



DISSERTATION
SEMESTER 10
Academic Year
2022-23

DAYANAND COLLEGE OF ARCHITECTURE
LATUR

DISSERTATION

Subject Code No: 5-X-1

Lecture Hours: Nil

Studio Hours: 9 per week - 108

Total: 9 - 108

Credits: 12

Term work: 100 Marks

Practical exam: 200 Marks

Theory exam: Nil

Total: 300 Marks

Dissertation is seen as a culmination (final stage) of the development of the student knowledge attitude and skills over the course of studies of Architecture.

Students have submitted synopsis in IXth Semester. The selected subject to be discussed in detail by following procedure.

Students are expected to develop of his/her choice of subject to demonstrate his/her ability to use effectively the tools of independent investigation and judgment to evolve design culture. The application these may be original design of research oriented work. Student shall choose a subject related to Architecture only, by considering following aspects:

- Data collection and analysis.
- User's requirement and justification.
- Feasibility of project economically, physically and socially.
- Climatic considerations / Environmental Issues.
- Selection of site.
- Method of construction / Advance Technology, etc.
- Integrated building services.
- Constructional technologies / structural systems.
- Landscape and Town planning.

At the end of the semester, each student is expected to submit all original drawings prepared as per the specifications of the department with the Guidance of Guide as per the university / college timetable. Three copies of the report in the specified format along with the model submitted to the Department, after obtaining the approval of the respective guides.

The performance sheet submitted by the department. Thesis committee should be the basis for allowing student to appear for the final viva-voce.

For the end exams, viva-voce will be conducted by jury comprising of the external examiners and head of the department of the respective colleges will be internal examiner.

For the final viva-voce 40% internal marks will be assessed by respective guides / HODs of the colleges / Department and 60% will be external marks out of the total 200 marks.



DISSERTATION

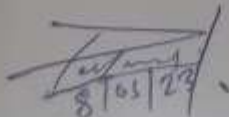
A) Name of College: Dayanand College of Architecture

B) Name Of Course: B.Arch. (Architecture Semester X)

C) Name of Student: Rushikesh Hanmant Kotwad.
PRN – 070/1/2018/967/4

D) Name of the Guide: Ar. Ravindra Chavan And Ar. Renuka
Kale
Dayand College of Architecture, Latur

E) Title of Dissertation: Vishnupad bhakta Niwas and ghat
development at Pandharpur.


8/05/23

Date and Sign of Student

Sign of Guide



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DAYANAND EDUCATION SOCIETY'S
DAYANAND COLLEGE OF ARCHITECTURE,
BARSHI ROAD, LATUR - 413512

CERTIFICATE

This is to certify that a terminal project submitted to Dayanand college of Architecture, Latur affiliated to **SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED.** in in partial fulfillment to requirements for the award of "degree of bachelor of architecture".


**TITLE: VISHNUPAD BHAKTA NIWAS AND GHAT
DEVELOPMENT AT PANDHARPUR**

NAME OF STUDENT: MR.RUSHIKESH HANAMNT KOTWAD


GUIDE
Ar. Ravindra Chavan


PRINCIPAL
Ar. Ravindra Chavan

Ar. Renuka Kale


R.M. TAISHETE
8/05/2023

EXTERNAL JURY



**VISHNUPAD BHAKTA NIWAS AND
GHAT DEVELOPMENT
AT PANDHARPUR.**

**Submitted By
Rushikesh Hanmant Kotwad**

**A dissertation submitted in
partial fulfillment of requirements for the
"DEGREE OF BACHELOR OF ARCHITECTURE"
Swami Ramanand Teerth Marathwada University, Nanded.**

**Guide
Ar. Ravindra Chavan
Ar. Renuka Kale**

**Principal
Ar. Ravindra Chavan**

**Dayanand Shikshan Santha, Latur
Dayanand College of Architecture, Latur
(SRTMUN)
2022-23**

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ARCHITECTURAL THESIS
MARATHWADA
DIVYANG BHAVAN AT
LATUR

DAYANAND COLLEGE OF ARCHITECTURE, LATUR

Name : Apurva S. Baheti

B.Arch. 5th year 2022-2023 sem : IX

Sub : Architectural Thesis

Guide : Prof. Dinesh Dhekane Sir

Topic : Marathwada Divyang Bhavan At Latur

Roll No. : 01



INTRODUCTION

◆ INTRODUCTION

- A disability is any condition of the body or mind that makes it more difficult for the person with the condition to do certain activities and interact with the world around them.
- Elements in the surroundings of a person that, either by their presence or absence, reduce functional or result in limiting. These include things like
- a physically inaccessible environment, a total lack of relevant assistive technology, unbecomable attitudes toward disability among the general public, and a lack of services, systems, and policies that either prevent or make it difficult for all people with disability to participate in all facets of life.
- For the convenience of those with disabilities, several centres are housed under one roof, which can assist them in lowering their overall workload and stress.
- It will assist them in amplifying and making their life easier. Individuals can live their lives in dignity and with respect for their integrity, just like everyone else, and fulfil their rights to equality.



◆ AIM

- To provide all services regarding differently-abled people under one roof and guarantee that each person has access to equal opportunities, equal rights, and a life with dignity and equal quality.

◆ OBJECTIVE

- To research the accessibility issues and difficulties that are experienced by the physically disabled.
- To minimize the challenges faced by people with special needs.
- To study the design of a structure that complies with the standard parameters for safe and convenient Driving Bhawan (usually) centre for people with special needs) to make physically-challenged people self-sufficient for their needs.

◆ SCOPE OF PROJECT

- To research the design parameters for accessibility and space requirements in the workplaces of persons with physical disabilities, including those for activities that require a lot of movement and physical effort.
- Provide a central hub of activity for persons with disabilities to reduce their dependency on others.
- To investigate the behaviour of the general public regarding those who are physically challenged and include the aforementioned in research and design.



◆ NEED OF PROJECT

- INDIA**
POPULATION GROWTH RATE IN INDIA
Year: 2000, 2011, 2021, 2026, 2031, 2036, 2041, 2046, 2051, 2056, 2061, 2066, 2071, 2076, 2081, 2086, 2091, 2096, 2101, 2106, 2111, 2116, 2121, 2126, 2131, 2136, 2141, 2146, 2151, 2156, 2161, 2166, 2171, 2176, 2181, 2186, 2191, 2196, 2201, 2206, 2211, 2216, 2221, 2226, 2231, 2236, 2241, 2246, 2251, 2256, 2261, 2266, 2271, 2276, 2281, 2286, 2291, 2296, 2301, 2306, 2311, 2316, 2321, 2326, 2331, 2336, 2341, 2346, 2351, 2356, 2361, 2366, 2371, 2376, 2381, 2386, 2391, 2396, 2401, 2406, 2411, 2416, 2421, 2426, 2431, 2436, 2441, 2446, 2451, 2456, 2461, 2466, 2471, 2476, 2481, 2486, 2491, 2496, 2501, 2506, 2511, 2516, 2521, 2526, 2531, 2536, 2541, 2546, 2551, 2556, 2561, 2566, 2571, 2576, 2581, 2586, 2591, 2596, 2601, 2606, 2611, 2616, 2621, 2626, 2631, 2636, 2641, 2646, 2651, 2656, 2661, 2666, 2671, 2676, 2681, 2686, 2691, 2696, 2701, 2706, 2711, 2716, 2721, 2726, 2731, 2736, 2741, 2746, 2751, 2756, 2761, 2766, 2771, 2776, 2781, 2786, 2791, 2796, 2801, 2806, 2811, 2816, 2821, 2826, 2831, 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LEARNING CENTER IN INGOLSTADT

GENERAL INFORMATION

- Architect: Hertzog & Kramer
- Location: Ingolstadt, Germany
- Building Type: Institutional Building
- Construction System: Concrete
- Style: Contemporary
- Area of Site: 2000 sqm
- Land Form: 5 Flat Land
- Purpose of Building: Learning and Training Centre for Person with Disability
- Stories: 1
- Date: 2013 - 2006

LOCATION



PURPOSE OF PROJECT

- Learnable by people in an organization which has spiritual, workdays, providing health, training and care for the people with disability.
- It's a learning centre providing vocational training for a people needing to work in its workshop and to also teach the employee training.

ABOUT PROJECT AND CONCEPT

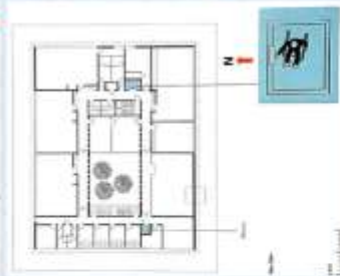
- The site is located in a mixed-use area of the town, and the concept two-story building is designed to make maximum use of the limited space available.
- The prominent projecting roof symbolizes the idea of many people working together under one roof.



PLANNING

- The workshops, classrooms, offices and cafeteria have been placed within a single structure rather than being separated, and the routes between different areas of the building are designed for quick and easy access by all users.
- In annual exterior, the building has become a distinct attractive landmark in an otherwise somewhat uninteresting area.
- The spacious entrance hall serves as a core of communication between the organization and the public.

- Entrances throughout the building and a central courtyard provide direct access for trainees and workers, with the classrooms being arranged in a ring around the courtyard.
- Color plays an important part in the design, using warm, reds to create a feeling of wellbeing, among parts of the center.



SPECIAL FEATURES

- ENTRANCE HALL**
 - The large entrance hall offers both precision and a sense of security.
 - At the entrance, it is a place of exchange of social interactions and of movement from the inside to the outside.
 - The size and academic composition consisting of industrial carpet flooring and warm wall colours significantly contribute to the fact that the apparent contradictions between staying and moving in everyday life situations can be experienced as a unity.



- WORKPLACES**
 - Workplaces are a model for easy professional work.
 - Clear, aesthetically pleasant and functional, the workday is dedicated to the visible crafts.
 - The working devices are height-adjustable and, in any case, are also conveniently readable and operable for absolute-business persons.
 - The handles of the cupboards too have been designed to be accessible to sitting persons.
 - Optimal lighting results off the excellent working conditions.



- TRAINING SPACES**
 - The training spaces that may also be used by external groups or individual persons admit adequate daylight on account of the room-high windows facing the courtyard.



FACADE

- The translucent, dense facade marks the various views between the inside and the outside.
- The glass structure the massive building, turning it into a safe guidance aid together with the white stripes in the parking lot and along the floor of the building which can be conveniently used by visually impaired persons even after dark.



ROOF

- The wide projecting roof of the entrance and training center in this upper location turns by the Danube River in a modern interpretation of a traditional building tradition.
- It gives the massive structure a certain lightness, while the white floor just help visually impaired persons and those with white canes to safely reach the entrance.

OBSERVATIONS

- Connections between all the spaces in the building has a quick and easy access.
- Elevator provided in the building are wheelchair friendly.
- Provided spaces are huge and spacious.
- All spaces, furniture and tools are accessible as well in wheelchair.
- Colors and natural lights plays very crucial role in the accessibility and aesthetic of building.

CONCLUSIONS

- The building is sufficiently accessible.
- Flexibility of lighting and elements in the building observed in planning.

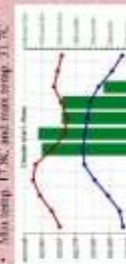
CROSS DISABILITY REHABILITATION CENTER (CDRC), PIMPARI CHINCHAWAD

GENERAL INFORMATION

- Location: Pimpri Chinchwad, Maharashtra
- Address: 15, Savda, Maharashtra
- Building Type: Institutional Building
- Construction System: Concrete
- Style: Contemporary
- Area of Site: 1900 sqm
- Land Form: Flat Land
- Purpose of Building: Alcohol, Therapies & Rehabilitation Centre for Person With Disability
- Stories: 1 & 2
- Date: Starts on 2022

CLIMATIC CONDITIONS

- Four exposures (North, South, East, West), orientation, monsoon, winter.
- Abs of the 800 mm of annual rainfall in the city. The city experiences its highest rainfall in July, which is close to 180mm.
- Min temp. 17.8C, and max temp. 31.7C.



Map This data refers to the last year climatic data.

LOCATION



ACCESSIBILITY

- From airport 16.5 km from site via main road.
- 25 min to reach.
- From Pimpri Chinchwad railway station 1.5 km from site (takes 3 min to reach).
- From Pimpri Chinchwad bus stand 2.8 km from site (takes 8 min to reach).
- From Pimpri Chinchwad metro stop (PCC) 10 min (takes 2 min to reach).

ABOUT PROJECT

- Setting up of Cross Disability Rehabilitation Center (CDRC) which would provide rehabilitative support to persons with disabilities.
- CDRC provides all government services and policies, training programs as well as Therapeutic Services.
- Project is designed for population around Pimpri region with average yearly rainfall is 9000 to 5000 people.

PLANNING



- Private model of an 'inclusive' building based on universal design principles.
- Designed to cater to needs of all 21 types of disabilities per PWPD act 2016 & NR, 2016.
- Integrates accessibility friendly planning, furniture, services, control systems, artwork to encourage education systems all in one.
- State-of-art specialized therapy and counselling areas.
- Building integrated with advanced tools/equipment, assistive aids and technologies for all types of PWDA.
- Offer a simple multi-story environment that can manage all services as per the need of the PWPD.



MATERIAL

- As a Concept Symbols of Disability used for creating awareness. Colors used in symbols of elements.
- Materials Used: ACU (Low Cost Aluminum) Panels and Insulation.
- Personnel Served used to cut of one glass in facade.
- Anti-Slip Flooring provided for traction for wheelchair and people using Canes, and other assistive devices.
- Concrete Floor (Covered) but carpet provided from Material used to enhance as per access.
- Multi-colored tactile and audio signage designed.
- From roof to main entrance lobby Ramp surface is calibrated stone surface.

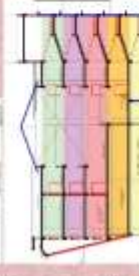


OBSERVATIONS

- The site is easily accessible.
- The plot of the projects is provide as many services or therapies for patients with disabilities in one location is possible.
- Planning a size or proper to show while taking regulations and rules into consideration.
- The construction materials and the structure itself are wheelchair and other disability friendly.

CONCLUSIONS

- Building in size accessibility has been sufficiently established.
- Just the vertical setting of buildings can occasionally cause problems for disabled individuals.
- Try to fill all requirements and provide services for those with above disabilities in their project.



Source: Design budget rehabilitation, Pimpri Chinchwad, Maharashtra, India.

DAVAVAD COLLEGE OF ARCHITECTURE, LATUR
 Name: Akshay B. Bhat
 Date: 29/09/2023
 Sem: IV
 Sub: Architectural Theory
 Guide: Prof. Divyesh Chokare
 Topic: Maharashtra Driving Bureau 20/19
 Roll No.: 91

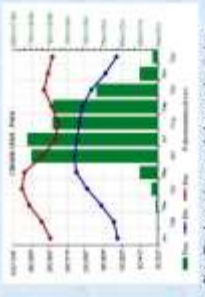
DISTRICT DISABILITY REHABILITATION CENTER (DDRC), PUNE

GENERAL INFORMATION

- Architect - Savita Shindekar
- Location - Auradh, Pune
- Building Type - Institutional Building
- Construction System - Concrete
- Area of Site - 2,200 SQ. M
- Year of Building - 2020
- Purpose of Building - Medical Therapies & Rehabilitation Centre for Person With Disability
- Stories - 4

CLIMATIC CONDITIONS

- Pune has a Tropical climate.
- Pune experiences three seasons - summer, monsoon, winter.
- Most of the 8.5 sun of annual rainfall is in the city. The city experiences its highest rainfall in July, which is close to 180mm.
- Min temp - 17.8C, and max temp - 31.7C



LOCATION



District Disability Rehabilitation Center (DDRC), for Person with Disability (PwDs), proposed in Auradh, near Hospital campus, Pune.

ACCESSIBILITY

- Pune Airport 15.2 km from site takes 52 min to reach.
- Auradh Road railway station 5.5 km from site takes 12 min to reach.
- Auradh bus stand 2.2 km from site takes 6 min to reach.
- Sahaj Nagar metro stop 4.1 km from site takes 10 min to reach.

ABOUT PROJECT

- In the district of Pune, DDRC means hope with disabilities.
- Under a structural system, DDRC offers a range of rehabilitation services, including medical attention, vocational training, the distribution of assistive technology to raise awareness of people with disabilities in the community, and more.
- Project is designed for population around Pune region with average yearly footfall of 5000 to 7000 people.
- Project site is located in Auradh Chest Hospital Campus that is beneficial for Person with disability in case of medical diagnosis.
- The renowned Auradh Chest Hospital will be the landmark.



FUNCTIONS OF DDRC

- Survey & identification of persons with disabilities through camp approach.
- Awareness Generation for encouraging and advancing prevention of disabilities, early detection and interventions etc.
- Early interventions.
- Assessment of need of assistive devices, provision/delivery of assistive devices, follow up of assistive devices.
- Therapeutic services, e.g. Physiotherapy, Occupational Therapy, Speech Therapy etc.
- Facilitation of disability certificate, bio-passes and other concessions/facilities for persons with disabilities.
- Referral and arrangement of surgical correction through Govt. & Charitable institutes.
- Arrangement of loans for self employment, through banks & other financial institutions.
- Counseling of persons with disabilities, their parents & family members.
- Promotion of barrier free environment.
- To provide supportive and complementary services to promote education, vocational training and employment for persons with disabilities through.
- Providing orientation training to teachers, community and families.
- Providing training to persons with disabilities for early restoration and early stimulation for education, vocational training and employment.
- Identifying suitable vocations for persons with disabilities keeping in view local resources and designing and providing vocational training and identifying suitable jobs, we aim to make them economically independent.

DESIGN CONSIDERATIONS

- Barriers free and wheelchair maneuverability throughout the building.
- Ample natural light and cross ventilation.
- Biophilic and multi-sensory Design.
- Green spaces on every floor acting as spill over areas for therapy.
- Flexible planning of spaces.
- Staircase lifts for vertical circulation.
- Unisex/Accessible toilet on every floor.
- Wide corridors with multiple waiting areas.
- Multisensory and interpretive walls serving as dupli.
- Building details regarding low physical effort in use.
- Safety barriers for hazards and tolerance for error.
- Emergency evacuation.



KEY FEATURES

- Human, inviting yet bold and multi-sensory architectural design that stands for 'INCLUSION, DIVERSITY AND ACCESS'.
- Effective integration of the Design intent, Design brief with the functional requirements of the District Rehabilitation Center and all 24 types of disabilities.
- Ensuring Accessibility compliance of all built environment facilities of the center to RPWD-Act 2016, MCRPD Harmonized Guidelines and NBC standards.
- Interior Design and space Planning of all areas of the center in accordance to Universal Design Principles.
- Interpreting technical specifications, assistive technologies and systems, equipment, MEP services and emergency evacuation needed for Accessibility.



USE OF MATERIAL

- The building was built as a concrete structure.
- The covered porch's use of a color slab gives the entrance a great feel.
- The facade is brick clad, which gives the building a powerer attractive appearance.
- The primary material is aluminum powdering, which is used to highlight the edges and emphasize the details of the building's facade.
- The focal point of the building is the hydrotherapy use of insulating tapes.
- The terrace has built-in multiple columns of leaves, signifying flexibility, inclusivity, and diversity.
- It is contemporary and modern due to the use of glass in the building.



OBSERVATIONS

- Vertical zoning is implemented in planning.
- Construction materials are sustainably sourced and easy for people with disabilities to withstand.
- Planning is done with site and building accessibility in mind.
- The concept tries to merge in the building's elevation as well as in the planning process.
- In a season, several amenities and facilities will be available.

CONCLUSIONS

- The site and building clearly defined accessibility makes it exclusive for people with different disabilities.
- Building claim are prepared in accordance with all applicable laws, rules and regulations.
- A detailed and holistic environment is created by careful planning, material selection, and building modernization.
- The therapists and assistants offered in the building will be helpful or useful for the district of Pune's disabled students, making their survival simple and straightforward.

Source: Design Bridge Foundation
 DAVANAGIRI COLLEGE OF ARCHITECTURE LATER
 Name: Ananya S. Bhat
 B.Arch. 5th Year: 2022-2023 sem IX
 Subj: Architectural Theory
 Guide: Prof. Divya Dhasare Sir
 Topic: Maharashtra Dying Building At
 Letter
 Roll No. - 01

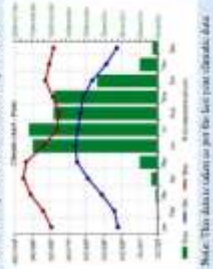
BAL KALYAN SANSTHA, PUNE

GENERAL INFORMATION

- Architect: Pune Institute of Dhyanyog
- Location: Jambh, Pune
- Building Type: Institutional Building
- Construction System: Concrete
- Style: Contemporary
- Area of Site: 12500 sq.ft.
- Land Form: Contours
- Purpose of Building: Physical Therapy & Rehabilitation Institute for Special Children.
- Stories: Only Ground Floor
- Date: Centre opened in 1979

CLIMATIC CONDITIONS

- Pune has a tropical climate.
- Pune experiences three seasons: summer, monsoon, winter.
- Most of the 863 mm of annual rainfall in the city.
- The city experiences the highest rainfall in July, which is close to 180 mm.
- Min temp: 17.8°C and max temp: 33.3°C



LOCATION



ACCESSIBILITY

- Pune Airport 13.5 km from site takes 30 min to reach.
- Amal Road Railway Station 5.6 km from site takes 10 min to reach.
- Jambh Bus stand 4.8 km from site takes 13 min to reach.
- Balwadi Metro stop 6.8 km from site takes 20 min to reach.

ABOUT PROJECT

- Bal Kalyan Sanstha established in 1979 in Pune.
- Pune is a unique institution of its kind, working for the welfare of all types of Dhyanyog.
- At Bal Kalyan Sanstha and Dhyanyog to develop their abilities and be self-reliant.
- The beneficiaries of that institute range in age from 6 to 20, and include 4000 special kids from 85 special schools.

SENSORY GARDEN

- A sensory garden is a unique outdoor space where visitors can engage in a wide range of sensory activities.
- It encourages the use of the five senses, which promotes special needs children in receiving sensory therapy.
- Sensory gardens are spaces with elements, materials, things, trees and living things that appeal to our senses of touch, sight, smell, taste, and hearing.
- These are areas that can be planned with a variety of objectives in mind.

PLANNING

- Site Plan



MATERIAL

- Concrete was used to create the entire structure.
- Pyramidal roofs are covered with corrugated sheets.
- Windows and corridors both have wooden doors with cast iron grills.
- Both ramps and staircases have handrails made of stainless steel.
- Most finished the textured flooring that was installed across the whole structure.

OBSERVATIONS

- The campus has scattered painting with only the white color and wheelchair users can freely move on the campus.
- Several activities and therapies are hosted in the institute.
- The different areas of the institute will have a variety of textures on them.
- A sensory garden is offered to students each of the body's five senses.

CONCLUSIONS

- Both the building and the campus are completely accessible.
- Both the building and the campus enjoy learning a variety of things.
- The institute supports the independence of special children in their daily lives.
- Therapy is made enjoyable by the institute's atmosphere and sensory garden.



GENERAL INFORMATION

- The facility is equipped with all the latest equipment and expert personnel to treat disabilities like autism i.e. self-absorption, multiple disabilities, ADHD, public, walker therapy, physiotherapy, hot and cold hydrotherapy, and loss of physical activities.
- Special part of institution is in sensory park for the special child sensory pathway with various texture which helps the children with sensory activities.
- Therapies Equipment in Institution

PLANNING

- Site Plan



CLIMATIC CONDITIONS

- Latur has a hot - dry climate.
- Summer, monsoon, winter.
- The city experiences its highest rainfall in July, which is close to 212 mm.
- Min temp: 23.8°C and max temp: 32.8°C

LOCATION



ACCESSIBILITY

- Latur Airport 13.3 km from site takes 25 min to reach.
- Latur railway station 4.7 km from site takes 10 min to reach.
- Latur Central bus stand 3.7 km from site takes 15 min to reach.

ABOUT PROJECT

- Umang Institute of Autism and Multidisability research center established in 2021 in Latur.
- The District Social Welfare Department has made an abandoned school a paradise by spending nearly Rs. 1 crore from the Zilla Parishad Drying Fund.

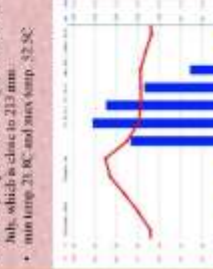
UMANG INSTITUTE OF AUTISM AND MULTIDISABILITY RESEARCH CENTER, LATUR

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ABOUT PROJECT

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- The District Social Welfare Department has made an abandoned school a paradise by spending nearly Rs. 1 crore from the Zilla Parishad Drying Fund.

SPECIAL FEATURES

- Institution is a good start of therapy comes in Latur city.
- Institution is wheelchair Accessible.
- Institution provides therapies like Dark room activities, walker therapy, physiotherapy, hot and cold hydrotherapy, and loss of physical activities.
- Peace, consistency is priority of the institution.
- Special part of institution is in sensory park for the special child sensory pathway with various texture which helps the children with sensory activities.
- Therapies Equipment in Institution

PLANNING

- Site Plan



CLIMATIC CONDITIONS

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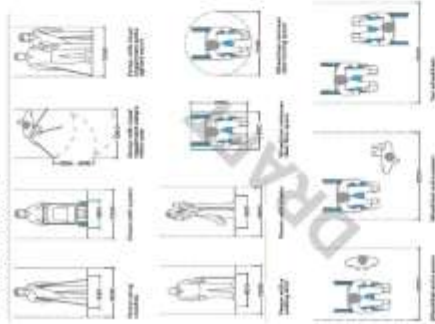
DAVANAND COLLEGE OF ARCHITECTURE, LATUR
 Name: Anurag S. Patil
 Roll No.: 20222023 - 00115
 Sub: Architectural Theory
 Guide: Prof. Dr. Dhanu Dhadane Sir
 Topic: Maharashtra (Dhyanyog Sanstha in Latur)
 Roll No.: 111

COMPARATIVE ANALYSIS

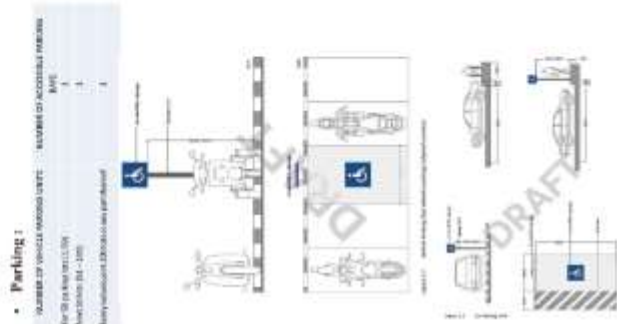
CASE STUDY PARAMETERS		LEARNING CENTER IN INGOLSTADT, GERMANY BY (P. UNLERSHILL & KISSALL)	CROSS-DISABILITY REHABILITATION CENTER, PUNE, MAHARASHTRA, INDIA BY AB. KAVITA MURTHUKAR	DISTRICT DISABILITY REHABILITATION CENTER, AURHUM, PUNE, MAHARASHTRA	UMANO, INSTITUTE OF AUTISM AND MULTI-DISABILITY RESEARCH CENTER, LATIUR, MAHARASHTRA	
LEVEL OF PROJECT	LOCATION	INTERNATIONAL	NATIONAL	NATIONAL	NATIONAL	
	CITY	INGOLSTADT, GERMANY	PUNE, MAHARASHTRA, INDIA	AURHUM, PUNE, MAHARASHTRA, INDIA	INDIA, MAHARASHTRA, PUNE	
SCALE OF PROJECT	ZONE	RESIDENTIAL	COMMERCIAL ZONE	COMMERCIAL ZONE	INDUSTRIAL ZONE	
	SITE AREA	1000 SQM (1.7 ACRES)	1900 SQM (0.50 ACRES)	3200 SQM (0.80 ACRES)	2350 SQM (0.60 ACRES)	
OVERALL SCALE	SCALE	MULTI-SCALE	SMALL SCALE	SMALL SCALE	SMALL SCALE	
	SCALE	MULTI-SCALE	SMALL SCALE	SMALL SCALE	SMALL SCALE	
CONTEXT	INTERNATIONAL	THE NEAREST AIRPORT TO INGOLSTADT IS MUNICH (MUC) AIRPORT WHICH IS 52.3 KM AWAY.	THE NEAREST INTERNATIONAL AIRPORT TO PUNE WHICH IS 16.1 KM AWAY.	THE NEAREST INTERNATIONAL AIRPORT TO PUNE WHICH IS 16.1 KM AWAY.	THE NEAREST INTERNATIONAL AIRPORT TO LATIUR WHICH IS 208 KM AWAY.	
	NATIONAL	THE NEAREST AIRPORT TO PUNE WHICH IS 16.1 KM AWAY.	THE NEAREST INTERNATIONAL AIRPORT TO PUNE WHICH IS 16.1 KM AWAY.	THE NEAREST INTERNATIONAL AIRPORT TO PUNE WHICH IS 16.1 KM AWAY.	THE NEAREST INTERNATIONAL AIRPORT TO LATIUR WHICH IS 208 KM AWAY.	
REGIONAL	INTERNATIONAL	THERE ARE THREE OPTIONS FOR LONG-DISTANCE TRAVEL IN INGOLSTADT: TRAIN, BUS & CARPOOL.	THERE ARE FOUR OPTIONS FOR LONG-DISTANCE TRAVEL IN PUNE: BUS, TRAIN, CAR & METRO.	THERE ARE FOUR OPTIONS FOR LONG-DISTANCE TRAVEL IN PUNE: BUS, TRAIN, CAR & METRO.	THERE ARE THREE OPTIONS FOR LONG-DISTANCE TRAVEL IN LATIUR: BUS, TRAIN, CAR & METRO.	
	NATIONAL	THERE ARE THREE OPTIONS FOR LONG-DISTANCE TRAVEL IN INGOLSTADT: TRAIN, BUS & CARPOOL.	THERE ARE FOUR OPTIONS FOR LONG-DISTANCE TRAVEL IN PUNE: BUS, TRAIN, CAR & METRO.	THERE ARE FOUR OPTIONS FOR LONG-DISTANCE TRAVEL IN PUNE: BUS, TRAIN, CAR & METRO.	THERE ARE THREE OPTIONS FOR LONG-DISTANCE TRAVEL IN LATIUR: BUS, TRAIN, CAR & METRO.	
LAND FORM & NAUTURE	INTERNATIONAL	NO CONTIGUOUS ON SITE	NO CONTIGUOUS ON SITE	11111 ARE CONTIGUOUS ON SITE	NO CONTIGUOUS ON SITE	
	NATIONAL	NO CONTIGUOUS ON SITE	NO CONTIGUOUS ON SITE	11111 ARE CONTIGUOUS ON SITE	NO CONTIGUOUS ON SITE	
TEMPERATURE	INTERNATIONAL	THE WARM SEASON WITH AN AVERAGE HIGH OF 24°C AND LOW OF 13°C. THE COLD SEASON WITH AN AVERAGE LOW OF -1°C AND HIGH OF 21°C.	THE WARM SEASON WITH AN AVERAGE HIGH OF 42°C. THE COLD SEASON WITH AN AVERAGE LOW OF 2°C AND HIGH OF 28°C.	THE WARM SEASON WITH AN AVERAGE HIGH OF 42°C. THE COLD SEASON WITH AN AVERAGE LOW OF 2°C AND HIGH OF 28°C.	THE WARM SEASON WITH AN AVERAGE HIGH OF 32.5°C. THE COLD SEASON WITH AN AVERAGE LOW OF 21.8°C.	
	NATIONAL	THE WARM SEASON WITH AN AVERAGE HIGH OF 24°C AND LOW OF 13°C. THE COLD SEASON WITH AN AVERAGE LOW OF -1°C AND HIGH OF 21°C.	THE WARM SEASON WITH AN AVERAGE HIGH OF 42°C. THE COLD SEASON WITH AN AVERAGE LOW OF 2°C AND HIGH OF 28°C.	THE WARM SEASON WITH AN AVERAGE HIGH OF 42°C. THE COLD SEASON WITH AN AVERAGE LOW OF 2°C AND HIGH OF 28°C.	THE WARM SEASON WITH AN AVERAGE HIGH OF 32.5°C. THE COLD SEASON WITH AN AVERAGE LOW OF 21.8°C.	
ACCESSIBILITY	INTERNATIONAL	INGOLSTADT USUALLY RECEIVES ABOUT 48.1 MILLION VISITORS ANNUALLY.	PUNE CITY USUALLY RECEIVES ABOUT 722 MILLION VISITORS ANNUALLY.	PUNE CITY USUALLY RECEIVES ABOUT 722 MILLION VISITORS ANNUALLY.	LATIUR CITY USUALLY RECEIVES ABOUT 213 MILLION VISITORS ANNUALLY.	
	NATIONAL	INGOLSTADT USUALLY RECEIVES ABOUT 48.1 MILLION VISITORS ANNUALLY.	PUNE CITY USUALLY RECEIVES ABOUT 722 MILLION VISITORS ANNUALLY.	PUNE CITY USUALLY RECEIVES ABOUT 722 MILLION VISITORS ANNUALLY.	LATIUR CITY USUALLY RECEIVES ABOUT 213 MILLION VISITORS ANNUALLY.	
SITE ZONING	INTERNATIONAL	REINVENT PROSPECTIVE BROTHERS EMPLACES THE UNDER-EMPLOYED PEOPLE WORKING TOGETHER UNDER ONE ROOF.	VERTICAL ZONING	VERTICAL ZONING	HORIZONTAL / SCATTERED ZONING	
	NATIONAL	REINVENT PROSPECTIVE BROTHERS EMPLACES THE UNDER-EMPLOYED PEOPLE WORKING TOGETHER UNDER ONE ROOF.	VERTICAL ZONING	VERTICAL ZONING	HORIZONTAL / SCATTERED ZONING	
PHILOSOPHY & CONCEPT	INTERNATIONAL	TO PROVIDE A LEARNING CLIMATE WITH VOCATIONAL TRAINING FOR A PEOPLE INTERESTED TO WORK IN EMPLOYED TRAINING.	AS A CONCEPT SYMBOLS OF DISABILITIES USED TO PROVIDE AN ACCESSIBLE COLOR USED AS SYMBOLS OF ACCESSIBILITY.	TO PROVIDE AN ACCESSIBLE COLOR USED AS SYMBOLS OF ACCESSIBILITY.	TO TREAT THE CHILDREN WITH SPECIAL NEEDS IN A FUTURE.	
	NATIONAL	TO PROVIDE A LEARNING CLIMATE WITH VOCATIONAL TRAINING FOR A PEOPLE INTERESTED TO WORK IN EMPLOYED TRAINING.	AS A CONCEPT SYMBOLS OF DISABILITIES USED TO PROVIDE AN ACCESSIBLE COLOR USED AS SYMBOLS OF ACCESSIBILITY.	TO PROVIDE AN ACCESSIBLE COLOR USED AS SYMBOLS OF ACCESSIBILITY.	TO TREAT THE CHILDREN WITH SPECIAL NEEDS IN A FUTURE.	
AIM FOR PROJECT	INTERNATIONAL	INGOLSTADT HAS 100,000+ PEOPLE WITH DISABILITIES.	CONCEPT, COPTER BLADE, ALUMINUM PANELS, WOODEN SLATS, WOODEN TILES, WOODEN FLOORING.	CONCEPT, CORRUGATED SHEETS, WOODEN PANELS, WOODEN SLATS, WOODEN FLOORING.	CONCEPT, CORRUGATED SHEETS, WOODEN PANELS, WOODEN SLATS, WOODEN FLOORING.	
	NATIONAL	INGOLSTADT HAS 100,000+ PEOPLE WITH DISABILITIES.	CONCEPT, COPTER BLADE, ALUMINUM PANELS, WOODEN SLATS, WOODEN FLOORING.	CONCEPT, CORRUGATED SHEETS, WOODEN PANELS, WOODEN SLATS, WOODEN FLOORING.	CONCEPT, CORRUGATED SHEETS, WOODEN PANELS, WOODEN SLATS, WOODEN FLOORING.	
ARCHITECTURAL STRATEGY	INTERNATIONAL	CONTINUOUS ARCHITECTURE	CONTINUOUS ARCHITECTURE	CONTINUOUS ARCHITECTURE	OLD SCHOOL STRUCTURE	
	NATIONAL	CONTINUOUS ARCHITECTURE	CONTINUOUS ARCHITECTURE	CONTINUOUS ARCHITECTURE	OLD SCHOOL STRUCTURE	
DESIGN STRATEGY	INTERNATIONAL	1. CONDITIONS BETWEEN ON ALL THE ROOFERS IN THE BUILDING HAS A GLASS AND GATE ACCESS. 2. WOODEN MATERIALS IN THE BUILDING ARE ACCESSIBLE. 3. ALL TYPES OF ACCESSIBLE TOOLS AND EQUIPMENT ARE ACCESSIBLE AS WELL AS ADJUSTABLE. 4. COLORING AREA IN THE ACCESSIBILITY AND MATERIALS ARE ACCESSIBLE. 5. THE BUILDING.	1. THE SITE IS EASILY ACCESSIBLE. 2. THE GOAL OF THIS PROJECT IS TO PROVIDE ACCESSIBILITY FOR ALL TYPES OF DISABILITIES. 3. WOODEN MATERIALS ARE ACCESSIBLE. 4. ALL TYPES OF ACCESSIBLE TOOLS AND EQUIPMENT ARE ACCESSIBLE AS WELL AS ADJUSTABLE. 5. COLORING AREA IN THE ACCESSIBILITY AND MATERIALS ARE ACCESSIBLE. 6. THE BUILDING.	1. THE SITE IS EASILY ACCESSIBLE. 2. THE GOAL OF THIS PROJECT IS TO PROVIDE ACCESSIBILITY FOR ALL TYPES OF DISABILITIES. 3. WOODEN MATERIALS ARE ACCESSIBLE. 4. ALL TYPES OF ACCESSIBLE TOOLS AND EQUIPMENT ARE ACCESSIBLE AS WELL AS ADJUSTABLE. 5. COLORING AREA IN THE ACCESSIBILITY AND MATERIALS ARE ACCESSIBLE. 6. THE BUILDING.	1. THE CAMPUS HAS QUALITIES MATCHING WITH ONLY THE COLD FLOOR PLAN. 2. PEOPLE WITH DISABILITIES ARE ACCESSIBLE. 3. WOODEN MATERIALS ARE ACCESSIBLE. 4. ALL TYPES OF ACCESSIBLE TOOLS AND EQUIPMENT ARE ACCESSIBLE AS WELL AS ADJUSTABLE. 5. COLORING AREA IN THE ACCESSIBILITY AND MATERIALS ARE ACCESSIBLE. 6. THE BUILDING.	1. FACILITY BUILDING WITH IN 100+ ROOMS IN SMALL INSTITUTE. 2. THEY ARE NOT EASILY ACCESSIBLE. 3. THE WAY FROM MAIN INSTITUTION BUILDING WITH WOODEN PANELS IS NOT EASILY ACCESSIBLE. 4. WOODEN MATERIALS ARE ACCESSIBLE. 5. THE BUILDING.
	NATIONAL	1. CONDITIONS BETWEEN ON ALL THE ROOFERS IN THE BUILDING HAS A GLASS AND GATE ACCESS. 2. WOODEN MATERIALS IN THE BUILDING ARE ACCESSIBLE. 3. ALL TYPES OF ACCESSIBLE TOOLS AND EQUIPMENT ARE ACCESSIBLE AS WELL AS ADJUSTABLE. 4. COLORING AREA IN THE ACCESSIBILITY AND MATERIALS ARE ACCESSIBLE. 5. THE BUILDING.	1. THE SITE IS EASILY ACCESSIBLE. 2. THE GOAL OF THIS PROJECT IS TO PROVIDE ACCESSIBILITY FOR ALL TYPES OF DISABILITIES. 3. WOODEN MATERIALS ARE ACCESSIBLE. 4. ALL TYPES OF ACCESSIBLE TOOLS AND EQUIPMENT ARE ACCESSIBLE AS WELL AS ADJUSTABLE. 5. COLORING AREA IN THE ACCESSIBILITY AND MATERIALS ARE ACCESSIBLE. 6. THE BUILDING.	1. THE SITE IS EASILY ACCESSIBLE. 2. THE GOAL OF THIS PROJECT IS TO PROVIDE ACCESSIBILITY FOR ALL TYPES OF DISABILITIES. 3. WOODEN MATERIALS ARE ACCESSIBLE. 4. ALL TYPES OF ACCESSIBLE TOOLS AND EQUIPMENT ARE ACCESSIBLE AS WELL AS ADJUSTABLE. 5. COLORING AREA IN THE ACCESSIBILITY AND MATERIALS ARE ACCESSIBLE. 6. THE BUILDING.	1. FACILITY BUILDING WITH IN 100+ ROOMS IN SMALL INSTITUTE. 2. THEY ARE NOT EASILY ACCESSIBLE. 3. THE WAY FROM MAIN INSTITUTION BUILDING WITH WOODEN PANELS IS NOT EASILY ACCESSIBLE. 4. WOODEN MATERIALS ARE ACCESSIBLE. 5. THE BUILDING.	1. FACILITY BUILDING WITH IN 100+ ROOMS IN SMALL INSTITUTE. 2. THEY ARE NOT EASILY ACCESSIBLE. 3. THE WAY FROM MAIN INSTITUTION BUILDING WITH WOODEN PANELS IS NOT EASILY ACCESSIBLE. 4. WOODEN MATERIALS ARE ACCESSIBLE. 5. THE BUILDING.
CONCLUSIONS	INTERNATIONAL	1. THE BUILDING IS SUPPORTIVE ACCESSIBILITY FOR ALL TYPES OF DISABILITIES. 2. IN THE BUILDING ORGANIZED IN PLANNING.	1. BUILDING ON SITE ACCESSIBILITY AND REFINEMENT. 2. ALL TYPES OF ACCESSIBLE TOOLS AND EQUIPMENT ARE ACCESSIBLE AS WELL AS ADJUSTABLE. 3. WOODEN MATERIALS ARE ACCESSIBLE. 4. ALL TYPES OF ACCESSIBLE TOOLS AND EQUIPMENT ARE ACCESSIBLE AS WELL AS ADJUSTABLE. 5. COLORING AREA IN THE ACCESSIBILITY AND MATERIALS ARE ACCESSIBLE. 6. THE BUILDING.	1. BUILDING ON SITE ACCESSIBILITY AND REFINEMENT. 2. ALL TYPES OF ACCESSIBLE TOOLS AND EQUIPMENT ARE ACCESSIBLE AS WELL AS ADJUSTABLE. 3. WOODEN MATERIALS ARE ACCESSIBLE. 4. ALL TYPES OF ACCESSIBLE TOOLS AND EQUIPMENT ARE ACCESSIBLE AS WELL AS ADJUSTABLE. 5. COLORING AREA IN THE ACCESSIBILITY AND MATERIALS ARE ACCESSIBLE. 6. THE BUILDING.	1. LOCATION OF BUILDING IS IN RURAL AREA. 2. LOCATION OF BUILDING IS IN RURAL AREA. 3. LOCATION OF BUILDING IS IN RURAL AREA. 4. LOCATION OF BUILDING IS IN RURAL AREA. 5. LOCATION OF BUILDING IS IN RURAL AREA. 6. LOCATION OF BUILDING IS IN RURAL AREA.	
	NATIONAL	1. THE BUILDING IS SUPPORTIVE ACCESSIBILITY FOR ALL TYPES OF DISABILITIES. 2. IN THE BUILDING ORGANIZED IN PLANNING.	1. BUILDING ON SITE ACCESSIBILITY AND REFINEMENT. 2. ALL TYPES OF ACCESSIBLE TOOLS AND EQUIPMENT ARE ACCESSIBLE AS WELL AS ADJUSTABLE. 3. WOODEN MATERIALS ARE ACCESSIBLE. 4. ALL TYPES OF ACCESSIBLE TOOLS AND EQUIPMENT ARE ACCESSIBLE AS WELL AS ADJUSTABLE. 5. COLORING AREA IN THE ACCESSIBILITY AND MATERIALS ARE ACCESSIBLE. 6. THE BUILDING.	1. BUILDING ON SITE ACCESSIBILITY AND REFINEMENT. 2. ALL TYPES OF ACCESSIBLE TOOLS AND EQUIPMENT ARE ACCESSIBLE AS WELL AS ADJUSTABLE. 3. WOODEN MATERIALS ARE ACCESSIBLE. 4. ALL TYPES OF ACCESSIBLE TOOLS AND EQUIPMENT ARE ACCESSIBLE AS WELL AS ADJUSTABLE. 5. COLORING AREA IN THE ACCESSIBILITY AND MATERIALS ARE ACCESSIBLE. 6. THE BUILDING.	1. LOCATION OF BUILDING IS IN RURAL AREA. 2. LOCATION OF BUILDING IS IN RURAL AREA. 3. LOCATION OF BUILDING IS IN RURAL AREA. 4. LOCATION OF BUILDING IS IN RURAL AREA. 5. LOCATION OF BUILDING IS IN RURAL AREA. 6. LOCATION OF BUILDING IS IN RURAL AREA.	

DATA COLLECTION

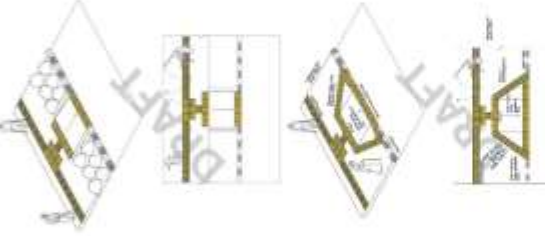
ANTHROPOMETRIC AND SPATIAL ALLOWANCES



External Accessible Elements



Kerb ramp



Line-type

- Tactile guiding or directional indicators are used to direct the user from one point to another along a safe path of travel.
- They are only required when there are unaffiliated cores from other sources to achieve the same result.
- For example, a directional indicator may be used in an open pedestrian plaza to indicate a clear path of travel in the absence of any other cues.

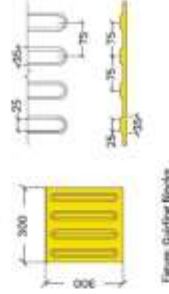


Figure 8.1.1: Line-type tactile paving blocks

Figure 8.1.2: Tactile paving density

Tactile paving layout

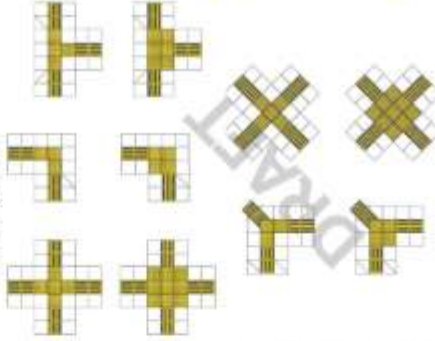


Figure 8.1.2: Tactile paving layout

Layout of tactile guiding path

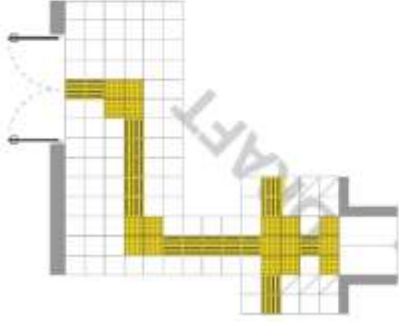


Figure 8.1.3: Layout of tactile guiding path

Handrail Extensions

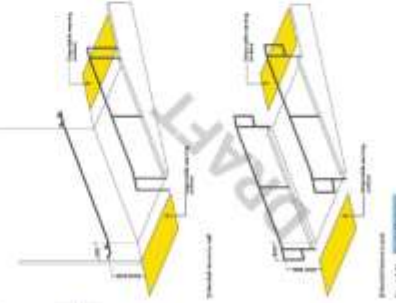


Figure 8.1.4: Handrail extensions

Internal Accessible Elements

Counters

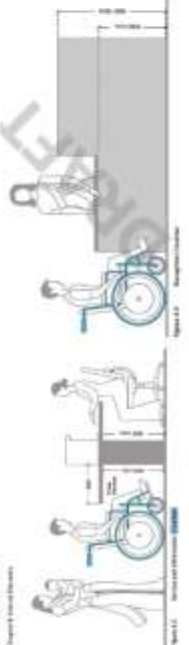


Figure 8.1.5: Internal accessible elements

CITY COMPARISON

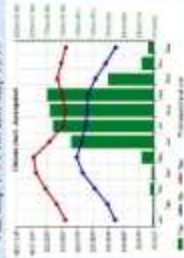
AURANGABAD

LOCATION



ACCESSIBILITY

- Aurangabad has a typical climate
- Aurangabad experiences three seasons: monsoon, winter, and summer
- Most of the 790 km of national road is in the city
- The city experiences an average rainfall of 1196 mm
- Major roads are: NH-50 and NH-170
- Major roads are: NH-50 and NH-170



CLIMATE

- Aurangabad has a typical climate
- Aurangabad experiences three seasons: monsoon, winter, and summer
- Most of the 790 km of national road is in the city
- The city experiences an average rainfall of 1196 mm
- Major roads are: NH-50 and NH-170
- Major roads are: NH-50 and NH-170

HOW TO REACH

By Air: Aurangabad is well connected to major cities in Maharashtra and other parts of the country. National Highway 170 runs from Aurangabad to Mumbai, Pune, Ahmednagar, and Nashik. Major roads connect Aurangabad to other cities in Maharashtra.

By Train: Aurangabad is well connected to major cities in Maharashtra and other parts of the country. National Highway 170 runs from Aurangabad to Mumbai, Pune, Ahmednagar, and Nashik. Major roads connect Aurangabad to other cities in Maharashtra.

FEATURES

- Aurangabad is a city known for its rich cultural and historical heritage.
- Aurangabad is a city known for its rich cultural and historical heritage.
- Aurangabad is a city known for its rich cultural and historical heritage.
- Aurangabad is a city known for its rich cultural and historical heritage.

BOUNDARIES

- Aurangabad is a city known for its rich cultural and historical heritage.
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- Aurangabad is a city known for its rich cultural and historical heritage.

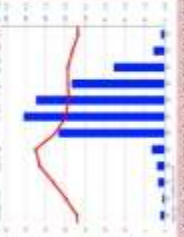
LATUR

LOCATION



ACCESSIBILITY

- Latur has a low city climate
- Latur experiences three seasons: monsoon, winter, and summer
- The city experiences an average rainfall of 1196 mm
- Major roads are: NH-50 and NH-170
- Major roads are: NH-50 and NH-170



CLIMATE

- Latur has a low city climate
- Latur experiences three seasons: monsoon, winter, and summer
- The city experiences an average rainfall of 1196 mm
- Major roads are: NH-50 and NH-170
- Major roads are: NH-50 and NH-170

HOW TO REACH

By Air: Latur is a city known for its rich cultural and historical heritage.

By Train: Latur is a city known for its rich cultural and historical heritage.

FEATURES

- Latur is a city known for its rich cultural and historical heritage.
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LATUR

HOW TO REACH

By Air: Latur is a city known for its rich cultural and historical heritage.

By Train: Latur is a city known for its rich cultural and historical heritage.

FEATURES

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BOUNDARIES

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- Latur is a city known for its rich cultural and historical heritage.

REASON FOR COMPARING THESE TWO DISTRICTS

WELCOME

Department of Empowerment of Persons with Disabilities
Ministry of Social Justice & Empowerment
Government of India

110 districts identified and approved for setting up of DDRCs out of which 282 have been set up so far.

310 Districts identified and approved for setting up DDRC.

Out of them only two districts are selected for the Maharashtra region and they are Aurangabad District and Latur District.

Any Government proposal which set up for PWDs comes under DDRC.

COMPARATIVE ANALYSIS

AURANGABAD

- Total population of Aurangabad District is 1,31,12,780 out of them 1,61,799 people having some sort of disability.
- Out of total population Region Disabled are 1,10,000.
- There are almost 12 government, semi government and private disability centers in Aurangabad. They are insufficient for the district.
- Facility centers in Aurangabad are proper and well equipped.
- Aurangabad is connected with only two districts of Maharashtra Region.
- Aurangabad is a major attraction as a hub for people with disabilities.

LATUR

- Total population of Latur District is 1,45,11,000, out of them 1,61,799 people having some sort of disability.
- The percentage of disabled people in Latur district is 1.1% which is higher than compare to Aurangabad District.
- There are only 3 facility centers in the Latur, with insufficient facilities. They are insufficient for the Latur District.
- Facility centers in the Latur are not well equipped and are not connected with other districts.
- Latur is connected with a District in the Maharashtra Region which is more beneficial for the people with disabilities.
- Latur is a major attraction as a hub for people with disabilities.

CONCLUSION

- Latur District has a higher disability growth rate as compared to Aurangabad District.
- Compared to other districts, Aurangabad District offers adequate services for dealing with people with disabilities. Disability services are lacking in the Latur district.
- There are not enough well-equipped amenities in the Latur District for therapeutic, recreational, training centers.
- Latur District has a greater need for this project than the Aurangabad District districts.

DAVANAND CURLEGE OF ARCHITECTURE, LATUR

Shree Anand S. Babar
B.Arch., 3rd year, 2022-2023, year: IX
605, Archdiagonal, Dahanu
Opp. to the Jeev Bhawan, Dahanu
Tal. M. Jalgaon, Dist. Jalgaon, Gujarat, India
Roll No. 21

SITES COMPARISON

SITE 1

❖ LOCATION



❖ GENERAL INFORMATION

- Address: Opposite to the District Court, Lokanarayn Tikhe Chok, Latur
- Area: 2.5 Acre
- Dimensions: East Side - 76.50 m
West Side - 52.50 m
South Side - 166.5 m
- Approach Road: North side has 30m wide main road
South side have 30m wide main road
- Zone: Commercial Zone (Government reserved Land)
- Site Surroundings: Towards west side - open government land
Towards north side - district court and main road
Towards south side - main road and De-Bikhera school



❖ ACCESSIBILITY



Central Bus Stand of Latur is 1.4 km. away from the site which takes 3 min to reach

Latur Railway Station is 5.9 km. away from the site which takes 14 min to reach

Latur Airport is 16.2 km. away from the site which takes 23 min to reach

❖ ABOUT SITE

- On the north and south sides of the site, there are 2 main access roads.
- Due to the heavy traffic on these two access roads, there will be an increase in noise and air pollution.
- Both commercial and administrative developments for the government surround this site.
- The site will be more advantageous for commercial projects because of its surroundings.
- There will be many old unused structures on site that need to be demolished for new construction.

SITE 2

❖ LOCATION



❖ GENERAL INFORMATION

- Address: Near Railway Station Road, NIS48EB, Latur
- Area: 3 Acre
- Dimensions: East Side - 103.5 m
West Side - 92.50 m
South Side - 131.25 m
North Side - 111.5 m
- Road Approach: North side has 30m wide main road
West side has 30m wide pathway
- Zone: Industrial Zone
- Site Surroundings: Towards west side - industrial open space
Towards north side - residential buildings
Towards south side - NIS 548D and old way station
Towards south side - industrial Bangaloo.



❖ ACCESSIBILITY



Central Bus Stand of Latur is 5.9 km. away from the site which takes 14 min to reach

Latur Railway Station is 1.1 km. away from the site which takes 3 min to reach

Latur Airport is 15.7 km. away from the site which takes 30 min to reach

❖ ABOUT SITE

- There are two access roads to the site. A main road is on the north side, and a pathway is on the west side.
- The location of the site is busy crowded because it is inside of the city.
- Due to the site's location in an industrial area, there will be major industrial pollution.
- The key concern will be transportation because of the site's location; it is difficult to use transportation to reach.
- The lack of amenities like hospitals, laboratories, medical facilities, etc. Means support services are not available near the site.

SITE 3

❖ LOCATION

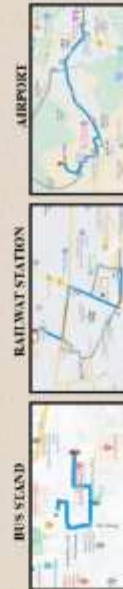


❖ GENERAL INFORMATION

- Address: Near Government Hospital, Ganathi Chok, Latur
- Area: 4 Acre
- Dimensions: East Side - 100 m
West Side - 100 m
South Side - 105 m
North Side - 105 m
- Road Approach: West side has 15m wide main road
South side has 9m wide pathway
- Zone: Transportation Zone (Government Reserved Land. Government poses a notice for change the zone)
- Site Surroundings: Towards East Side - Government Open Space
Towards West Side - Approach Road
Towards North Side - Karantika Ganathi SuperSpeciality Hospital, Latur
Towards South Side - Government Hospital, Latur.



❖ ACCESSIBILITY



Central Bus Stand of Latur is 100 m. away from the site which takes 3 min to reach

Latur Railway Station is 6.6 km. away from the site which takes 15 min to reach

Latur Airport is 16.9 km. away from the site which takes 33 min to reach

❖ ABOUT SITE

- The location is situated between the government hospital, medical college and Karantika Ganathi Women's Speciality Hospital.
- The site's main benefit is the connection between the two hospitals and the proposed site, which will serve to improve a disability therapy or medical care.
- The location of the site is in the center of the city.
- Any mode of transportation may possibly access the location.
- There will be less noise and air pollution on the west side because there is only one approach road.
- The best advantage of the site is all the support services and necessary amenities lie within the 1 km radius.

❖ CONCLUSION

All above the compared sites :
site 3rd is ideal for the proposed project in every way, including accessibility, surroundings, facilities, etc.

SITE ANALYSIS

PROPOSED SITE



SITE SURROUNDINGS

1. Towards East Side - Government Open Space



2. Towards West Side - Approach Road



3. Towards North Side - Kawarba Gandhi Super specialty Hospital, Latour



4. Towards South Side - Government Hospital, Latour



GENERAL INFORMATION

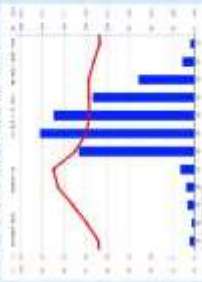
- **Address:** Near Government Hospital, Gandhi Clock, Latour
- **Area:** 4 Acres
- **Dimensions:** East Side - 100 m
West Side - 100 m
South Side - 165 m
North Side - 165 m
- **Road Approach:** West side has 15m wide main road. South side has 5m wide pathway.
- **Zones:** Transportation Zone (Government Reserved Land). Government passes a notice for change the zone)
- **Site Surroundings:**
 1. Towards East Side - Government Open Space
 2. Towards West Side - Approach Road
 3. Towards North Side - Kawarba Gandhi Super specialty Hospital, Latour
 4. Towards South Side - Government Hospital Latour

LOCATION OF SITE



CLIMATE

- Latour has a hot - dry climate
- Latour experiences three seasons - summer, monsoon, winter
- The city experiences its highest rainfall in July, which is close to 215 mm
- Mean temp: 21.8C and max temp: 32.5C



ACCESSIBILITY

- Central Bus Stand of Latour is 800 m. away from the site which takes 1 min to reach.
- Latour Railway Station is 6.6 km. away from the site which takes 15 min to reach.
- Latour Airport is 16.9 km. away from the site which takes 35 min to reach.

East to West slope graph of site, site inclined at East to West by 3m



South to North slope graph of site, site inclined at North to South by 1m



DADASAHEB COLLEGE OF ARCHITECTURE, LATOUR
 10th Floor, 5th Block
 5th Anniversary
 Date: Prof. Dadasaheb Sir
 Roll No. 11

SITE ANALYSIS

❖ AIR POLLUTION ANALYSIS ON SITE



- Effect of air pollution can be seen on both sides of site, where the road passes through.

❖ SOUND POLLUTION ANALYSIS ON SITE



- Since site is surrounded by two roads, 15m wide road at west side and 3m wide pathway at south side.
- Maximum sound pollution observed from those sides of site during peak hours when maximum traffic congestion observed on these road junctions.

❖ CONTOUR ANALYSIS ON THE SITE



- There is a slight slope on site.
- The site utilizes north to south by 1m and east to west by 3m.

❖ VEGETATION ON THE SITE



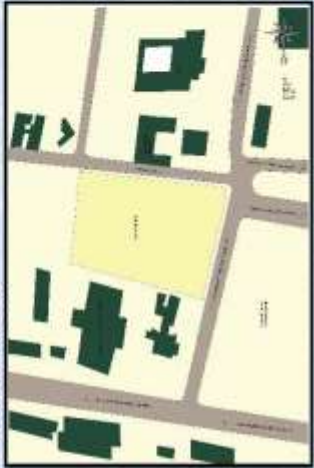
- There are only two trees on this site.
- Whole site is covered with native grass as well as with wild shrubs.
- Other than that some trees are planted along within the 3m wide pathway at south side.

❖ SUN PATH AND WIND DIRECTION ON SITE



- South west direction is critical sun direction.
- South-west is the direction at which the rays are most direct and intense. This can result in high temperatures and dry conditions.
- The site has prominent winds from south-west to north-east direction for most of the year.

❖ ROAD NETWORK



- The Laxar city has dense road network but most of the roads are narrow and has many exits, causing extreme traffic problems during peak hours.
- The site has two important road connections first one which is very important road for the access of site is passes through the main market to the Quidhi Chok.
- And another important road is towards Shary Chok.

❖ TRAFFIC ANALYSIS



- Site map showing the traffic analysis at the road junction near to the site.
- These road junctions are at peak times of the day (morning: 9 to 10am, afternoon: 4pm and evening: 7-8pm) for one to two hours in the junctions or roads.

❖ VEGETATION COVER



- The map showing the vegetation cover in around the site.
- There is dense vegetation around.
- There is very less vegetation currently on the site.

❖ BUILT MASS



- Satellite image showing the density of construction around the site.
- It is observed that maximum number of building situated on the South-East or South-West direction.
- There is a commercial complex, residential buildings, institutional building, hospital all types of building surrounded the site.

❖ SERVICES



- Water supply, Drainage, Electricity etc. important services can be easily avoided on the site.

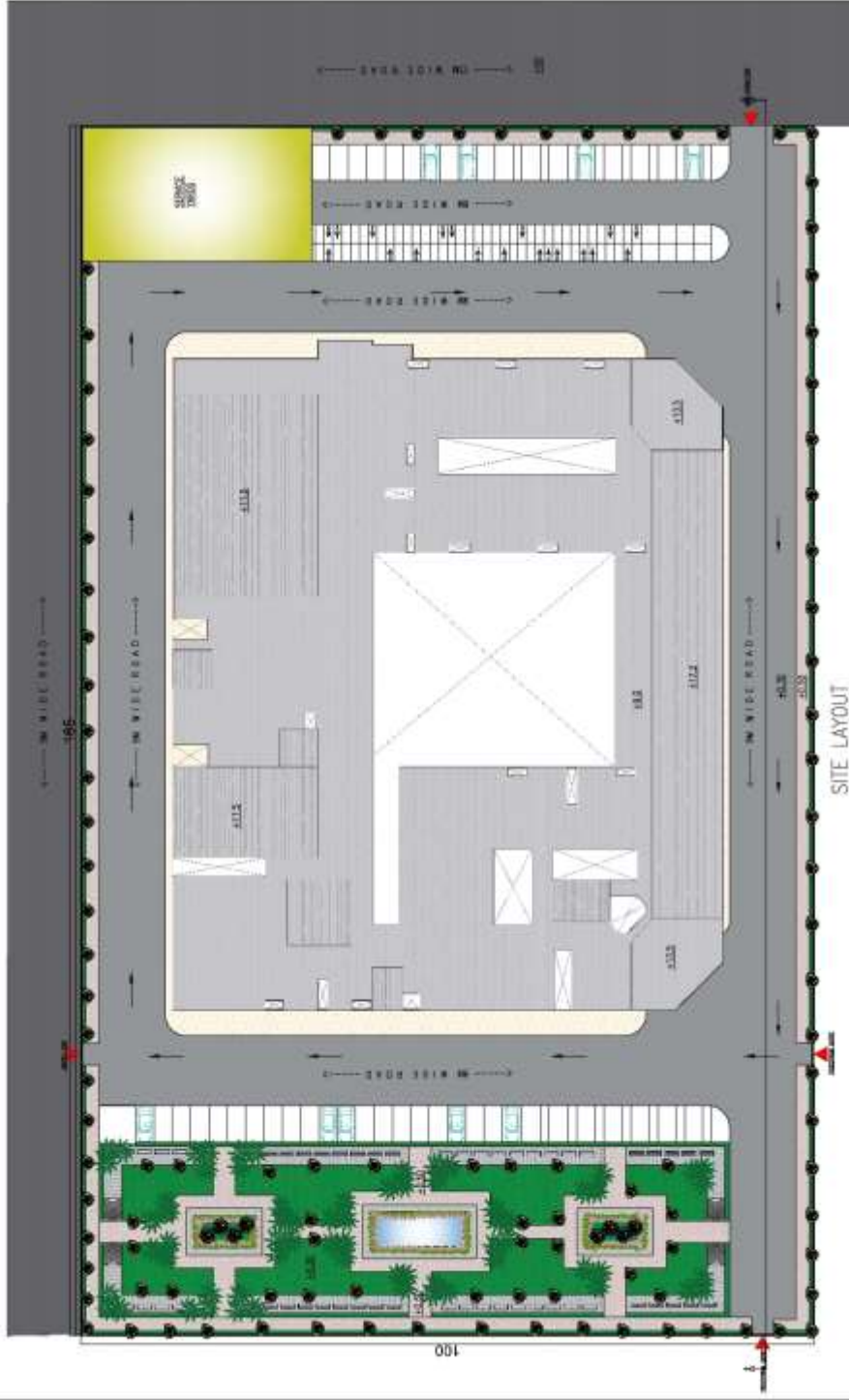
❖ CURRENT SITUATION OF SITE



DAVANAND COLLEGE OF ARCHITECTURE, LAXAR
 B. Arch - 5th year - 2022-2023 sem - IX
 Sub - Urbanization Theory
 Guide - Prof. Dhanu Chakraborty
 Roll No. - 01



SECTION AA



AREA STATEMENT
 PLOT AREA : 10500 SQ.MT.
 GROUND FLOOR AREA : 4.286 SQ.MT
 FIRST FLOOR AREA : 3.195 SQ.MT
 TOTAL AREA : 7475 SQ.MT
 AVAILABLE FS : 1/1
 FS COVERED : 0/8



MARATHWADA DIVYANG BHAVAN AT LATUR

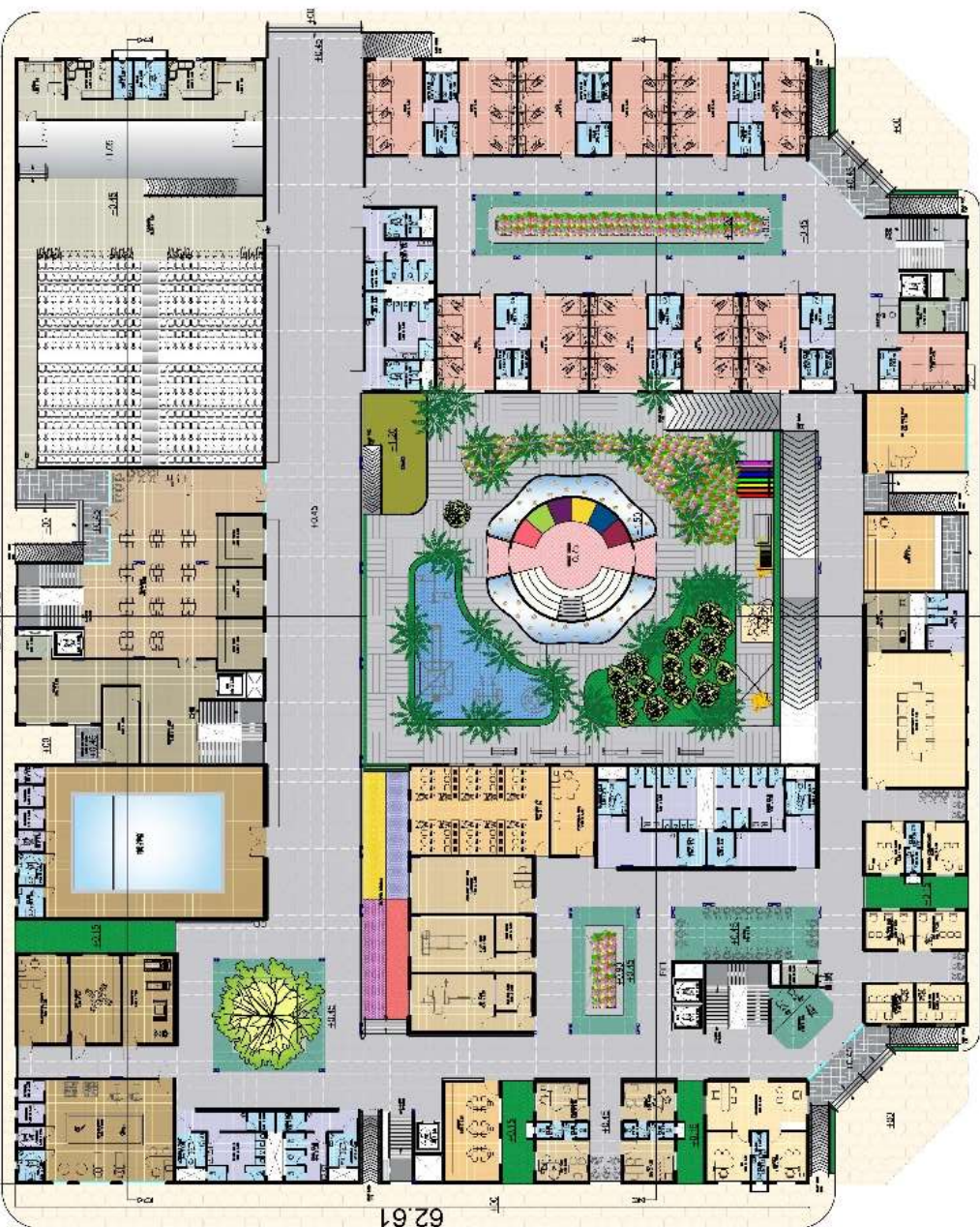
DAYANAND COLLEGE OF ARCHITECTURE	STAMP
NAME : AFURVA S. BAHETI	
F.Y.B. ARCH. 2022-2023	SEM: X
SUB : THESIS PROJECT	
SCALE : 1:300	ROLL NO: 01

DATE

SIGN

88.89

62.61



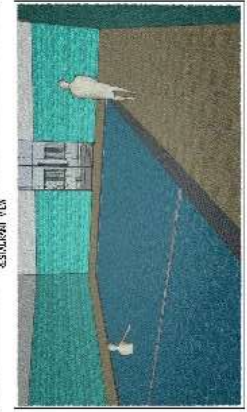
RECEPTION AREA VIEW



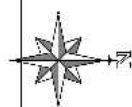
WAITING AREA VIEW



STAIRCASE VIEW



RECEPTION AREA VIEW



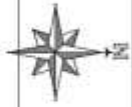
GROUND FLOOR PLAN

MARATHWADA DIVYANG BHAVAN AT LATUR

DAYANAND COLLEGE OF ARCHITECTURE	STAMP
NAME : APUJYA S. RAHFTI	
F.Y.B. ARCH 2022-2023	SEM: X
SUBJ: THESSIS PROJEC	
SCALE: 1:175	ROLL NO: 07

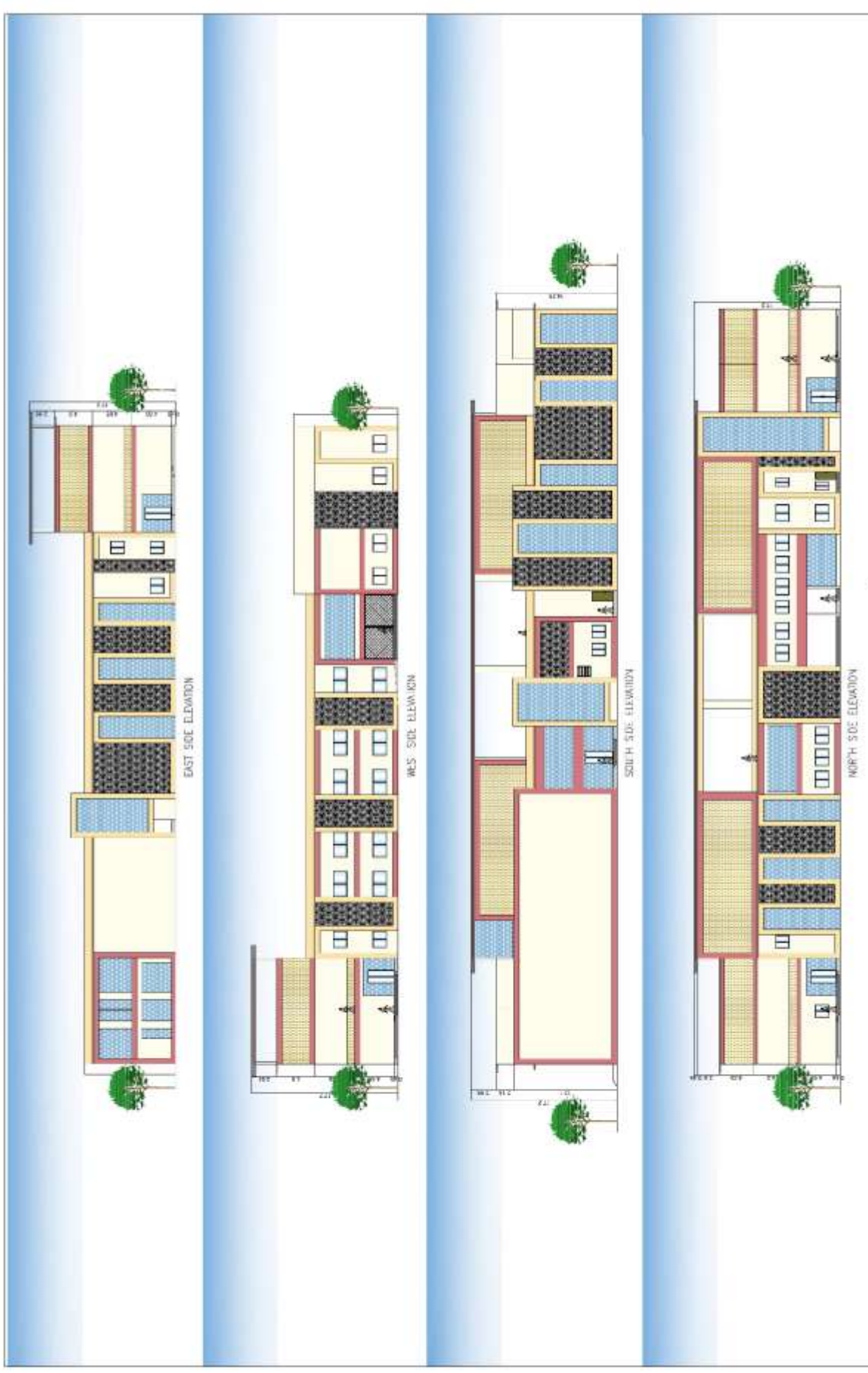


FIRST FLOOR PLAN



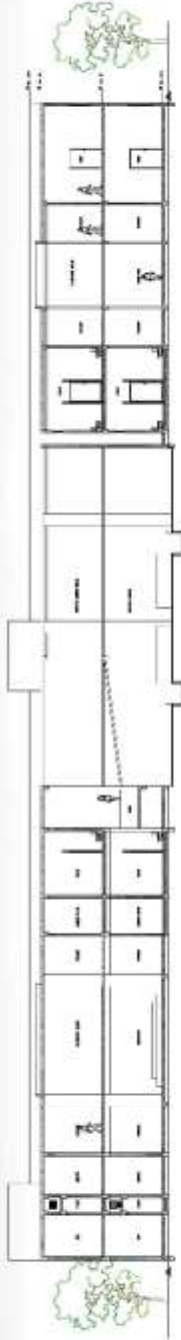
DAYANAND COLLEGE OF ARCHITECTURE	DATE	SIGN	STAMP
NAME : APURVA S. BAHETI			
F.Y.B. ARCH 2022-2023			
SUB : THESIS PROJECT			
SCALE : 1:175			
ROLL NO.:01			

MARATHWADA DIVYANG BHAVAN AT LATUR



MARATHWADA DIVYANG BHAVAN AT LATUR

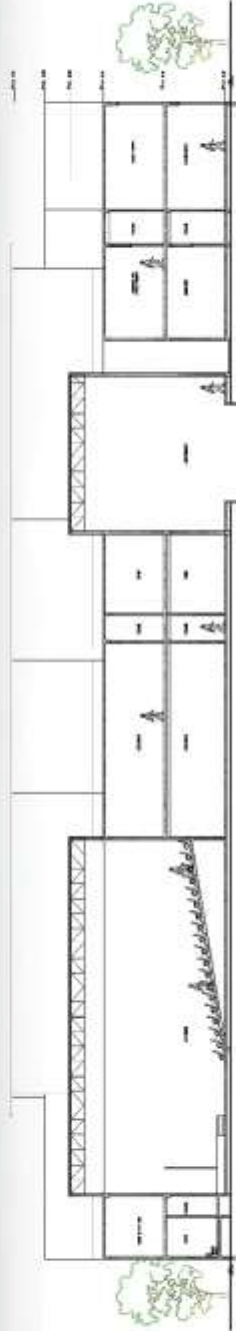
DATE	SIGN	DAYANAND COLLEGE OF ARCHITECTURE	STAMP
		NAME : ARIJVA S. RAHUTI	
		F.Y.B. ARCH. 2022-2023	SEM. X
		SUB : THESIS PROJ.FCT	ROLL NO.:01
		SCALE : 1:200	



SECTION BB



SECTION CC



SECTION DD



MARATHWADA DIVYANG BHAVAN AT LATUR

DAYANAND COLLEGE OF ARCHITECTURE	STAMP
NAME : ARIJVA S. BAHETI	
F.Y.B. ARCH 2022-2023	SEM: X
SUB : THESIS PROJECT	
SCALE : 1:175	ROLL NO. 01

DATE

SIGN



COMMON GARDEN



SENSORY GARDEN

- SENSORY GARDEN IS USED AS A TRAMPOLINE TO ENCOURAGE CHILDREN TO PLAY AND EXPLORE.
- MATERIALS USED IN SENSORY GARDEN ARE SAFE AND NON-TOXIC.
- USE TO DEVELOP CHILDREN'S MOTOR SKILLS AND COORDINATION.
- OTHER USES OF SENSORY GARDEN INCLUDE:
 - TO TEACH CHILDREN ABOUT COLORS AND SHAPES.
 - TO TEACH CHILDREN ABOUT TEXTURES AND SOUNDS.
 - TO TEACH CHILDREN ABOUT PLANTS AND ANIMALS.
 - TO TEACH CHILDREN ABOUT THE SEASONS.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF WEATHER.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF FOOD.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF CLOTHING.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF TOYS.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF ACTIVITIES.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF FRIENDS.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF COMMUNITIES.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF CULTURES.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF RELIGIONS.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF LANGUAGES.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF ARTS.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF MUSIC.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF DANCES.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF SPORTS.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF GAMES.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF BOOKS.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF MOVIES.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF MUSIC.
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 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF GAMES.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF BOOKS.
 - TO TEACH CHILDREN ABOUT THE DIFFERENT TYPES OF MOVIES.

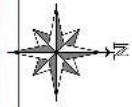


COMMON GARDEN



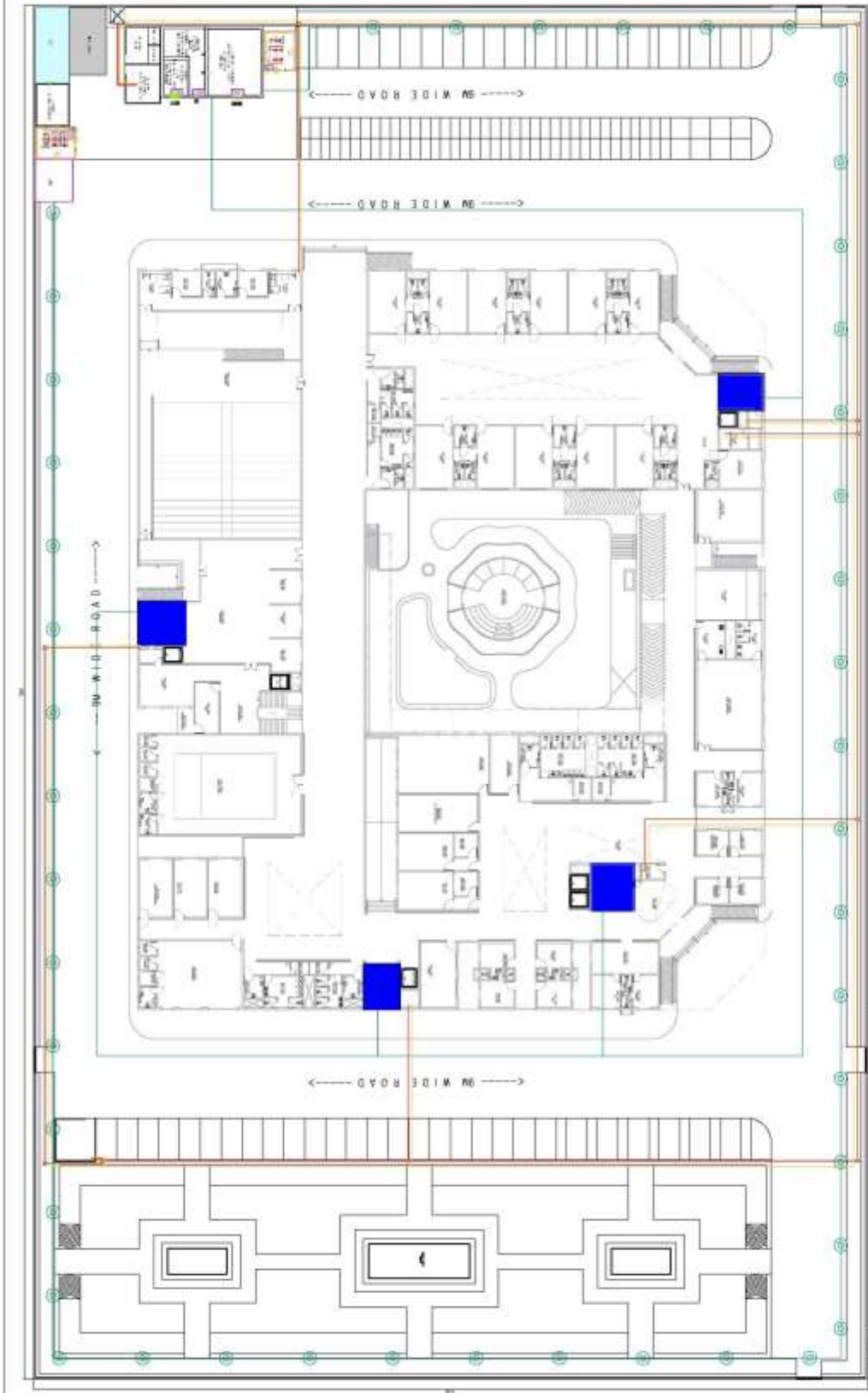
ASHOKA TREE, USED IN CAPITAL CITY, AS A TREE FOR CHILDREN'S GARDEN. IT WILL ACT AS A SOIL SUCCKER AS A CLIMATE RESPONSIBLE SOLUTION ON HOT, ARID CITY CLIMATE. IN HOT AND DRY COUNTRY, IT'S ALSO A BARBER FOR THE HOUSE.

LANDSCAPE



MARATHWADA DIVYANG BHAVAN AT LATUR

STAMP
 DAVANUM COLLEGE OF ARCHITECTURE
 NAVL : A-PUNYA S. BALIJI
 F.Y.B. ARCH : 2022-2023 SEM: X
 SLD : I.L.S.S -R00L03
 SCA F : 1:275 ROI NO.:01



LEGEND:

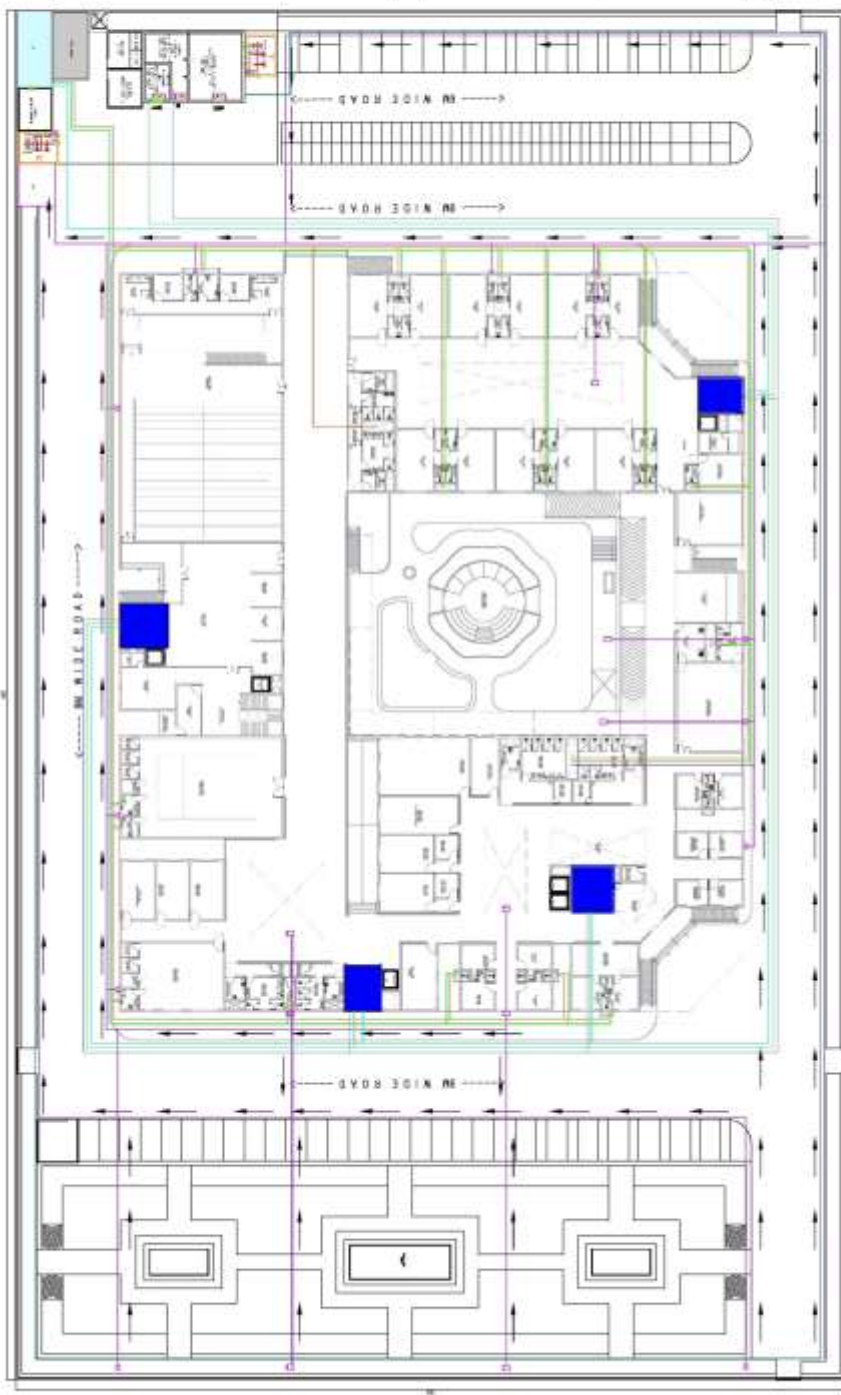
S.No	Description	Symbol
1	FIRE WATER LINE	
2	ELECTRICAL LINE	
3	SOLAR LINE	
4	FIRE HYDRANTS	

ELECTRICAL AND FIREFIGHTING LAYOUT



MARATHWADA DIVYANG BHAVAN AT LATUR

DAYANAND COLLEGE OF ARCHITECTURE	DATE	SGN	STAMP
NAME : APURVA S. BAHETI			
F.Y.B. ARCH 2022-2023			SEM: X
SUB : THESS PROJECT			
SCALE : 1:230			ROLL NO.: DT



SEPTIC TANK DESIGN

TOTAL NET UP WCL IN BUILDING	300
CAPACITY OF WCL	300
CAPACITY OF SEPTIC TANK	54000 L

WATER REQUIREMENT FOR DOMESTIC USE

Room	Area (sq. m)	Water Requirement (liters)
Living Room	100	1000
Bed Room	100	1000
Kitchen	50	500
Bathroom	50	500
WC	50	500
Basin	50	500
Office	100	1000
Library	100	1000
Staircase	50	500
Corridor	50	500
Other	50	500
TOTAL		10000

SYSTEM FOR BLACK WATER

STEP-TANK DESIGN FOR BLACK WATER SEPARATE FOR EVERY BUILDING TYPE

TYPE	TOTAL NO. OF PEOPLE	SEWAGE WASTE (LITERS/PERSON/DAY)	WATER (LITERS/PERSON/DAY)	TOTAL WASTE WATER (LITERS)
SEWAGE WASTE	70	40	40	2800
WATER	70	40	40	2800
TOTAL				5600

LEGEND

Sr.no	Description	Symbol
1	SOIL WASTE LINE	---
2	WASTE WATER LINE	---
3	SURFACE / RAIN WATER LINE	---
4	STP / FLUSH TANK LINE	---
5	DOMESTIC WATER LINE	---
6	DRINKING WATER LINE	---
7	SLOPE	---

WATER SUPPLY LAYOUT



MARATHWADA DIVYANG BHAVAN AT LATUR

DAYANAND COLLEGE OF ARCHITECTURE
 NAME : APURVA S. BAHETI
 F.Y.B. ARCH 2022-2023 SEM: X
 SUB : THESIS PROJECT
 SCALE : 1:275 ROLL NO.:01

STAMP



3D VIEWS



MARATHWADA DIVYANG BHAVAN AT LATUR

DATE	SIGN	DAYANAND COLLEGE OF ARCHITECTURE	STAMP
		NAME : APURVA S. BAHETI	
		F.Y.B. ARCH - 2022-2023	SEM. X
		SUB : THESIS PROJECT	
		SCALE : 1:275	ROLL NO: 07