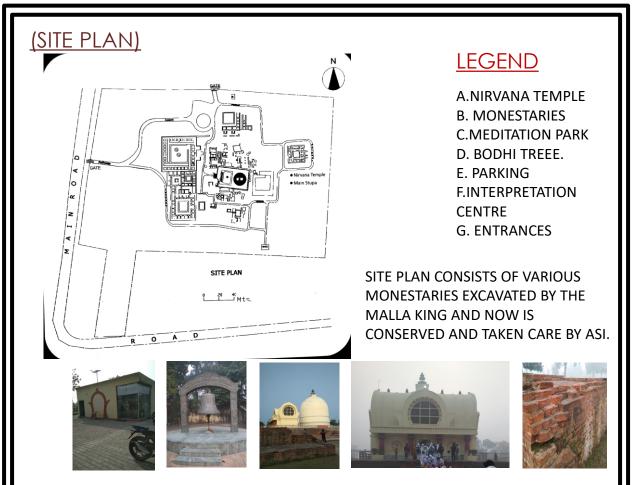


RAMABHAAR STUPA



PARINIRVANA TEMPLE





COMPLEX CONSISTS OF A TEMPLE AND AT THE BACK IS THE STUPA. THE STUPA IS AROUND

IN DIA AT THE BASE.

THE TEMPLE CONSIST OF A STATUE OF BUDDHA IN NIRVANA POSE WHICH IS 6.10M LONG.

THE TEMPLE AND THE STUPA STAND ON THE SAME PLATFORM OF 2.74M HEIGHT.

STUPA WITH CYLINDRICAL BASE AND DOME IS 19.81M HIGH FROM THE GROUND LEVEL.

CIRCULAR CHAMBER AT THE DEPTH OF 4.27M

INSIDE THE TEMPLE THE STATUE OF BUDDHA IS MONOLITHIC SANDSTONE USED.

The Mahaparinirvana temple is a single room temple. It has been built in the traditional Buddhist architectural style. This temple has a 6 m long reclining nirvana statue of Lord Buddha. This statue is made of monolith red sandstone. The area around this temple is surrounded by stupas and ruins of four monasteries.

MONOLITHIC STATUE OF BUDDHA THAT IS 6.10 M IN LENGTH AND IS CARVED OUT OF SINGLE BLOCK OF SANDSTONE ;THE IMAGE IS PLACED ON A LARGE BRICKS PEDETAL.IT REPRESENTS BUDDH RECLINING ON HIS RIGHT SIDE WITH HIS FACE TURNED TOWARDS WEST.

BURMESE DHARMSHALA

BURMESE DHARMSHALA THIS DHARMSHALA IS SITUATED NEXT TO THE MAHANIRVANA TEMPLE

ITS COMPLEX IS DEVELOPED BY PRIVATE TEMPLE OWNERS FROM BURMA, MYANMAR.

THE WHOLE COMPLEX IS MAINTAINED BY THE AUTHORITY AND IS DEPENDENT ON DONATIONS.

THE WHOLE COMPLEX IS DEVELOPED AND CONTAINS MANY DHARMSHALAS FOR MONK.

ALSO THIS DHARMSHALA IS DEVELOPED IN FOR OF HOTEL HAVING THREE FLOOR WITH LIFT FACILITY.

DHARMSHALA IS NEWLY CONSTRUCTED FOR 200 INMATES. DORMITORY FOR BOTH MONK AS WELL AS TOURISTS THE DHARMSHALAMEASURES 105M IN LENTH AND 14.6M IN BREADTH. WITH FLOOR HEIGHT 5000MM.



<u>SERVICES</u>

water supply is either from nagar palika timely scheduled or else they have their own seperate water boring.

the tanks for water are provide with capacity of 5000 litres.

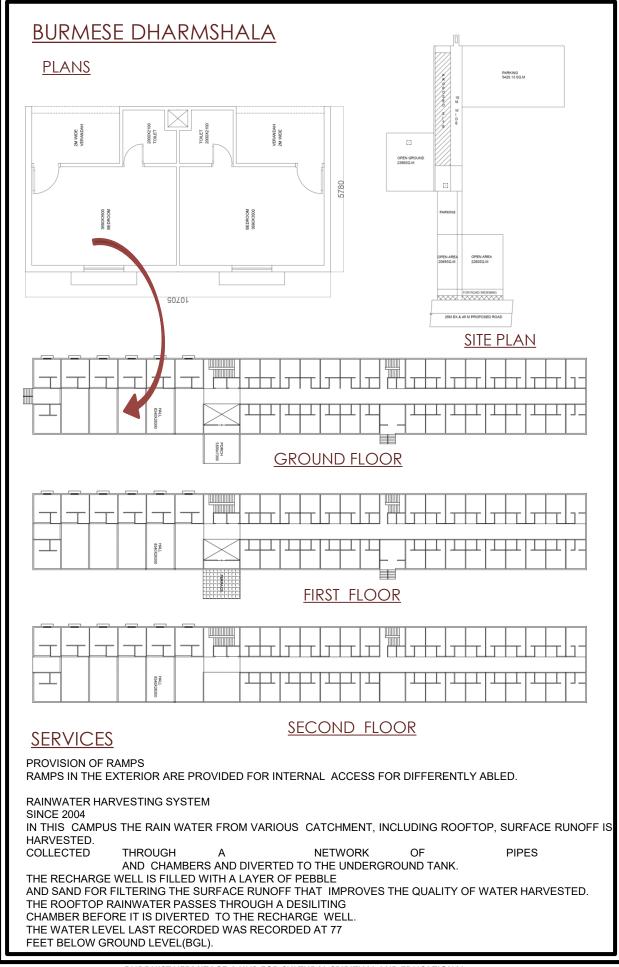
for sewage, cemented drains are cnstructed that are constructed to the public drains and then sewage is directly dumped into hiranya river.

electricity is connected from the near by substation that emits 8mva.

also proper backup is present with inverter and generators.and seperate transformers of 10 $k\nu$.

for fire fighting hand tools are present.handy fire extinguishers are there.

also some of water for fire is bored 120ft or more and no particular tanks are present.



BUDDHIST HERMITAGE:A HUB FOR CULTURAL, SPIRITUAL AND EDUCATIONAL RENAISSANCE, KUSHINAGAR

BUDDHA SMRITI PARK

PATNA ,BIHAR

- CLIENT : THE DEPARTMENT OF ART, CULTURE AND YOUTH , STATE GOVERNMENT OF BIHAR
- ARCHITECT : VIKRAM LAL
- **AREA:** 24 ACRES
- COST: 125 CRORE
 - FRAZER ROAD ,PATNA ,BIHAR
 - 0.8 KM FROM PATNA RAILWAY STATION
 - 6.2 KM FROM PATNA JAY PRAKASH NARAYAN AIRPORT

OVERVIEW

- THIS PARK HAS BEEN DEVELOPED BY THE BIH. GOVERNMENT TO COMMEMORATE THE 2554TH BIRTH ANNIVERSARY OF THE BUDDHA.
- THE PARK HAS BEEN CONSTRUCTED AT THE PLACE WHERE ONCE THE HISTORICAL BANKIPUR JAIL OF BRITISH ERA EXISTED.
- BUDDHA SMRITI PARK FEATURES THREE MAIN ARCHITECTURAL SPACES,THE STUPA ,THE MEDITATION CENTRE AND THE BUDDHA SMRITI MUSEM.

<u>CONCEPT</u>

- LORD BUDDHA AND THE PATH OF ENLIGHTEN MENT THIS CONCEPT STATEMENT SERVED TO HIGHLIGHT THAT THE PATH TO ENLIGHTEMENT IS A JOURNEY.
- VISITORS TO BUDDHA SMRITI MUSEUM ARE INVITED TO EXPLORE THE BUDDHA'S LIFE STORY ,TOUCHING ON KEY MILESTONE ,AND TO APPRECIATE THE RESULTING LEGACY THAT CONTINUES TO ENDURE.

NEAR BY TRANSPORTATION

LAND MARK

NEAR BY TO PATNA JUNCTION RLY STATION.

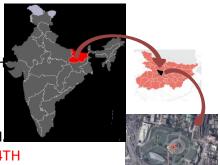
NEAREST BUS STOP:

MITHAPUR BUS STOP

PATNA JN.RLY STATION TO SMRITI PARK (0.8 KM) BY BUS 24 MIN

AIR PORT(7.5 KM)BY TAXI : 23 MIN









Patliputra karuna stupa



ISBT PATNA





COMPONENT OF PARK

MEDITATION CENTRE

THE MEDITATION CENTRE HAS BEEN DEVELOPED TO CREATE A UNIQUE FACILITY DEDICATED TO THE DERIVED FROM PLAN OF THE MONASTERIES IN THE ANCIENT MAHAVIHARA OF NALANDA.IT CONSIST OF LIBRARY CONSISTING OF BOOKS ON BUDDHISM ALONG WITH A LARGE AUDIO-VISUAL HALL.

PARK OF MEMORIES (SMRITI BAGH)

THE PARK OF MEMORIES IS A LANDSCAPED OPEN SPACE WHICH WOULD HAVE VOTIVE STUPAS FROM COUNTRIES ACROSS THE WORLD, EACH DESIGNED IN THE ARCHITECTURAL PATTERN REPRESENTATIVE OF THE SPECIFIC COUNTRY.

MUSEUM

THE MUSEUM WILL SHOWCASE THE LIFE AND TIMES OF LORD BUDDHA THROUGH ORIGINAL ARTEFACTS, 3-D MODELS, AUDIO - VISUAL MEDIUM AND MULTIMEDIA PRESENTATIONS.

LASER SHOW

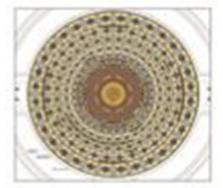
IN THE PARK THE LASER SHOWS INERPRETED SHOWS RELATED TO THE HISTORY OF BIHAR FROM THE TIME OF RAMAYANA TO PAST INDEPENDENCE IS SHOWCASED

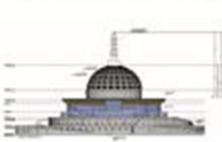
STUPA

THE STUPA ENSHRINING THE HOLY RELICS OF THE THE STUPA ENRISHING THE SAKYAMUNI BUDDHA, IS THE FOCAL POINT OF THE HOLY RELICS OF THE BUDDHA SMRITI PARK, AMBULATORY PATHS SAKUAMUNI-BUDDHA, IS THE AROUND THE STUPA FOR PARIKRAMA HAVE BEEN FOCAL POINT OF THE BUDDHA PROVIDED AT THREE DIFFERENT LEVELS THAT LEAD SMRITI PARK. TO THE HIGHEST LEVEL OF THE BUILDING. THE . DIAMETER: 17.70 METRE RELICS ARE ENSHRINED WITHIN THE SECURE GLASS • HEIGHT: STRUCTURE OF THE STUPA AND IS ACCESSIBLE FOR THE ROOF HAS A CENTRAL RELIC VIEWING.HOLY FROM MAYNMAR SOUTH KOREA THAILAND SRILANKA WHICH IS SUPPORTED BY 8 AND TIBET CAN BE SEEN HERE





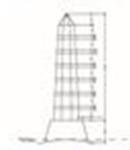




60.6 METRE

JAPAN "DOME" LIKE STRUCTURE PILLARS.

> AMBULATORY PATHS AROUND THE STUPA HAS BEEN PROVIDED AT THREE DIFFERENT LEVELS THAT LEAD TO THE HIGHEST LEVEL OF THE BUILDING.







MUSEUM

THE MUSEUM BUILDING IMPERSONATE THE FE FLOWING NATURAL FORM OF THE BUDDHIST CA MOASTERIES OF INDIA.THE MUSEUM SHOWCA THE LIFE AND TIME OD BUDDHA THROU ORIGINAL ARTEFACTS, 3-D MODELS , AODIO-VISUA MEDIUM AND MULTIMEDIA PRESENTATIONS. THE NEW BUDDHA SMRITI MUSEUM INTERPRET THE STORIES ASSOCIATED WITH THE BUDDHA AN THE ONGOING LEGACY OF BUDDHHIM AS

10% 25% 25% 40%

THE STORIES ASSOCIATED WITH THE BUDDHA AND THE ONGOING LEGACY OF BUDDHHIM AS A PHILOSOPHY AND MAJOR WORLD RELIGION.

ADMIN MUSEUM HALL CIRCULATION SERVICES BLOCK

ORIENTATION

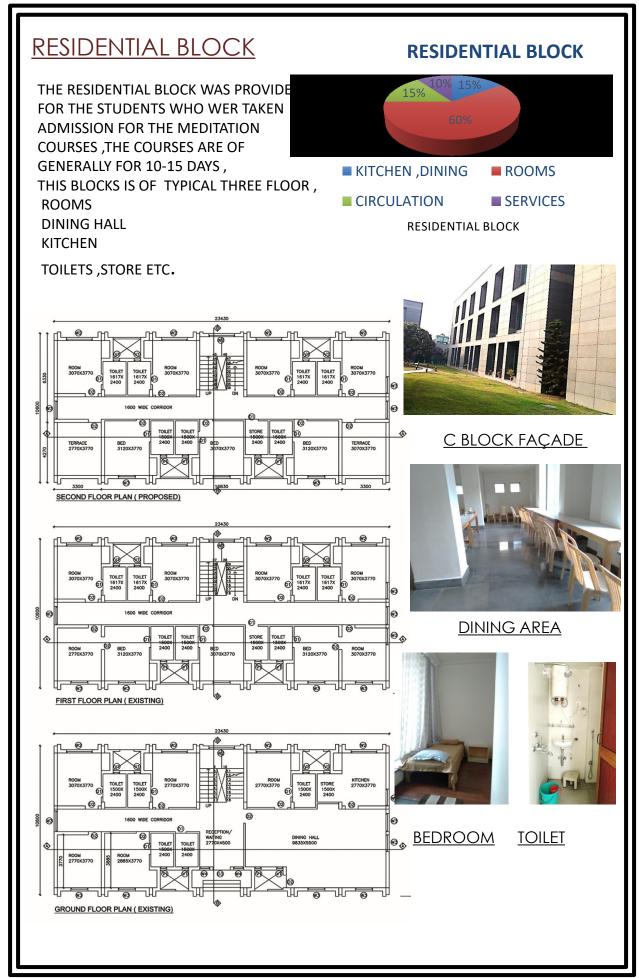
ORIENTATION PREPARES VISITORS FOR EXHIBITION EXPERIENCES THAT FOLLOWS. MEDITATIVE SCULPTURE GARDEN PRE- THEATRE EXHIBIT GALLERY 1, THE BEGINNINGS

THE GALLERY EXPLORES THE EARLY LIFE OF PRINCE SIDDHARTHA GAUTAMA.

SPECIAL TRESURE GALLERY

A SMALL AND INTIMATE, BLACK BOX SPACE THAT PRESENTS BUDDHIST ART WORK IN AESTHETIC MODE OF DISPLAY. GALLERY 2. AWAKENING AND ENLIGHTMENT THE ARTWORKS LETS THE VISITORS EXPLORE THE FOLLOWING EVENTS OF BUDDHA'S LIFE THE AUSTERITIES THE 1ST SERMON AT SARNATH THE 4 NOTABLE TRUTHS & THE NOBLE 8 FOLD PATH. THE BODHI TREE. **GALLERY 3 , BUDDHA THE TEACHER DIVIDED INTO 2 THEMATIC EXHIBITS.** ON OF BUDDHA'S GREATEST LEGACY AS A TEACHER. IT INCLUDES THE FOLLOWING EXHIBITS: **BUDDHA AND HIS DISCIPLES** BUDDHA'S JOURNEY THROUGH OUT BIHAR KEY CONCEPT OF BUDDHISM OTHER SERVICES OFFICES, RECEPTION DESK, SOVANIER SHOP, A.H.U ROOM, TOILET **GALLERY 4 BUDDHISM TODAY** EXHIBITS IN THIS GALLERY EXPLORE TOPICS IN CONTEMPORARY BUDDHISM.

THE CONTINUING RELEVANCE AND IMPORTANCE OF BUDDHIST TRADITION AND THOUGHTS ARE PRESENTED HERE.



BUDDHIST HERMITAGE:A HUB FOR CULTURAL, SPIRITUAL AND EDUCATIONAL RENAISSANCE, KUSHINAGAR

FACILITIES AVAILABLE

24 HOURS WATER SUPPLY :

 THERE ARE TWO PUMP HOUSES CONSISTING OF ONE AND FOUR MOTORS RESPECTIVELY.

24 HRS ELECTRICITY SUPPLY :

 11000KVA HT SUBSTATION; TWO TRANSFORMERS OF 1000 KVA EACH, HT PANELS & LT PANELS AND ONE EMERGENCY PANEL TO AUGMENT THE ELECTRICITY SUPPLY TO THE CAMPUS.

FIRE FIGHTING:

ALL LOW RISE BUILDINGS ARE EQUIPPED WITH HANDY/MANUAL FIRE FIGHTING EXTINGUISHERS.

MUSEUM AND STUPA IS EQUIPPED WITH SMOKE DETECTION AND SPRINKLER SYSTEM-

PARKS AND FOUNTAINS ETC. :

- THERE IS ONE BEAUTIFUL CENTRAL PARK CONSISTING OF ONE MAGNIFICENT FOUNTAIN.
- IN THE PARK LIGHTING IS PROVIDED BY WELL DESIGNED DOWN LIHGHTER STREET.

PROVISION OF RAMPS

RAMPS IN THE EXTERIOR ARE PROVIDED FOR INTERNAL ACCESS FOR DIFFERENTLY ABLED.

RAINWATER HARVESTING SYSTEM

IN THIS CAMPUS THE RAIN WATER FROM VARIOUS

CATCHMENT, INCLUDING ROOFTOP, SURFACE RUNOFF IS

HARVESTED.

THE ROOFTOP RAINWATER FROM THE BLOCKS IS

COLLECTED THROUGH A NETWORK OF PIPES AND

CHAMBERS AND DIVERTED TO THE UNDERGROUND TANK.

INFERENCES

• The park provides scenic and peaceful environment for the visitors.

Ramps provide comfort to physically challenged people

•The thematic green space attracts lots of tourists

• Proper entry and exit has been provided



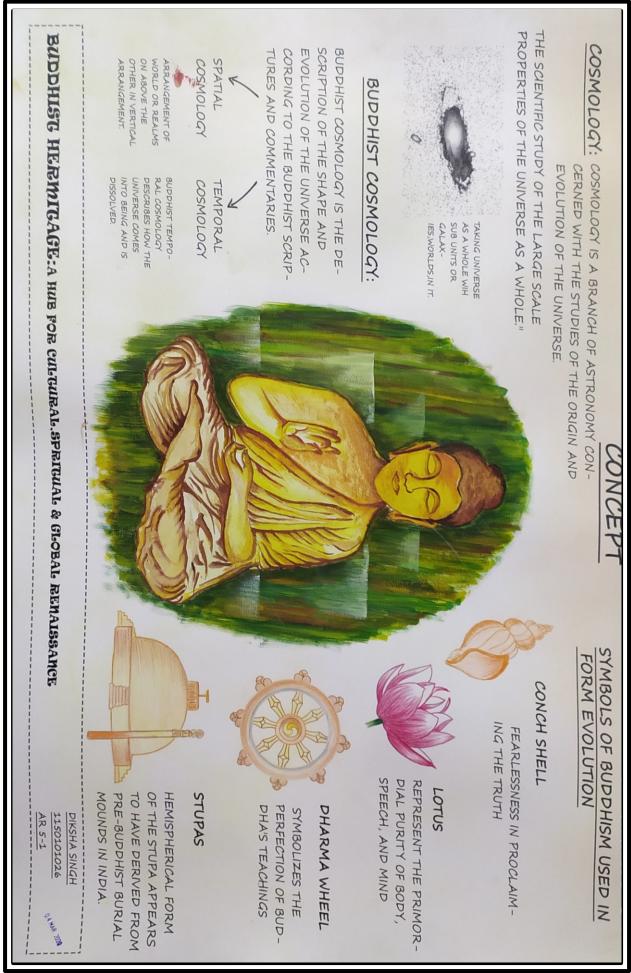








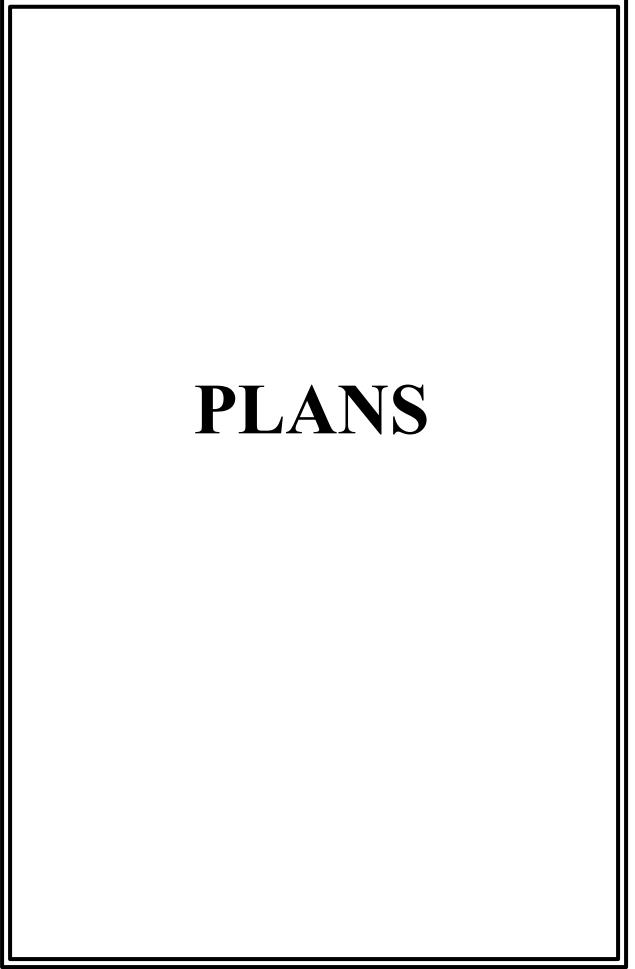
CONCEPT

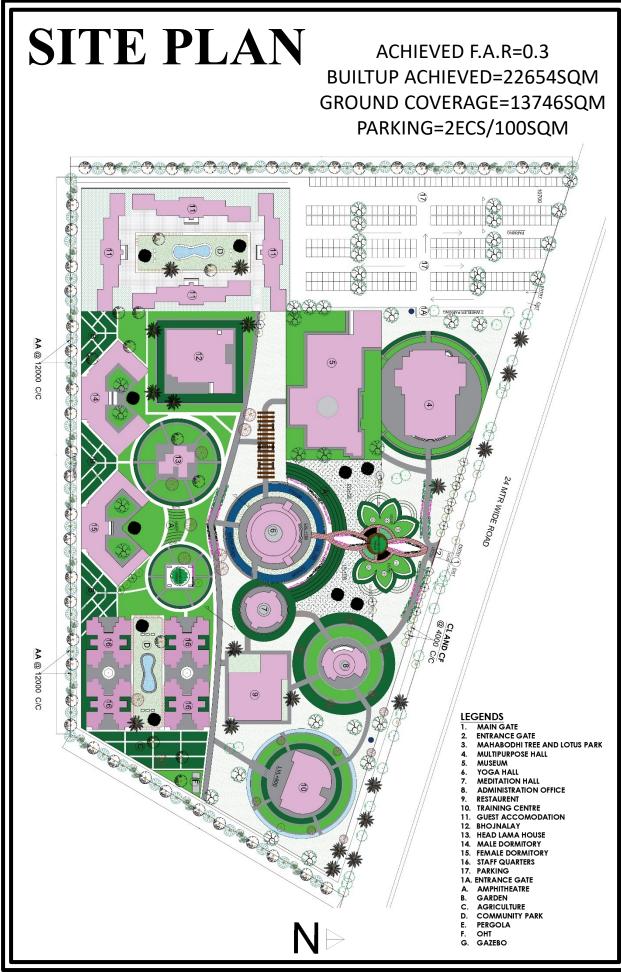


AREA CHART

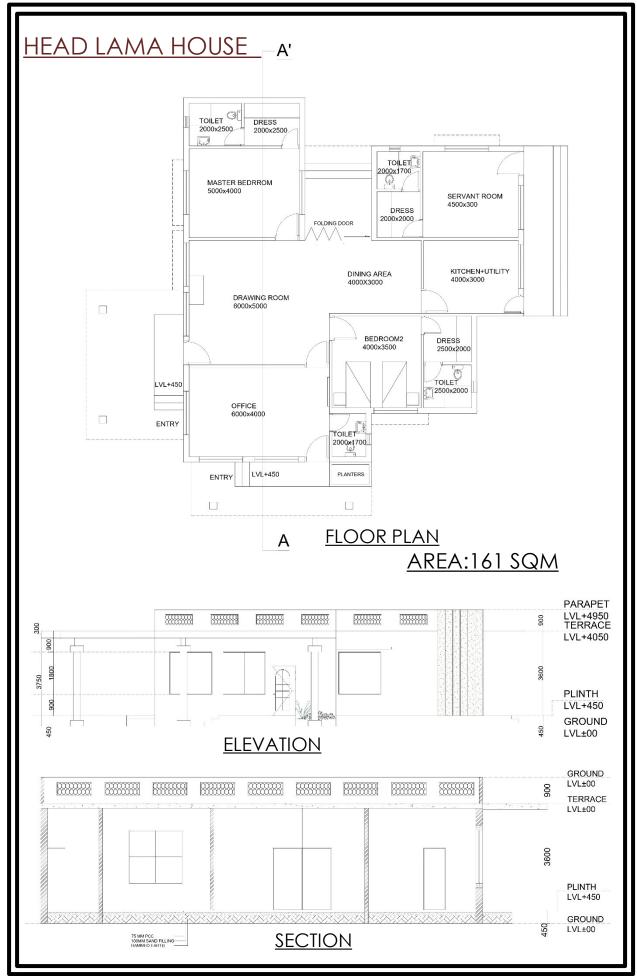
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P)	HEAD LAMA OFFICE		18	ı	z				18 20
0	MANAGER'S OFFICE		22	ц	2				
9	WORKSTATIONS	2.5	20	T	60				20 20
e)	MEETING ROOM	15	15	1	10				20 ts
f)	SECURITY CONTROL		20	1	4				20 20
(ŋ	PANTRY		3.5	1					3.5 3.5
e)	STAFF TOILET		4.5			PAGE-20 TABLE-7 VOL2			4.5 4.5
Ĵ	GUARD ROOM		Q	4	4				
(B	ACCOUNT OFFICE		12	1	1				12 12
Ð	RECORD ROOM		00	1	1				D3
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(r	LOUNGE		150		100(5% OF FOOTFALL)				150 150
Ś	STORAGE		9	1					
()	ATRIUM				15%OF GROUND COVERAGE				
m)	DISPENSARY					PAGE-130 VOL1			20 20
-)	SERVICES	20% OF BUILTUP							72.2 72.2
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a)	CLASS-ROOM	N	40	10	20		PAGE-311(ZND EDITION)	PAGE-311(ZND EDITION)	400
D)	STAFF-ROOM	2.5	25	Z	10				50
e (READING ROOM	N	50	4			PAGE-310	PAGE-310	8
(J	RECREATIONAL ROOM	4	80		8				80
e)	OFFICES		12,12,20	ω			PAGE-347	PAGE-347	40
(J	TOILET					TABLE-15/PAGE22			61
(g	SERVICES	20% OF BUILTUP							
ω	CAFETERIA				800				1655
a)	DINING	1.2	960						960 960
ē	KITCHEN	40% OF DINING	384						
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d)	TOILETS								40 40
e)	SERVICES	20% BUILTUP							

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135L EACH		ZECS/100SQM	15% BUILT AREA AREA				3.1		15% OF BUILT UP AREA			01	4			20%OF BUILT UP AREA		15			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	15% OF BUILT UP AREA	1.20									25% OF BUILTUP AREA				1.2	2	0.3		25% OF BUILTUP AREA	2	0.5
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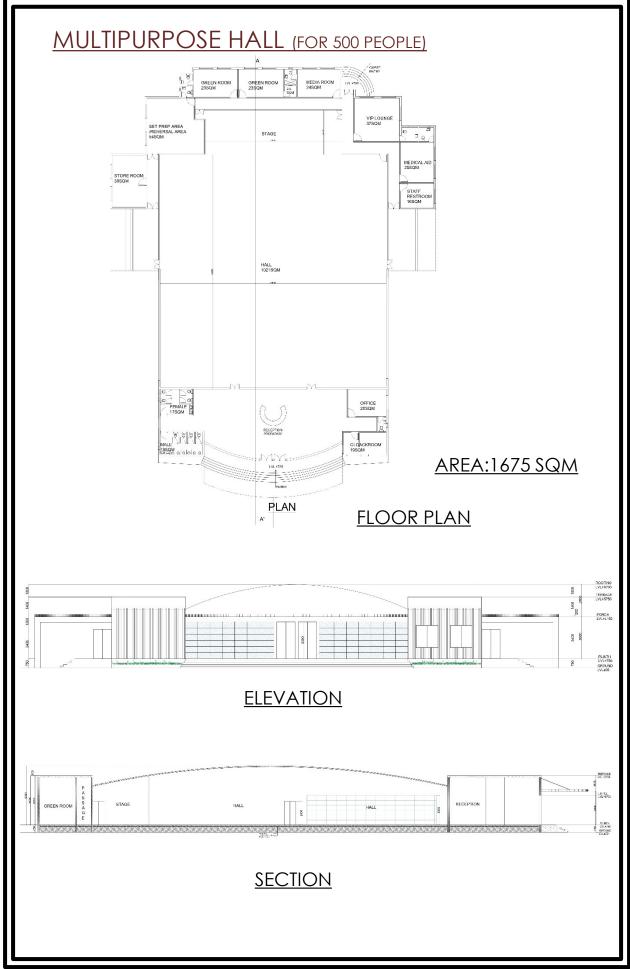


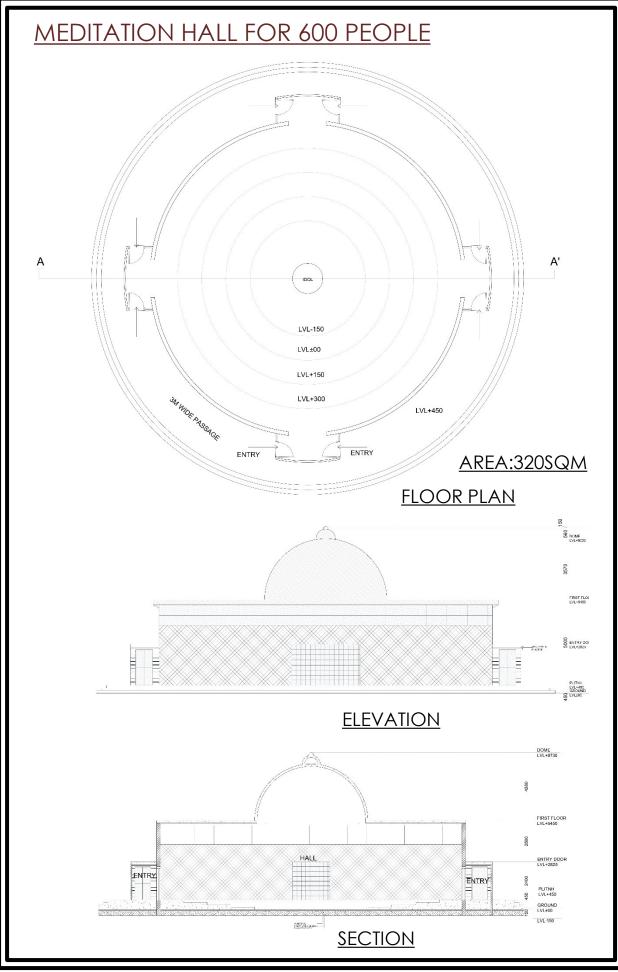


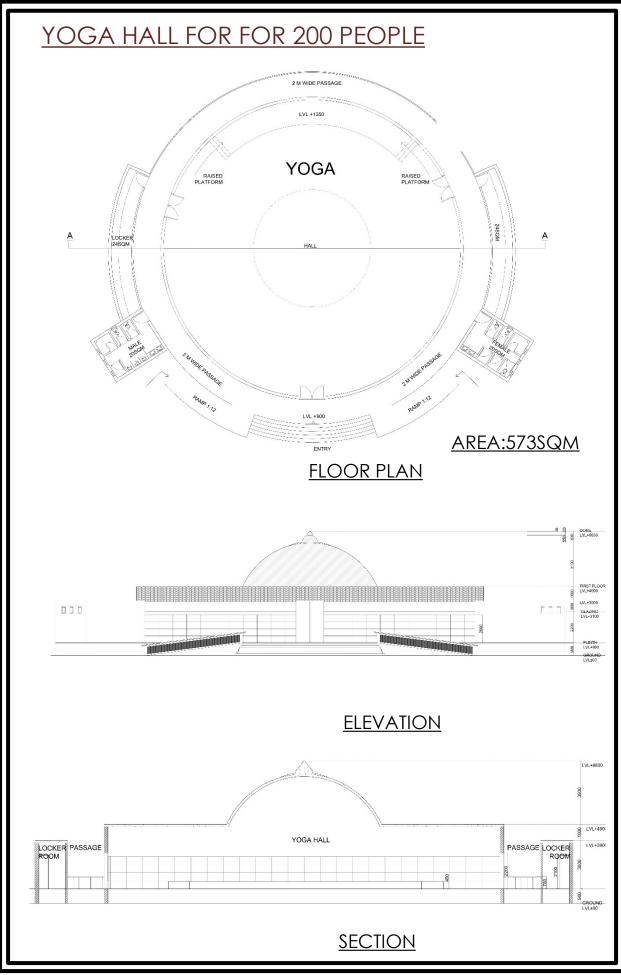
BUDDHIST HERMITAGE:A HUB FOR CULTURAL, SPIRITUAL AND EDUCATIONAL RENAISSANCE, KUSHINAGAR

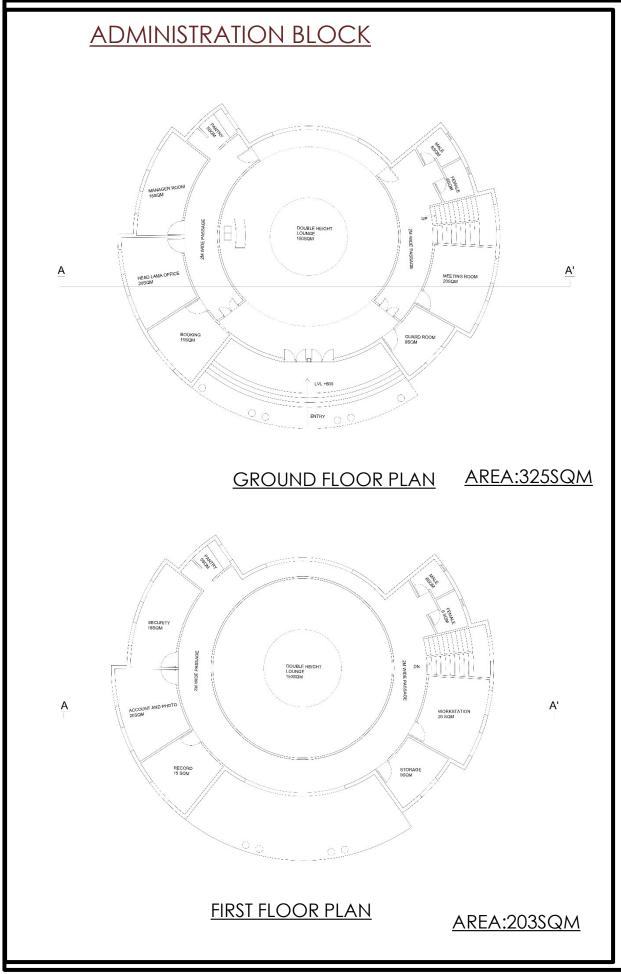


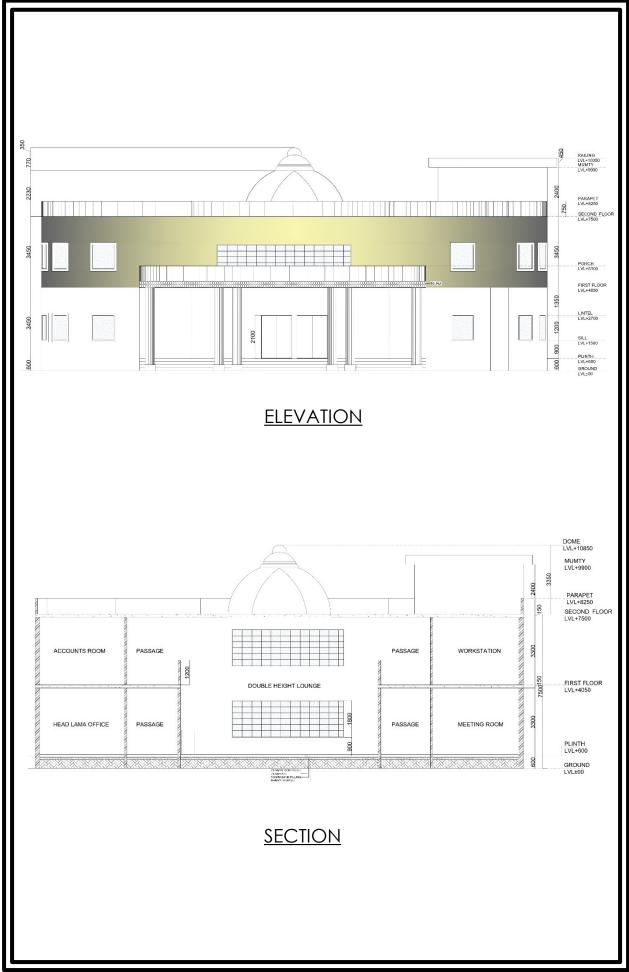
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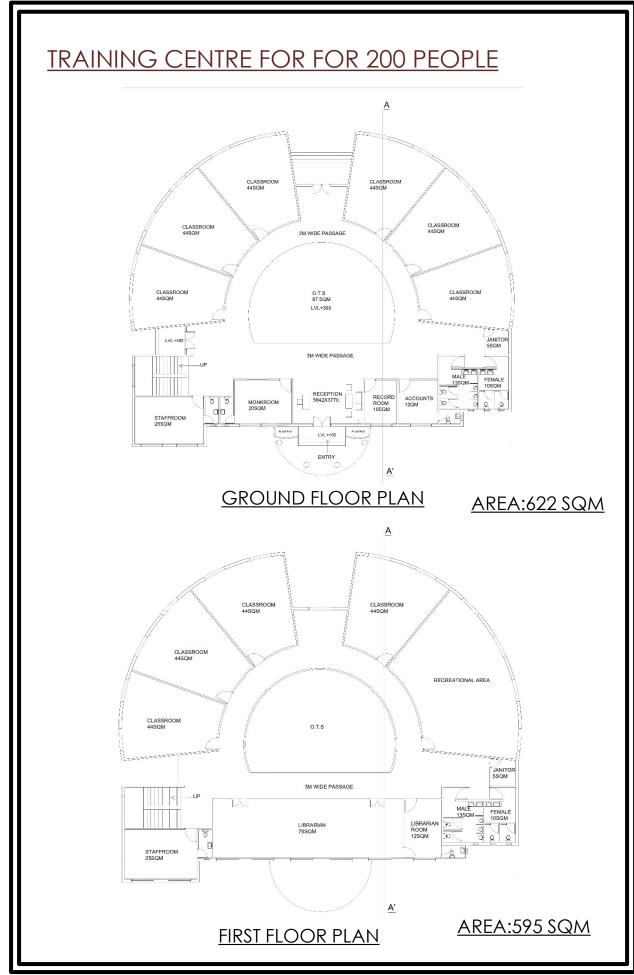




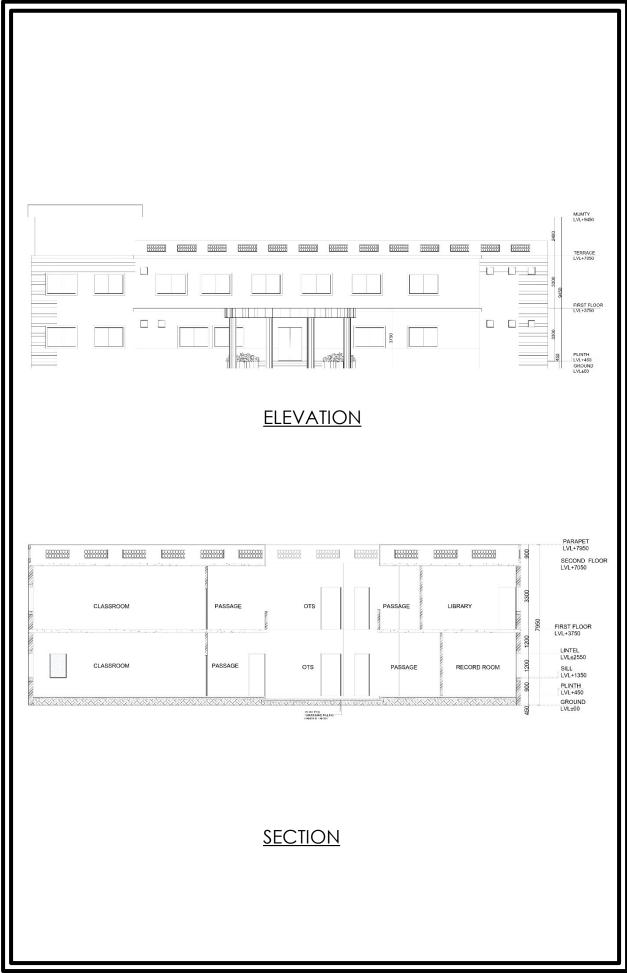


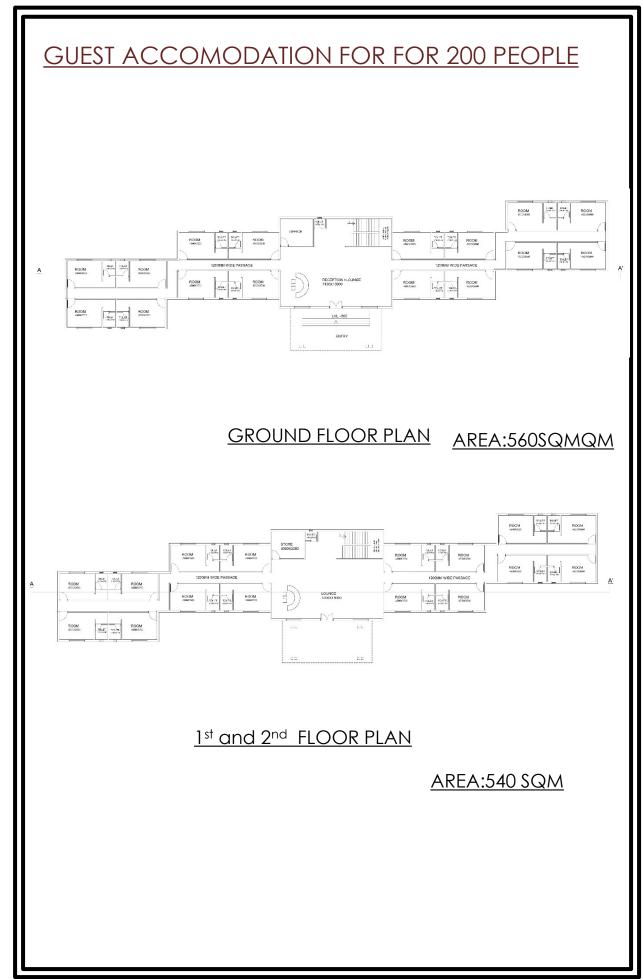




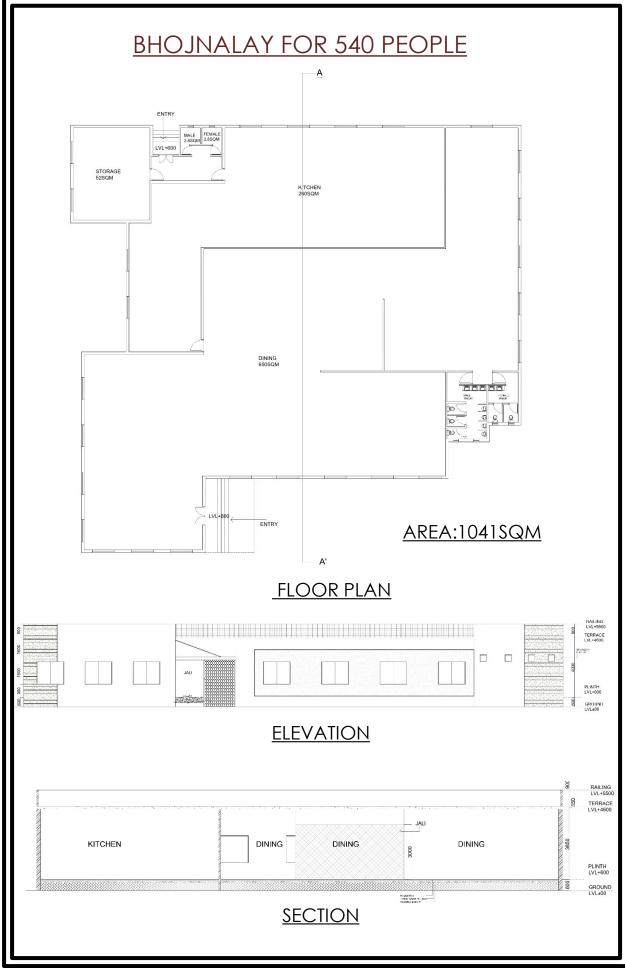


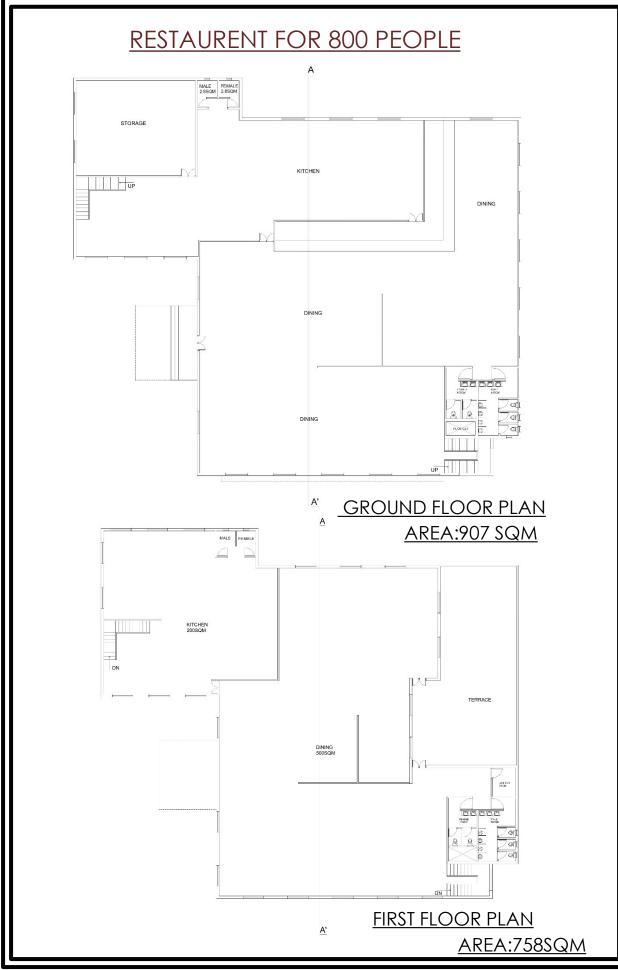
BUDDHIST HERMITAGE:A HUB FOR CULTURAL, SPIRITUAL AND EDUCATIONAL RENAISSANCE, KUSHINAGAR



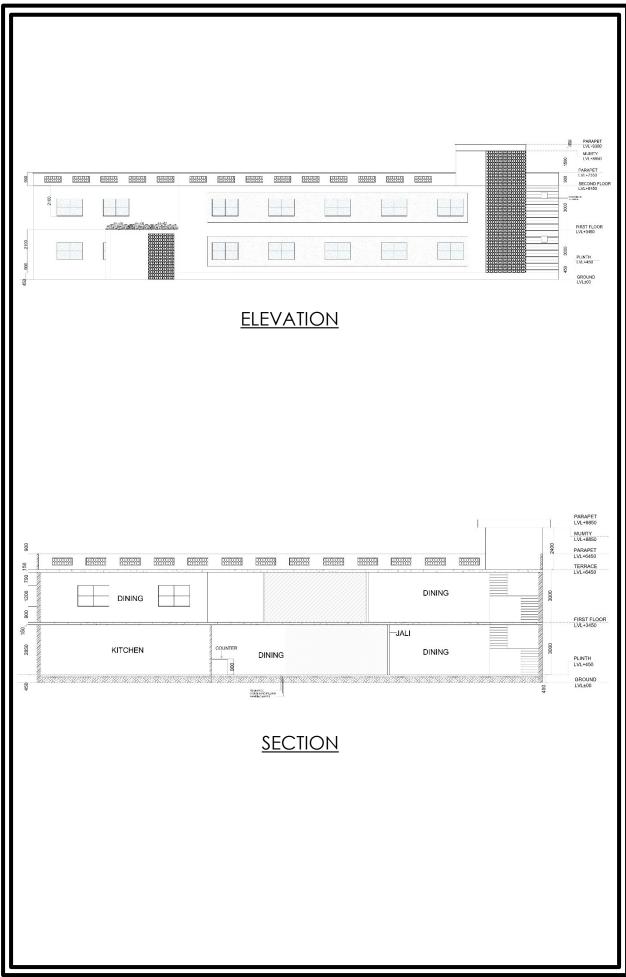


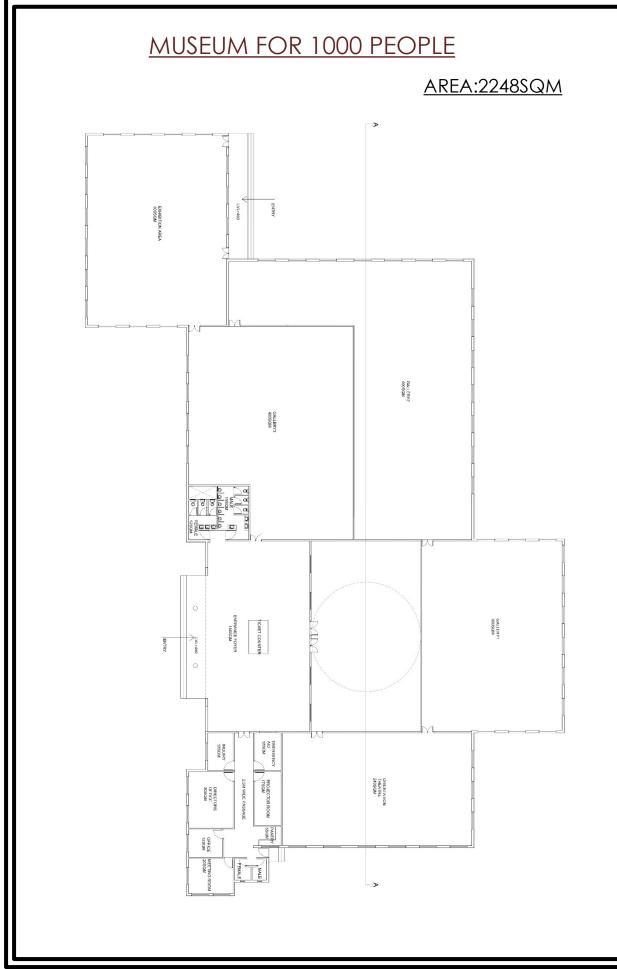




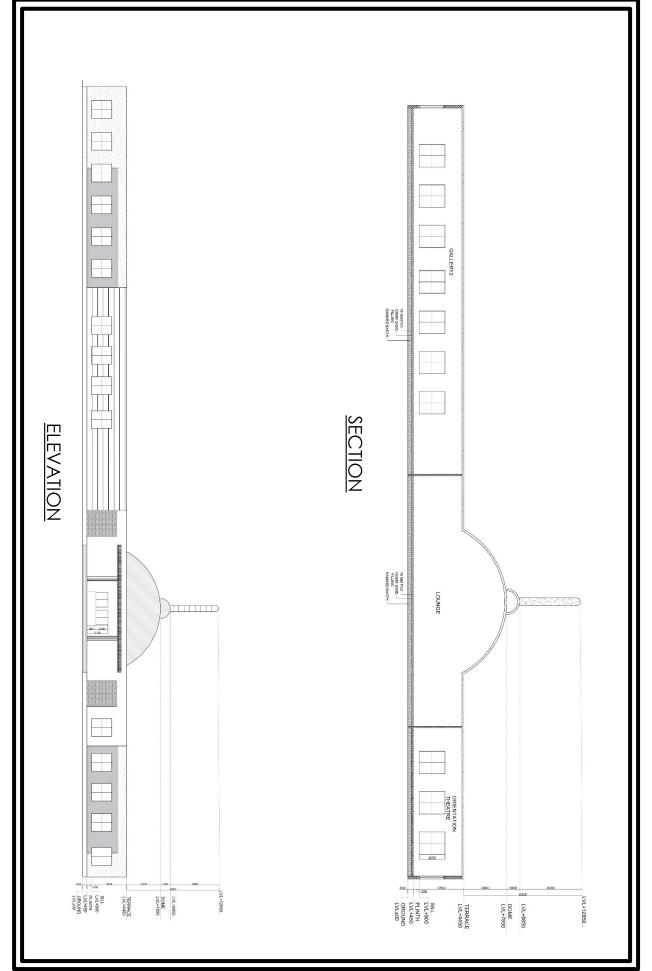


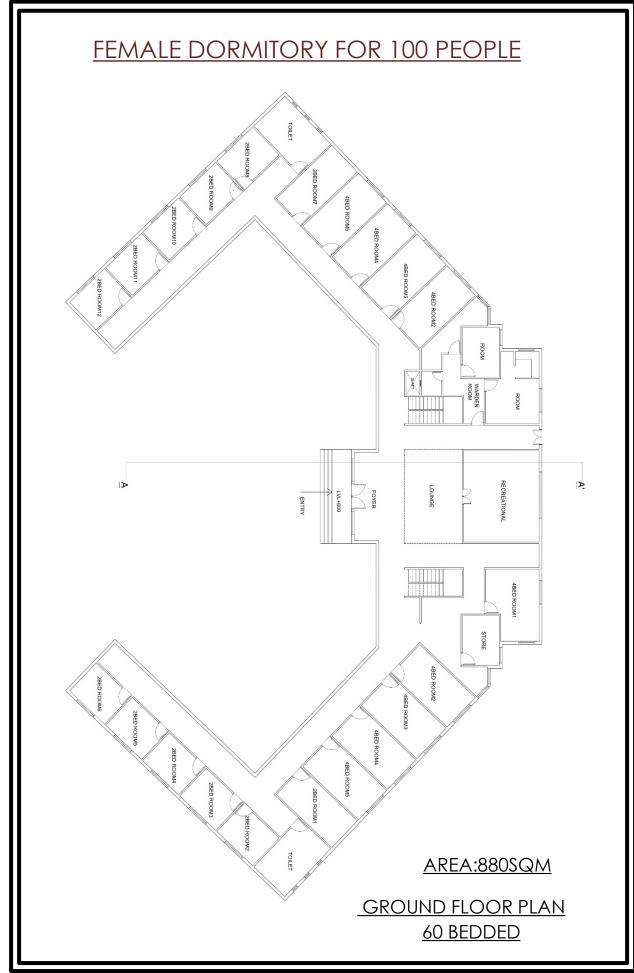
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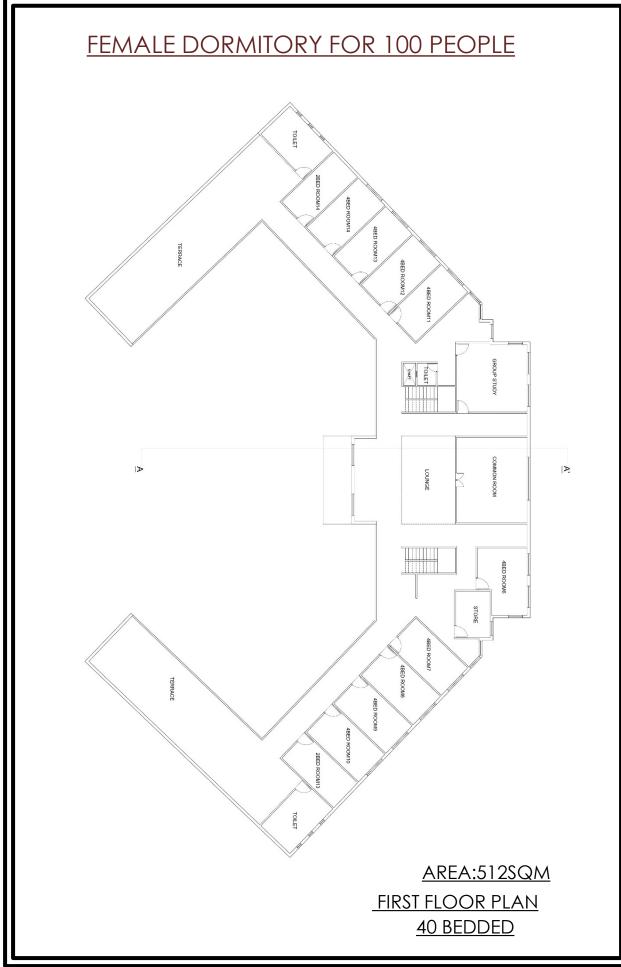


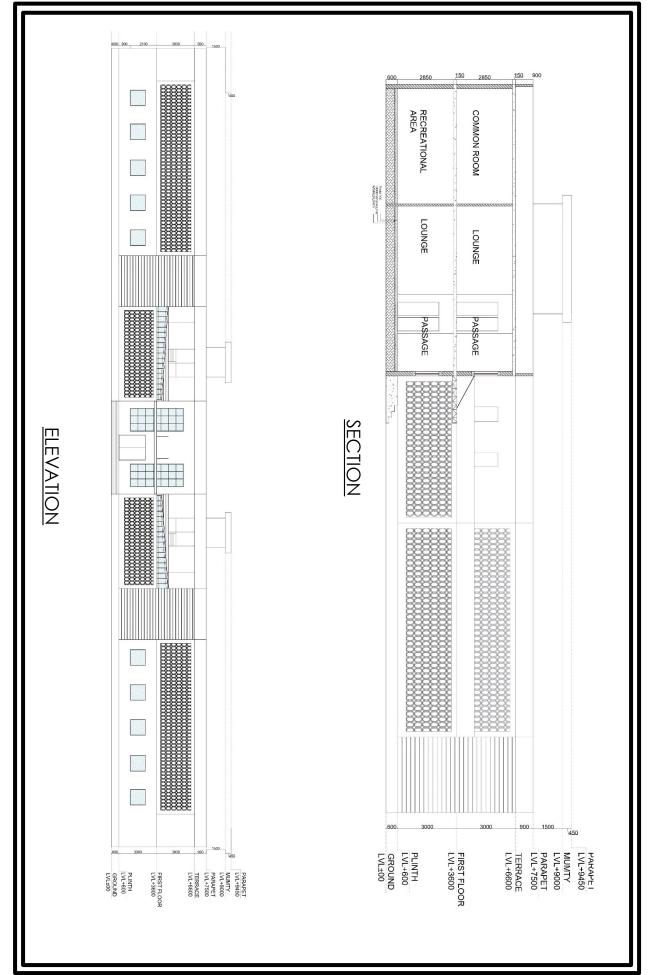


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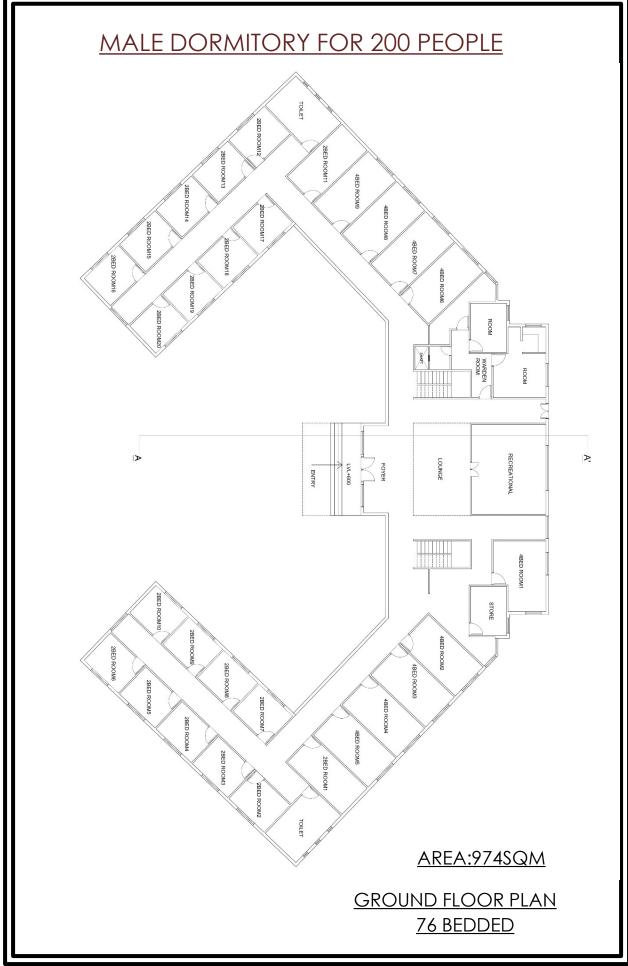


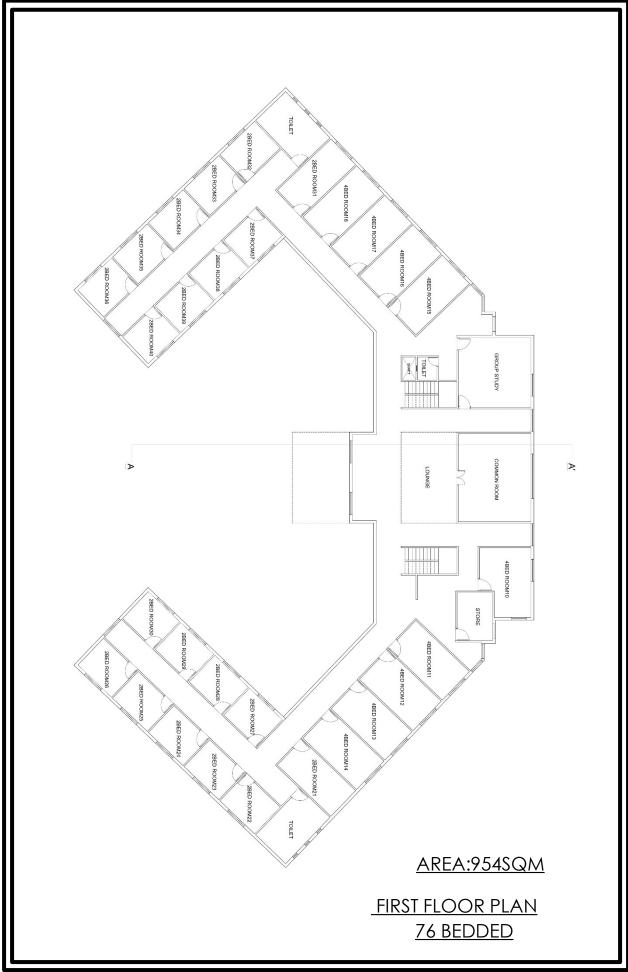


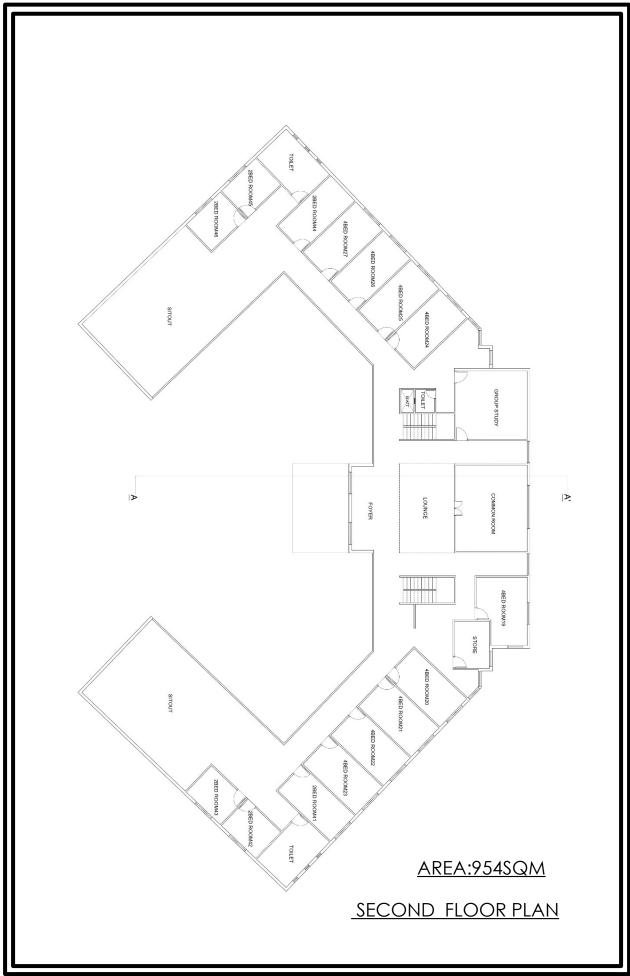




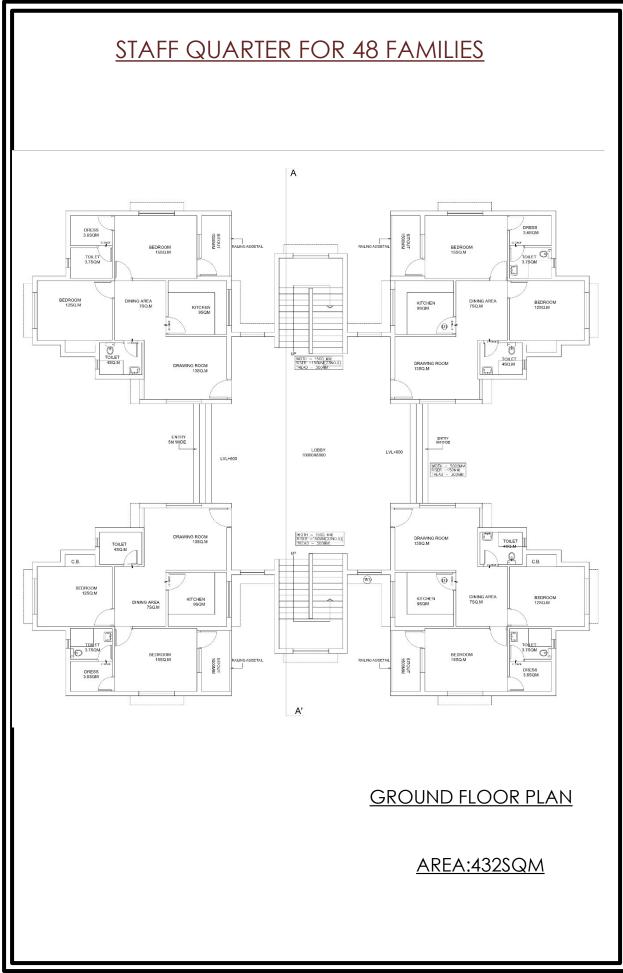
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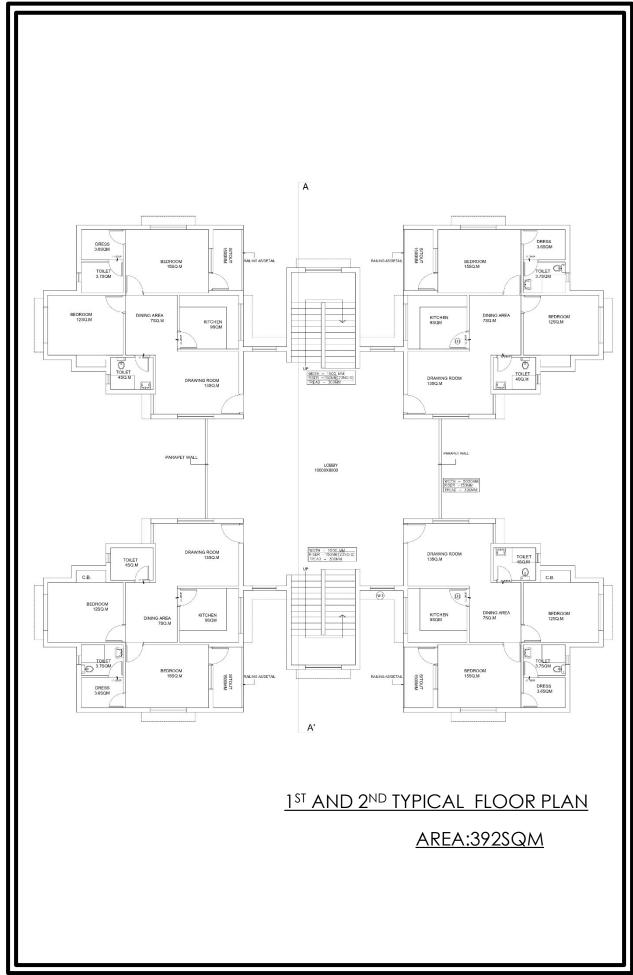




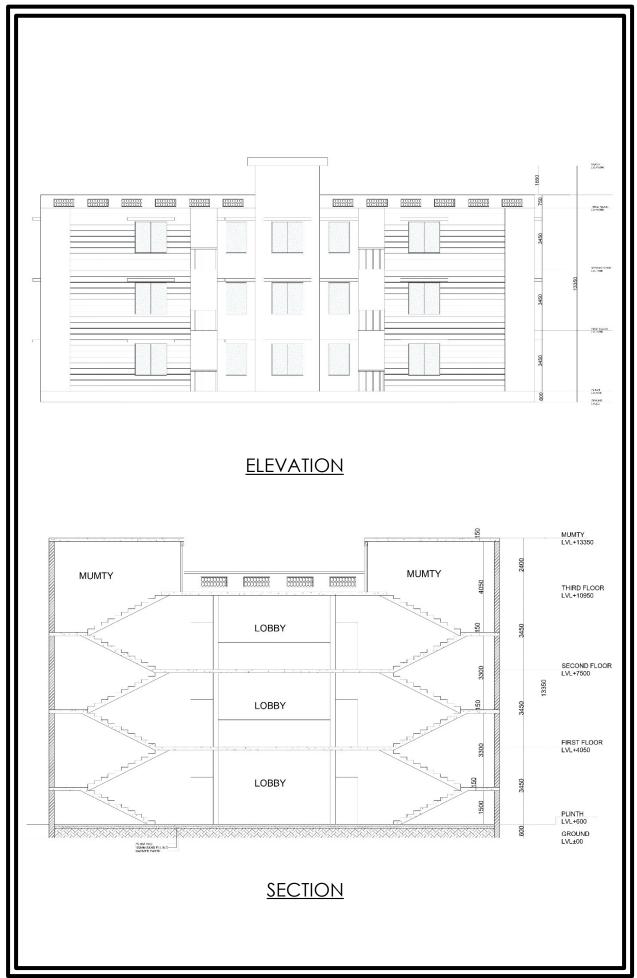




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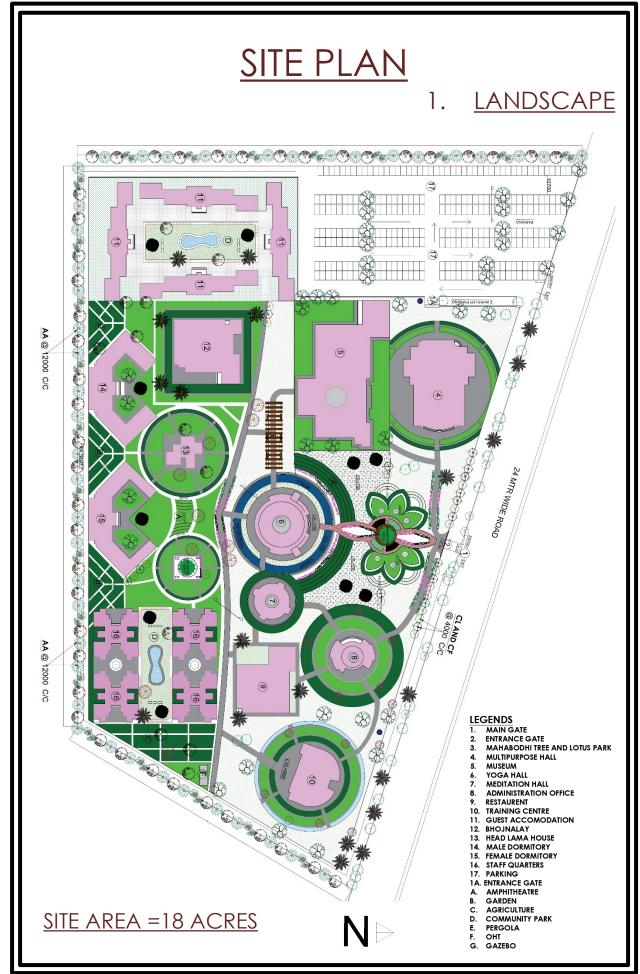


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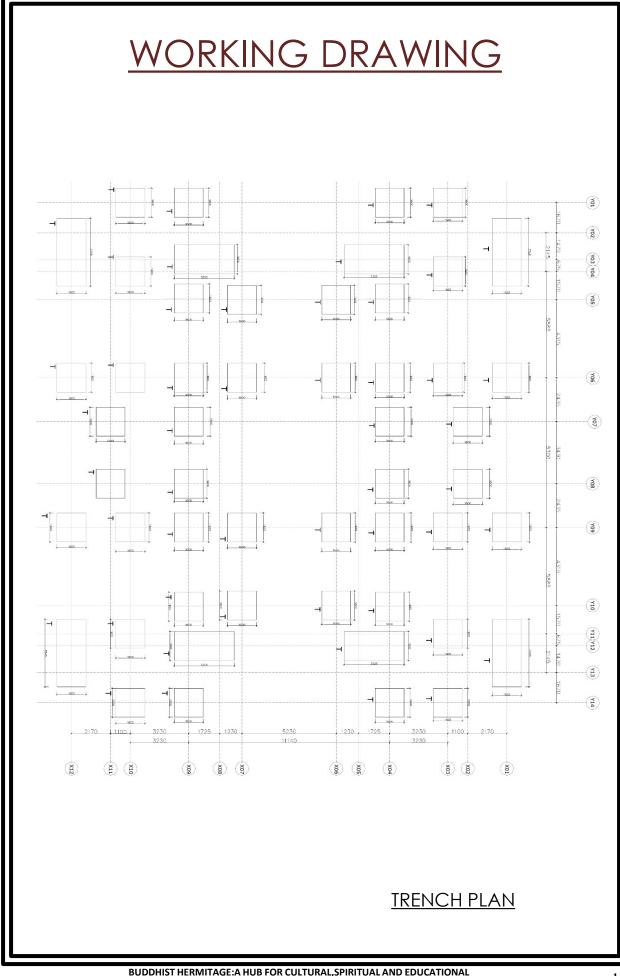
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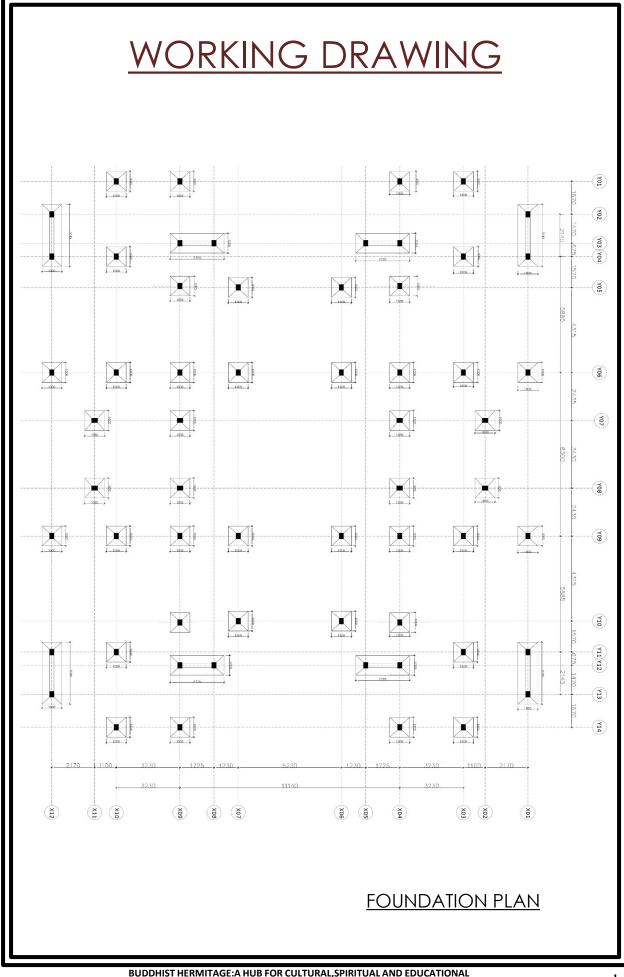
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2. WORKING DRAWING

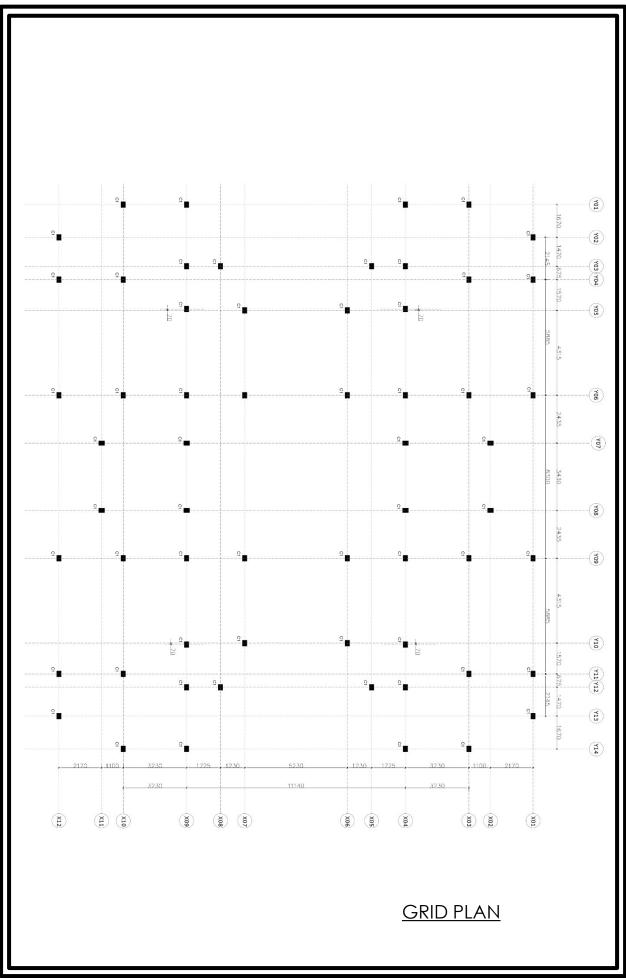


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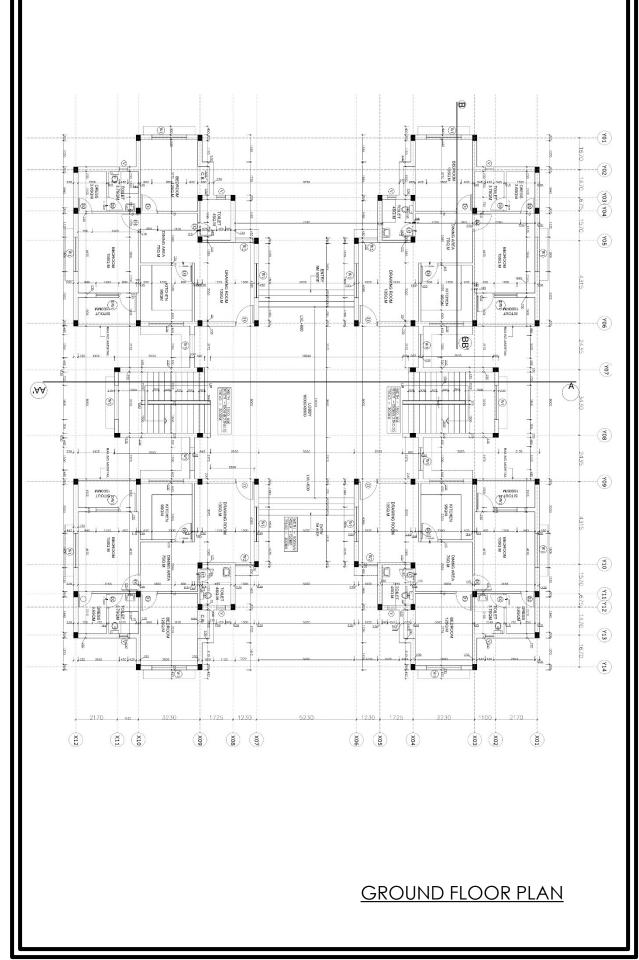




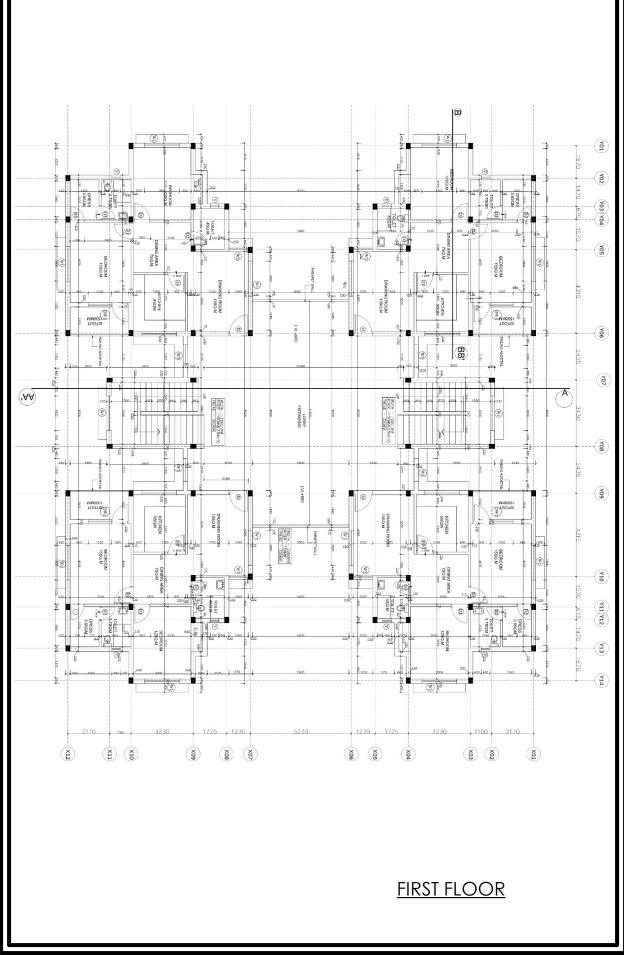
RENAISSANCE, KUSHINAGAR



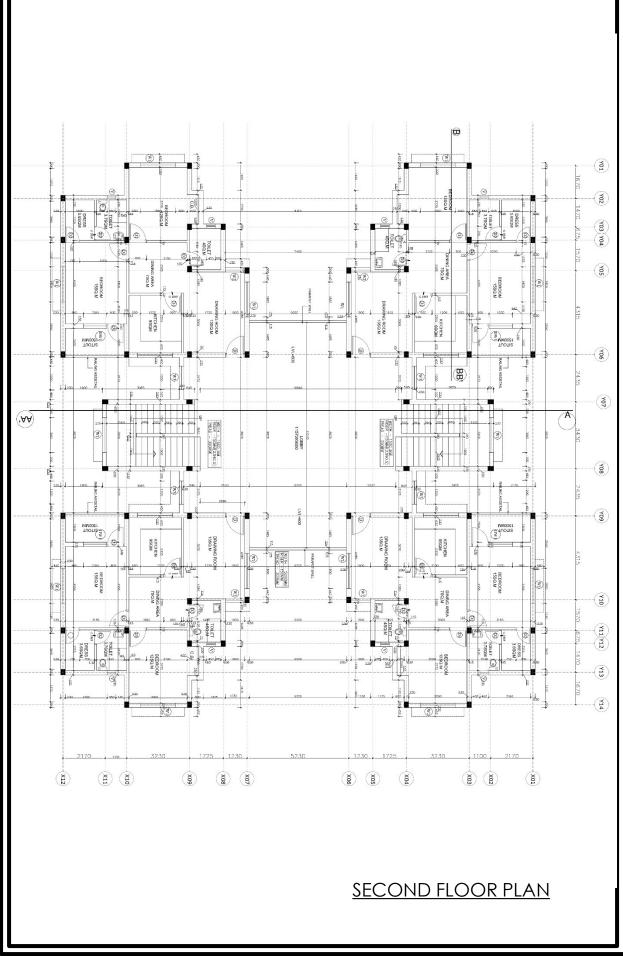
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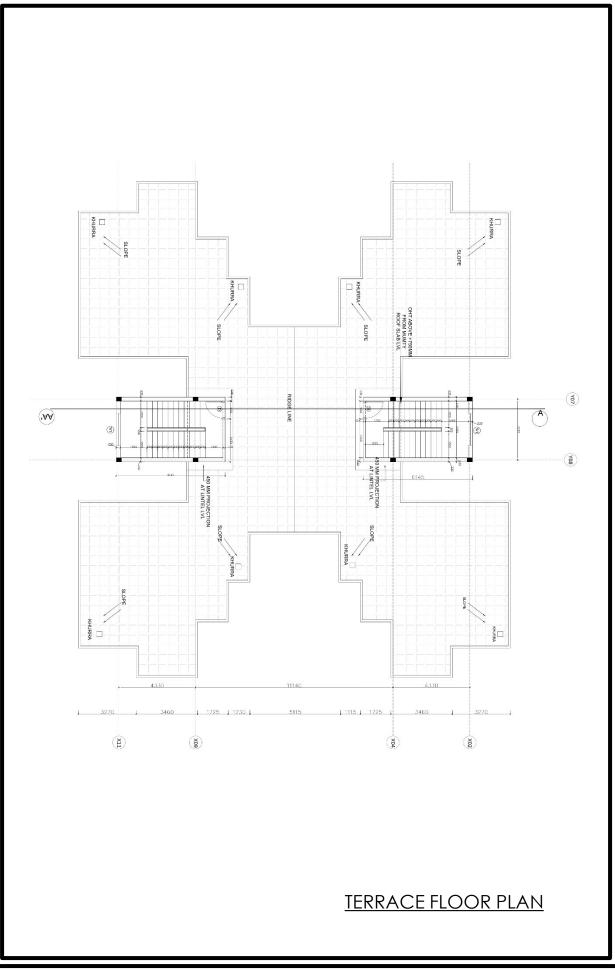
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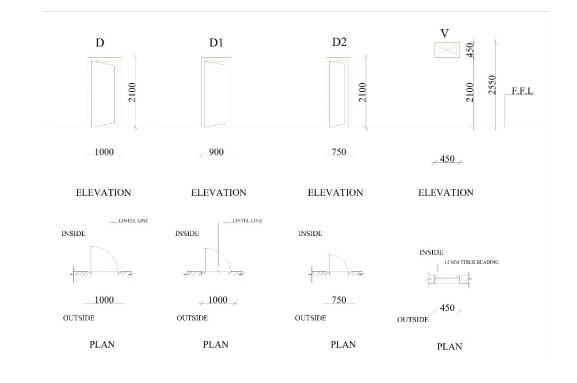


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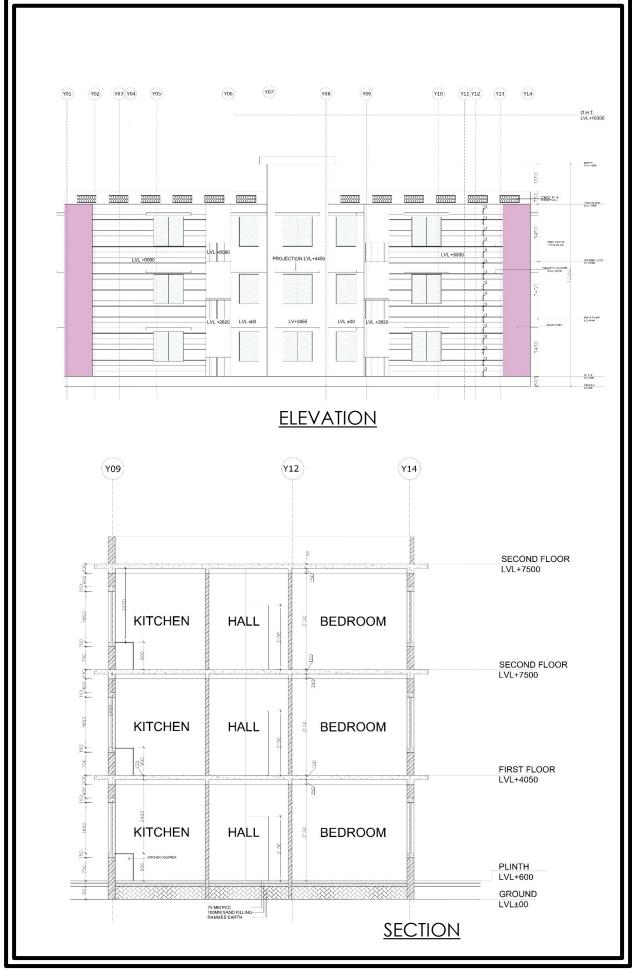


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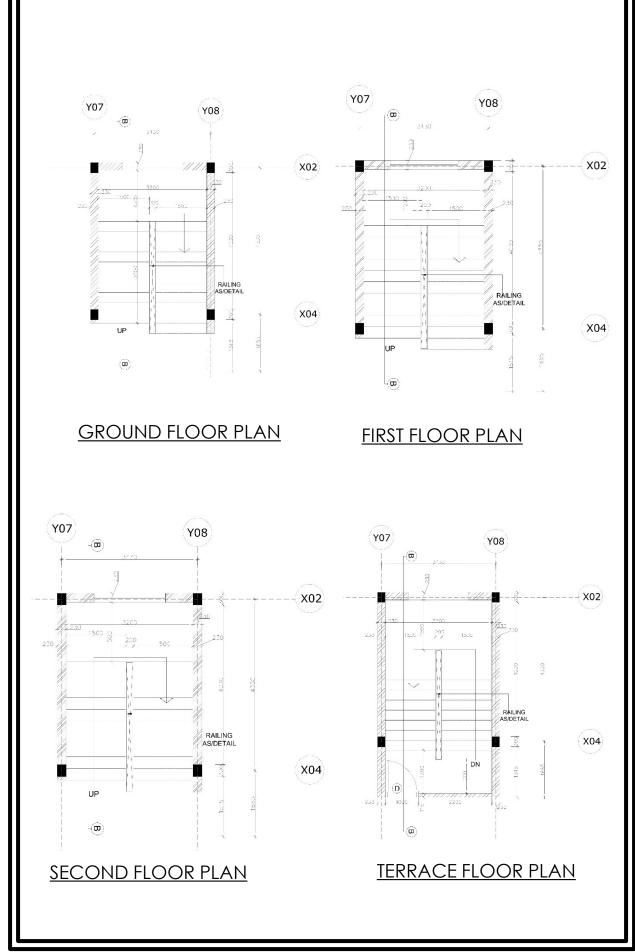
D/W SCHEDULE					
			SILL LIN		TEL
S NO. NAME		SIZE	WINDOWDOOR		WINDOW
1.	D	1000X2100	-	2100	Ξ
2.	D 1	900X2100	8	2100	
3.	D2	750X2100	-	2100	
4.	W1	1800X1800	900	-	2700
6.	W2	1000X1800	900		2700
7.	W3	1200X1800	900	-	2700
8.	DW	900X2100	-	2100	
	DW	1200X1800	900		2100
9.	V	450X450	2100	-	2550



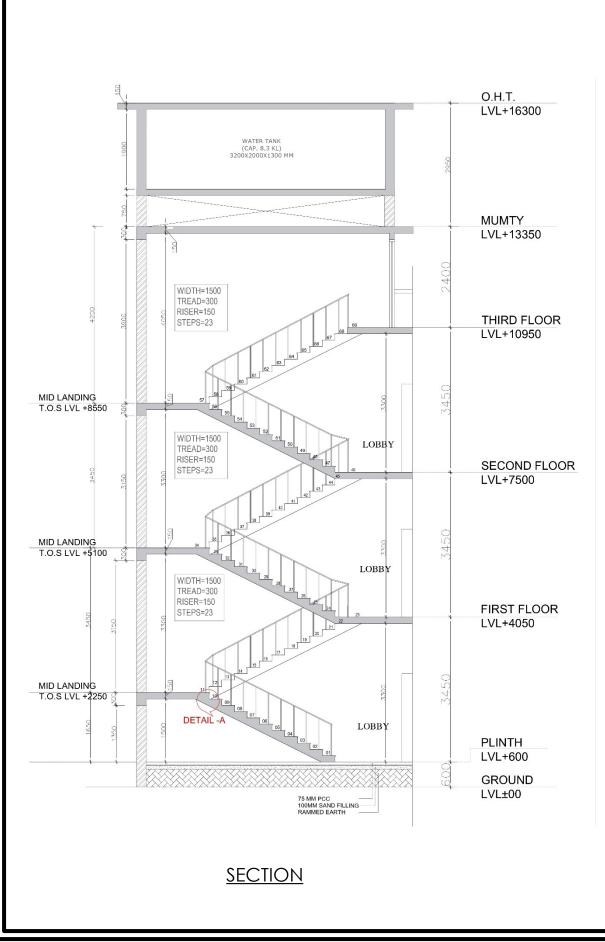
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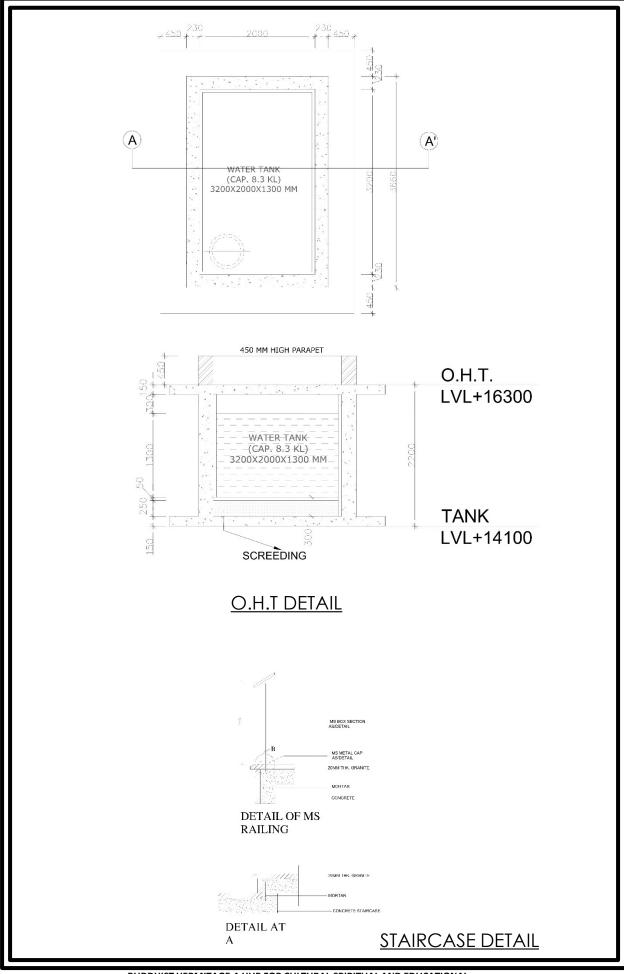
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CONCLUSION

I HEREBY DECLARE THAT THE WORK DONE IN THIS THESIS PROJECT IS MY OWN WORK AND I HAVE COLLECTED THE DATA FROM VARIOUS SOURCES, WHICH I HAVE DULY ACKNOWLEDGED IN MY REPORT.

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Place: Lucknow

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➤ Master architect series - Norman foster

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>www.google.com/earth/

www.scribd .com

>www.4shared.com

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>www.Wikipedia.com

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