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Barrer-Free Environment for Technical Educational Campus

Kalankur Raj Gupta, Dr.Anjaneya Sharma

P.G. Student, Department of Architecture, Faculty of Architecture and Planning, DR. APJ Abdul Kalam Technical University,
(Formerly Uttar Pradesh Technical University), Lucknow, India
Assistant Professor, Department of Architecture, Faculty of Architecture and Planning, DR. APJ Abdul Kalam Technical University,
(Formerly Uttar Pradesh Technical University), Lucknow, India

ABSTRACT: In the evolving world the technology play fundamental role, the person should be specialized and technical powerful for that person should have good education. Education is the basic need of every person, the person with the disability also have the right for good education, for good education there should be prosperous environment and that environment should be accessed to all. The paper deals with the Design components and the elements of the technical education for both able and dis-able person and focusing on the Class room, Toilet, Staircase, Kitchen, Passage, Parking and Hostel room.

KEY WORDS: Disability, Activities, Barrier-free, Design, Educational campus, Government, Dis-able person.

I.INTRODUCTION

A reasonable layout around and inside the campus should be accessible and generous for all users involving disabled persons. The environment should deliver some activity nodes to guarantee that the learning and working on the campus is more comforting. It will share experience on the instruction of inclusive design for learners who will become connoisseurs and reliable in executing the ordinance relating to safety, accessibility and usability of the built educational environment.

A barrier-free education built environment is a space that permits for independent and comfortable motion, function and approach for all, regardless of generation, genders, or disorder. Territories or a set of duties that can be accessed by everybody, without obstructions, with satisfaction and with as much as liberation as feasible. The environment means every things like buildings, freeways, parks, playgrounds and other places, services, modes of transportation, a product of daily use, etc.

Who all face barriers?

It is only individuals with disabilities for whom obstacles become prominent barriers. However, it is critical to realise that every individual, at some phase of life, encounters complications. A small kid, a geriatric or infirm person, a pregnant lady, the temporarily challenged, all are shaky to barriers.

Therefore, to list out people affected by barriers –

1. leprosy cured person
2. cerebral palsy
3. dwarfism
4. muscular dystrophy
5. acid attack victims
6. blindness
7. low-vision
8. deaf
9. hard of hearing
10. speech and language disability
11. specific learning disabilities
12. autism spectrum disorder
13. mental illness
14. chronic neurological conditions



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Vol. 8, Issue 3, March 2021

15. Blood disorder
16. haemophilia
17. thalassemia
18. sickle cell disease
19. Multiple Disabilities (more than one of the above specified disabilities)

Scope of work (Barrier-free design) –

After review of the Government ordinances-2016 for person with dis-ability, existing literature on barrier-free design and barrier-free into education then identified the gaps-

1. Earlier there was 7 dis-ability but now there are 21 dis-ability (by the Ministry of Law and Justice by the Parliament of India in 2016).
2. The integrated approach of technology in barrier-free design (Norms are independent of technology).
3. The accessibility need for children or student with a disability in education at one place.

II. METHODOLOGY

APPROACH OF RESEARCH-

Step -1- The government ordinances - 2016 for the disabled person by (Government of INDIA).

Step -2 - The existing literature on the barrier-free design.

Step -3 - Identification of the gaps based on the existing literature review-

1. Earlier in barrier-free there was 7 disability but now there is 21 disability (by the Ministry of Law and Justice by the Parliament of India in 2016).
2. The integrated approach of technology in barrier-free design (Norms are independent of technology).
3. The accessibility need for children or student with a disability in education at one place.

Step -4 - Identification of the department in research (barrier-free into education campus)

In the education system, there are 4 steps

1. Primary Education
2. Secondary Education
3. University Education
4. Technical Education

(Focus on the technical education portion after existing literature review.)

Step -5 - The existing norms and guidelines provided by the administration in the education sector for dis-able persons.(referred to the government act for disability.)

Step -6 - Gone through all the 21 disability (as by the government of India -2016 Act.)

{For more details, meet with the different doctors and also the government doctor (who give the certificate for person with disability.) for more information on disability.}

Step -7 - Literature study of technical campus

First step in it was, done an exercise that was, when doing the bachelor degree so what area have been visited in the college and university note that.

(This exercise help in funding the design components of a technical university and what are the activities are been performed by any able and dis-able person in those areas.)



ISSN: 2350-0328

International Journal of Advanced Research in Science, Engineering and Technology

Vol. 8, Issue 3, March 2021

Second step was, then look 3 technical campus

- 1- IIT-ROORKEE - 356 acr.
- 2- ShriVaishnavVidyapeethVishwavidyalaya (svvv), indore– 51 acr.
- 3- Ansal technical campus, lucknow– 14 acr.

(And compared them, it gives the areas of the technical university or campus and what activities are been performed there by both able and dis-able persons.)

Step -8 - ANALYSIS OF THE ACTIVITIES PERFORMED BY THE ABLE PERSON AND DISABLE A PERSON.
It gives - what are the challenges are been faced by disable person in performing the different activities.
The problems which will be helping in barrier-free design for technical education campus.

Step -9 - The approach of design research is barrier-free (problem-based approach after analysis of it) 3 main steps are-

1. Built Environmental.
2. Administrative aspects (Policy, economy)
3. Technology aspect.

Step -10 - Conclusions and Inferences

III. INDIAN GOVERNMENT TO DIS-ABLE PERSON

(by the Ministry of Law and Justice by the Parliament of India in 2016)

DUTY OF EDUCATIONAL INSTITUTIONS.—

- admit them without discrimination
- provide necessary support individualised or otherwise in environments that maximise academic
- detect specific learning disabilities in children at the earliest and take suitable pedagogical and other measures to overcome them
- provide transportation facilities to the children with disabilities and also the attendant of the children with disabilities having high support needs.
- make building, campus and various facilities accessible

SPECIFIC MEASURES TO PROMOTE AND FACILITATE INCLUSIVE EDUCATION.—

- to conduct survey of school going children in every five years for identifying children with disabilities, ascertaining their special needs
- to establish adequate number of teacher training institutions
- to train and employ teachers, including teachers with disability who are qualified in sign language and braille and also teachers who are trained in teaching children with intellectual disability
- to provide scholarships
- to provide books, other learning materials and appropriate assistive devices
- to promote research to improve learning

ADULT EDUCATION.—

- The appropriate government and the local authorities shall take measures to **promote, protect and ensure participation of persons with disabilities** in adult education and continuing education programmes equally with others.

FREE EDUCATION FOR CHILDREN WITH BENCHMARK DISABILITIES.—



ISSN: 2350-0328

International Journal of Advanced Research in Science, Engineering and Technology

Vol. 8, Issue 3, March 2021

- Rights of children to free and compulsory education act, 2009 (35 of 2009), every child with benchmark disability between the age of six to eighteen years shall have the right to free education in a neighbourhood school, or in a special school, of his choice
- The appropriate Government and local authorities shall ensure that every child with benchmark disability has access to free education in an appropriate environment till he attains the age of eighteen years

RESERVATION IN HIGHER EDUCATIONAL INSTITUTIONS-

- All Government institutions of higher education and other higher education institutions receiving aid from the **Government shall reserve not less than five per cent.** seats for persons with benchmark disabilities.
- The persons with benchmark disabilities shall be given **an upper age relaxation** of five years for admission in institutions of higher education.

IV. DIFFERENT KINDS OF DISABILITIES

(As per government of India act -2016 by Law and Justice)

1. Physical disability.—

A. Locomotor disability (a person's inability to execute distinctive activities associated with movement of self and objects resulting from affliction of musculoskeletal or nervous system or both), including—

(a) "leprosy cured person" . means a person who has been cured of leprosy but is suffering from—

(i) loss of sensation in hands or feet as well as loss of sensation and paresis in the eye and eye-lid but with no manifest deformity;

(ii) manifest deformity and paresis but having sufficient mobility in their hands and feet to enable them to engage in normal economic activity;

(iii) extreme physical deformity as well as advanced age which prevents him/her from undertaking any gainful occupation, and the expression "leprosy cured" shall construed accordingly;

(b) "cerebral palsy" means a Group of non-progressive neurological condition affecting body movements and muscle coordination, caused by damage to one or more specific areas of the brain, usually occurring before, during or shortly after birth;

(c) "dwarfism" means a medical or genetic condition resulting in an adult height of 4 feet 10 inches (147 centimeters) or less;

(d) "muscular dystrophy" means a group of hereditary genetic muscle disease that weakens the muscles that move the human body and persons with multiple dystrophy have incorrect and missing information in their genes, which prevents them from making the proteins they need for healthy muscles. It is characterised by progressive skeletal muscle weakness, defects in muscle proteins, and the death of muscle cells and tissue;

(e) "acid attack victims" means a person disfigured due to violent assaults by throwing of acid or similar corrosive substance.

B. Visual impairment—

(a) "blindness" means a condition where a person has any of the following conditions, after best correction—

(i) total absence of sight; or

(ii) visual acuity less than 3/60 or less than 10/200 (Snellen) in the better eye with best possible correction; or

(iii) limitation of the field of vision subtending an angle of less than 10 degree.

(b) "low-vision" means a condition where a person has any of the following conditons, namely:—



ISSN: 2350-0328

International Journal of Advanced Research in Science, Engineering and Technology

Vol. 8, Issue 3, March 2021

- (i) visual acuity not exceeding 6/18 or less than 20/60 upto 3/60 or upto 10/200 (Snellen) in the better eye with best possible corrections; or
- (ii) limitation of the field of vision subtending an angle of less than 40 degree up to 10 degree.

C. Hearing impairment—

- (a) “deaf” means persons having 70 DB hearing loss in speech frequencies in both ears; 36
- (b) “hard of hearing” means person having 60 DB to 70 DB hearing loss in speech frequencies in both ears;

D. “speech and language disability” means a permanent disability arising out of conditions such as laryngectomy or aphasia affecting one or more components of speech and language due to organic or neurological causes.

2. Intellectual disability,

A condition characterised by significant limitation both in intellectual functioning (reasoning, learning, problem solving) and in adaptive behaviour which covers a range of every day, social and practical skills, including—

- (a) “specific learning disabilities” means a heterogeneous group of conditions wherein there is a deficit in processing language, spoken or written, that may manifest itself as a difficulty to comprehend, speak, read, write, spell, or to do mathematical calculations and includes such conditions as perceptual disabilities, dyslexia, dysgraphia, dyscalculia, dyspraxia and developmental aphasia;
- (b) “autism spectrum disorder” means a neuro-developmental condition typically appearing in the first three years of life that significantly affects a person's ability to communicate, understand relationships and relate to others, and is frequently associated with unusual stereotypical rituals or behaviours.

3. Mental behaviour,—

“mental illness” means a substantial disorder of thinking, mood, perception, orientation or memory that grossly impairs judgment, behaviour, capacity to recognise reality or ability to meet the ordinary demands of life, but does not include retardation which is a condition of arrested or incomplete development of mind of a person, specially characterised by subnormality of intelligence.

4. Disability caused due to—

(a) chronic neurological conditions, such as—

- (i) “multiple sclerosis” means an inflammatory, nervous system disease in which the myelin sheaths around the axons of nerve cells of the brain and spinal cord are damaged, leading to demyelination and affecting the ability of nerve cells in the brain and spinal cord to communicate with each other;
- (ii) “parkinson's disease” means a progressive disease of the nervous system marked by tremor, muscular rigidity, and slow, imprecise movement, chiefly affecting middle-aged and elderly people associated with degeneration of the basal ganglia of the brain and a deficiency of the neurotransmitter dopamine.

(b) Blood disorder—

- (i) “haemophilia” means an inheritable disease, usually affecting only male but transmitted by women to their male children, characterised by loss or impairment of the normal clotting ability of blood so that a minor wound may result in fatal bleeding;
- (ii) “thalassemia” means a group of inherited disorders characterised by reduced or absent amounts of haemoglobin.
- (iii) “sickle cell disease” means a hemolytic disorder characterised by chronic anemia, painful events, and various complications due to associated tissue and organ damage; “hemolytic” refers to the destruction of the cell membrane of red blood cells resulting in the release of hemoglobin.

5. Multiple Disabilities(more than one of the above specified disabilities) including deaf blindness which means a condition in which a person may have combination of hearing and visual impairments causing severe communication, developmental, and educational problems.

1. Physical disability

1.1 Locomotor disability

- 1.1.1 Leprosy cured person
- 1.1.2 Cerebral palsy
- 1.1.3 Dwarfism
- 1.1.4 Muscular dystrophy
- 1.1.5 Acid attack victims

1.2. Visual impairment

- 1.2.1 Blindness



ISSN: 2350-0328

International Journal of Advanced Research in Science, Engineering and Technology

Vol. 8, Issue 3, March 2021

- 1.2.2 Low-vision
- 1.3. Hearing impairment
 - 1.3.1 Deaf
 - 1.3.2 Hard of hearing
- 1.4. Speech and language disability

- 2. Intellectual disability
 - 2.1. Specific learning disabilities
 - 2.2. Autism spectrum disorder
- 3. Mental behaviour
 - 3.1. Mental illness

- 4. Disability caused due to –
 - 4.1. Chronic neurological conditions
 - 4.1.1 Multiple sclerosis
 - 4.1.2 Parkinson's disease
 - 4.2 Blood disorder
 - 4.2.1 Haemophilia
 - 4.2.2 Thalassemia
 - 4.2.2 Sickle cell disease
- 5 Multiple Disabilities
(more than one of the above specified disabilities)

V.DESIGN COMPONENTS OF TECHNICAL ACADEMICS CAMPUS

(Area which are been present and used by both able and dis-able person in a technical education campus)

1. Main Entry/ main exit-

1.1 Entry, 1.2 Security check, 1.3 Inquire Area, 1.4 Clock Room, 1.5 Exit

2. Administrative Block-

2.1 Entry/Exit, 2.2 Security check, 2.3 Reception Area, 2.4 Inquire Area, 2.5 Clock Area, 2.6 V.C Room, 2.7 Pro. V. C Room, 2.8 Registrar Room, 2.9 Examination Head, 2.10 Director Area, 2.11 Manager Area, 2.12 Faculty Area, 2.13 Staff Area, 2.14 Room for Dean's and Head of the department, 2.15 Record Rooms, 2.16 Store Rooms, 2.17 Toilet, 2.18 Fee Room, 2.19 small Kitchen, 2.20 Examination Hall or Area, 2.21 conference area, 2.22 meeting area, 2.23 Waiting area, 2.24 V.I.P Area., 2.25 V.I.P Meeting area, 2.26 Supervision area, 2.27 Movement area, 2.28 Maintenance Room

3. Academic Area-

3.1 Enter/Exit, 3.2 Security check area, 3.3 Enquiry Area, 3.4 Entry Foyer, 3.5 Waiting Area, 3.6 Dean Office, 3.7 Head of Department Office, 3.8 Faculty Room, 3.9 Staff Room, 3.10 Lecture Area, 3.11 Toilet, 3.12 small kitchen, 3.13 Store Room, 3.14 Record Room, 3.15 Maintenance Room, 3.16 Classrooms, 3.17 Meeting Rooms, 3.18 Labs Area, 3.19 Store area of Labs, 3.20 Small library of the department.

4. Library Block-

4.1 Entry/ Exit, 4.2 Security check, 4.3 Clock Area, 4.4 Enquiry Area, 4.5 Reception Area, 4.6 Librarian Room, 4.7 Maintenance Room, 4.8 Record room, 4.9 Store Room, 4.10 Book issue and Return Area, 4.11 Toilet, 4.12 Small kitchen, 4.13 Reading Area, 4.14 Books Staking Area / Books Racks, 4.15 E-Book Reading Area, 4.16 Staff Area, 4.17 Magazines Reading Area and staking area

5. Sports Area-

5.1 Swimming Pool, 5.2 Basketball, 5.3 Cricket, 5.4 Football, 5.5 Tennis, 5.6 Hockey, 5.7 Volleyball, 5.8 Badminton, 5.9 Hand Ball, 5.10 Kabaddi, 5.11 Boxing, 5.12 Gymnastics, 5.13 Wrestling / Karate, 5.14 Squash, 5.15 Table-Tennis,



ISSN: 2350-0328

International Journal of Advanced Research in Science, Engineering and Technology

Vol. 8, Issue 3, March 2021

5.16 All indoor sport, 5.17 Toilet, 5.18 Maintenance Room, 5.19 Record room, 5.20 Store Room, 5.21 Changing Rooms with Lockers, 5.22 Sitting area, 5.23 waiting area, 5.24 Viewing Area, 5.25 Equipment keeping room

6. Recreational Block-

6.1 Entry / Exit, 6.2 Security area, 6.3 Enquiry area, 6.4 Clock Area, 6.5 Maintenance Area, 6.6 Staff area, 6.7 Store Room, 6.8 Indoor Play Hall, 6.9 Yoga Area, 6.10 Music Area, 6.11 Dance Area, 6.12 Art and Crafts Area, 6.13 Activity Area, 6.14 Sitting Area / Discussion area open and closed both, 6.15 Cafe / small Restaurants area, 6.16 Toilet, 6.17 Gym Area

7. Mess-

7.1 Enter / Exit, 7.2 Security area and Inquiry area, 7.3 Washing Area, 7.4 Toilet, 7.5 Preparation Area, 7.6 Kitchen Area (Cooking Area), 7.7 Store area of Food and Vegetables, 7.8 Head Room, 7.9 Staff Room, 7.10 Meeting Area, 7.11 Food testing area / Countertops, 7.12 Sitting Area (Eating Area), 7.13 Waiting Area, 7.14 Reception/ Enquiry Area, 7.15 Record Room, 7.16 Washing area of utensils, 7.17 Collecting area (Food taking), 7.18 Serving Area (Where Food is Kept), 7.19 Storeroom, 7.20 Maintenance Area, 7.21 Vegetable Washing area, 7.22 Vegetable Collection Area from outside

8. Hostel-

8.1 Entry / Exit, 8.2 Security Area, 8.3 Enquiry Area, 8.4 Record Room, 8.5 Waiting Area, 8.6 Entry Foyer, 8.7 Meeting Room, 8.8 Store Room, 8.9 Toilets, 8.10 Room for Stay, 8.10.1 Dormitory, 8.10.2 Triple Sharing, 8.10.3 Double Sharing, 8.10.4 Single Rooms, 8.11 Common Area, 8.12 Play Area, 8.13 Store Area in Rooms, 8.14 Small Canteen, 8.15 Gathering Area, 8.16 Staff Room, 8.17 Warden Room, 8.18 Gym Area for block, 8.19 Indoor play area, 8.20 Open area for sitting, 8.21 Activity Area, 8.22 Small Hall, 8.23 Maintenance Room

9. Resident Area for Facility and Staffs-

9.1 Entry / Exit, 9.2 Security Area, 9.3 Records Area, 9.4 Store Area, 9.5 Maintenance Area, 9.6 Residents, 9.6.1 Single House, 9.6.2 Double House, 9.6.3 Single Share House, 9.6.4 Duplex House, 9.6.5 Small House means Two floor House with sharing, 9.6.6.-4 Story House, 9.6.7. Apartments, 9.6.8. LIG For works, 9.6.9 MIG For Officers, 9.6.10 HIG For Faculty, V.C, Pro. V.C, and other high-rank officers, 9.7 Parks, Garden and water bodies, 9.8 Play area for children, 9.9 Community Hall, 9.10 Meeting Hall, 9.11 Conference Area, 9.12 Parking Area, 9.13 Shop of everyday requirements., 9.14 Toilet, 9.15 Recreation Area.

10. Guest House-

10.1 Entry/Exit, 10.2 Security Area, 10.3 Reception/ Enquiry area, 10.4 Waiting Area / Sitting Area, 10.5 Clock Room, 10.6 Store Room, 10.7 Maintenance Room, 10.8 Record Room, 10.9 Staff Room, 10.10 Manager Room, 10.11 Toilet, 10.12 Dining Area, 10.13 small Kitchen, 10.14 Room with attached Toilet, 10.15 Green Area, 10.16 Meeting Area, 10.17 Conference Area, 10.18 VIP Area, 10.19 VIP Living Area, 10.20 VIP Rooms, 10.21 Play area

11. Bank-

11.1 Entry/Exit, 11.2 Security Area, 11.3 Reception Area, 11.4 Enquiry Area, 11.5 Waiting Area, 11.6 Sitting Area, 11.7 Counter of Deposit, Taking, FD, RD, Passbook, Lone Area, Funds Area, 11.8 Manager Room, 11.9 Staff Area, 11.10 Locker Room, 11.11 Records Room, 11.12 Maintenance Area, 11.13 Cash Room, 11.14 Computer Room, 11.15 small kitchen, 11.16 store area, 11.17 Officer Area, 11.18 Toilet

12. Shops-

12.1 Entry/ Exit, 12.2 Security Area, 12.3 Clock Area, 12.4 Reception/ Enquiry area, 12.5 Payment Countertop, 12.6 Display Area, 12.7 Movement area, 12.8 Store Area, 12.9 Maintenance room, 12.10 Record Area, 12.11 Store Room, 12.12 Toilet, 12.13 Waiting / Sitting area, 12.14 Area for Keeping the things while lodging and unloading, 12.15 small kitchen

13. Restaurants / Cafeteria / Café-

13.1 Entry / Exit, 13.2 Security Area, 13.3 Waiting Area / Sitting Area, 13.4 Reception/ Enquiry Area, 13.5 Sitting Area, 13.6 Washing Area, 13.7 Toilets, 13.8 Kitchen, 13.9 Preparation Area, 13.10 Washing Area for Vegetable and utensils, 13.11 Store area of Vegetable and food, 13.12 Cooking area, 13.13 Room for Chefs, 13.14 Staff area, 13.15



ISSN: 2350-0328

International Journal of Advanced Research in Science, Engineering and Technology

Vol. 8, Issue 3, March 2021

Area of Keeping the utensils, 13.16 Manager Room, 13.17 Store Rooms, 13.18 Meeting Area, 13.19 Records/ Maintenance Area

14. Security-

14.1 Entry / Exit, 14.2 Checking Area, 14.3 Enquiry Area, 14.4 Waiting area, 14.5 Store area, 14.6 Records Area, 14.7 Officers Area, 14.8 Staff Area, 14.9 Maintenance Area, 14.10 Toilet, 14.11 Small Kitchen, 14.12 Area where that is been kept.

15. Medical Centre-

15.1 Entry / Exit, 15.2 Security Check area, 15.3 Reception / Enquiry Area, 15.4 Waiting Area, 15.5 Clock Room, 15.6 Medicine Area, 15.7 Emergency Room, 15.8 Doctor Room, 15.9 Labs Area, 15.10 General wards, 15.11 ICU room, 15.12 NICU Room, 15.13 OT Room, 15.14 Pre/post OT Area, 15.15 Nursing Area, 15.16 Toilets, 15.17 Waste collection area, 15.18 Manager Area, 15.19 Staff Rooms, 15.20 Private Rooms, 15.21 Tools Rooms, 15.22 Cleaning Area, 15.23 Maintenance Area, 15.24 Store Area, 15.25 Account Room

16. Auditorium Block-

16.1 Entry / Exit, 16.2 Security Check area, 16.3 Clock Room, 16.4 Reception/ Enquiry Area, 16.5 Waiting Area, 16.6 Meeting Area, 16.7 Gathering Area, 16.8 Projector Room, 16.9 Media Area, 16.10 Store Area, 16.11 Green Area, 16.12 Toilets, 16.13 Store Room for Tools, 16.14 Staff Room, 16.15 Manager Room, 16.16 Sitting Area, 16.17 Stage Area, 16.18 Small Kitchen, 16.19 Maintenance Room, 16.20 Records Room, 16.21 V.I.P. Area and Room

17. Electrical substation, HVAC, Plumbing, Water OHT Departments-

17.1 Entry / Exit, 17.2 Security Check Area, 17.3 Clock Room, 17.4 Reception / Enquiry Area, 17.5 Waiting area, 17.6 store area, 17.7 Records room, 17.8 Meeting Room, 17.9 Manager Room, 17.10 Staff Rooms, 17.11 Officers room, 17.12 Kitchen, 17.13 Toilet, 17.14 Maintenance Area, 17.15 Site room, 17.16 Room for equipment, 17.17 Rooms for Labour's, 17.18 Resting Room, 17.19 Medical area, 17.20 Computer Room, 17.21 Room for Display

18. Parking Area

19. Water Body areas

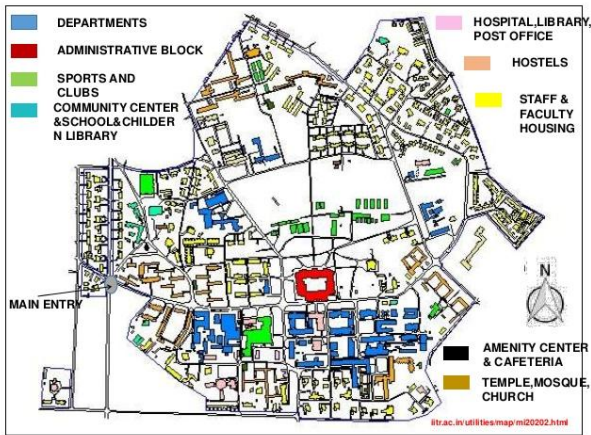
20. Green Area-

20.1 Landscaping, 20.2 Parks, 20.3 Garden, 20.4 Open Lands.

21. Worship Place. 22 Road, Pathway, Footpath

VI. LITERATURE STUDY –

- 1 – IIT – ROORKEE (365 ACRES) – 1847
- 2- SHRI VAISHNAV VIDYAPEETH VISHWAVIDYALAYA(SVVV), INDORE (51 ACRES) – (1884 OLD) BUT NEW CAMPUS - 2015 .
- 3- ANSAL TECHNICAL CAMPUS, LUCKNOW (14 ACRES)- 2012



GROUND FLOOR PLAN



FIRST FLOOR PLAN

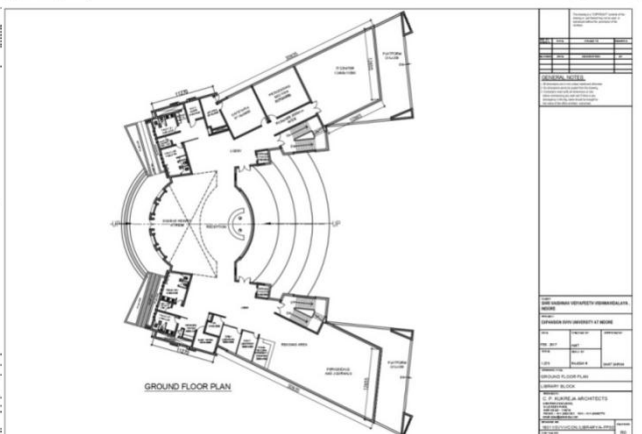
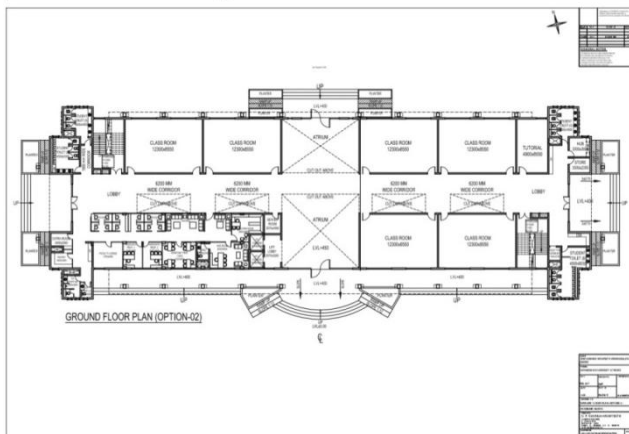
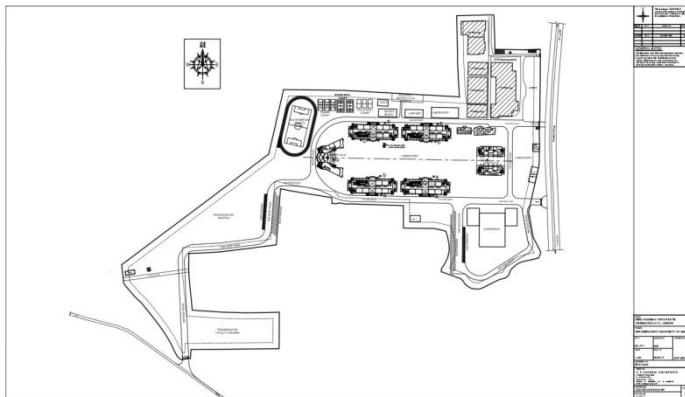


SECOND FLOOR PLAN

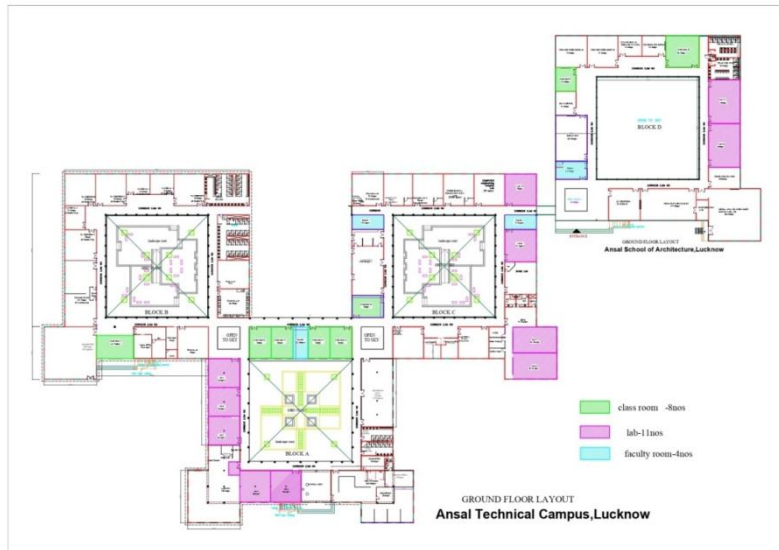
IIT-ROORKEE MASTER PLAN

Architecture Block floor plans

Images of Architecture blocks and Administration Block



MASTER PLAN OF SHRI VAISHNAV VIDYAPEETH VISHWAVIDYALAYA (SVVV), INDORE 51 ACR.
ADMINISTRATIVE BLOCK PLAN, ACADEMIC BLOCK PLAN, LIBRARY BLOCK PLAN



MASTER PLAN OF ANSAL TECHNICAL CAMPUS, LUCKNOW (14 ACRES)

VII - ACTIVITY STUDY

NOTE- Activity which an able and dis-able person will be doing in an technical campus, if he is able to do activity without any help then Yes (Y) and if not then No (N).

DESIGN COMPONENTS OF TECHNICAL CAMPUS

S.No	DESIGN COMPONENTS OF TECHNICAL CAMPUS	
1.	Main Entry/ Main exit.	
2.	Administrative Block	
3.	Academic Block	
4.	Library Block	
5.	Sports Area	
6.	Recreational Block	
7.	Mess	
8.	Hostel	
9.	Resident Area for Faculty and Staffs	
10.	Guest House	
11.	Bank	
12.	Shops	
13.	Restaurants / Cafeteria / Cafe	
14.	Security	
15.	Medical Centre	
16.	Auditorium Block	
17.	Electrical substation, HVAC, Plumbing, Water OHT Departments	
18.	Parking Area	
19.	Water Body areas	
20.	Green Area	
21.	Worship Place.	
22.	Road , Pathway , Footpath	



ACTIVITY AREAS OF THE MAIN ENTRY/ MAIN EXIT WITH THERE ELEMENTS

S.No.	ACTIVITY AREAS OF MAIN ENTRY/ MAIN EXIT	ELEMENT OF THE ACTIVITY AREA	ABLE PRESON	DIS-ABLE PERSON
1.	Entry	Door	Y	-
2.	Security check	Door, window, table, chair, cupboard for storage, switchboard, TV, bed, display board.	Y	-
3.	Inquire Area	Door, window, table, chair, cupboard for storage, switchboard, display board, TV stand,	Y	-
4.	Clock Room	Door, window, table, chair, cupboard for storage, switchboard, TV, display board, lockers, key stakeholders,	Y	-
5.	Exit	Door	Y	-

ACTIVITY AREAS OF THE ADMINISTRATIVE BLOCK WITH THERE ELEMENTS

S.No.	ACTIVITY AREAS OF ADMINISTRATIVE BLOCK	ELEMENT OF THE ACTIVITY AREA	ABLE PRESON	DIS-ABLE PERSON
1.	Entry/Exit	Door	Y	-
2.	Security check	Door, window, table, chair, cupboard for storage, switchboard, TV, bed, display board.	Y	-
3.	Reception Area.	Reception desk, desktop, chair, display board, TV, switchboard, storage unit,	Y	-
4.	Inquire Area	Door, window, table, chair, cupboard for storage, switchboard, display board, TV stand,.	Y	-
5.	Clock Area	Door, window, table, chair, cupboard for storage, switchboard, TV, display board, lockers, key stakeholders.	Y	-
6.	V.C Room	Door, window, table, chair, couch, attached toilet, exhibit board and table, desktop, TV, cupboard for storage of documents and files racks, switchboard.	Y	-
7.	Pro. V. C Room	Door, window, table, chair, couch, attached toilet, exhibit board and table, desktop, TV, cupboard for storage of documents and files racks, switchboard, cabinet for storage of files, book racks .	Y	-
8.	Registrar Room	Door, window, table, chair, couch, attached toilet, exhibit board and table, desktop, TV, cupboard for storage of documents and files racks, switchboard, cabinet for storage of files, book racks .	Y	-
9.	Examination Head	Door, window, table, chair, attached toilet, exhibit board and table, desktop, TV, cupboard for storage of documents and files racks, switchboard, cabinet for storage of files, book racks .	Y	-
10.	Director Area	Door, window, table, chair, couch, attached toilet, exhibit board and table, desktop, TV, cupboard for storage of documents and files racks, switchboard, cabinet for storage of files, book racks .	Y	-
11.	Manager Area	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard, book racks.	Y	-
12.	Faculty Area	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard, book racks.	Y	-
13.	Room for Dean's and Head of the	Door, window, table, chair, attached toilet, exhibit board and table, desktop, TV, cupboard for storage	Y	-



ISSN: 2350-0328

**International Journal of Advanced Research in Science,
Engineering and Technology**

Vol. 8, Issue 3 , March 2021

	department	of documents and files racks, switchboard, cabinet for storage of files, book racks.		
14.	Record Rooms	Door, window, table, chair, desktop, cupboards for storage of documents and files racks, switchboard, storage unit.	Y	-
15.	Store Rooms	Door, window, table, chair, desktop, switchboard, storage unit of material and files.	Y	-
16.	Toilet	Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.	Y	-
17.	Fee Room	Door, windows, table, chair, documents and file racks, small storage unit, display boards and tables, desktop with all Accessories, switches, TV, Money locker.	Y	-
18.	Staff Area	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard.	Y	-
19.	Small Kitchen	Door, window, kitchen cabinets, kitchen top, washer dryer, utensils, refrigerator, water purification, tapes, storage of food, grains, vegetables, spices, and utensils, switch's, ventilation machine.	Y	-
20.	Examination Hall or Area.	Door, windows, tables, chairs, couch, document cupboards, files racks and cupboard, storage unit, desktop with all accessories, switches, TV, lockers, book racks.	Y	-
21.	Meeting area	Door, window, long table with chairs, couch, projector, file racks, exhibit board and tables, switches, storage of small things or cupboard.	Y	-
22.	Waiting area	Couch with tables, exhibits boards and table, door, window, switches, exhibits things	Y	-
23.	V.I.P Area	Door, window, table, chair, couch, attached toilet, exhibit board and table, TV, cupboard for storage, files racks, switchboard.	Y	-
24.	Conference area	Presentation platform, Door, window, table, chairs, couch, projector, file racks, exhibit board and tables, switches, storage of small things or cupboard, book racks.	Y	-
25.	V.I.P Meeting area.	Door, window, couch with tables, projector, file racks, exhibit board and tables, switches, storage of small things or cupboard, display areas.	Y	-
26.	Supervision area	Monitors or screens to views the camera, desktop with all the accessory, door, windows, table, chair, display board, storage of document, switches, cupboard.	Y	-
27.	Maintenance Room	Desktop with all the fixture, door, windows, table, chair, display board, storage racks of files, switch, cupboard,	Y	-
28.	Movement area.	Passage, corridor, staircase, handrail, Blister, lifts, lift switch, balcony, terrace, galleries, arcade, path, door.	Y	-

ACTIVITY AREAS OF THE ACADEMIC BLOCK WITH THERE ELEMENTS

S.No.	ACTIVITY AREAS OF ACADEMIC BLOCK	ELEMENT OF THE ACTIVITY AREA	ABLE PRESON	DIS-ABLE PERSON
1.	Enter/Exit	Door	Y	-



ISSN: 2350-0328

**International Journal of Advanced Research in Science,
Engineering and Technology**

Vol. 8, Issue 3 , March 2021

2.	Security check area	Door, window, table, chair, cupboard for storage, switchboard, TV, bed, display board.	Y	-
3.	Enquiry Area	Door, window, table, chair, cupboard for storage, switchboard, display board, TV stand.	Y	-
4.	Entry Foyer	Open, closed with exhibits things .	Y	-
5.	Waiting Area	Couch with tables, exhibits boards and table, door, window, switches, exhibits things .	Y	-
6.	Dean Office	Door, window, table, chair, attached toilet, exhibit board and table, desktop with all the accessory things, TV, cupboard for storage of documents and files racks, switchboard, cabinet for storage of files	Y	-
7.	Head of Department Office	Door, window, table, chair, attached toilet, exhibit board and table, desktop with all the accessory elements, TV, cupboard for storage of documents and files racks, switchboard, cabinet for storage of files, book racks	Y	-
8.	Faculty Room	Door, window, table, chair, desktop with all the accessory elements, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard, book racks	Y	-
9.	Staff Room	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard.	Y	-
10.	Lecture Area	Teachers table and chair, students table and chairs, black or green board with platform, projectors, doors, windows, switches, display board and tables, soft boards, lockers for students and teacher, a cupboard for storage, desktop with all elements, file or books racks.	Y	-
11.	Toilet	Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.	Y	-
12.	small kitchen	Door, window, kitchen cabinets, kitchen top, washer dryer, utensils, refrigerator, water purification, tapes, storage of food, grains, vegetables, spices, and utensils, switch's, ventilation machine.	Y	-
13.	Store Room	Door, window, table, chair, desktop, switchboard, storage unit of material and files.	Y	-
14.	Record Room	Door, window, table, chair, desktop, cupboards for storage of documents and files racks, switchboard, storage unit.	Y	-
15.	Maintenance Room	Desktop with all the fixture, door, windows, table, chair, display board, storage racks of files, switch, cupboard,	Y	-
16.	Classrooms	Teachers table and chair, students table and chairs, black or green board with platform, projectors, doors, windows, switches, display board and tables, soft boards, lockers for students and teacher, a cupboard for storage, desktop with all elements, file or books racks.	Y	-
17.	Meeting Rooms	Door, window, long table with chairs, couch, projector, file racks, exhibit board and tables, switches, storage of small things or cupboard.	Y	-
18.	Labs Area	Practical perform areas with the proper platform, tables and chair, teachers table and chairs, soft boards, display boards and table, teaching board, storage unit of practical equipment, storage racks or	Y	-



ISSN: 2350-0328

**International Journal of Advanced Research in Science,
Engineering and Technology**

Vol. 8, Issue 3, March 2021

		cupboard for files, documents and papers, door, windows, ventilator, safety equipment, desktop with all elements		
19.	Store area of Labs	the storage unit of practical equipment, storage racks or cupboard for files, documents and papers, door, windows, switches, ventilator, safety equipment, desktop, soft board.	Y	-
20.	Small library of the department.	Table for studying the book with a chair, table and chair for staff, desktop with all elements, soft boards, display area, book racks or stacking, storage area of files, lockers for bags, door window, switch, Magazines area.	Y	-
21.	Supervision area	Monitors or screens to views the camera, desktop with all the accessory, door, windows, table, chair, display board, storage of document, switches, cupboard.	Y	-
22.	Movement area.	Passage, corridor, staircase, handrail, Blister, lifts, lift switch, balcony, terrace, galleries, arcade, path, door.	Y	-

ACTIVITY AREAS OF THE LIBRARY BLOCK WITH THERE ELEMENTS

S.No.	ACTIVITY AREAS OF LIBRARY BLOCK	ELEMENT OF THE ACTIVITY AREA	ABLE PRESON	DIS-ABLE PERSON
1.	Enter/Exit	Door	Y	-
2.	Security check	Door, window, table, chair, cupboard for storage, switchboard, TV, bed, display board.	Y	-
3.	Enquiry Area	Door, window, table, chair, cupboard for storage, switchboard, display board, TV stand.	Y	-
4.	Clock Area	Door, window, table, chair, cupboard for storage, switchboard, TV, display board, lockers, key stakeholders.	Y	-
5.	Reception Area	Reception desk, desktop, chair, display board, TV, switchboard, storage unit,	Y	-
6.	Librarian Room	Door, windows, switches, table, chair, desktop with all elements, racks of files and documents, storage cupboard, TV, couch, exhibit board and table, book staking area, a small storage unit, locker,	Y	-
7.	Maintenance Room	Desktop with all the fixture, door, windows, table, chair, display board, storage racks of files, switch, cupboard,	Y	-
8.	Record room	Door, window, table, chair, desktop, cupboards for storage of documents and files racks, switchboard, storage unit, bookkeeping racks.	Y	-
9.	Store Room	Door, window, table, chair, desktop, switchboard, storage unit of material and files, bookkeeping racks.	Y	-
10.	Book issue and Return Area	Table, chair, desktop with all elements, bookkeeping racks, switch	Y	-
11.	Toilet	Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.	Y	-
12.	Small kitchen	Door, window, kitchen cabinets, kitchen top, washer dryer, utensils, refrigerator, water purification, tapes, storage of food, grains, vegetables, spices, and utensils, switch's, ventilation machine.	Y	-



ISSN: 2350-0328

**International Journal of Advanced Research in Science,
Engineering and Technology**

Vol. 8, Issue 3, March 2021

13.	Reading Area	Door, window, switches, Wide Tables with broader sitting, bookkeeping area near reading, display boards, small storage containers, cupboard for documents and paper.	Y	-
14.	Books Staking Area / Books Racks	Door, Windows, Cupboard for storage of books, racks of books both open and closed,	Y	-
15.	E-Book Reading Area	Desktop with proper tables and chairs, door, window, switches, books racks and documents keeping area, display board, small storage unit, cupboard,	Y	-
16.	Staff Area	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard.	Y	-
17.	Magazines Reading Area and staking area	Table, chair, staking of books, display boards, a small table with storage space, cupboard	Y	-
18.	Movement area.	Passage, corridor, staircase, handrail, Blister, lifts, lift switch, balcony, terrace, galleries, arcade, path, door.	Y	-

ACTIVITY AREAS OF THE SPORTS AREA WITH THERE ELEMENTS

S.No.	ACTIVITY AREAS OF SPORTS AREA	ELEMENT OF THE ACTIVITY AREA	ABLE PRESON	DIS-ABLE PERSON
1.	Entry/Exit	Door	Y	-
2.	Security check	Door, window, table, chair, cupboard for storage, switchboard, TV, bed, display board.	Y	-
3.	Reception Area.	Reception desk, desktop, chair, display board, TV, switchboard, storage unit,	Y	-
4.	Inquire Area	Door, window, table, chair, cupboard for storage, switchboard, display board, TV stand	Y	-
5.	Clock Area	Door, window, table, chair, cupboard for storage, switchboard, TV, display board, lockers, key stakeholders.	Y	-
6.	Swimming Pool	Door, window, changing area, locker room, shower area, swimming pool area, equipment room, switches, sitting area open, viewing gallery, table, chair, instructor room- table, chair, storage cupboard, display table, display boards, machine area- where water is stored and purified, toilets - with all fixtures, movement area	Y	-
7.	Basketball	Access to Court, court area, sitting area+ viewing gallery, equipment placing area, players sitting and viewing area, trainer table-chair, small open store, V.I.P. sitting.	Y	-
8.	Cricket	Access to Field, ground area, sitting area+ viewing gallery, equipment placing area, players sitting and viewing area, trainer table-chair, small open store, V..I.P. sitting area.	Y	-
9.	Football	Access to Field, ground area, sitting area+ viewing gallery, equipment placing area, players sitting and viewing area, trainer table-chair, small open store, V..I.P. sitting area.	Y	-
10.	Tennis	Access to Court, court area, sitting area+ viewing gallery, equipment placing area, players sitting and viewing area, trainer table-chair, small open store, V.I.P. sitting.	Y	-
11.	Hockey	Access to Field, ground area, sitting area+ viewing gallery, equipment placing area, players sitting and	Y	-



		viewing area, trainer table-chair, small open store, V.I.P. sitting area.		
12.	Volleyball	Access to Court, court area, sitting area+ viewing gallery, equipment placing area, players sitting and viewing area, trainer table-chair, small open store, V.I.P. sitting.	Y	-
13.	Badminton	Access to Court, court area, sitting area+ viewing gallery, equipment placing area, players sitting and viewing area, trainer table-chair, small open store, V.I.P. sitting.	Y	-
14.	Hand Ball	Access to Field, ground area, sitting area+ viewing gallery, equipment placing area, players sitting and viewing area, trainer table-chair, small open store, V.I.P. sitting area.	Y	-
15.	Kabaddi	Access to Field, ground area, sitting area+ viewing gallery, equipment placing area, players sitting and viewing area, trainer table-chair, small open store, V.I.P. sitting area.	Y	-
16.	Boxing	Access to Ring, Ring area, sitting area+ viewing gallery, equipment placing area, players sitting and viewing area, trainer table-chair, small open store, V.I.P. sitting.	Y	-
17.	Gymnastics	Access to Field, ground area, sitting area+ viewing gallery, equipment placing area, players sitting and viewing area, trainer table-chair, small open store, V.I.P. sitting area.	Y	-
18.	Wrestling / Karate	Access to Ring, Ring area, sitting area+ viewing gallery, equipment placing area, players sitting and viewing area, trainer table-chair, small open store, V.I.P. sitting.	Y	-
19.	Squash	Access to Court, court area, sitting area+ viewing gallery, equipment placing area, players sitting and viewing area, trainer table-chair, small open store, V.I.P. sitting.	Y	-
20.	Table-Tennis	Access to Court, court area, sitting area+ viewing gallery, equipment placing area, players sitting and viewing area, trainer table-chair, small open store, V.I.P. sitting.	Y	-
21.	All indoor sport.	Door, windows, switches, table and chairs, equipment store, a cupboard of indoor games and files, TV, Table and chairs or particular games, water containers area, soft boards and display tables	Y	-
22.	Toilet	Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.	Y	-
23.	Maintenance Room	Desktop with all the fixture, door, windows, table, chair, display board, storage racks of files, switch, cupboard, storage of equipment.	Y	-
24.	Record room	Door, window, table, chair, desktop, cupboards for storage of documents and files racks, switchboard, storage unit.	Y	-
25.	Store Room	Door, window, table, chair, desktop, switchboard, storage unit of material and files, sports equipment storage cupboard..	Y	-
26.	Changing Rooms with Lockers	Door, window, table, chair, cupboard for storage, switchboard, TV, display board, lockers, key stakeholders.	Y	-



ISSN: 2350-0328

**International Journal of Advanced Research in Science,
Engineering and Technology**

Vol. 8, Issue 3 , March 2021

27.	Sitting area	Chair with tables, exhibits boards and table, door, window, switches, exhibits things .	Y	-
28.	waiting area	Couch with tables, exhibits boards and table, door, window, switches, exhibits things .	Y	-
29.	Viewing Area	Sitting open or closed , table ,chair,	Y	-
30.	Equipment keeping room	Door, window, table, chair, switchboard, storage unit of sport material and files, sports equipment storage cupboard..	Y	-
31.	Movement area.	Passage, corridor, staircase, handrail, Blister, lifts, lift switch, balcony, terrace, galleries, arcade, path, door.	Y	-

ACTIVITY AREAS OF THE RECREATIONAL BLOCK WITH THERE ELEMENTS

S.No.	ACTIVITY AREAS OF RECREATIONAL BLOCK	ELEMENT OF THE ACTIVITY AREA	ABLE PERSON	DIS-ABLE PERSON
1.	Entry/Exit	Door	Y	-
2.	Security check	Door, window, table, chair, cupboard for storage, switchboard, TV, bed, display board.	Y	-
3.	Reception Area.	Reception desk, desktop, chair, display board, TV, switchboard, storage unit,	Y	-
4.	Inquire Area	Door, window, table, chair, cupboard for storage, switchboard, display board, TV stand	Y	-
5.	Clock Area	Door, window, table, chair, cupboard for storage, switchboard, TV, display board, lockers, key stakeholders.	Y	-
6.	Maintenance Area	Desktop with all the fixture, door, windows, table, chair, display board, storage racks of files and equipment's, switch, cupboard,	Y	-
7.	Staff area	Door, window, table, chair, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard.	Y	-
8.	Store Room	Door, window, table, chair, desktop, switchboard, storage unit of material and files, equipment storage cupboard..	Y	-
9.	Indoor Play Hall	Door, windows, switches, table and chairs, equipment store, a cupboard of indoor games and files, TV, Table and chairs or particular games, water containers area, soft boards and display tables	Y	-
10.	Yoga Area	Carpet keeping area, storage of small things, door, windows, switches, table and chairs, water containers area, soft boards.	Y	-
11.	Music Area	Equipment playing area, equipment keeping area open and close, sitting area, table and chairs, soft board, Black or green boards, cupboard for documents and files, exhibit table, door, windows, switches.	Y	-
12.	Dance Area	Music system playing area, a storage unit for it, clothes storage space, dance area with mirror, display board and table, green boards, cupboard for documents and files, water containers area, table and chairs.	Y	-
13.	Art and Crafts Area	Art and crafts working area on the ground or the table, art and craft store, table and chairs, green board, an exhibition on boards and tables area, cupboards for storage of documents and craft, door,	Y	-



ISSN: 2350-0328

**International Journal of Advanced Research in Science,
Engineering and Technology**

Vol. 8, Issue 3 , March 2021

		windows, switches,		
14.	Activity Area	Door, windows, switches, table and chairs, equipment store, a cupboard of games and files, TV, Table and chairs or particular games or activities, water containers area, soft boards and display tables	Y	-
15.	Sitting Area / Discussion area open and closed both	Door, windows, switches, table and chairs, water containers area, soft boards and display tables, a cupboard of files, TV.	Y	-
16.	Cafe / small Restaurants area	Door, windows, switches, table and chairs, water containers area., cabinets, kitchen top, washer dryer, utensils keeping area, refrigerator, water purification, tapes, storage of food, grains, vegetables, spices, and utensils, switch's, ventilation machine, display area and storage unit.	Y	-
17.	Toilet	Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.	Y	-
18.	Gym Area	Door, windows, switches, GYM equipment keep the area, GYM equipment working area, Storage unit of equipment and elements related to it, table, chair, area for cardio exercise, toilets, water containers, Instructor area with table and chairs and storage unit.	Y	-
19.	Movement area.	Passage, corridor, staircase, handrail, Blister, lifts, lift switch, balcony, terrace, galleries, arcade, path, door.	Y	-

ACTIVITY AREAS OF THE MESS BLOCK WITH THERE ELEMENTS

S.No.	ACTIVITY AREAS OF MESS BLOCK	ELEMENT OF THE ACTIVITY AREA	ABLE PERSON	DIS-ABLE PERSON
1.	Entry/Exit	Door	Y	-
2.	Security area and Inquiry area	Door, window, table, chair, cupboard for storage, switchboard, TV, bed, display board.	Y	-
3.	Washing Area	Hand wash-Basin with faucets, mirror, hand dryer, soap dispenser, clothes rack.	Y	-
4.	Toilet	Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.	Y	-
5.	Preparation Area	Door, window, cabinets, kitchen top, washer dryer, utensils keeping area, refrigerator, water purification, tapes, storage of food, grains, vegetables, spices, and utensils, switch's, ventilation machine.	Y	-
6.	Kitchen Area (Cooking Area)	kitchen top, utensils keeping area, refrigerator, water purification, tapes, door, window, cabinets, washer dryer, storage of food, grains, vegetables, spices, and utensils, switch's, ventilation machine.	Y	-
7.	Store area of Food and Vegetables	storage of food, grains, vegetables, spices spaces according to needs- means in open or in closed cupboard or storage unit, door, window, switch's.	Y	-
8.	Head Room	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard.	Y	-
9.	Staff Room	Door, window, table, chair, desktop, exhibit board	Y	-

		and table, TV, a cabinet for storage of files and documents, switchboard, bed.		
10.	Meeting Area	Door, window, long table with chairs, couch, projector, file racks, exhibit board and tables, switches, storage of small things or cupboard.	Y	-
11.	Food testing area / Countertops	Countertops, table display board with a blackboard.	Y	-
12.	Sitting Area (Eating Area)	Door, window, long tables with chairs, couch, exhibit board and tables, switches.	Y	-
13.	Waiting Area	Chair with tables, exhibits boards and table, door, window, switches, exhibits things	Y	-
14.	Reception/ Enquiry Area	Reception desk, desktop, chair, display board, TV, switchboard, storage unit,	Y	-
15.	Record Room	Door, window, table, chair, desktop, cupboards for storage of documents and files racks related to food, switchboard, storage unit.	Y	-
16.	Washing area of utensils	Door, faucets of water out, place of keeping utensils, washing area, place of keeping washed utensils, switches, small storage containers, storage units of utensils.	Y	-
17.	Collecting area (Food taking)	A long table where all the food is being stored and kept for before server, chair, switch, cupboard, storage unit of utensils both open and closed.	Y	-
18.	Serving Area (Where Food is Kept)	Long-serving table with chair, storage unit of utensils, both open and closed, door, switches, windows, clothes rack, cupboard.	Y	-
19.	Store room	Door, window, table, chair, switchboard, storage unit of material and files, food keeping racks.	Y	-
20.	Maintenance Area	Desktop with all the fixture, door, windows, table, chair, display board, storage racks of files and food items, switch, cupboard,	Y	-
21.	Vegetable Washing area	Area where the vegetable is been washed, faucets, storage unit, door, windows, switches, an area where vegetables are been kept before and after washing, utensils keeping area, cupboards.	Y	-
22.	Vegetable Collection Area from outside	Carrying unit, area of keeping things, storage open and closed, door, cupboard for files.	Y	-
23.	Movement area.	Passage, corridor, staircase, handrail, Blister, lifts, lift switch, balcony, terrace, galleries, arcade, path, door.	Y	-

ACTIVITY AREAS OF THE HOSTEL BLOCK WITH THERE ELEMENTS

S.No.	ACTIVITY AREAS OF HOSTEL BLOCK	ELEMENT OF THE ACTIVITY AREA	ABLE PRESON	DIS-ABLE PERSON
1.	Entry/Exit	Door	Y	-
2.	Security Area	Door, window, table, chair, cupboard for storage, switchboard, TV, bed, display board.	Y	-
3.	Enquiry Area	Door, window, table, chair, cupboard for storage, switchboard, display board, TV stand,.	Y	-
4.	Record Room	Door, window, table, chair, desktop, cupboards for storage of documents and files racks, switchboard, storage unit.	Y	-
5.	Waiting Area	Couch with tables, exhibits boards and table, door, window, switches, exhibits things .	Y	-
6.	Entry Foyer	Open, closed with exhibits things .	Y	-
7.	Meeting Room	Door, window, long table with chairs, couch,	Y	-



ISSN: 2350-0328

**International Journal of Advanced Research in Science,
Engineering and Technology**

Vol. 8, Issue 3 , March 2021

		projector, file racks, exhibit board and tables, switches, storage of small things or cupboard.		
8.	Toilets	Door, ventilator, washbasin, water closet, urinals, hand soaps place, switches, counters height, the height of all equipment placed in a toilet area, mirror.	Y	-
9.	Room for Stay - Dormitory	Bed, study table, chair, door, windows, switches, store area of book and files or documents, cupboard for clothes and accessories.	Y	-
10.	Room for Stay - Triple Sharing	Bed, study table, chair, door, windows, switches, store area of book and files or documents, cupboard for clothes and accessories.	Y	-
11.	Room for Stay - Double Sharing	Bed, study table, chair, door, windows, switches, store area of book and files or documents, cupboard for clothes and accessories.	Y	-
12.	Room for Stay - Single Rooms	Bed, study table, chair, door, windows, switches, store area of book and files or documents, cupboard for clothes and accessories.	Y	-
13.	Common Area	Open , Closed - Door, windows, switches, table and chairs, water containers area, soft boards and display tables, a cupboard for storage, TV.	Y	-
14.	Activity Area	Door, windows, switches, table and chairs, equipment store, a cupboard of files, TV, Table and chairs for particular activities, water containers area, soft boards and display tables	Y	-
15.	Store Area in Rooms	Door, window, switchboard, storage unit of material and files.	Y	-
16.	Small Canteen	Door, windows, switches, table and chairs, water containers area,, cabinets, kitchen top, washer dryer, utensils keeping area, refrigerator, water purification, tapes, storage of food, grains, vegetables, spices, and utensils, switch's, ventilation machine, display area and storage unit.	Y	-
17.	Gathering Area	Open , Closed - Door, windows, switches, table and chairs, soft boards and display tables, TV.	Y	-
18.	Staff Room	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard.	Y	-
19.	Warden Room	Bed, door, windows, switches, a cupboard for storage, display unit, mirror area, storage unit of small things, TV.	Y	-
20.	Store Room	Door, window, table, chair, desktop, switchboard, storage unit of material and files.	Y	-
21.	Gym Area for block	Door, windows, switches, GYM equipment keep the area, GYM equipment working area, Storage unit of equipment and elements related to it, table, chair, area for cardio exercise, toilets, water containers, Instructor area with table and chairs and storage unit	Y	-
22.	Indoor play area	Door, windows, switches, table and chairs, equipment store, a cupboard of indoor games and files, TV, Table and chairs or particular games, water containers area, soft boards and display tables	Y	-
23.	Open area for sitting	Table , chair, exhibit area.	Y	-
24.	Movement area.	Passage, corridor, staircase, handrail, Blister, lifts, lift switch, balcony, terrace, galleries, arcade, path, door.	Y	-
25.	Small Hall	Door, windows, switches, table and chairs,	Y	-



ISSN: 2350-0328

**International Journal of Advanced Research in Science,
Engineering and Technology**

Vol. 8, Issue 3 , March 2021

		equipment store, a cupboard of files, TV, soft boards and display tables		
26.	Maintenance Room	Desktop with all the fixture, door, windows, table, chair, display board, storage unit, switch, cupboard,	Y	-

ACTIVITY AREAS OF THE RESIDENT FOR FACILITY AND STAFFS WITH THERE ELEMENTS

S.No.	ACTIVITY AREAS OF RESIDENT AREA FOR FACILITY AND STAFFS	ELEMENT OF THE ACTIVITY AREA	ABLE PRESON	DIS-ABLE PERSON
1.	Entry/Exit	Door	Y	-
2.	Security Area	Door, window, table, chair, cupboard for storage, switchboard, TV, bed, display board.	Y	-
3.	Records Area	Door, window, table, chair, desktop, cupboards for storage of documents and files racks, switchboard, storage unit.	Y	-
4.	Store Area	Door, window, table, chair, desktop, switchboard, storage unit of material and files.	Y	-
5.	Maintenance Area	Desktop with all the fixture, door, windows, table, chair, display board, storage racks of files, switch, cupboard,	Y	-
6.	-Resident- Single House	1. Drawing Room - Door, windows, switches, exhibit area, array unit of memento, couch, table, chairs, small furniture for the storage of files or document and accessory, TV, sofa-bed, home theatre.	Y	-
7.	-Resident- Double House	2. Dining Room - Dining Table with chairs, Door, window, switches, storage and display unit of utensils, exhibit area, small closed storage unit.		
8.	-Resident- Single Share House	3. Bedroom - Bed, door, windows, switches, a cupboard for storage, display unit, mirror area, small closed storage unit - side table with or without lamp, storage unit of small things, TV.		
9.	-Duplex House.	4. Kitchen - Door, window, cabinets, kitchen top, washer dryer, utensils keeping area, refrigerator, water purification, tapes, storage of food, grains, vegetables, spices, and utensils, switch's, ventilation machine.		
10.	-Resident- Small House means Two floor House with sharing.	5. Toilet - Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.		
11.	-Resident- 4 Story House	6. Children room- Bed, door, windows, switches, study table and chair, Cupboard for storage, side tables, TV, storage unit of books and documents.		
12.	-Resident- Apartments	7. Storeroom - Area with storage of things, a cupboard, door, windows, table, chair, switches.		
13.	-Resident- LIG For works	8. Lobby - Display area, hand wash area, small sitting area,		
14.	-Resident- MIG For Officers	9. Miscellaneous area- Washing Machine area ,Inverter area ,Shoe storage area, Newspaper		
15.	Resident- HIG For Faculty, V.C, Pro. V.C, and other high-rank officers	1. Drawing Room - Door, windows, switches, exhibit area, array unit of memento, couch, table, chairs, small furniture for the storage of files or document and accessory, TV, sofa-bed, home theatre.	Y	-



		<p>2. Dining Room - Dining Table with chairs, Door, window, switches, storage and display unit of utensils, exhibit area, small closed storage unit.</p> <p>3. Bedroom - Bed, door, windows, switches, a cupboard for storage, display unit, mirror area, small closed storage unit - side table with or without lamp, storage unit of small things, TV.</p> <p>4. Kitchen - Door, window, cabinets, kitchen top, washer dryer, utensils keeping area, refrigerator, water purification, tapes, storage of food, grains, vegetables, spices, and utensils, switch's, ventilation machine.</p> <p>5. Toilet - Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.</p> <p>6. Children room- Bed, door, windows, switches, study table and chair, Cupboard for storage, side tables, TV, storage unit of books and documents.</p> <p>7. Storeroom - Area with storage of things, a cupboard, door, windows, table, chair, switches.</p> <p>8. Lobby - Display area, hand wash area, small sitting area,</p> <p>9. Miscellaneous area- Washing Machine area ,Inverter area ,Shoe storage area, Newspaper</p> <p>10. Gardens.</p>		
16.	Parks, Garden and water bodies	<p>Living elements - Flora or Fauna</p> <p>Natural elements - land from, bodies of water - Fountains, Pools, Ponds, Artificial waterfalls.</p> <p>Human elements - Structure, building, fences or other material object developed or install by humans.</p>	Y	-
17.	Play area for children.	Door, windows, table and chairs, bench's, play equipment , area of storage,	Y	-
18.	Community Hall	Door, windows, switches, table and chairs, equipment store, a cupboard of files, TV, soft boards and display walls	Y	-
19.	Meeting Hall	Door, window, long table with chairs, couch, projector, file racks, exhibit board and tables, switches, storage of small things or cupboard.	Y	-
20.	Conference Area	Presentation platform, Door, window, table, chairs, couch, projector, file racks, exhibit board and tables, switches, storage of small things or cupboard, book racks.	Y	-
21.	Parking Area	Parking Space for car, bike, cycle, movement area.	Y	-
22.	Shop of everyday requirements.	Door, windows, switches, table and chairs, equipment store, a cupboard for storage unit, display unit, selling counter , money collection rack, files rack.	Y	-
23.	Toilet	Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.	Y	-
24.	Recreation Area	Door, windows, switches, table and chairs, equipment store, a cupboard of games and files, TV, Table and chairs or particular games or activities, water containers area, soft boards and display tables	Y	-



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**International Journal of Advanced Research in Science,
Engineering and Technology**

Vol. 8, Issue 3, March 2021

ACTIVITY AREAS OF THE GUEST HOUSE WITH THERE ELEMENTS

S.No.	ACTIVITY AREAS OF GUEST HOUSE	ELEMENT OF THE ACTIVITY AREA	ABLE PERSON	DIS-ABLE PERSON
1.	Entry/Exit	Door	Y	-
2.	Security Area	Door, window, table, chair, cupboard for storage, switchboard, TV, bed, display board.	Y	-
3.	Reception/ Enquiry area	Reception desk, desktop, chair, display board, TV, switchboard, storage unit,	Y	-
4.	Waiting Area / Sitting Area	Couch with tables, exhibits boards and table, door, window, switches, exhibits things	Y	-
5.	Clock Room	Door, window, table, chair, cupboard for storage, switchboard, TV, display board, lockers, key stakeholders.	Y	-
6.	Store Room	Door, window, table, chair, desktop, switchboard, storage unit of material and files.	Y	-
7.	Maintenance Room	Desktop with all the fixture, door, windows, table, chair, display board, storage unit, switch, cupboard,	Y	-
8.	Record Room	Door, window, table, chair, desktop, cupboards for storage of documents and files racks, switchboard, storage unit.	Y	-
9.	Staff Room	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard, Bed.	Y	-
10.	Manager Room	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard, Bed.	Y	-
11.	Toilet	Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.	Y	-
12.	Dining Area	Door, window, long tables with chairs, couch, exhibit board and tables, switches	Y	-
13.	Kitchen	Door, windows, switches, table and chairs, water containers area,, cabinets, kitchen top, washer dryer, utensils keeping area, refrigerator, water purification, tapes, storage of food, grains, vegetables, spices, and utensils, switch's, ventilation machine, display area and storage unit.	Y	-
14.	Room with attached Toilet	Bedroom - Bed, door, windows, switches, a cupboard for storage, display unit, mirror area, small closed storage unit - side table with or without lamp, storage unit of small things, TV. Toilet - Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.	Y	-
15.	Green Area	Living elements - Flora or Fauna Natural elements - land from, bodies of water - Fountains, Pools, Ponds, Artificial waterfalls.	Y	-
16.	Meeting Area	Door, window, couch with tables, projector, file racks, exhibit board and tables, switches, storage of small things or cupboard, display areas.	Y	-
17.	Conference Area	Presentation platform, Door, window, table, chairs, couch, projector, file racks, exhibit board and tables, switches, storage of small things or cupboard, book racks.	Y	-
18.	VIP Area	Door, window, table, chair, couch, attached toilet,	Y	-



		exhibit board and table, TV, cupboard for storage, files racks, switchboard.		
19.	VIP Living Area	Door, window, table, chair, couch, attached toilet, exhibit area, TV, switchboard.	Y	-
20.	VIP Rooms	Bedroom - Bed, door, windows, switches, a cupboard for storage, display unit, mirror area, small closed storage unit - side table with or without lamp, storage unit of small things, TV. Toilet - Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.	Y	-
21.	Play area	Door, windows, switches, table and chairs, equipment store, a cupboard of indoor games and files, TV, Table and chairs or particular games, water containers area, soft boards and display tables	Y	-
22.	Parking Area	Parking Space for car, bike, cycle, movement area.	Y	-

ACTIVITY AREAS OF THE BANK WITH THERE ELEMENTS

S.No.	ACTIVITY AREAS OF BANK	ELEMENT OF THE ACTIVITY AREA	ABLE PERSON	DIS-ABLE PERSON
1.	Entry/Exit	Door	Y	-
2.	Security Area	Door, Table, chair, small storage unit, cupboard, bed, TV, windows, switches.	Y	-
3.	Reception Area	Reception desk, desktop, a storage unit for documents and paper, chair, switches, display area.	Y	-
4.	Enquiry Area	Table, chair, documents and paper keeping area with storage of it.	Y	-
5.	Waiting Area	Couch, table, window, door, switches, display wall and table.	Y	-
6.	Sitting Area	Table, chairs, exhibit wall with furniture, a small table of papers.	Y	-
7.	Counter of Deposit, Taking, FD, RD, Passbook, Lone Area,	Door, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard, small money locker near the table.	Y	-
8.	Manager Room	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard, book racks.	Y	-
9.	Staff Room	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard.	Y	-
10.	Locker Room	Double door, ventilator window, switches, table, chair, key holder locker, lockers, storage unit.	Y	-
11.	Records Room	Door, window, table, chair, desktop, cupboards for storage of documents and files racks, switchboard, storage unit.	Y	-
12.	Maintenance Area	Desktop with all the fixture, door, windows, table, chair, display board, storage racks of files, switch, cupboard,	Y	-
13.	Cash Room	Double door, cash counting machines, cash storage lockers, cupboard for storage of documents, switches, Desktop, table, chair.	Y	-
14.	Computer Room	Door, window, table, chair, server keeping area, desktop with all accessory, a table for maintenance of computer, storage unit, cupboard, switches, TV, AC,	Y	-



15.	kitchen	Door, windows, switches, table and chairs, water containers area,, cabinets, kitchen top, washer dryer, utensils keeping area, refrigerator, water purification, tapes, storage of food, grains, vegetables, spices, and utensils, switch's, ventilation machine, display area and storage unit.	Y	-
16.	Meeting Area	Door, window, long table with chairs, couch, projector, file racks, exhibit board and tables, switches, storage of small things or cupboard.	Y	-
17.	Store Area	Door, window, table, chair, desktop, switchboard, storage unit of material and files.	Y	-
18.	Officer Area	Door, window, table, chair, couch, attached toilet, exhibit board and table, desktop, TV, cupboard for storage of documents and files racks, switchboard, cabinet for storage of files, book racks .	Y	-
19.	Toilet	Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.	Y	-
20.	VIP Rooms	Door, window, table, chair, couch, attached toilet, exhibit board and table, TV, cupboard for storage, files racks, switchboard.	Y	-
21.	Parking Area	Parking Space for car, bike, cycle, movement area.	Y	-
22.	Movement area	Passage, corridor, staircase, handrail, Blister, lifts, lift switch, galleries, path, door.	Y	-

ACTIVITY AREAS OF THE SHOPS WITH THERE ELEMENTS

S.No.	ACTIVITY AREAS OF SHOPS	ELEMENT OF THE ACTIVITY AREA	ABLE PRESON	DIS-ABLE PERSON
1.	Entry/Exit	Door	Y	-
2.	Security Area	Table and chairs, cupboard for storage.	Y	-
3.	Clock Area	Open or close Locker, table and chair, key holding stand.	Y	-
4.	Reception/ Enquiry area	Reception table, chair, cupboard near the table, storage racks for files, folders and documents, door, switches, desktop with all it's accessories, TV, display area.	Y	-
5.	Payment Countertop	Table, chair, switches, desktop with all accessories, storage unit, area of files and documents keeping open and closed.	Y	-
6.	Display Area	According to a shop there are display division, door, table, chair, windows, switches, display walls, exhibit area, storage cupboard closed and open.	Y	-
7.	Movement area	Passage, corridor, staircase, handrail, Blister, lifts, lift switch, galleries, path, door.	Y	-
8.	Store Area	Door, window, table, chair, switchboard, storage unit of material and files.	Y	-
9.	Maintenance room	Desktop with all the fixture, door, windows, table, chair, display board, storage racks of files, switch, cupboard,	Y	-
10.	Record Area	Door, window, table, chair, desktop, cupboards for storage of documents and files racks, switchboard, storage unit.	Y	-
11.	kitchen	Door, windows, switches, table and chairs, water containers area,, cabinets, kitchen top, washer dryer, utensils keeping area, refrigerator, water purification, tapes, storage of food, grains, vegetables, spices, and utensils, switch's,	Y	-

		ventilation machine, display area and storage unit.		
12.	Toilet	Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.	Y	-
13.	Waiting / Sitting area	Table, chair, door, switches, TV, display area.	Y	-
14.	Area for Keeping the things while lodging and unloading.	Carrying unit, area of keeping things, storage open and closed, door, cupboard for files.	Y	-
15.	Parking Area	Parking Space for car, bike, cycle, movement area.	Y	-

ACTIVITY AREAS OF THE RESTAURANTS / CAFETERIA / CAFÉ WITH THERE ELEMENTS

S.No.	ACTIVITY AREAS OF RESTAURANTS / CAFETERIA / CAFE	ELEMENT OF THE ACTIVITY AREA	ABLE PERSON	DIS-ABLE PERSON
1.	Entry/Exit	Door	Y	-
2.	Security Area	Table and chairs, cupboard for storage.	Y	-
3.	Clock Area	Open or close Locker, table and chair, key holding stand.	Y	-
4.	Waiting Area / Sitting Area	Couch, table, window, door, switches, display wall and table.	Y	-
5.	Reception/ Enquiry Area.	Reception desk, desktop, a storage unit for documents and paper, chair, switches, display area.	Y	-
6.	Sitting Area	Door, window, long tables with chairs, couch and table, exhibit wall, tables , chair, switches.	Y	-
7.	Washing Area	Hand wash-Basin with faucets, mirror, hand dryer, soap dispenser, clothes rack.	Y	-
8.	Toilets	Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.	Y	-
9.	Kitchen	kitchen top, utensils keeping area, refrigerator, water purification, tapes, door, window, cabinets, washer dryer, storage of food, grains, vegetables, spices, and utensils, switch's, ventilation machine.	Y	-
10.	Preparation Area	Door, window, cabinets, kitchen top, washer dryer, utensils keeping area, refrigerator, water purification, tapes, storage of food, grains, vegetables, spices, and utensils, switch's, ventilation machine.	Y	-
11.	Washing Area for Vegetable and utensils	Door, faucets of water out, place of keeping utensils, washing area, place of keeping washed utensils, switches, small storage containers, storage units of utensils.	Y	-
12.	Store area of Vegetable and food	storage of food, grains, vegetables, spices spaces according to needs- means in open or in closed cupboard or storage unit, door, window, switch's.	Y	-
13.	Cooking area	kitchen top, utensils keeping area, refrigerator, water purification, tapes, door, window, cabinets, washer dryer, storage of food, grains, vegetables, spices, and utensils, switch's, ventilation machine	Y	-
14.	Room for Chefs	Door, window, table, chair, desktop, exhibit board	Y	-



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**International Journal of Advanced Research in Science,
Engineering and Technology**

Vol. 8, Issue 3, March 2021

		and table, TV, a cabinet for storage of files and documents, switchboard, food testing round table.		
15.	Staff area	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard.	Y	-
16.	Area of Keeping the utensils	Door, washing area, place of keeping washed utensils, switches, small storage containers, storage units of utensils.	Y	-
17.	Manager Room	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard,	Y	-
18.	Store Rooms	Door, window, table, chair, switchboard, storage unit of material and files, food keeping racks.	Y	-
19.	Meeting Area	Door, window, long table with chairs, couch, exhibit board and walls, switches, storage of small things or cupboard.	Y	-
20.	Records/ Maintenance Area	Desktop with all the fixture, door, windows, table, chair, display board, storage racks of files and food items, switch, cupboard,	Y	-
21.	Parking Area	Parking Space for car, bike, cycle, movement area.	Y	-
22.	Movement area	Passage, corridor, staircase, handrail, Blister, lifts, lift switch, galleries, path, door.	Y	-

ACTIVITY AREAS OF THE SECURITY WITH THERE ELEMENTS

S.No.	ACTIVITY AREAS OF SECURITY	ELEMENT OF THE ACTIVITY AREA	ABLE PRESON	DIS-ABLE PERSON
1.	Entry/Exit	Door	Y	-
2.	Checking Area	Door, window, table, chair, cupboard for storage, switchboard, display board.	Y	-
3.	Clock Area	Door, window, table, chair, cupboard for storage, switchboard, display board.	Y	-
4.	Waiting Area / Sitting Area	Door, window, table, chair, cupboard for storage, switchboard, TV, display board.	Y	-
5.	Reception/ Enquiry Area.	Reception desk, desktop, chair, display board, TV, switchboard, storage unit,	Y	-
6.	Store area	Door, window, table, chair, desktop, switchboard, storage unit of material and files.	Y	-
7.	Records Area	Door, window, table, chair, desktop, cupboards for storage of documents and files racks, switchboard, storage unit.	Y	-
8.	Officers Area	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard, cupboard.	Y	-
9.	Staff Area	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard.	Y	-
10.	Maintenance Area	Door, windows, table, chair, display board, storage racks of files, switch, cupboard,	Y	-
11.	Toilet	Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.	Y	-
12.	Small Kitchen	Door, window, kitchen cabinets, kitchen top, washer dryer, utensils, refrigerator, water purification, tapes, storage of food, grains, vegetables, spices, and utensils, switch's, ventilation machine.	Y	-
13.	Area where the	Door, switchboard, water containers area, chair,	Y	-



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**International Journal of Advanced Research in Science,
Engineering and Technology**

Vol. 8, Issue 3, March 2021

	people is been kept.	bench seats.		
14.	Meeting Area	Door, window, long table with chairs, couch, projector, file racks, exhibit board and tables, switches, storage of small things or cupboard.	Y	-
15.	Parking Area	Parking Space for car, bike, cycle, movement area.	Y	-

ACTIVITY AREAS OF THE AUDITORIUM BLOCK WITH THERE ELEMENTS

S.No.	ACTIVITY AREAS OF AUDITORIUM BLOCK	ELEMENT OF THE ACTIVITY AREA	ABLE PRESON	DIS-ABLE PERSON
1.	Entry/Exit	Door	Y	-
2.	Security Check area	Door, window, table, chair, cupboard for storage, switchboard, TV, bed, display board.	Y	-
3.	Clock Room	Door, window, table, chair, cupboard for storage, switchboard, TV, display board, lockers, key stakeholders.	Y	-
4.	Reception / Enquiry Area	Reception desk, desktop, chair, display board, TV, switchboard, storage unit,	Y	-
5.	Waiting Area / Sitting Area	Couch with tables, exhibits boards and table, door, window, switches, exhibits things	Y	-
6.	Meeting Area	Door, window, long table with chairs, couch, projector, file racks, exhibit board and tables, switches, storage of small things or cupboard.	Y	-
7.	Gathering Area	Door, windows, switches, exhibit wall, display boards and table, open gathering area.	Y	-
8.	Projector Room	Door, windows, switches, table, chair, projector placing standards, tools keeping the area in cupboards, desktop with all accessories, TV, dispel board, files and documents racks.	Y	-
9.	Media Area	Door, windows, switches, camera placing area with standards, a storage device area, TV, desktop with all accessories, cupboard, files racks, Table, chair, couch.	Y	-
10.	Store Area	Door, window, table, chair, desktop, switchboard, storage unit of material and files.	Y	-
11.	Green Area	Door, windows, switches, table, chair, couch, bed, medical storage unit, cupboard for storage of clothes, equipment, tools, storage unit of files and documents, preparation area with makeup table and chairs with mirror, attach toilets, open storage units.	Y	-
12.	Toilets	Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.	Y	-
13.	Store Room for Tools	Door, window, table, chair, desktop, switchboard, storage unit of material files and tools.	Y	-
14.	Staff Room	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard.	Y	-
15.	Manager Room	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard,.	Y	-
16.	Sitting Area	Couch, tables, chairs, switches, door, storage, camera area, VIP sitting.	Y	-
17.	Stage Area	Storage, camera areas, entry / exit, stairs, door, switches.	Y	-
18.	Small Kitchen	Door, window, kitchen cabinets, kitchen top, washer dryer, utensils, refrigerator, water	Y	-



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**International Journal of Advanced Research in Science,
Engineering and Technology**

Vol. 8, Issue 3, March 2021

		purification, tapes, storage of food, grains, vegetables, spices, and utensils, switch's, ventilation machine.		
19.	Maintenance Room	Desktop with all the fixture, door, windows, table, chair, display board, storage racks of files, switch, cupboard,	Y	-
20.	Records Room	Door, window, table, chair, desktop, cupboards for storage of documents and files racks, switchboard, storage unit.	Y	-
21.	Tools Rooms	Door, window, table, chair, desktop, switchboard, storage unit of tools open and closed.	Y	-
22.	V.I.P. Area and Room	Door, window, table with chairs, couch, projector, file racks, exhibit board and tables, switches, storage of small things or cupboard.	Y	-
23.	Parking	Parking Space for car, bike, cycle, movement area.	Y	-
24.	Movement area.	Passage, corridor, staircase, handrail, Blister, lifts, lift switch, balcony, terrace, galleries, arcade, path, door.	Y	-

**ACTIVITY AREAS OF THE ELECTRICAL SUBSTATION, HVAC, PLUMBING, WATER OHT DEPARTMENTS
WITH THERE ELEMENTS**

S.No.	ACTIVITY AREAS OF DEPARTMENTS BLOCK	ELEMENT OF THE ACTIVITY AREA	ABLE PRESON	DIS-ABLE PERSON
1.	Entry/Exit	Door	Y	-
2.	Security Check area	Door, window, table, chair, cupboard for storage, switchboard, TV, bed, display board.	Y	-
3.	Clock Room	Door, window, table, chair, cupboard for storage, switchboard, TV, display board, lockers, key stakeholders.	Y	-
4.	Reception / Enquiry Area	Reception desk, desktop, chair, display board, TV, switchboard, storage unit,	Y	-
5.	Waiting Area / Sitting Area	Couch with tables, exhibits boards and table, door, window, switches, exhibits things	Y	-
6.	Store area	Door, window, table, chair, desktop, switchboard, storage unit of material and files.	Y	-
7.	Records room	Door, window, table, chair, desktop, cupboards for storage of documents and files racks, switchboard, storage unit.	Y	-
8.	Meeting Room	Door, window, long table with chairs, couch, projector, file racks, exhibit board and tables, switches, storage of small things or cupboard.	Y	-
9.	Manager Room	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard,.	Y	-
10.	Staff Rooms	Door, window, table, chair, desktop, exhibit board and table, TV, a cabinet for storage of files and documents, switchboard.	Y	-
11.	Officers room	Door, window, table, chair, couch, attached toilet, exhibit board and table, desktop, TV, cupboard for storage of documents and files racks, switchboard, cabinet for storage of files, book racks .	Y	-
12.	Kitchen	Door, window, kitchen cabinets, kitchen top, washer dryer, utensils, refrigerator, water purification, tapes, storage of food, grains, vegetables, spices, and utensils, switch's, ventilation machine.	Y	-



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International Journal of Advanced Research in Science, Engineering and Technology

Vol. 8, Issue 3, March 2021

13.	Toilet	Door, ventilator, washbasin, water closet, urinals, hand soaps place, hand dryer, switches, counters height, the height of all equipment placed in a toilet area.	Y	-
14.	Maintenance Area	Desktop with all the fixture, door, windows, table, chair, display board, storage racks of files, switch, cupboard,	Y	-
15.	Site room	Door, window, table, chair, desktop, switchboard, storage unit of material and files.	Y	-
16.	Room for equipment	Door, window, table, chair, desktop, switchboard, storage unit of material and files, cupboard, open and closed area, display board, .	Y	-
17.	Rooms for Labour's	Door, window, table, chair, switchboard, storage unit of material and files, cupboard, TV,	Y	-
18.	Resting Room	Door, window, table, chair, switchboard, storage cupboard, TV, bed.	Y	-
19.	Medical area	Door, window, table, chair, switchboard, cupboard, TV, bed, medical storage unit.	Y	-
20.	Computer Room	Door, window, table, chair, server keeping area, desktop with all accessory, a table for maintenance of computer, storage unit, cupboard, switches, TV, AC,	Y	-
21.	Room for Display	Door, window, table with chairs, exhibit board and tables, , projector, file racks.	Y	-
22.	V.I.P. Area and Room	Door, window, table with chairs, couch, projector, file racks, exhibit board and tables, switches, storage of small things or cupboard.	Y	-
23.	Parking	Parking Space for car, bike, cycle, movement area.	Y	-
24.	Movement area.	Passage, corridor, staircase, handrail, Blister, lifts, lift switch, balcony, terrace, galleries, arcade, path, door.	Y	-

Activity which an able and dis-able person will be doing in technical campus, if he is able to do activity without any help then Yes (Y) and if not then No (N)

S.NO.	ACTIVITY AREAS	ABLE PRESON	DIS-ABLE PERSON
1.	Main Entry/ Main exit.	Y	N
2.	Administrative Block	Y	N
3.	Academic Block	Y	N
4.	Library Block	Y	N
5.	Sports Area	Y	N
6.	Recreational Block	Y	N
7.	Mess	Y	N
8.	Hostel	Y	N
9.	Resident Area for Facility and Staffs	Y	N
10.	Guest House	Y	N
11.	Bank	Y	N
12.	Shops	Y	N
13.	Restaurants / Cafeteria / Cafe	Y	N
14.	Security	Y	N
15.	Medical Centre	Y	N
16.	Auditorium Block	Y	N
17.	Electrical substation, HVAC, Plumbing, Water OHT Departments	Y	N
18.	Parking Area	Y	N
19.	Water Body areas	Y	N
20.	Green Area	Y	N
21.	Worship Place.	Y	N



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**International Journal of Advanced Research in Science,
Engineering and Technology**

Vol. 8, Issue 3 , March 2021

22.	Road , Pathway , Footpath	Y	N
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DIFFERENT KINDS OF DISABILITIES - (DOING EDUCATIONAL ACTIVITIES)

1. LEPROSY CURED PERSON (loss of sensation)
2. LEPROSY CURED PERSON (manifest deformity)
3. LEPROSY CURED PERSON (extreme physical deformity)
4. CEREBRAL PALSY
5. DWARFISM
6. MUSCULAR DYSTROPHY
7. ACID ATTACK VICTIMS
8. BLINDNESS
9. LOW-VISION
10. DEAF
11. HARD OF HEARING
12. SPEECH AND LANGUAGE DISABILITY
13. SPECIFIC LEARNING DISABILITIES
14. AUTISM SPECTRUM DISORDER
15. MENTAL ILLNESS
16. MULTIPLE SCLEROSIS
17. PARKINSON'S DISEASE
18. HAEMOPHILIA
19. THALASSEMIA
20. SICKLE CELL DISEASE
21. MULTIPLE DISABILITIES

Putting these disabilities into the area-

SNO.	AREA	1.	2.	3.	4.	5.	6.	7.
1.	Main Entry/ Main exit.	N	N	N	N	N	N	N
2.	Administrative Block	N	N	N	N	N	N	N
3.	Academic Block	N	N	N	N	N	N	N
4.	Library Block	N	N	N	N	N	N	N
5.	Sports Area	N	N	N	N	N	N	N
6.	Recreational Block	N	N	N	N	N	N	N
7.	Mess	N	N	N	N	N	N	N
8.	Hostel	N	N	N	N	N	N	N
9.	Resident Area for Facility and Staffs	N	N	N	N	N	N	N
10.	Guest House	N	N	N	N	N	N	N
11.	Bank	N	N	N	N	N	N	N
12.	Shops	N	N	N	N	N	N	N
13.	Restaurants / Cafeteria / Cafe	N	N	N	N	N	N	N
14.	Security	N	N	N	N	N	N	N
15.	Medical Centre	N	N	N	N	N	N	N
16.	Auditorium Block	N	N	N	N	N	N	N
17.	Electrical substation, HVAC, Plumbing, Water OHT Departments	N	N	N	N	N	N	N
18.	Parking Area	N	N	N	N	N	N	N
19.	Water Body areas	N	N	N	N	N	N	N
20.	Green Area	N	N	N	N	N	N	N
21.	Worship Place.	N	N	N	N	N	N	N
22.	Road , Pathway , Footpath	N	N	N	N	N	N	N

SNO.	AREA	8.	9.	10.	11.	12.	13.	14.
1.	Main Entry/ Main exit.	N	N	N	N	N	N	N
2.	Administrative Block	N	N	N	N	N	N	N
3.	Academic Block	N	N	N	N	N	N	N



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**International Journal of Advanced Research in Science,
Engineering and Technology**

Vol. 8, Issue 3 , March 2021

4.	Library Block	N	N	N	N	N	N	N
5.	Sports Area	N	N	N	N	N	N	N
6.	Recreational Block	N	N	N	N	N	N	N
7.	Mess	N	N	N	N	N	N	N
8.	Hostel	N	N	N	N	N	N	N
9.	Resident Area for Facility and Staffs	N	N	N	N	N	N	N
10.	Guest House	N	N	N	N	N	N	N
11.	Bank	N	N	N	N	N	N	N
12.	Shops	N	N	N	N	N	N	N
13.	Restaurants / Cafeteria / Cafe	N	N	N	N	N	N	N
14.	Security	N	N	N	N	N	N	N
15.	Medical Centre	N	N	N	N	N	N	N
16.	Auditorium Block	N	N	N	N	N	N	N
17.	Electrical substation, HVAC, Plumbing, Water OHT Departments	N	N	N	N	N	N	N
18.	Parking Area	N	N	N	N	N	N	N
19.	Water Body areas	N	N	N	N	N	N	N
20.	Green Area	N	N	N	N	N	N	N
21.	Worship Place.	N	N	N	N	N	N	N
22.	Road , Pathway , Footpath	N	N	N	N	N	N	N

SNO.	AREA	15.	16.	17.	18.	19.	20.	21.
1.	Main Entry/ Main exit.	N	N	N	N	N	N	N
2.	Administrative Block	N	N	N	N	N	N	N
3.	Academic Block	N	N	N	N	N	N	N
4.	Library Block	N	N	N	N	N	N	N
5.	Sports Area	N	N	N	N	N	N	N
6.	Recreational Block	N	N	N	N	N	N	N
7.	Mess	N	N	N	N	N	N	N
8.	Hostel	N	N	N	N	N	N	N
9.	Resident Area for Facility and Staffs	N	N	N	N	N	N	N
10.	Guest House	N	N	N	N	N	N	N
11.	Bank	N	N	N	N	N	N	N
12.	Shops	N	N	N	N	N	N	N
13.	Restaurants / Cafeteria / Cafe	N	N	N	N	N	N	N
14.	Security	N	N	N	N	N	N	N
15.	Medical Centre	N	N	N	N	N	N	N
16.	Auditorium Block	N	N	N	N	N	N	N
17.	Electrical substation, HVAC, Plumbing, Water OHT Departments	N	N	N	N	N	N	N
18.	Parking Area	N	N	N	N	N	N	N
19.	Water Body areas	N	N	N	N	N	N	N
20.	Green Area	N	N	N	N	N	N	N
21.	Worship Place.	N	N	N	N	N	N	N
22.	Road , Pathway , Footpath	N	N	N	N	N	N	N

Person facing difficulties- people with different disabilities can't perform educational activities easily they face problem's at various areas and also in access to activities elements.

VIII TO DESIGN AS PER ABLE AND DIA-ABLE PERSON.

From their experiences, understanding, background, hardship, suffering, happening, events and many more come to the design part.

CLASS ROOM ACTIVITY WITH ELEMENTS AS PER THE DIS-ABLE PERSON.

a – Door, b – Window, c – Switches, d – Table, e – Chair, f - Locker / store area, g – Display board, h – Black or green teaching board, i – Platform for teacher to teach, j – Teacher table and chair, k – seating arrangement for student.

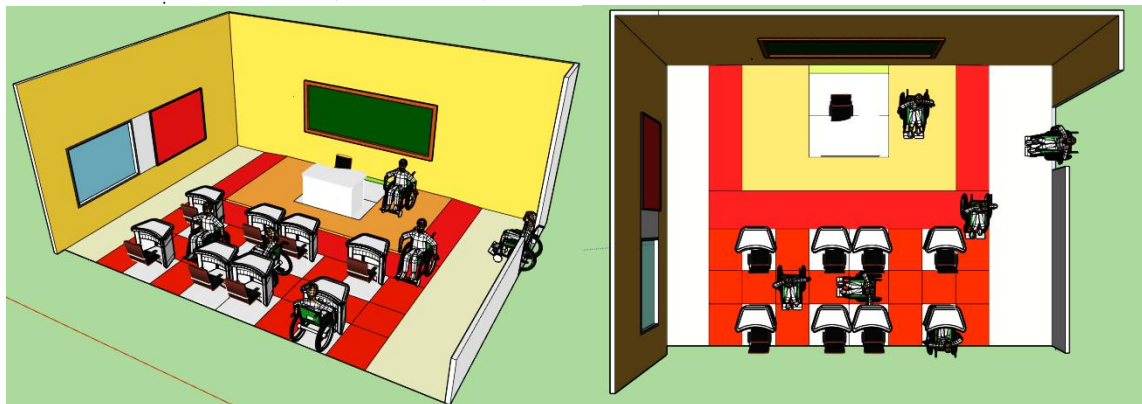
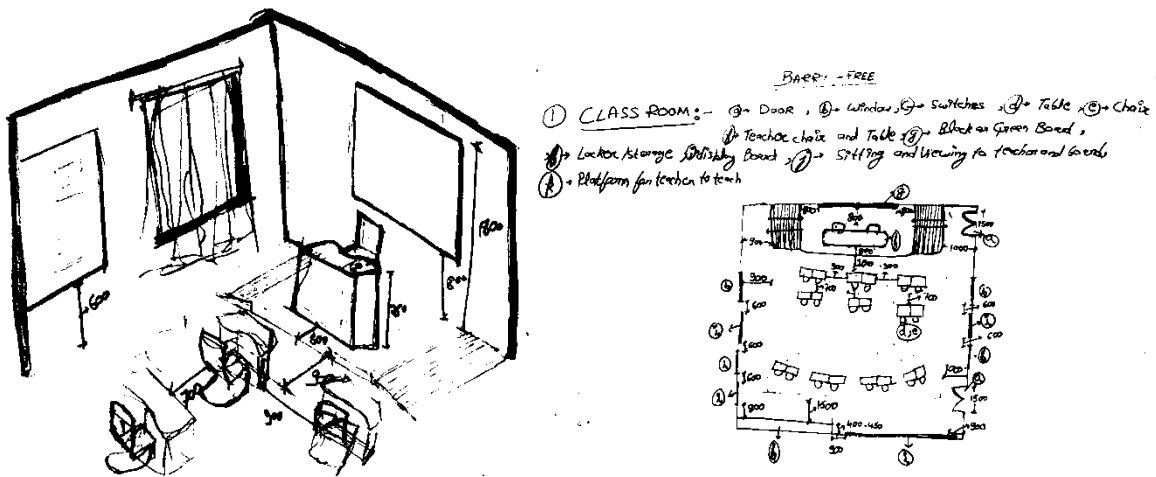


Fig1. Class Room Detail and Design as per discussion with dis-able person.

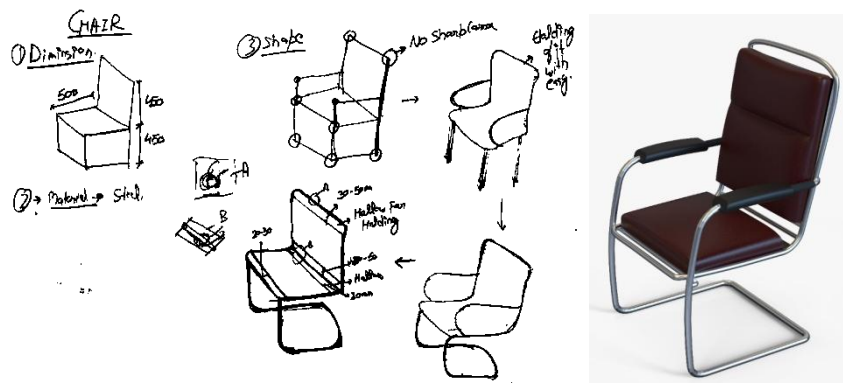


Fig2. Chair Detail and Design as per discussion with dis-able person.



Fig3. Table Detail and Design as per discussion with dis-able person.

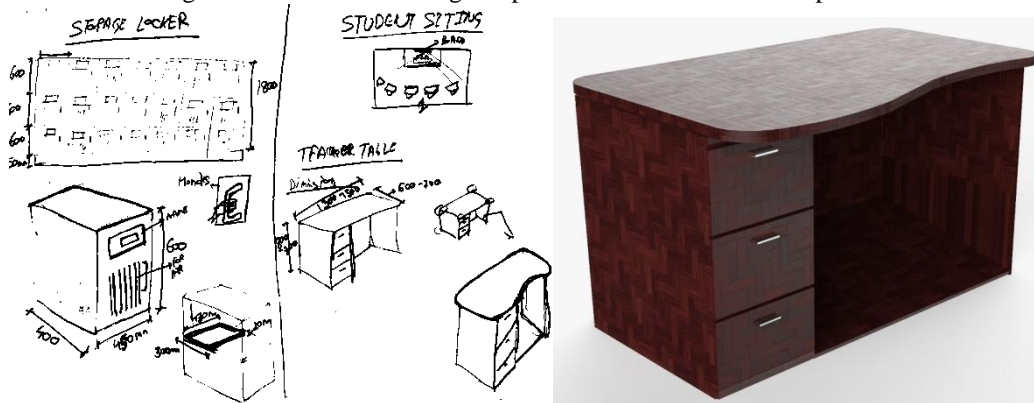


Fig4. Teacher Table Detail and Design as per discussion with dis-able person.

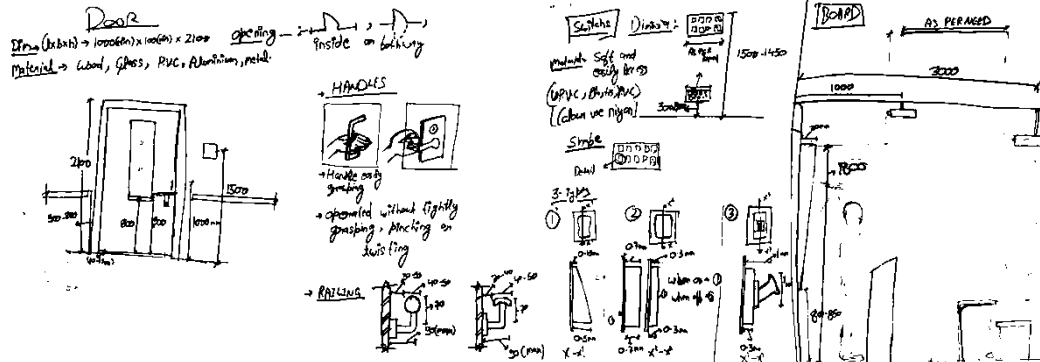


Fig6. Door, board placing and Switch Detail and Design as per discussion with dis-able person.

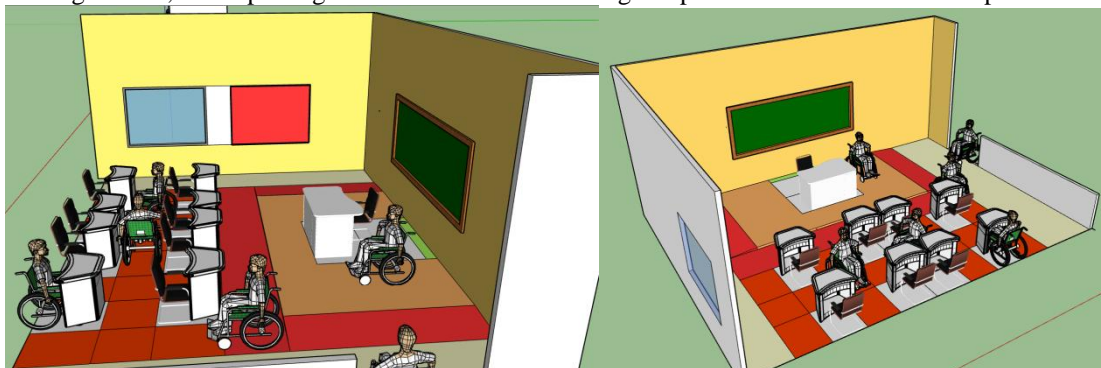


Fig7. View of class room Design as per discussion with dis-able person.

TOILET AREA ACTIVITY WITH ELEMENTS AS PER THE DIS-ABLE PERSON.

a – Door, b – Window, c – Switches, d – Ventilator, e – W.C., f – Washbasin, g – Faust's, h – Bath area,

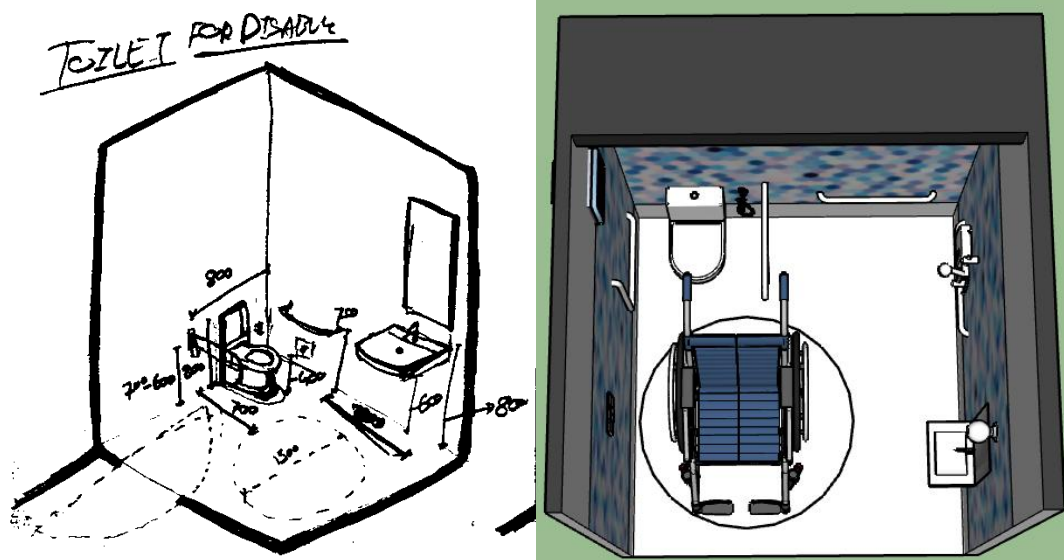


Fig8. Toilet Detail and Design as per discussion with dis-able person.

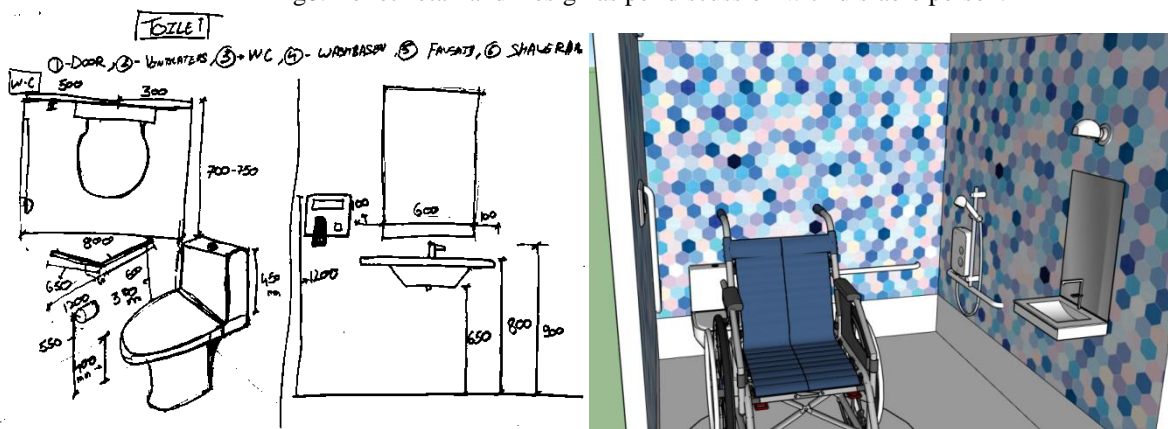


Fig9. Toilet Fixture Detail and Design as per discussion with dis-able person.

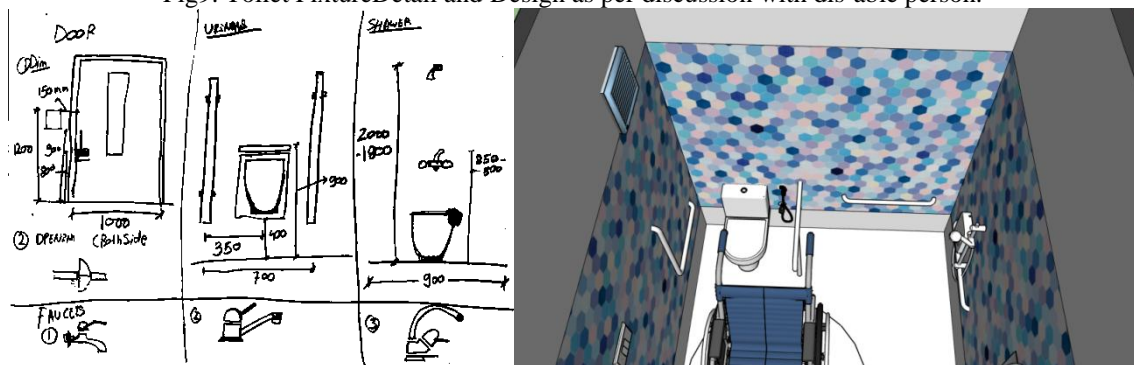


Fig10. Toilet Fixture Detail and Design as per discussion with dis-able person.

STAIRCASE ACTIVITY WITH ELEMENTS AS PER THE DIS-ABLE PERSON.

a – Riser, b – Trade, c – Handrail, d – Wirth, e – Baluster, f – Nosing,

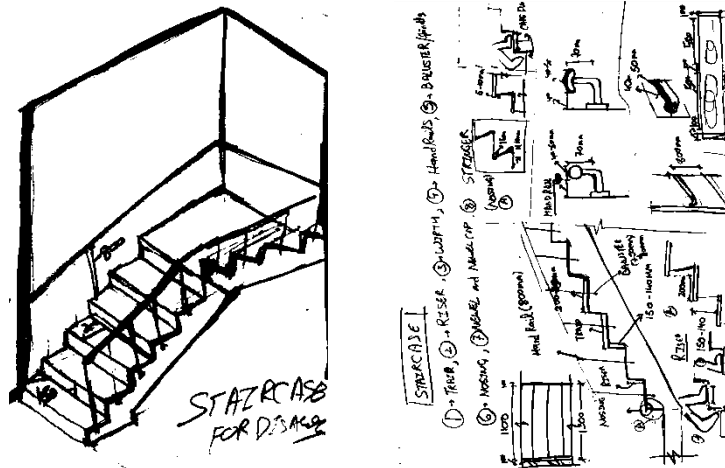


Fig11. Staircase Detail as per discussion with dis-able person.

KITCHEN ACTIVITY WITH ELEMENTS AS PER THE DIS-ABLE PERSON.

a – Door, b – Window – Cooking area, d – Preparation area, – Washing area, f – Storage area,

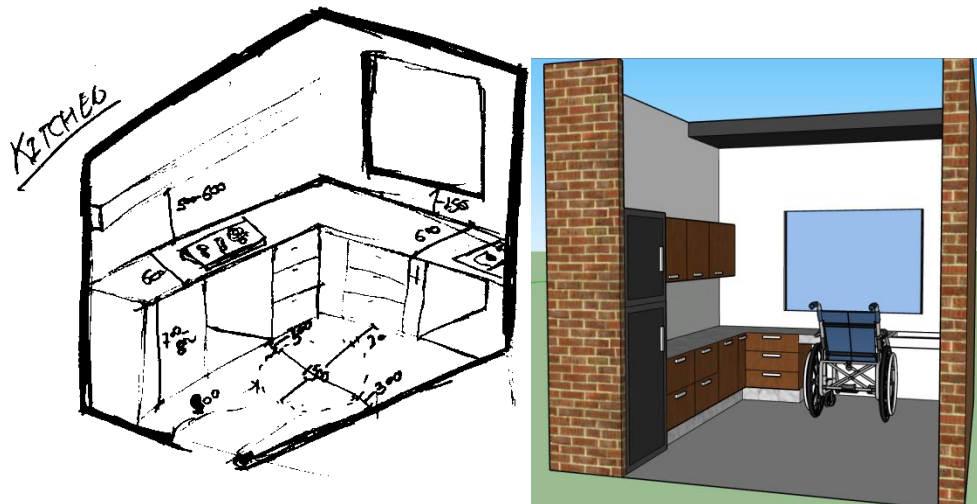


Fig12. Kitchen Detail as per discussion with dis-able person.

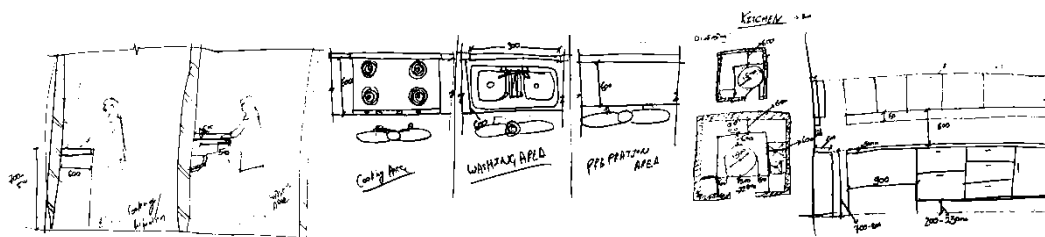


Fig13. Kitchen Detail as per discussion with dis-able person.



Fig14. Kitchen View as per discussion with dis-able person.

HOSTEL ROOM ACTIVITY WITH ELEMENTS AS PER THE DIS-ABLE PERSON.

a – Door, b – Window, c – Bed, d – Table, e – Chair, f – Storage area, G-Switch H- Book and documents keeping area

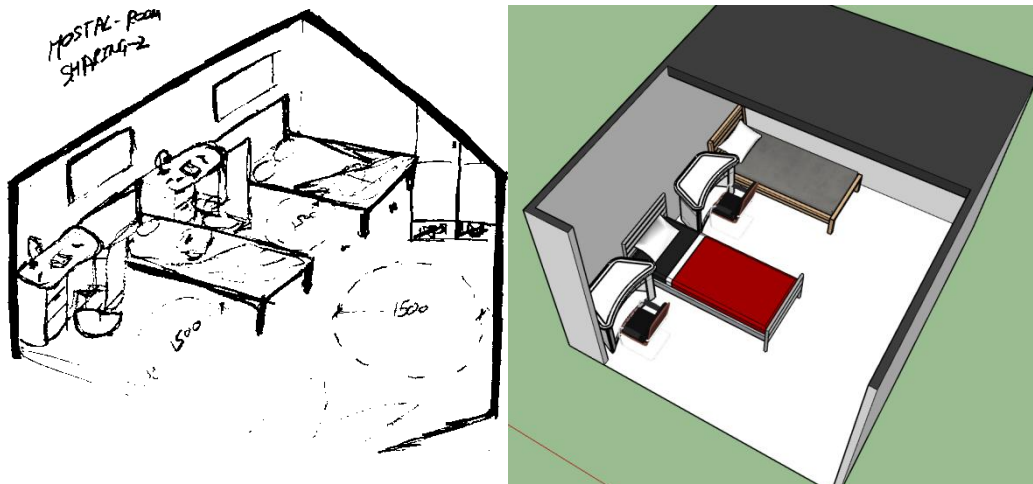


Fig15. Hostel room Detail and View as per discussion with dis-able person.

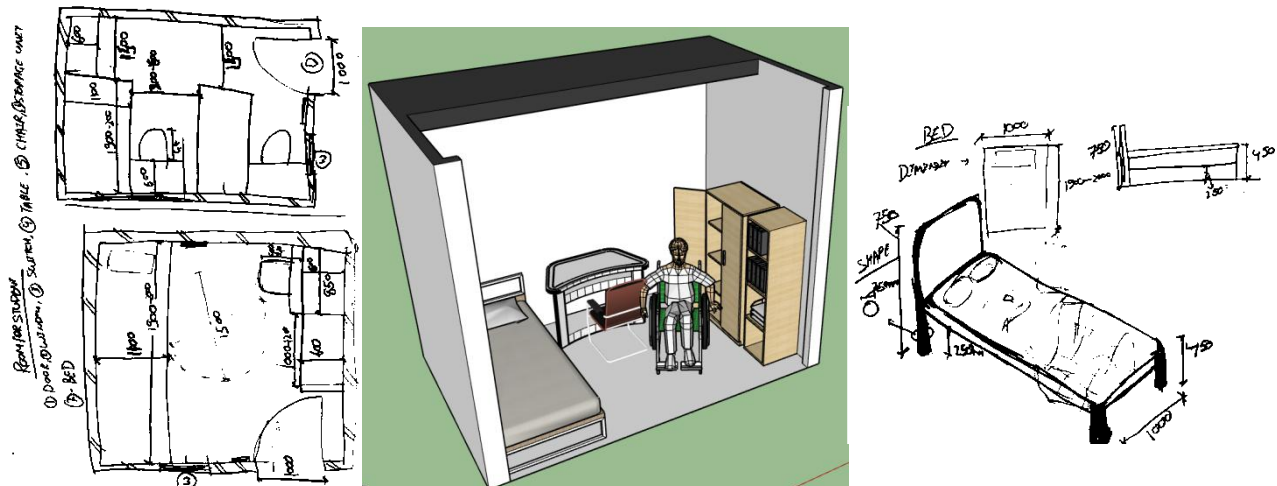
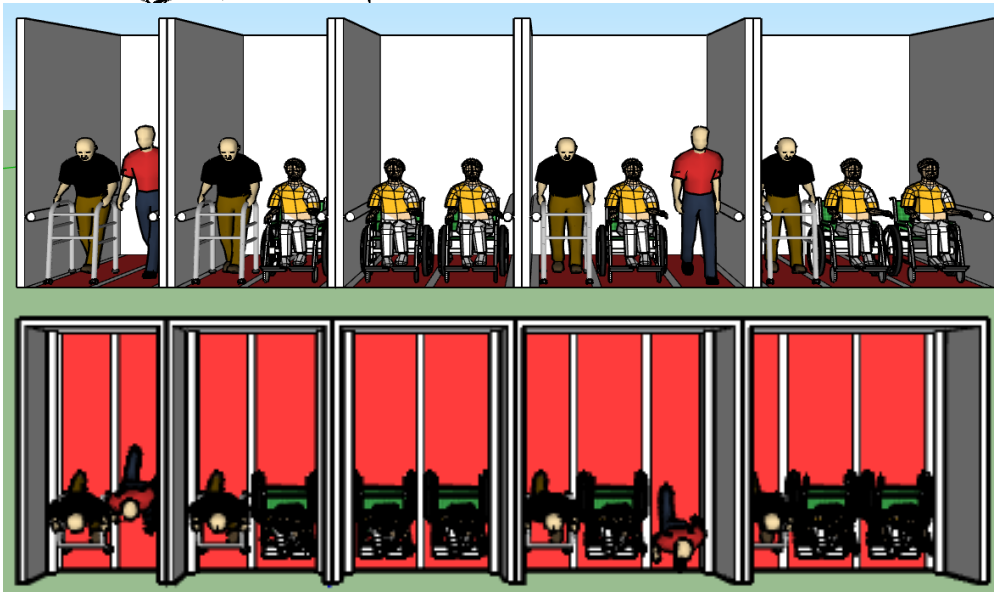
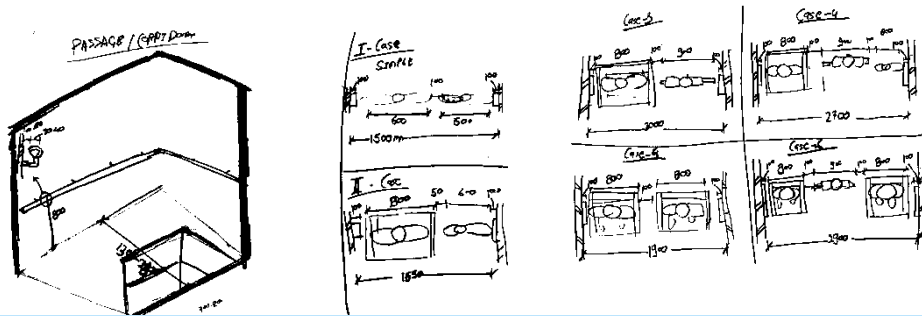


Fig16. Hostel room Detail and View as per discussion with dis-able person.

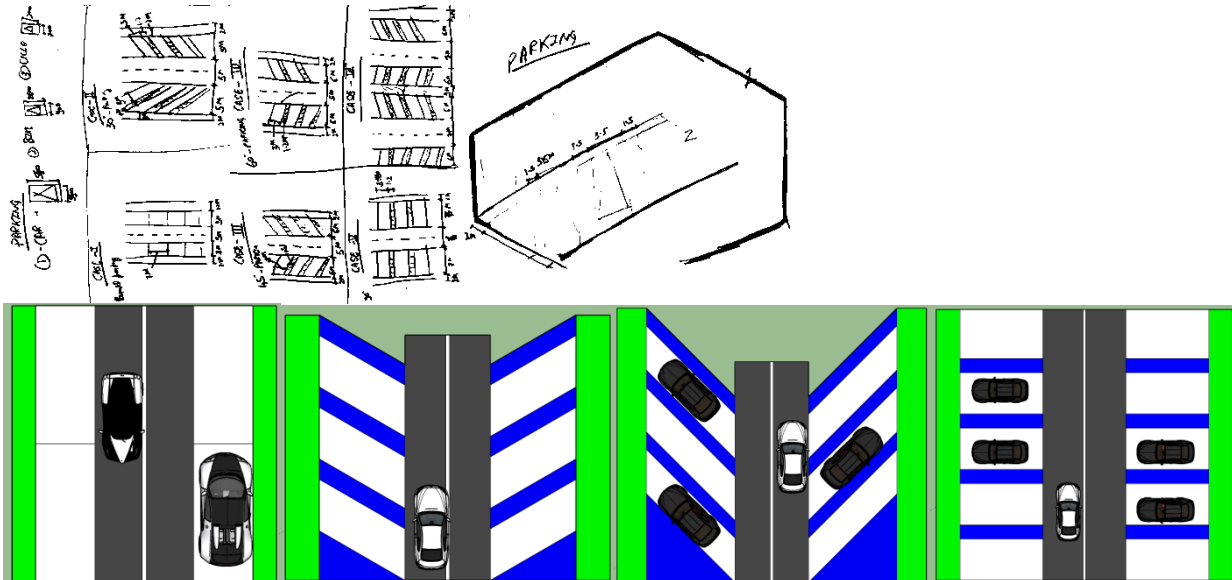
PASSAGE ACTIVITY WITH ELEMENTS AS PER THE DIS-ABLE PERSON.



From left to right.

1. Passage- 100mm+600mm+100mm+600mm+100mm = 1500mm
2. Passage- 100mm+600mm+100mm+800mm+100mm = 1700mm
3. Passage- 100mm+800mm+100mm+800mm+100mm = 1900mm
4. Passage- 100mm+600mm+100mm+800mm+100mm+600mm+100mm = 2400mm.
5. Passage- 100mm+600mm+100mm+800mm+100mm+800mm+100mm = 2600mm

As per discussion with dis-able person.

PARKING ACTIVITY WITH ELEMENTS AS PER THE DIS-ABLE PERSON.

3D Views of parking at 90 , 30 , 45, 60 and 90 .as per discussion with disable persons.

VI. CONCLUSION AND FUTURE WORK

While planning the technical educational campus for disable person first we should note the design components then those components further divided into area of activities and those area of activities should be access by both able and dis-able person.To make the design activities access we should make the design elements access as we succeed in making the elements access we accomplish Barrier- Free Design. In this I have examine 21 design components area,more than 100 area of activities and 1000 of elements but I have given the design solution of 7 – class room , toilet, staircase, kitchen, passage , parking and hostel room after discussion with the dis-able person and more to continue.

REFERENCES

- 1- DR. G. NARAYANA RAJU (*Secretary to the Govt. of India.*), The rights of persons with disabilities act- 2016 (NO. 49 OF 2016), Ministry of law and justice (Legislative Department)-GOVERNMENT OF INDIA - NEW DELHI, WEDNESDAY, DECEMBER 28, 2016/PAUSHA 07, 1938 (SAKA), 8-9, 13, 33-35, 2016.
- 2- Rajesh K. Kaushal, Naveen Bhatnager, Nidhi Anand, Handbook on barrier free and accessibility-2014, Directorate General-Central Public Works Department- 101 A - Nirman Bhawan, New Delhi-110001, {No.K12016/5/79/DDLA/VA/IB Vol.IX(Pt.)}, 7-11, 12-14, 20-24, 44-46, 2014.
- 3- The Chairmanship of CPWD, Guidelines and Space Standards for Barrier-Free Built Environment and Elderly Person-1998, Central Public Work Department- Ministry of Urban Affairs and Employment – India -1998, 6-11, 25, 33-34, 37-38, 40-43, 59, 62-64-1998
- 4- SVAYAM FOUNDATION & CBR NETWORK, Design Manual for a Barrier Free Environment in Universities/Colleges For All India Council for Technical Education (AICTE), All India Council for Technical Education (AICTE), 3-6, 10-12, 16-25.
- 5- Chakrabarty Neelima, A Thought for the Barrier Free Design for School Safety, <https://www.researchgate.net/publication/281774897>, 6-7, March 2014
- 6- Smt. Saumya Gupta, Shri Mohammed A Abid, Aseem Kumar Goel, Handbook of barrier free access to schools for children with disabilities (2017), Directorate of Education, Govt. of NCT of Delhi, 8-11, 22-23, 28-35, 41, 43, 2017
- 7- Christina Budnick, Ulrik Seward, Patrick Sweet, Access Design Standards - Advisory Committee on Accessibility, The City of Calgary committees -Advisory Committee on Accessibility Access Design Sub-Committee, , Accessible Housing Society, Cerebral Palsy Association in Alberta, Deaf & Hear Alberta, Canadian National Institute for the Blind (CNIB), 5-12, 23, 32-37, 2016.
- 8- Linnie Tse Alberta Municipal Affairs, Jillian Stafford Edit Group Inc, Barrier- Free Design Guide-2008, Graphos, 1-5, 11-15, 28-31 45-50, 60-61 -2008.
- 9- Anagha Mujumdar, Anand Patel, Arindam Mitra, Raajesh Moothan, Sweta Byahut, Yatin Pandya, Arindam Mitra, Raajesh Moothan, Raajesh Moothan, Yatin Pandya, Anagha Mujumdar, Anand Patel, Kahan Vyas, DESIGN MANUAL FOR A BARRIER- FREE BUILT ENVIRONMENT, UNNATI – Organisation for Development Education, Handicap International vol-2 , 14, 19, 24, 35, 36, 39, 40, 47-50, 55-57, 60-72, , November 2006

AUTHOR'S BIOGRAPHY



KALANKUR RAJ GUPTA

18. JUNE.1996

B.Arch – Ansal School of Architecture, Dr. A.P.J. Abdul Kalam Technical University, Lucknow -2019.

M.Arch (Pursuing) – Faculty Of Architecture and Planning, Dr. A.P.J. Abdul Kalam Technical University, Lucknow

WORKSHOPS -

- CONCEPT IN ARCHITECTURE - (AMIT , LUCKNOW- 2105)
- CLAY TOYS - (DAV COLLAGE ,KANPUR-2013)
- TERRACOTTA - (DAV COLLAGE ,KANPUR-2015)

SEMINAR-

POST PANDEMIC SMART CITIES – MYTHS and REALITIES – (Gautam Buddha University, Greater Noida.-2020)

FACULTY DEVELOPMENT PROGRAM-

EMERGING TRENDS IN ARCHITECTURE - (F.O.A.P. - Dr. A.P.J. Abdul Kalam Technical University, Lucknow-2020)

SPORTS –

Inter-school Basket-ball- 2008

Inter-school Swimming- 2008-2009