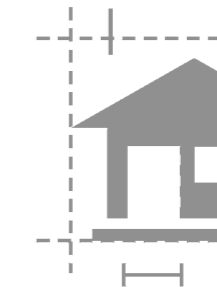


1

SCHOOL FOR VISUALLY IMPAIRED



NAME : AMRUTHA B K N
USN : 1AA15AT016



'Visual information is a dominating factor in one's life, suppressing other sensory factors in human' Visually impaired people lack visual perception of the world around them. The major communication for a visually challenged person is to navigate through the incomplete messages received through the other sensory mediator. The utopian vision is to create an ideal place, where nobody is handicapped, where there is a tie between the non-visual receptor and creating a passive and active bond with the world. A space that accessible by everyone and information in all sense is enhanced to facilitate people's perception and understanding of space



NAME:POOJA CHANDRASHEKHAR UGRANI
Professor
Education qualification: B. Arch. Degree from Sir JJ College of Architecture, Mumbai (2010) and M. Arch. Degree (Masters by Research) from Mumbai Univer-



VISHVESHWARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama” Belgaum-590018

ARCHITECTURE DESIGN PROJECT(THESIS) 2019-2020

“SCHOOL FOR VISUALLY IMPAIRED”

In Partial fulfillment of the requirements for the award of the degree

“Bachelor of Architecture”

Submitted by: B K N AMRUTHA

Guide: Prof. POOJA CHANDRASHEKAR UGRANI



ACHARYA'S NRV SCHOOL OF ARCHITECTURE
(AFFILIATED TO VTU, BELGAUM. ACCREDITED BY COA, AICTE, NEW DELHI)
Acharya Dr.Sarvepalli Radhakrishna Road Soladevanahalli, Bangalore -560090

CERTIFICATE

THIS IS TO CERTIFY THAT THE TOPIC ENTITLED “PROPOSED SCHOOL FOR VISUALLY IMPAIRED” WAS SUCCESSFULLY CARRIED OUT BY AMRUTHA B K N (USN: 1AA15AT016 BATCH 2015 – 2020) AT THE DEPARTMENT OF ARCHITECTURE, TOWARDS PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE COMPLETION OF ELECTIVE COURSE IN ARCHITECTURE BY THE BANGALORE UNIVERSITY, BANGALORE FOR ACADEMIC YEAR 2019-2020

THE CHAIRMAN
PROF.
DEPT. OF ARCHITECTURE

GUIDE
PROF.
DEPT. OF ARCHITECTURE

DATE:

DECLARATION

I HEREBY DECLARE THAT THIS THESIS ENTITLED “PROPOSED SCHOOL FOR VISUALLY IMPAIRED” WAS CARRIED OUT BY ME FOR BACHELOR’S OF ARCHITECTURE UNDER THE GUIDANCE AND SUPERVISION OF PROF. POOJA CHANDRASHEKAR UGRANI, ACHARYA N R V SCHOOL OF ARCHITECTURE(ANRVSA), VTU, INDIA. THE INTERPRETATIONS PUT FORTH ARE BASED ON MY READING AND UNDERSTANDING OF THE ORIGINAL TEXTS AND THEY ARE NOT PUBLISHED ANYWHERE IN THE FORM OF BOOKS, MONOGRAPHS OR ARTICLES. THE OTHER BOOKS, ARTICLES AND WEBSITES, WHICH I HAVE MADE USE OF ARE ACKNOWLEDGED AT THE RESPECTIVE PLACE IN THE TEXT.

PLACE: BANGALORE

DATE:
(MS.AMRUTHA B K N)

THESIS STUDENT

ACKNOWLEDGEMENT

THIS PROJECT. I SINCERELY AND PROFUSELY THANK PROF. POOJA CHANDRASHEKAR UGRANI FOR HER VALUABLE TIME, DEDICATION, ALL ROUND SUPPORT, CONSTANT PERSEVERANCE AND GUIDANCE THROUGHOUT MY WORK. I WOULD ALSO LIKE TO THANK THE DEAN OF THE DEPARTMENT OF ARCHITECTURE, ANRVSA, BANGALORE, ALL LECTURERS AND STAFF MEMBERS OF THE DEPARTMENT FOR THEIR SUPPORT AND GUIDANCE.

INDEX:

1. INTRODUCTION	3
2. RESEARCH	4
3. DEFINITION AND CLASSIFICATION OF VISSUALLY IMPAIRED	4
Vision Loss	5
LEGAL BLINDNESS	6
VISUAL IMPAIRMENT	6
TOTAL BLINDNESS	8
4. CHAPTER -2: UNDERSATNDING PHYSICAL BUILT PERCEPTION	8
SENSORY PERCEPTION:	8
HUMAN SENSE AND TANGABLE CONNECTION IN THE PAST:	9
CLASSIFICATION OF SENSES:	10
Based on the distribution of the receptor of human body, senses are categorized as:	10
SENSE AND ARCHITECTURE:	10
DOMINANCE OVER OTHER SENSES:	10
DESIGN FOR ALL THE SENSES:	11
FOR VISUALLY IMPAIRED:	11
EFFECTIVENESS OF SENSE:	11
1. TACTILE SENSE:	11
2. OLFATORY SENSE:	11
3. AUDITORY SENSE:	11
MOBILITY TRAINING:	12

MOVEMENT PATTERN:	12
REGULARITY AND TRANSITION:	13
PROPOTRTION IN VOLUME:	13
COLOUR, CONTRAST AND SHADOW:	13
MOBILITY TRAINING THROUGH ARCHITECTURE:	13
MOBILITY TRAINING THROUGH ARCHITECTURE:	13
EDUCATION:	14
SUSTAINABLE BUILDING	14
RIGHT OF PERSON WITH DISABLITY ACT, 2011	14
1. SPECIAL EDUCATION:	14
2. INCLUSIVE EDUCATION:	14
3. INTEGRATED EDUCATION:	14
INTREGATED EDUCATION MODEL:	15
MODEL 1: Semi special school	15
MODEL 2: Integrated model	15
MODEL 3: Resource centre model	15
CONCLUSION:	15
PROPOSAL:	15

CHAPTER -3: STUDY OF SIMILAR BILDING	16
LITRATURE STUDY:1	16
Background to building: 16	
SITE CONTEXT: 16	
Analysis:18	
COMPARATIVE ANALYSIS:	19
CIRCULATION 19	
QUALITY OF SPACES 20	
NATIONAL ASSOCIATION FOR THE BLIND- MUMBAI:21	
SITE SPECIFICATIONS 21	
CIRCULATION: 21	
MATERIAL OF CONSTRUCTION: 21	
Questionnaire22	
CASE STUDY-1	23
NATIONAL ASSOCIATION FOR THE BLIND- BANGALORE23	
CASE STUDY -2	24
ABOUT: 24	
Design analysis and Material:26	
CHAPTER- 4 -NEED/ SCOPE FOR THE PROJECT:	27
THE SYSTEM OF MODEL: 27	

CHAPTER- 5-DETAIL AREA PROGRAM:	28
CHAPTER- 6	30
SITE INFORMATION: 30	
SITE ANALYSIS:	31
LAND USE: 31	
MOVEMENT: 31	
INSTITUTIONAL: 32	
TERRAIN: 33	
CHAPTER- 7 BYELAW	
SIGHT DISABILITIES: Design requirements	35
PLACES TO INSTALL GUIDING BLOCKS FOR PERSONS WITH IM	
PAIRED VISION 36	
CHAPTER- 8 ZONING AND CONCEPT:	37
MATERIAL STUDY 38	
SENSORY TABLE: 40	
BIBLOGRAPHY:	42