

# INSTITUTE OF FINE ARTS THIRUCHIRAPALLI

*A THESIS*

Submitted in partial fulfillment of the requirements for  
the award of Bachelor of Architecture degree

By

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**DEPARTMENT OF ARCHITECTURE**  
**SCHOOL OF BUILDING AND ENVIRONMENT**

# **SATHYABAMA**

**INSTITUTE OF SCIENCE AND TECHNOLOGY**  
**(DEEMED TO BE UNIVERSITY) Accredited**

**With Grade "A" by NAAC**

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**CHENNAI - 600 119**

**NOVEMBER 2021**



**DEPARTMENT OF ARCHITECTURE**

**BONAFIDE CERTIFICATE**

This is to certify that this Thesis Report is the bonafide work of M. SINDHUJA 37210036 who carried out the Thesis entitled "INSTITUTE OF FINE ARTS THIRUCHIRAPALLI" under our supervision from July 2021 to November 2021.

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A handwritten signature in black ink, appearing to read 'Devyani', is written over the printed name of the Dean.

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Submitted for Viva voce Examination held on

8/12/2021

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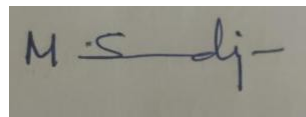
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## **DECLARATION**

I, M. SINDHUJA hereby declare that the Thesis Report entitled “INSTITUTE OF FINE ARTS THIRUCHIRAPALLI” done by me under the guidance of Ar. Divya (Internal Guide), Ar. Ram Kumar (Internal Review Member) and Ar Biswajith Paul (External Guide) Sathyabama Institute of Science and Technology is submitted in partial fulfilment of the requirements for the award of Bachelor of Architecture Degree.

**DATE: 6.12.2021**

**PLACE: Chennai**

A rectangular box containing a handwritten signature in black ink. The signature appears to be 'M. Sindhuja' written in a cursive style.

**SIGNATURE OF THE CANDIDATE**

## **ACKNOWLEDGEMENT**

I am pleased to acknowledge my sincere thanks to Board of Management of **Sathyabama Institute of Science and Technology** for their kind encouragement in doing this Thesis and for completing it successfully. I am grateful to them.

I convey my thanks to **Dr. Devyani Gangopadhyay**, Dean and Head of the Department, School of Building and Environment, Our Design Chair **Dr. Suresh Kuppuswamy**, Thesis Coordinator **Ar. Surya Raj Kumar** for providing me necessary support and details at the right time during the progressive reviews.

I would like to express my sincere and deep sense of gratitude to my Thesis Internal guide Ar. Divya, Internal Review member Ar. Ram Kumar and External Guide Ar BiswajithPaul their guidance, suggestions and constant encouragement which paved the way for the successful completion of my Thesis work.

I wish to express my thanks to all Teaching and Non-teaching staff members of the **Department of Architecture** who were helpful in many ways for the completion of the Thesis.

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## 1 INTRODUCTION

### 1.1 INTRODUCTION

A fine art is a fine collection of art that is done to create beautiful things.

The term “*Fine Art*” refers to an art form developed primarily for its aesthetic value and its beauty.

***“Fine Arts is the study & making of visual works of art. It can be in the form of dancing, paintings, photography, film, architecture, etc.”***

It teaches and prepares students to become artists and to follow other practices that are associated with the making of art.

The fine arts are a categorized to five:

- Literature
- Drama
- Painting

- Sculpture
- Music

Applied arts is concentration of visual arts that includes advertising, commercial Design, photography, fashion design, graphic design, illustration and drawing.

BFA or bachelor of fine arts is an undergraduate degree course which deals with the study of visual or performing arts.

The course is sometimes also referring to BVA bachelor of visual arts in which includes subjects such as paintings, sculpture, photography, literature, animation.

The study of performing arts includes subjects like dance theatre and music. A bachelor of fine arts requires an area of specialization to be choose by the candidate as per their interest. It is total 3 - 4 years course.

## **1.2 NEED OF THE PROJECT**

- Community of Learners
- Transparent body of knowledge
- Environment for maximum creativity
- Understanding the design process and role of architecture in the design of a fine art institute and also studying and experiencing the working of the institute.
- Interactivity approach towards architecture

## **1.3 AIM**

Design an interactive institute with intelligent built and outdoor environment that will stand as a land mark reference. To frame the program emphasizing the area of concern in order to achieve green building standards.

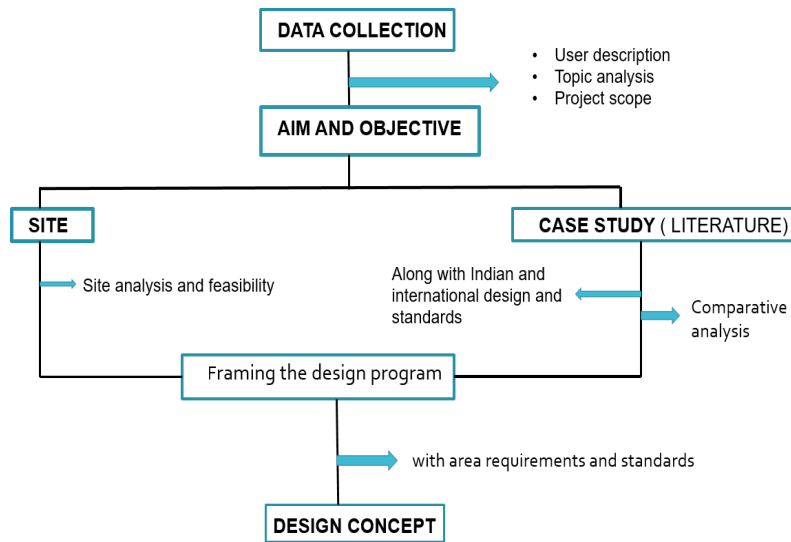
## **1.4 OBJECTIVES**

- Understanding the ideology of the institute and translating it into the built form.
- Analyzing the site with climate responsive method.
- Integrating infrastructure with the building program.
- Following the interactive campus aspects.



- Studying the Green building standards.

## 1.5 METHODOLOGY



## 2 LITERATURE CASE STUDIES

### 2.1 GOA COLLEGE OF FINE ARTS

- ❑ ARCHITECT: SARTO ALMEDA
  - ❑ LOCATION: Altinho, Panjim, Goa.
  - ❑ AREA: 3 Acre.
  - ❑ CLIMATE: Warm and Humid
  - ❑ TYPE: Institutional
  - ❑ VEGETATION: teak, Sal, cashew, mango
- TOPOGRAPHY: coastal region and Arabian Sea in the West

### **WHY THIS COLLEGE**

- ❑ This college has a history of over four decades in imparting fine art education to aspiring young minds in this beautiful state of goa.
- ❑ This is the only fine arts college in the state.

### **LIGHT AND VENTILATION**

- ❑ Most of the places are lit with natural light by using north light.
- ❑ Only the rooms like dark room and library are provided with artificial light.
- ❑ A.c. is used only in conference room and computer room (digital area).

Applied arts involve a variety of artistic fields, such as photography, audio-visual art, digital art and illustration.

### **AREA REQUIREMENTS**

4 Studios with dark rooms = 600 sq. m. In-charge's cabin = 50 sq. m. Indoor shooting hall = 150 sq. m.  
Total area = 800 sq. m.

### **THE LIBRARY CONSIST OF FOLLOWING AREAS –**

- LIBRARIAN'S SECTION
- READING AREA
- ART GALLERY
- PRIVATE READING SECTIONS LIBRARY
  
- Courtyards are creating good circulation space and space for recreational activities.
- Courtyards are blended with landscape elements and decorated with various works of students.

### **ADMINISTRATION AREA CONSIST OF FOLLOWING SECTIONS**

- Principal's cabin
- Conference room
- Reception area

- Pantry

**AREA OF STRUCTURE CAN SEE HARMONY THROUGH FRAMES USED FOR ANNUAL FUNCTIONS LIKE “KALA UTSAV” USED BY STUDENTS FOR OUTDOOR SKETCHING ALSO**

**□ OTHER SPACE**



**FIG 2.1 PICTURE OF OTER SPACES**

**□ FURNITURE DETAILS**



**FIG 2.2 FURNITURE DETAIL**

## 2.2 FINE ARTS JAMIA DELHI

JMI was established in 1951

Foundation was laid by Mr. Abdul Kalam Azaad. Comprises the following departments.

- Painting
- Sculpture
- Applied art
- Art education
- Graphic art
- Art history & appreciation

### ACCESSIBILITY

- Approachable from Maulana Mohammad Ali Jauhar Marg.
- Landmarks- Jamia School, Doctor Zakir Husain Memorial & Museum.
- Nearest Bust Stop- JMI, 300m
- Nearest Airport- Indira Gandhi International Airport (25 kms).
- Nearest Railway Station- Nizamuddin Railway Station (16 kms)

1st Year Area- 13m x 6m

Good Cross Ventilation with Natural Lighting that is Sufficient in Day time.

Seating Arrangement- Fixed Furniture Drawing boards.

Flooring- Terrazzo

Electrical outlets present at the corner of the

class.

Display boards present all around the class



**FIG 2.3 FIRST YEAR CLASS ROOMS PLAN**

2nd year Area- 13m x 6m Good Cross

Ventilation. Natural Lighting is Sufficient in

Day time.

Seating Arrangement- Fixed Flooring- Terrazzo Electrical outlets present at the corner of the class.

Lockers not available. Display boards present all around the class.

### **DEPARTMENT OF APPLIED ART**

Natural Lighting is Sufficient in Day time.

- Display boards were present
- Individual storage were present.
- Services like fire extinguishers were present.

## FACULTY OF FINE ARTS & ART EDUCATION

### Ground Floor

- I. Dean's Office
- II. BFA 1st Year
- III. Courtyard
- IV. BFA 3rd Year
- V. Library

### First Floor

- I. BFA painting 3rd Year
- II. MFA Painting Previous
- III. MFA Painting
- IV. BFA painting 2nd year

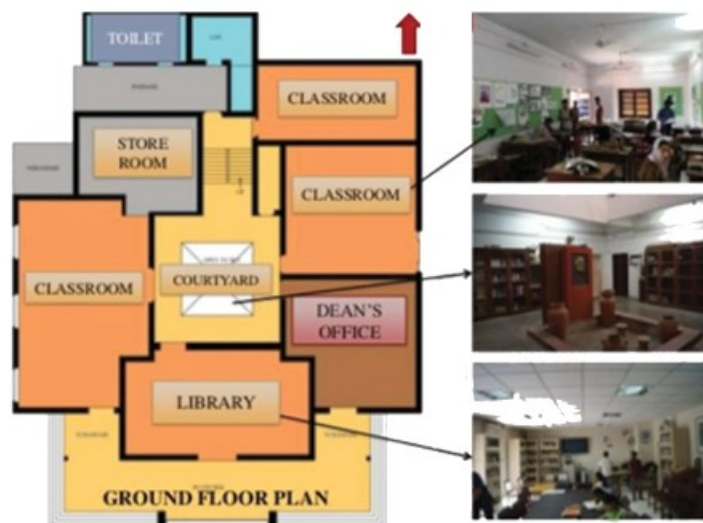


FIG 2.4 GROUND FLOOR PLAN

## First Floor

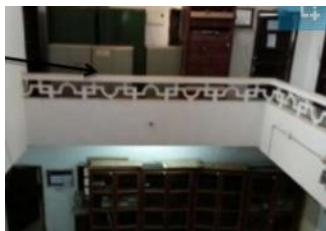


**FIG 2.5 FIRST FLOOR PLAN**

## Courtyard

- I. Covered from top with asbestos sheets
- II. Shelves are being placed on the inner side of the courtyard.
- III. Expose wirings.

Flooring Terrazzo & PCC is used.



**FIG 2.6 COURTYARD**

## **FACULTY OF FINE ARTS & ART EDUCATION**

### **BFA painting 1st year**

- I. 8mx5m
- II. 20 students
- III. Display boards attached to the walls.
- IV. Lockers available.
- V. Flooring- P.C.C
- VI. Less source for natural lighting.
- VII. Size of the working table- 900x500x800mm



**FIG 2.7 CLASS ROOM**

### **BFA 2nd YEAR**

- I. Area-10mx6m
- II. Class of 20 students
- III. Display boards available on walls.
- IV. Work largely based on Canvas
- V. Provision for drying canvas & storing.



VI. Good source of ventilation & natural light through large windows.

VII. Lockers available.

VIII. Furniture- Donkey chair

IX. No Sink Available.

X. No provision for drainage.

XI. No cloak room available



**FIG 2.8 CLASS ROOM WITH FURNITURE**

### **MFA Painting**

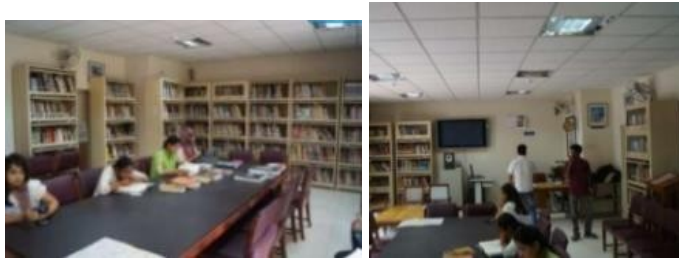
- Studio Size- 10mx6m
- Flooring- P.C.C
- Display Boards Available
- Lockers available.
- Random placement of furniture's
- No sink provided within the Studio.
- No provision for drying the canvas.



**FIG 2.9 PAINTING ROOM**

## **LIBRARY**

- Seating capacity-25 students
- Flooring- Tiles
- Roofing- False ceiling
- The library has an area of about 50-meter square.
- It has a collection of books on applied art, art education, history, etc.
- The other door of the library opens into the central courtyard



**FIG 2.10 LIBRARY**

## **NEW BLOCK Art history & Art appreciation Art education**

1. Ground Floor
2. I. Ladies Washroom
3. II. 2 Theory Classes
4. III. Department of History & art History
5. IV. Gents Washroom
6. V. Office Graphic Art
7. VI. BFA Painting 4th year
8. VII. MFA Graphic

### **Art First Floor**

I. MFA art history & art appreciation

II. Office dept. of applied art

III. Office dept. of art education

IV. MFA applied

art Studio-01

15x8m Studio-02

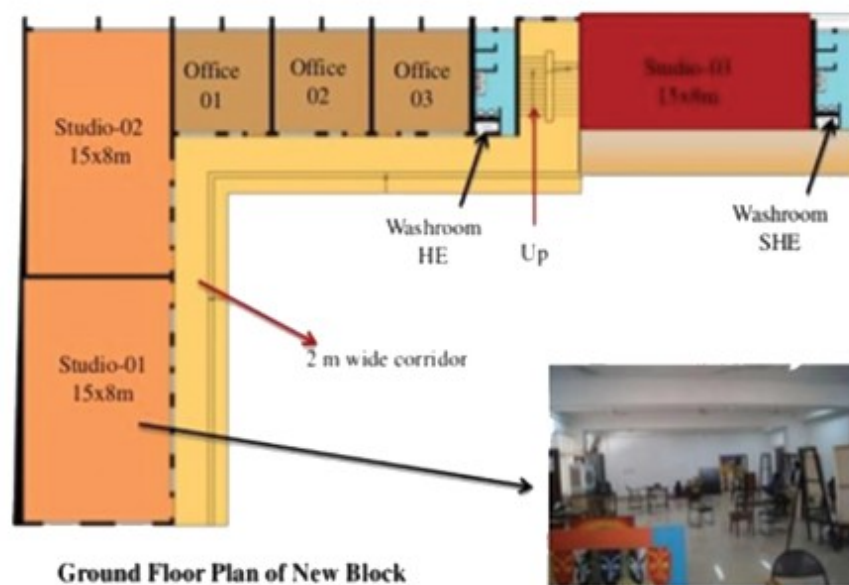
15x8m

\_First Floor Plan of New

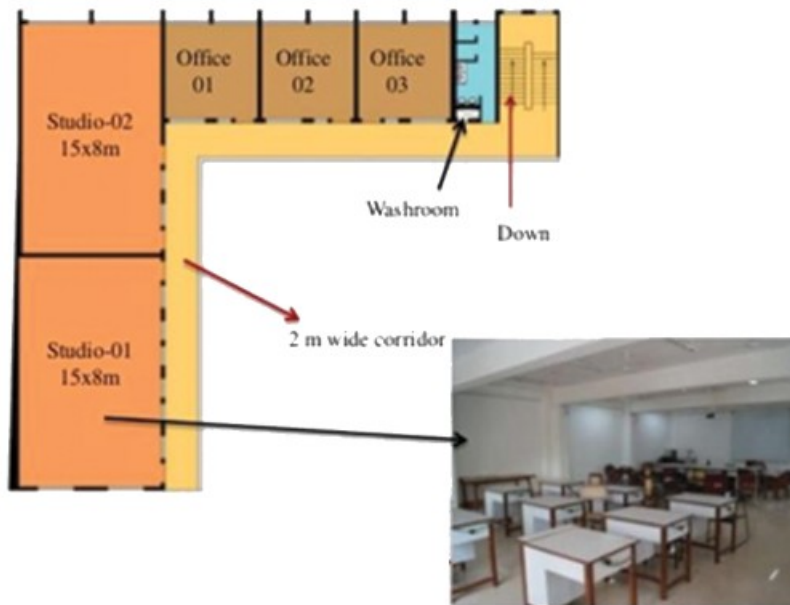
Block Studio-01 15x8m

Studio-02 15x8m

Washroom Down 2 m wide corridor



**FIG 2.11 GROUND FLOOR PLAN OF NEW BLOCK**



**FIG 2.12 FIRST FLOOR PLAN OF NEW BLOCK**

- Width of Gallery- 2m
- Theory Classes- 10mx6m
- Art studio Sizes- 15x8m
- No of windows towards gallery- in each class.
- Total no of windows in each class- 06
- Flooring- Marble and Floor Tile. Painting Studio
- Rectangular-15x8m
- Students- 12-15
- Total no of windows- 06
- Total no of doors- 02 (Double doors)
- Seating Arrangement- Random
- Flooring- Tile
- Lockers provided
- No separate area provided for storing Different types of Flammable Oil.
- Sink not Available.

- No mechanized Ventilation available.
- Cross ventilation through Windows only.
- Natural lighting is Sufficient in day time. • Changing area or cloak Room not available.
- Proper storage for Canvas not available.
- No Drainage Available inside the Studio

### **Studio for Graphic Art**

- Size- 15mx8m
- No of Students- 10
- Windows-06
- 02 Double Doors
- Flooring- Tile
- Random placement of graphic printing machines.
- Movable Furniture's
- No Storage available.
- No Cloak room
- Natural Light is sufficient in daytime.
- Cross ventilation is good.

### **Electrical outlets available at the 4 corners of the Studio. Audio Visual Applied Arts Studio**

- Rectangular - 15x8m
- No of Students-12-15
- No of windows- 06
- Double doors- 02
- Flooring- Tile
- Projector and Audio System Available.
  - Projector Screen placed on the wall with no window on it, thus in day time direct sunlight strikes.
- Movable Furniture.
- Working Table size- 900x500x800mm

## **Washroom**

Contains

I. Cubicals-02

II. Washbasin-02

- Gents Washroom available on the Ground & First floor
- Ladies Washroom only on the Ground Floor.
- No Provision for handicapped person.

## **SERVICES**

RAMP for accessing Ground floor only. No provision other than stair case available for 1st floor. MCB and Electric meter beneath the Staircase.

## **DEPARTMENT OF SCULPTURE CLAY & MUD STORAGE**

- Clay & Mud Storage Area have been provided.
- 3x3m pits are made to store Mud & Clay.
- Pits are adjacent to studios & Workshop.



**FIG 2.13 MATERIAL STORAGE FOR SCULPTURE**

## **METAL SCULPTURE & WAX SCULPTURE**

- Flooring- Concrete finished
- Roofing-Trussed
- Area- 10mx 6m
- Electrical outlets- 3-4 outlets & Extensions Available

- Storage- Side Cabinets provided
- Seating Arrangement- Random
- Metal & Wax Sculpture have same studio.



**FIG 2.14 WAX AND METAL SCUPTURING**

### **WOODEN SCULPTURE**

- Flooring- P.C.C
- Semi-open Area, covered with trussed roof.
- Area- 10mx 6m
- Electrical outlets- 3-4 outlets
- No proper storage available for tools and wood blocks.
- No separate area provided for wooden sculpture, it is merged with the clay sculpture.



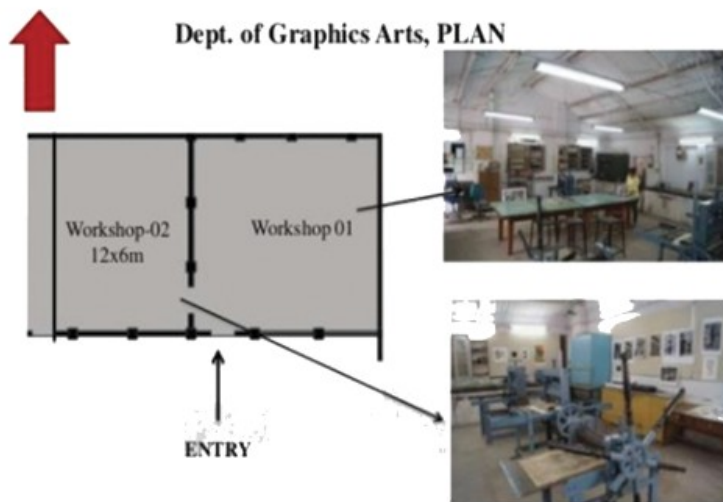
**FIG 2.15 WOOD CRAVING SECTION**

## DEPARTMENT OF GRAPHIC ARTS

- Rectangular Workshop of 12x6m
- Total no of windows present-02
- Flooring- P.C.C
- Studio Contains-
  - I. Print Machines
  - II. Storage for Printing Paper
  - III. Storage for Printing ink
  - IV. . A large worktable for drying & Working.
- Artificial Lighting is used in Daytime.
- No Cloak room available.

As the Structure of Graphic department is Covered with asbestos Sheets & is Temporary built, they have Conserve the trees.

Truss Roofing is done, which is further covered with asbestos sheets.



**FIG 2.16 FLOOR PLAN FOR GRAPHIC ART**



## **STUDIO WORKSHOP**

- Printing machines are placed in workshop.
  - Display boards & Space for drying the Prints is available.
  - Roofing- Trussed with asbestos sheets.
  - Sink is place at the Corner of the workshop.
- 
- No use of combustible flooring.
  - Proper storage for printing paper & Ink.
  - Sink available in workshop.
  - Good cross ventilation & Source of Natural Lighting.

## **OPEN AIR THEATRE**

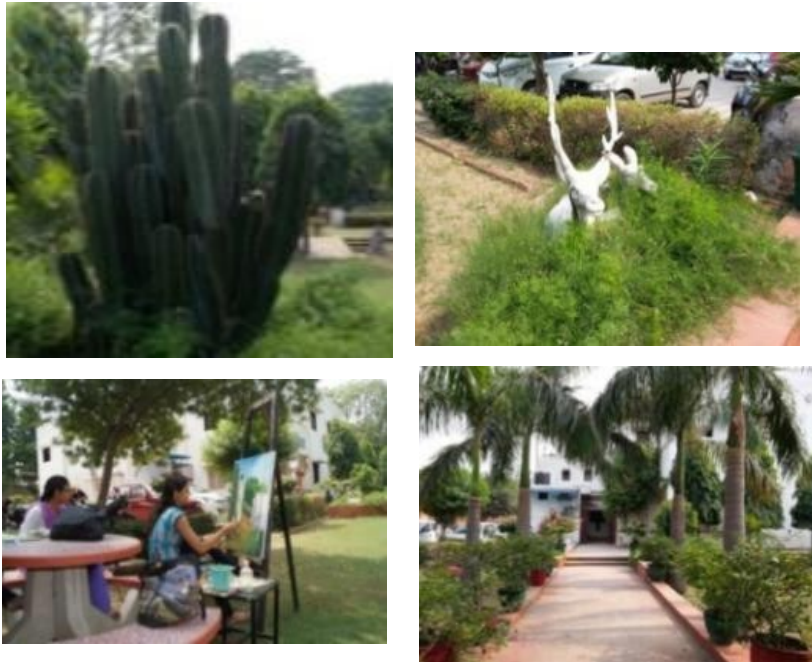
OAT has a capacity of about 150 students.

A stage area is being provided, which is trussed & covered with asbestos sheets.

O.A.T is in poor condition & not maintained regularly, therefore it is not in use.

## OPEN SPACES

- Lot of greenery & open Space gives a peaceful atmosphere, which allow students to interact with nature.
- Sculptures in those areas add to its beauty.
- Paved Paths & Roads surrounded with Trees & Shrubs adds beauty to the Area.
- Open Spaces were well maintained.
- Various Sculptures Were Placed all along the site.
- Seating space been provided at various places.






**FIG 2.17 OPEN SPACE**

**Canteen**

- It is located in the open space just after the studio block.
- It has a lot of open seating too.
- Seating Space around canteen Musical chandeliers hanging from the tree, shading the canteen area.



**FIG 2.18 CANTEEN SPACE**

FACULTY OF FINE ART, MUSIC AND DESIGN OF THE UNIVERSITY OF BERGEN	EUGENIUSZ GEPPERT ACADEMY OF ART AND DESIGN	MIT SCHOOL OF FINE ARTS AND APPLIED ARTS
<p><b>Architect : SNDHETTA</b>  <b>Area: 1400 sq. m</b>  <b>Location: Bethany Norway</b>  <b>Self land mark structure</b></p>  <p>The building is organizing along two axes, one internally - to students and faculty and one externally - open to the public space where one of the most prominent and dominant feature of the building.</p> <p>Materials use for external facade that is raw aluminum makes it stand out from rest of the fine arts institute. Contour are well design and used appropriate intake ok light in the institute with great building form and shape handling the circulation space.</p>	<p><b>Architect : Tomaisz glowack</b>  <b>Area: 13060 sq. m</b>  <b>Location: Wroclaw, Poland</b></p>  <p>The way architect inculcated the historic building with his planning and form is the best part to learn considering the design requirement.</p> <p>Creating space for artists and art was the main issue of this design. The solution is an open and accessible yet still practical space .</p> <p>Transparency of the building is the key solution for creating space for design process, art exhibition and contact with urban .</p>	<p><b>Founder : Dr viswhanath karad</b>  <b>Area: 1250 sq. m</b>  <b>Location : Loni kalbhori</b></p>  <p>According to research and observation the total intake ok MIT for fine arts was 90 and applied arts was 30 so in total 120 students per batch.</p> <p>It was noticed that the fine arts and applied arts studio and their subject department were divided in different building . Fine arts and applied arts spaces and studio were not pre planned accordingly.</p>

**TABLE 2.1 CASE STUDY OVERVIEW**

**COURSE OVERVIEW**

Course Name	BFA
Full-Form	Bachelor of Fine Arts
Course Level	Undergraduate
Course Duration	3-4 Years
Popular Specialisations	Painting, Acting, Applied Arts, Animation, Pottery & Ceramics, Digital Arts, Fashion Design, Textile Design etc.
Course Mode	Full-time, Part-time & Distance Mode
Average Course Fees (Annual)	INR 30,000 to INR 3,00,000
Minimum Qualification Required	12th pass or its equivalent qualification
Selection Process	Merit or Entrance-Exam Based
Course Stream	Design
Job Profiles	Textile Designer, Fashion Designer, Fashion Stylist, Visual Merchandiser, Photographer, Fine Artist, Cartoonist etc.
Average Salary (Annual)	INR 2,50,000 to INR 10,00,000

## TABLE 2.2 COURSE OVERVIEW

### 4. SITE STUDY AND ANALYSIS

#### 4.1 WHY TIRUCHIRAPPALLI ?

Tiruchirappalli is one of the **oldest inhabited** cities in India. The City has mentioned in **Sangam Literature**. The city is credited with being the **best livable city and the cleanest city of Tamil Nadu**. It is the fourth largest **city** as well as the fourth largest **urban agglomeration** in the state. Located 322 kilometers south of Chennai and 374 kilometers north of Kanyakumari, Tiruchirappalli almost at the **geographic center** of the state. The city is an important educational center in the state of Tamil Nadu.

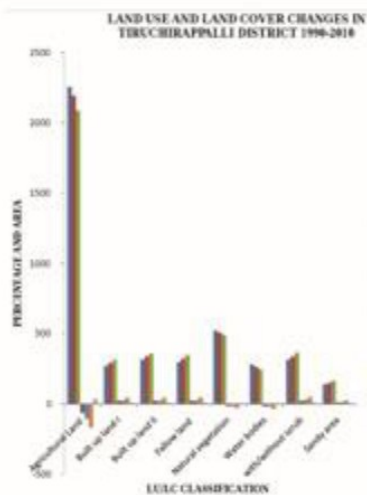
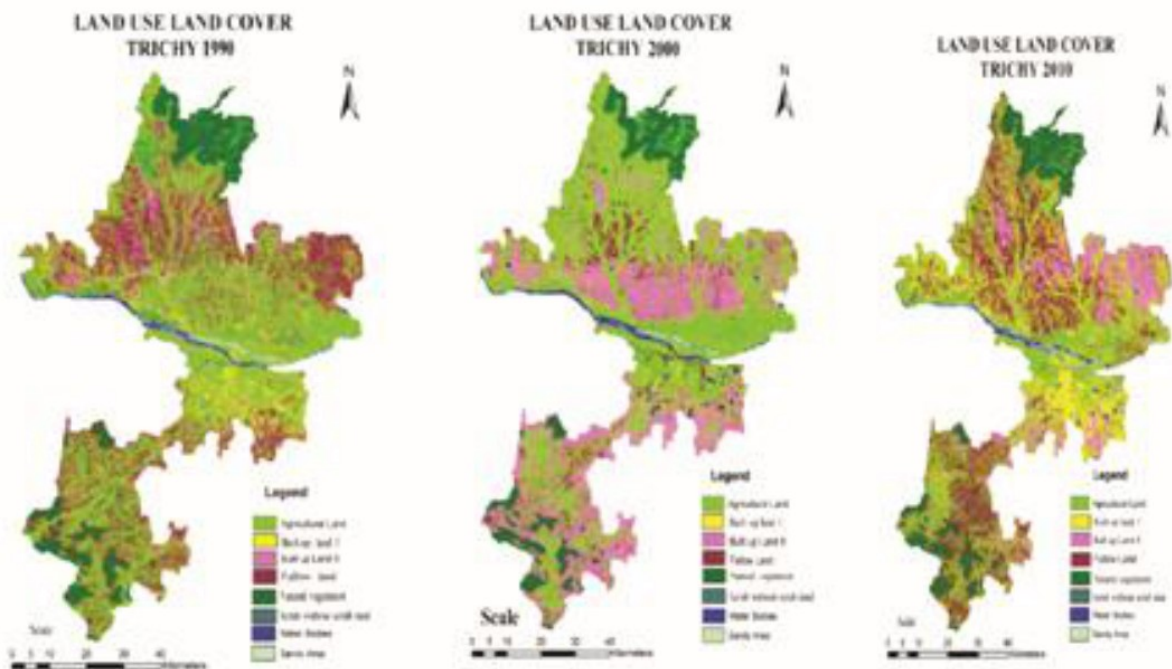


This city is one of the **most cheapest** city to live. Cost of living is comparatively very low.

This city Transportation, which is very frequent & cheap when compared to all other cities in India. There are many Deluxe buses or no lackof buses even at the night time.

The current metro area population of Tiruchirappalli in,  
2021 - 1,182,000, **1.46% increase from 2020**.  
2020 - 1,165,000, **1.39% increase from 2019**.  
2019 - 1,149,000, **1.32% increase from 2018**.  
2018 - 1,134,000, **1.43% increase from 2017**.





**TABLE 1: LAND USE LAND COVER CHANGES IN TRICHIRAPPALLI DISTRICT**

Land Use classification	1990 Area (in sq.km)	2000 Area (in sq.km)	2010 Area (in sq.km)	1990-2000	2000-2010	1990-2010	% change
Agricultural Land	227.31	220.57	208.43	8.74	18.88	36.62	17.34
Built up land I	7.18	30.11	111.13	22.93	81.02	103.95	14.46
Built up land II	11.88	17.31	33.37	21.43	16.06	47.49	3.94
Fallow land	283.22	311.34	368.81	28.12	57.47	85.69	30.17
Forest vegetation	522.83	516.81	492.11	8.02	24.72	32.74	6.24
Grass culture with soil	20.31	21.04	22.01	0.73	1.00	1.73	8.54
Water bodies	116.74	118.28	119.32	1.54	1.04	2.58	2.23
Barren Area	110.21	111.07	110.21	0.86	0.00	0.86	0.78
Total	1491.12	1491.12	1491.12	-	-	-	100

## Transport

The most commonly used modes of local transport in Tiruchirappalli are the state government-owned **Tamil Nadu State Transport Corporation (TNSTC) buses**, and auto rickshaws. Tiruchirappalli forms a part of the Kumbakonam division of the TNSTC. The city has two major bus termini; **Chatram Bus Stand and Central Bus Stand**, both of which operate intercity services and local transport to suburban areas.



Passenger trains also carry a significant number of from nearby towns. Tiruchirappalli Junction is one of the busiest in India.

Tiruchirappalli has rail connectivity with most impor cities and towns in India.

Other railway stations in the city include **Tiruchirappalli Town, Srirangam, Tiruchirappalli Palakkarai and Golden Rock (Ponmalai)**.



## LOCATION

Tiruchirappalli is **one of the oldest inhabited cities** in India. The city is credited with being the best livable city and the cleanest city of Tamil Nadu also Tiruchirappalli sits almost at the **geographic centre** of the state.



Trichy-Tajore road , Thuvakudi, next to thuvakudi municipality office, Tiruchirappalli, Tamil nadu.

**SITE AREA = 110700 Sq.m**  
**25 acres (approx)**

## NEIGHBORHOOD CONTEXT

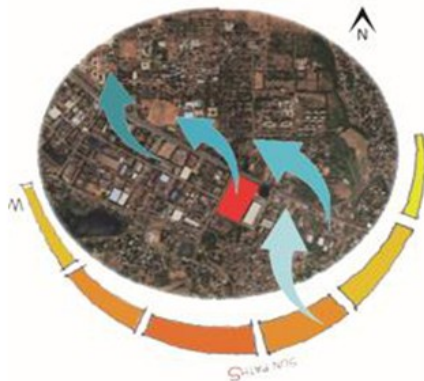
The site is in the **traffic free zone** in Thuvakudi, Trichy-Tanjore road. It is surrounded by many **government buildings, educational institute, hospital , residence and holistic buildings**. This site has Basic amminities required by the users. Also the futuristic plan

## 4.2 SITE JUSTIFICATION

### SITE SELECTION CRITERIA

- The site located in an **Institutional zone**. Also the site is considered as mixed use land.
- As the site is in **close proximity** to all basic facilities required for institute like **Transportation, connectivity, traffic free zone, health care**. Hence providing an fine arts institute is an opportunity to obtain students.
- As the site is located **opposite to NIT trichy** gives an opportunity of recognition of the site.
- Also the site has **government buildings** ( municipality office ) on rear side of the site gives an opportunity of **well maintained service and safety**.
- Also this site helps in zoning the difference segments according to **site Context, neighborhood and climate factors**.
- The site has **good vegetation** that helps in designing a good green space.

## 4.3 SITE ANALYSIS



### Climate Analysis

#### CLIMATE

Thuvakudi, trichy has **tropical climate** under koppen classification, it is classified as a **tropical wet and dry climate**.

#### HUMIDITY

Trichy experience moderate humidity. **Relative humidity ranges from 60% to 70%**. During **monsoon it raises to 80%**. Moderate humidity give proper evaporation and comfortableness

#### WIND DIRECTION

The prevailing wind dominates from the **north west** direction.

#### PRECIPITATION

The difference in precipitation between the driest month and the wettest month is 170 mm | 7 inch. The variation in temperatures throughout the year is **7.1 °C | 12.8 °F**.

	January	February	March	April	May	June	July	August	September	October	November	December
Avg Temperature °C (°F)	24.9° (76.8°)	26.4° (79.5°)	28.2° (82.8°)	30.1° (86.2°)	32.1° (89.8°)	34.2° (93.6°)	36.4° (97.5°)	38.7° (101.7°)	41.1° (106°)	43.6° (110.5°)	46.2° (115.2°)	48.9° (118°)
Min Temperature °C (°F)	18.7° (65.7°)	19.9° (67.8°)	21.2° (70.2°)	22.7° (72.9°)	24.3° (75.7°)	26.1° (79°)	28.1° (82.6°)	30.2° (86.4°)	32.4° (90.3°)	34.7° (94.5°)	37.1° (98.8°)	39.6° (103.3°)
Max Temperature °C (°F)	31.1° (88°)	32.9° (91.2°)	34.8° (94.6°)	36.9° (98.4°)	39.1° (102.4°)	41.5° (106.7°)	44.1° (111.4°)	46.8° (116.2°)	49.6° (121.3°)	52.5° (126.5°)	55.5° (131.9°)	58.6° (137.5°)
Precipitation (inches)	16	12	20	40	67	86	42	37	16	10	10	74
mm (in)	250	180	300	1000	1700	2100	1000	900	400	250	250	1800
Humidity (%)	67%	68%	64%	66%	68%	69%	67%	66%	67%	70%	70%	72%
Rainy Day (D)	3	2	2	3	4	7	7	6	16	14	10	8
avg. Rain (mm)	7.1	6.1	6.1	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4



## LANDFORM

The site has **flat terrain** with almost no variation in topography.

## NOISE

The major source of noise is from the highway yet the **noise level is minimum and comfortable for institutional buildings.**

## SOIL TYPE

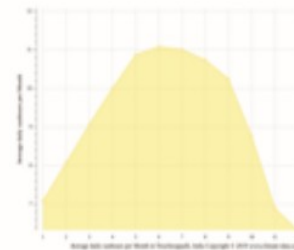
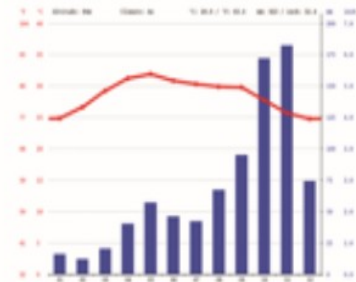
The site is predominantly found with **Alluvial and Red loamy soil** which has bearing capacity of **80-160 KN/m<sup>2</sup>**

## FOUNDATION

**Strip footings** upto 1 m wide or **rafts.**

## VIEWS AND VISTA

As the site is surrounded with low raised structure of 3m - 6m high so after **reaching elevation about 3 m high one could see the view around the site.**



## 5. ARCHITECTURAL DESIGN

### 5.1 SPATIAL REQUIREMENTS

#### Admin block

1. Reception
2. Waiting lounge
3. Directors room
4. Vip lounge
5. Conference hall
6. Staff rooms
7. Cctv n security room
8. Board room
9. Career counseling room
10. Staff canteen n dining
11. Toilets
12. Accounts room

#### Department of applied arts

1. Class room
2. studio
3. Faculty room
4. HOD room
5. File store room
6. Display station
7. Store room
8. Toilets
9. Courtyard
10. Painting store area
11. Wash area

#### Department of sculpture

1. Class room
2. studio
3. Faculty room
4. HOD room
5. File store room
6. Materials room
7. Courtyard
8. Display station
9. Workshop area
10. Wash area
11. Toilets

#### Department of textile design

1. Class room
2. studio
3. Demonstration room
4. Handloom studio
5. Display station
6. Store room
7. Toilets
8. Computer lab
9. Tailoring and ironing room
10. Material room
11. Faculty room
12. HOD room

#### Department of graphic art

1. Classroom/studio
2. Printing lab
3. Display station
4. Computer lab
5. Workshop area
6. VR/ testing lab
7. File store room
8. Data feeding room
9. Faculty room
10. HOD room
11. Toilets

#### O.A.T

1. Stage
  2. Green room
  3. Toilets
  4. Audio visual room
  5. Media
- Library
1. Librarian room
  2. Store room
  3. Toilets
  4. Xerox area
  5. Learning centre

#### Activity centre

1. Learning space
  2. Toilets
  3. Store room
- Open garden
1. Seating with Wi-Fi spot
  2. Sculptures
- Gallery
1. Display space
  2. Toilets
  3. Stalls
  4. Stage
  5. Media room
  6. Store room

#### Canteen

##### Student canteen

1. Dinning space
2. Wash area
3. Kitchen
4. Store room

##### Visitors canteen

1. Dinning area
2. Wash area
3. Kitchen
4. Store room

#### Hostel

1. Parents lounge
2. Register space
3. Warden room with toilet
4. Guest rooms
5. Double share with toilets
6. Six shares with common toilets
7. Dining hall
8. Kitchen
9. Store room
10. Janitors room
11. Laundry room

#### Service building

#### Parking

A fine art is a fine collection of art that is done to create beautiful things.

The term "Fine Art" refers to an art form developed primarily for its aesthetic value and its beauty.

"Fine Arts is the study & making of visual works of art. It can be in the form of dancing, paintings, photography, film etc." It teaches and prepares students to become artists and to follow other practices that are associated with the making of art.



The fine arts is a categorized to five :

- Literature
- Drama
- Painting
- Sculpture
- Music

Applied arts is concentration of visual arts that includes advertising, commercial Design, photography, fashion design, graphic design, illustration and drawing .

#### COURSE DETAILS

- BFA or bachelor of fine arts is an undergraduate degree course which deals with the study of visual or performing arts.
- The course is sometimes also refer to BVA bachelor of visual arts in which includes subjects such as paintings, sculpture, photography, literature, animation.
- The study of performing arts includes subjects like dance theatre and music. A bachelor of fine arts requires an area of specialization to be choose by the candidate as per their interest. It is total 3 years course.

#### AIM

Design an interactive institute with intelligent built and outdoor environment that will stand as a landmark reference. To frame the program emphasizing the area of concern in order to achieve green building standards.



#### SCOPE OF THE PROJECT

- Community of Learners
- Transparent body of knowledge
- Environment for maximum creativity
- Understanding the design process and role of architecture in the design of a fine art institute and also studying and experiencing the working of the institute.
- Interactivity approach towards architecture

#### COURSE OFFERED

- OBJECTIVES
- Understanding the ideology of the institute and translating it into the built form.
- Analysing the site with climate responsive method.
- Integrating infrastructure with the building program.
- Following the interactive campus aspects.



SCULPTURE

APPLIED ARTS

TEXTILE DESIGN

GRAPHIC DESIGN

M.SINDHUJA | 37210036

THESIS 2017-2022

## INSTITUTE OF FINE ARTS TIRUCHIRAPALLI

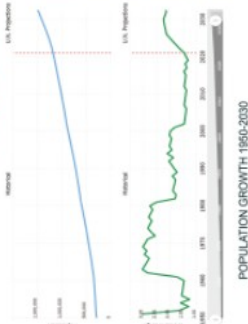
FIG 4.1 PRESENTATION SHEET 1

**WHY TIRUCHIRAPPALLI ?**

Tiruchirappalli is one of the **oldest inhabited** cities in India. The City has mentioned in **Sangam Literature**. The city is credited with being the **best livable city** and the **cleanest city of Tamil Nadu**. It is the fourth largest city as well as the fourth largest **urban agglomeration** in the state. Located 322 kilometers south of Chennai and 374 kilometers north of Kanyakumari, Tiruchirappalli almost at the **geographic center** of the state. The city is an important educational center in the state of Tamil Nadu.

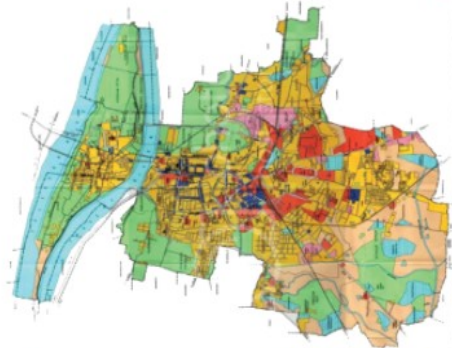


The city occupies an area of **167.23 square kilometers** and had a population of **1182000**



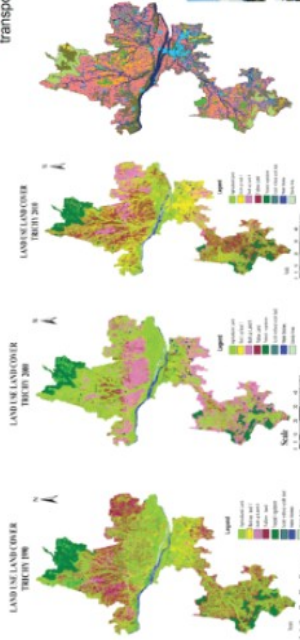
POPULATION GROWTH 1960-2030

The current metro area population of Tiruchirappalli in, 2021 - 1,182,000, 1.46% increase from 2020. 2020 - 1,165,000, 1.39% increase from 2019. 2019 - 1,149,000, 1.32% increase from 2018. 2018 - 1,134,000, 1.43% increase from 2017.



TIRUCHIRAPPALLI LOCAL PLANNING AREA - CORPORATION

**LANDUSE AND GROWTH**



This city is one of the **most cheapest** city to live. Cost of living is comparatively very low.

This city Transportation, which is very frequent & cheap when compared to all other cities in India. There are many Deluxe buses or no lack of buses even at the night time.



**Transport**

The most commonly used modes of local transport in Tiruchirappalli are the state government-owned **Tamil Nadu State Transport Corporation (TNSTC) buses**, and **Kumbakonam division of the TNSTC**. The city has two major bus termini, **Chattram Bus Stand** and **Central Bus Stand**, both of which operate intercity services and local transport to suburban areas.

Passenger trains also carry a significant number of from nearby towns. Tiruchirappalli Junction is one of the busiest in India. Tiruchirappalli has rail connectivity with most impor cities and towns in India.

Other railway stations in the city include **Tiruchirappi Palakkarai and Golden Rock (Ponmalai)**.



**FIG 4.2 PRESENTATION SHEET 2**

**LOCATION**

Trichirappalli is one of the oldest inhabited cities in India. The city is credited with being the best livable city and the cleanest city of Tamil Nadu also Trichirappalli sits almost at the geographic centre of the state.



**SITE SELECTION CRITERIA**

- The site located in an **institutional zone**. Also the site is considered as mixed use land.
- As the site is in **close proximity** to all basic facilities required for an institute like **Transportation, connectivity, traffic free zone, health care**. Hence providing an fine arts institute is an opportunity to obtain students.
- As the site is located **opposite to NIT trichy** gives an opportunity of recognition of the site.
- Also the site has **government buildings** (municipality office) one rear side of the site gives an opportunity of **well maintained service and safety**.
- Also this site helps in zoning the difference segments according to **site Context, neighborhood and climate factors**.
- The site has **good vegetation** that helps in designing a good green space.

Trichy-Tajore road, Thuvakudi, next to thuvakudi municipality office, Truchirapalli, Tamil nadu.  
**SITE AREA = 110700 Sq.m**  
**25 acres (approx)**

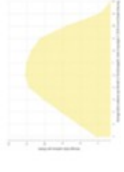
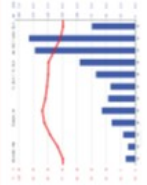
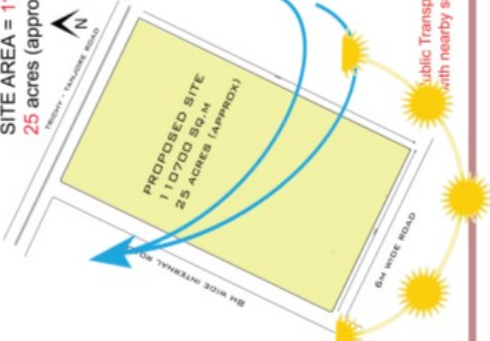
**NEIGHBORHOOD CONTEXT**

The site is in the **traffic free zone** in Thuvakudi, Trichy-Tajore road. It is surrounded by many **government buildings, educational institute, hospital, residence and holistic buildings**. This site has basic amenities required by the users. Also the futuristic plan brings out values to the site.

**NEIGHBORHOOD LAND USE**

Land use of the surrounding was properly planned by government for **government office and transportation**. On other side the surrounding is well planned for **educational institute and hospital** for users.

Public Transportation is available just 100 m to connect with nearby suburban regions.



Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Max Temp (°C)	30	32	34	35	36	37	38	37	35	33	31	30
Min Temp (°C)	18	19	20	21	22	23	23	22	21	20	19	18
Precipitation (mm)	12	15	20	25	30	35	40	45	35	25	15	10
Humidity (%)	75	78	80	82	85	88	90	85	80	75	72	70

**PRECIPITATION**  
 The difference in precipitation between the driest month and the wettest month is 170 mm | 7 inch. The variation in temperatures throughout the year is 7.1 °C | 12.8 °F.

**WIND DIRECTION**  
 The prevailing wind dominates from the **north west** direction.

**Climate Analysis**

**CLIMATE**

Thuvakudi, trichy has **tropical climate** under koppen classification, it is classified as a **tropical wet and dry climate**.

**HUMIDITY**  
 Trichy experience moderate humidity. **Relative humidity ranges from 60% to 70%**. During **monsoon it raises to 80%**. Moderate humidity give proper evaporation and comfortableness

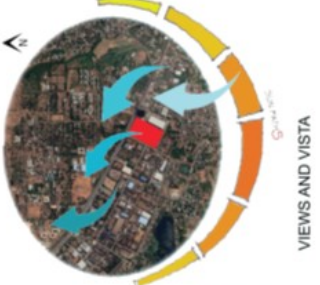
**WIND DIRECTION**  
 The prevailing wind dominates from the **north west** direction.

**LANDFORM**  
 The site has **flat terrain** with almost no variation in topography.

**NOISE**  
 The major source of noise is from the highway yet the **noise level is minimum and comfortable for institutional buildings**.

**SOIL TYPE**  
 The site is predominantly found with **Alluvial and Red loamy soil** which has bearing capacity of **80-160 KN/m2**

**FOUNDATION**  
 Strip footings upto 1 m wide or rafts.



As the site is surrounded with low raised structure of 3m - 6m high so after reaching elevation about 3 m high one could see the view around the site.

FIG 4.3 PRESENTATION SHEET 3

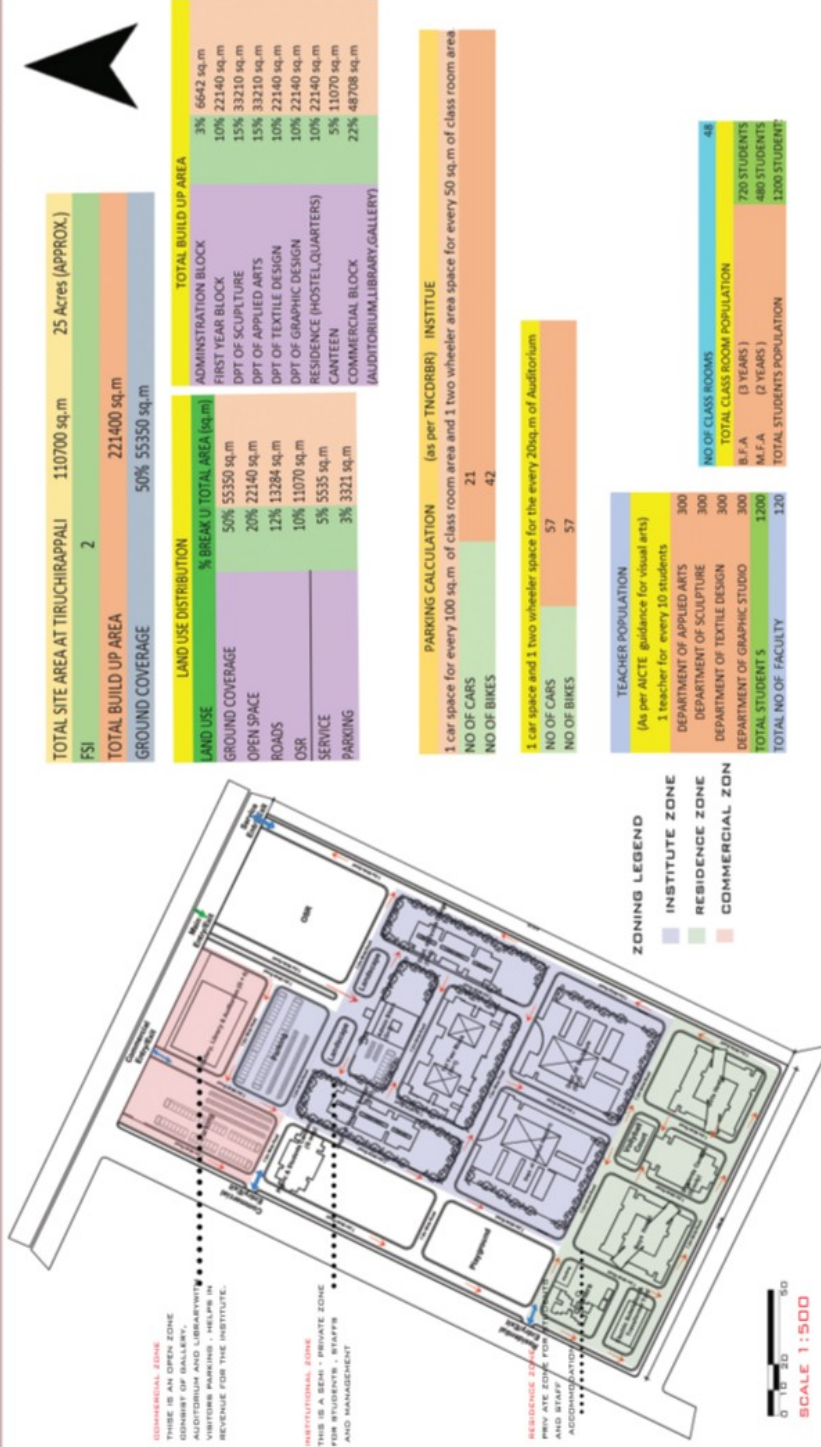


FIG 4.4 PRESENTATION SHEET 4



**COMMERCIAL BLOCK**  
LIBRARY  
MULTI PURPOSE HALL  
AUDITORIUM  
GALLERY

**HOSTEL**  
WARDEN ROOM  
OFFICE  
SICK ROOM  
PH ROOM  
MESS  
KITCHEN  
DINING HALL  
STORE ROOM  
DRY AREA  
ROOMS  
LOUNGE

**ADMIN BLOCK**  
RECEPTION  
WAITING LOUNGE  
ENQUIRY DESK  
ACCOUNT OFFICE  
BILLING OFFICE  
CONFERENCE ROOM  
DIRECTOR OFFICE  
PA OFFICE  
COUNCELLING ROOM  
RECORD ROOM  
STAFF OFFICE  
DINING  
SURVILLANCE ROOM  
DOCUMENT ROOM  
ADMINISTRATIVE OFFICE  
COURT YARD

**DEPARTMENT OF SCULPTURE**  
CLASS ROOM  
STUDIO  
FACULTY ROOM  
HOD ROOM  
STORE ROOM  
DISPLAY STATION  
FILE ROOM  
PAINT STORE ROOM  
COMPUTER LAB  
MULTI PURPOSE HALL

**DEPARTMENT OF APPLIED ARTS**  
CLASS ROOM  
STUDIO  
FACULTY ROOM  
HOD ROOM  
STORE ROOM  
DISPLAY STATION  
FILE ROOM  
PAINT STORE ROOM  
COMPUTER LAB  
MULTI PURPOSE HALL

**DEPARTMENT OF TEXTILE DESIGN**  
CLASS ROOM  
STUDIO  
FACULTY ROOM  
HOD ROOM  
WEAVING STUDIO  
STORE ROOM  
DIGITAL LAB  
RAMP WALK STUDIO  
MATERIAL ROOM  
MULTI PURPOSE HALL

**DEPARTMENT OF GRAPHIC STUDIO**  
CLASSROOM  
STUDIO  
FACULTY ROOM  
HOD ROOM  
DIGITAL LAB  
VR LAB  
DATA FEEDING ROOM  
MULTI PURPOSE HALL  
STORE ROOM  
FILE ROOM



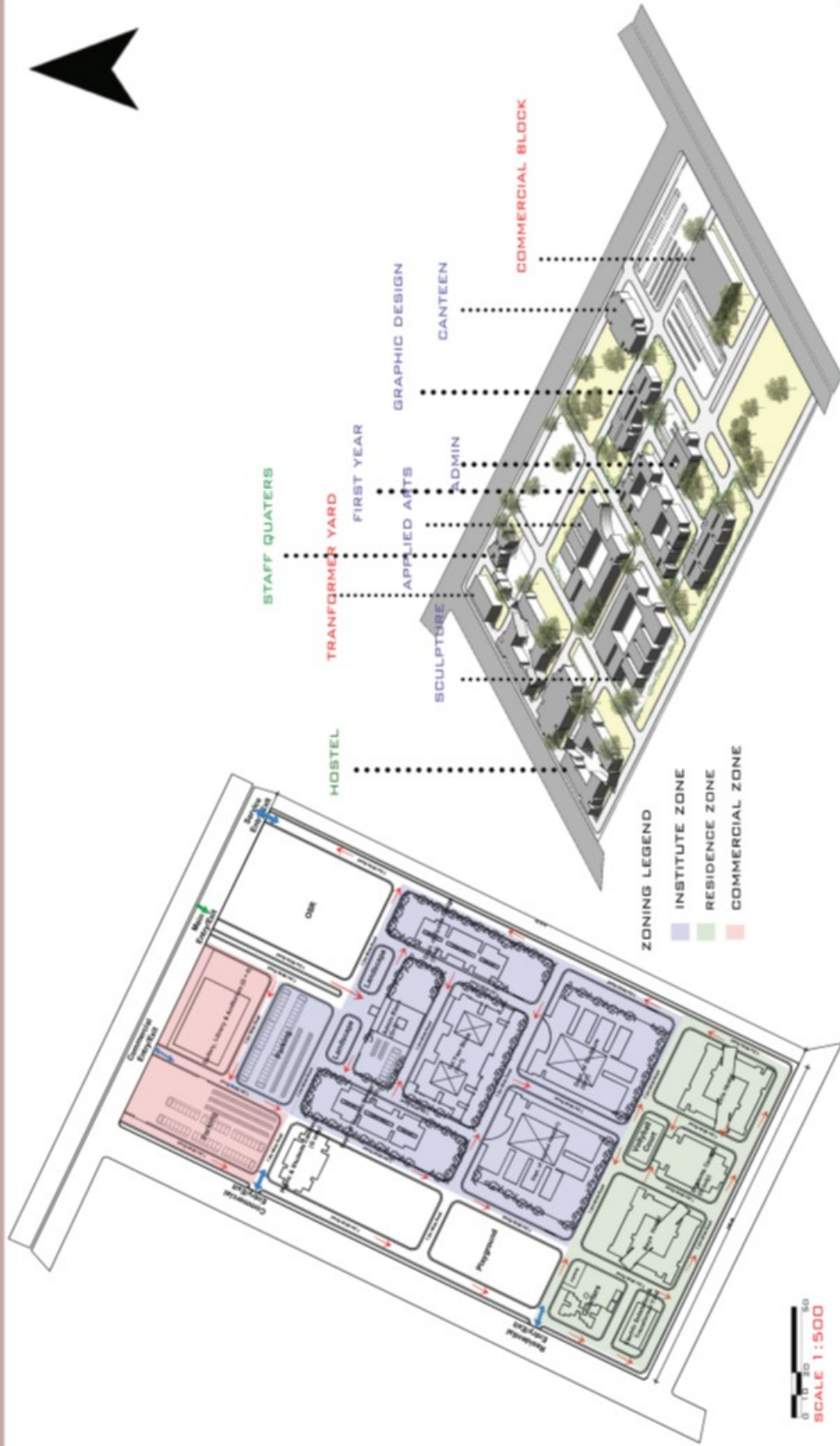
**INSTITUTIONAL ZONE OF THE SITE IS TREATED SYMMETRICALLY TO PROVIDE SENSE OF HARMONY AND BALANCE**

**BASICALLY ART IS MUCH RELATED TO BALANCE PROPORTION AND HARMONY**

**ZONING LEGEND**  
INSTITUTE ZONE  
RESIDENCE ZONE  
COMMERCIAL ZONE

**SCALE 1:500**

**FIG 4.5 PRESENTATION SHEET 5**



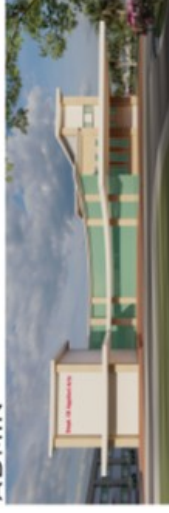
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# INSTITUTE OF FINE ARTS TIRUCHIRAPALLI

FIG 4.6 PRESENTATION SHEET 6



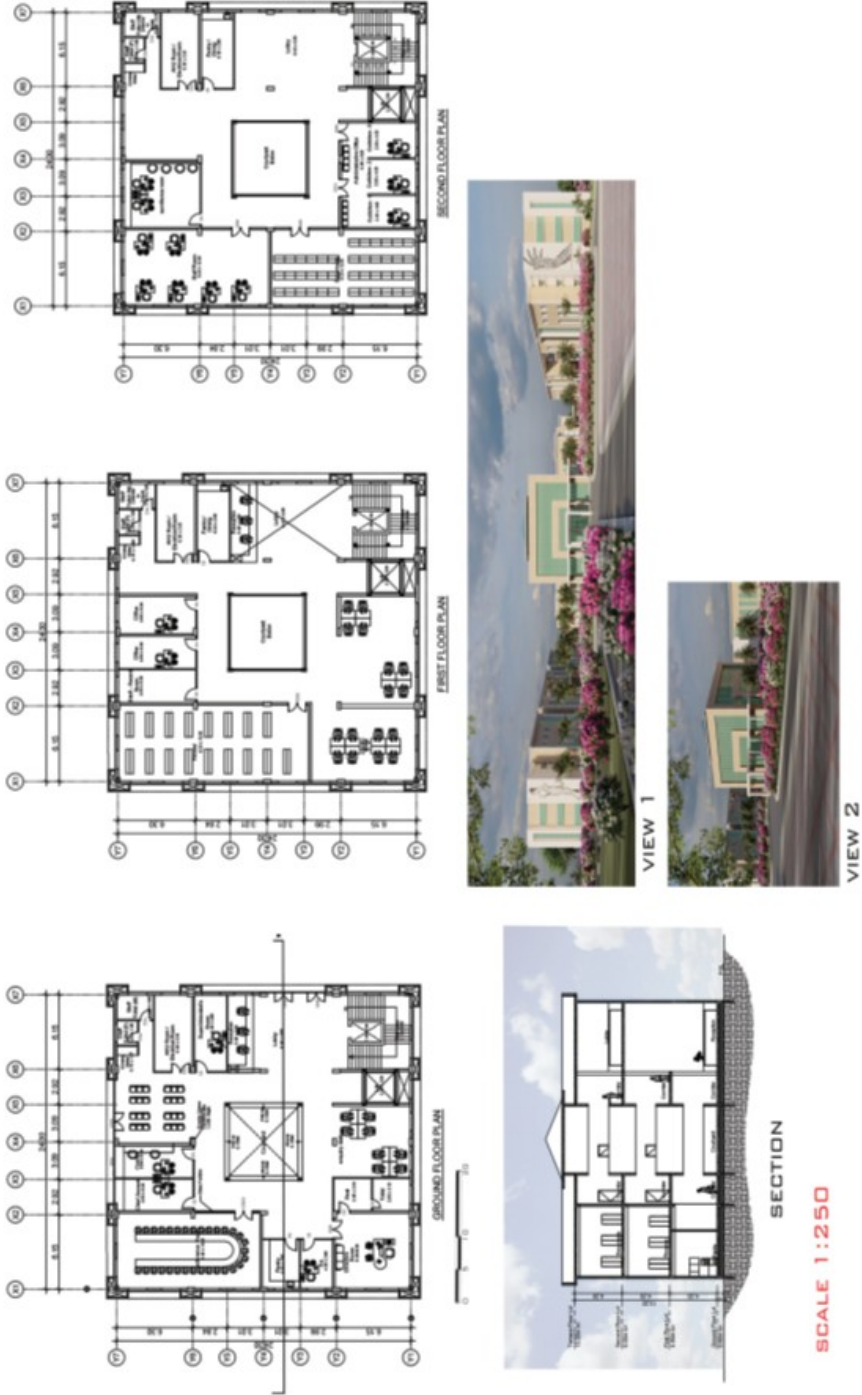


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FIG 4.7 PRESENTATION SHEET 7



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# INSTITUTE OF FINE ARTS TIRUCHIRAPALLI

FIG 4.8 PRESENTATION SHEET 8



First Floor Plan



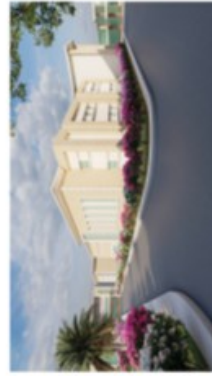
Ground Floor Plan



Section XX



VIEW 1



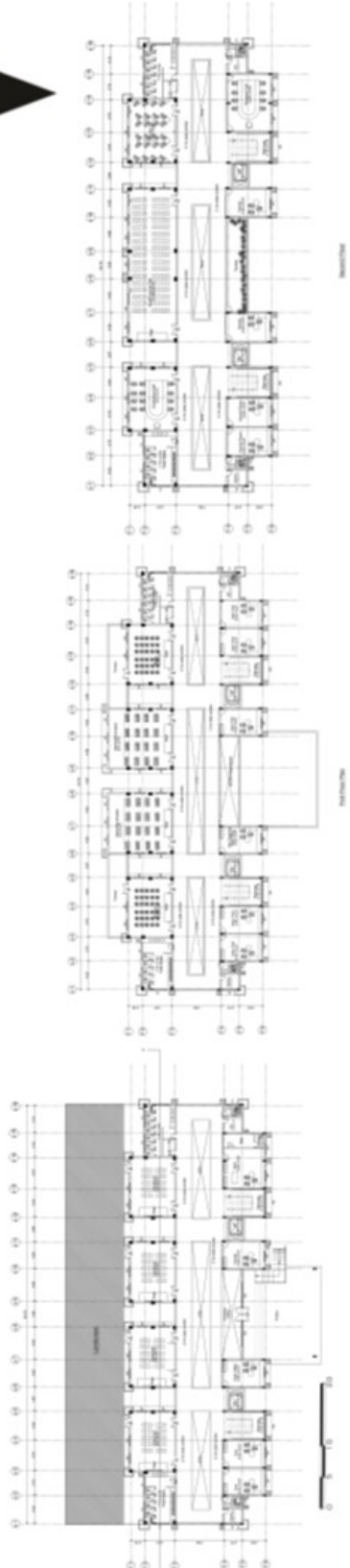
VIEW 2



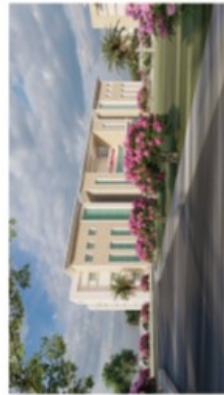
ELEVATION

SCALE 1:250

FIG 4.9 PRESENTATION SHEET 9



VIEW 1



VIEW 3



SCALE 1:250

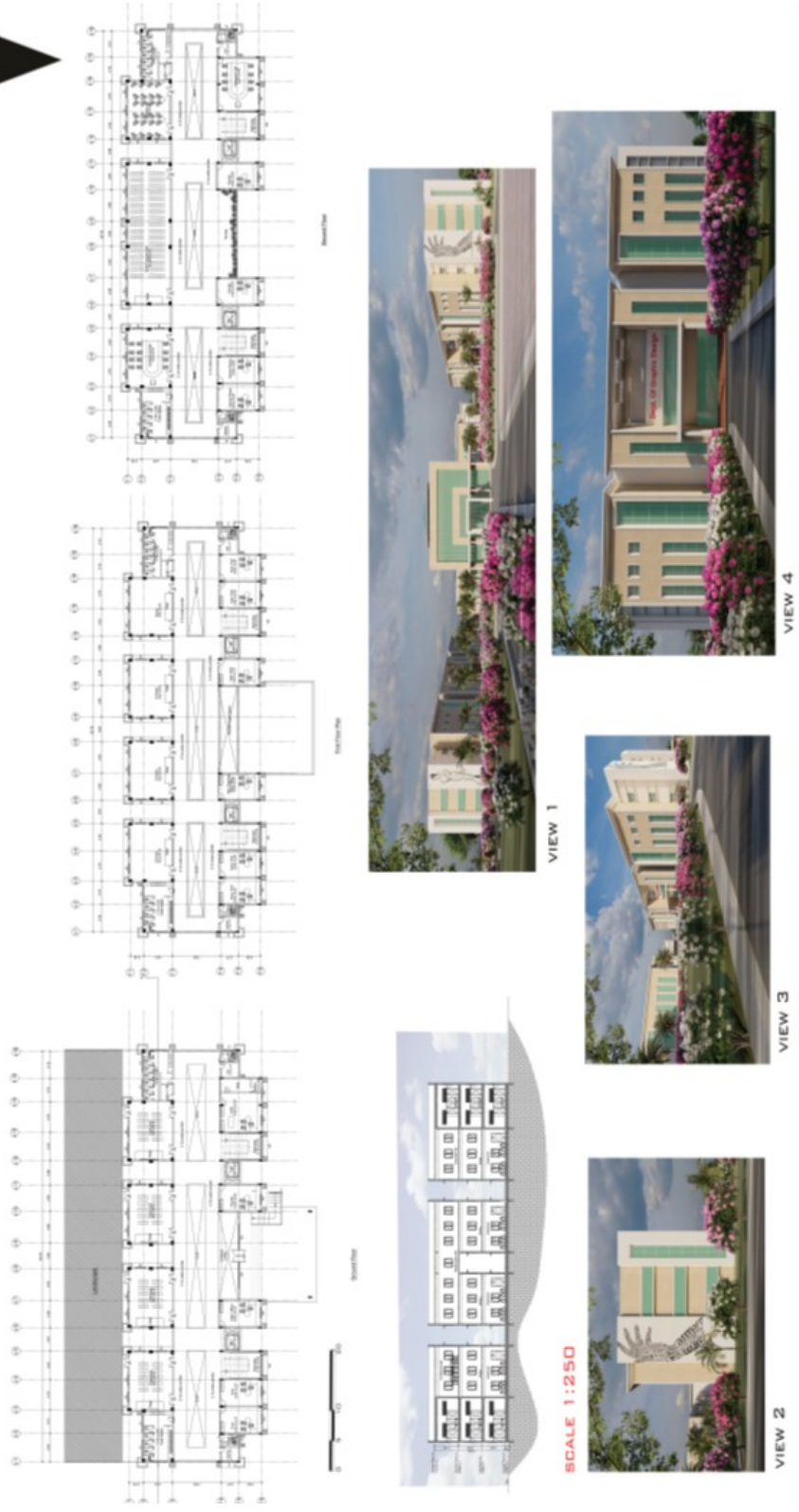


VIEW 2



VIEW 4

FIG 4.10 PRESENTATION SHEET 10

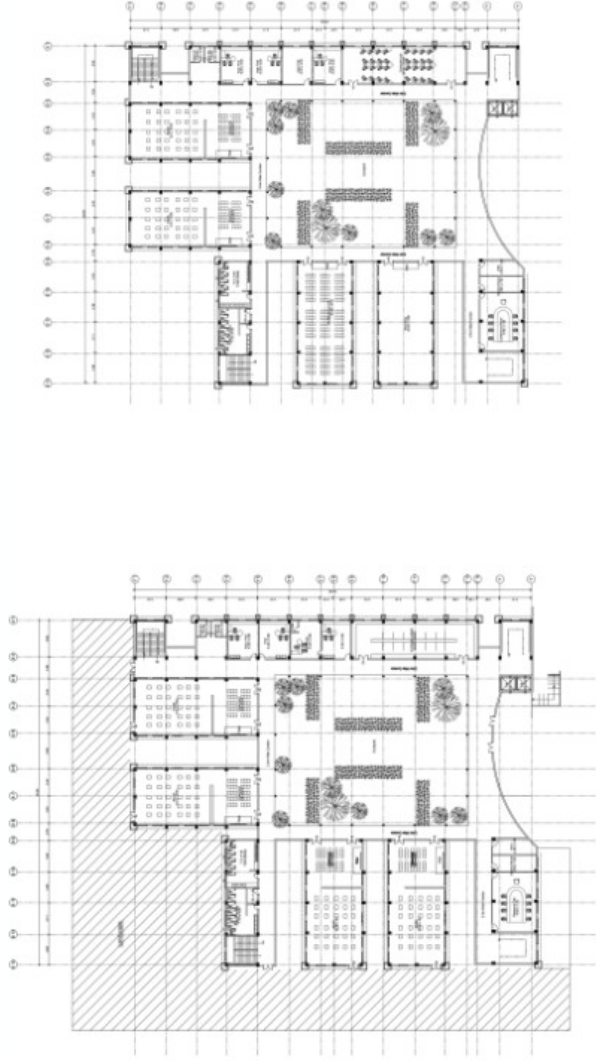
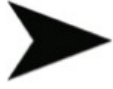


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# INSTITUTE OF FINE ARTS TIRUCHIRAPALLI

FIG 4.11 PRESENTATION SHEET 11



0 5 10 20



VIEW 1



SCALE 1:200

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**INSTITUTE OF FINE ARTS TIRUCHIRAPALLI**



FIG 4.13 PRESENTATION SHEET 13



FIG 4.14 PRESENTATION SHEET 14



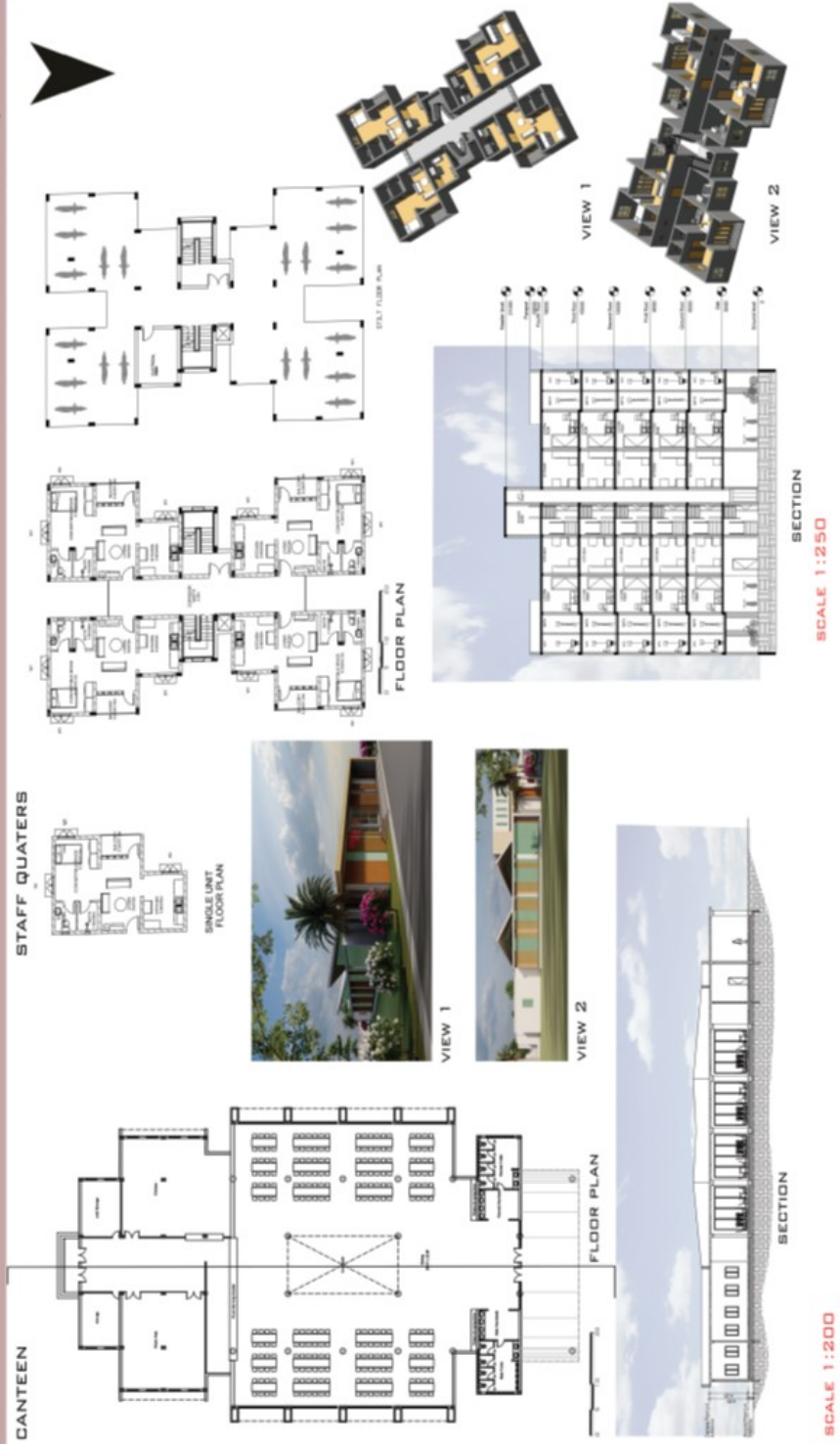


FIG 4.15 PRESENTATION SHEET 15

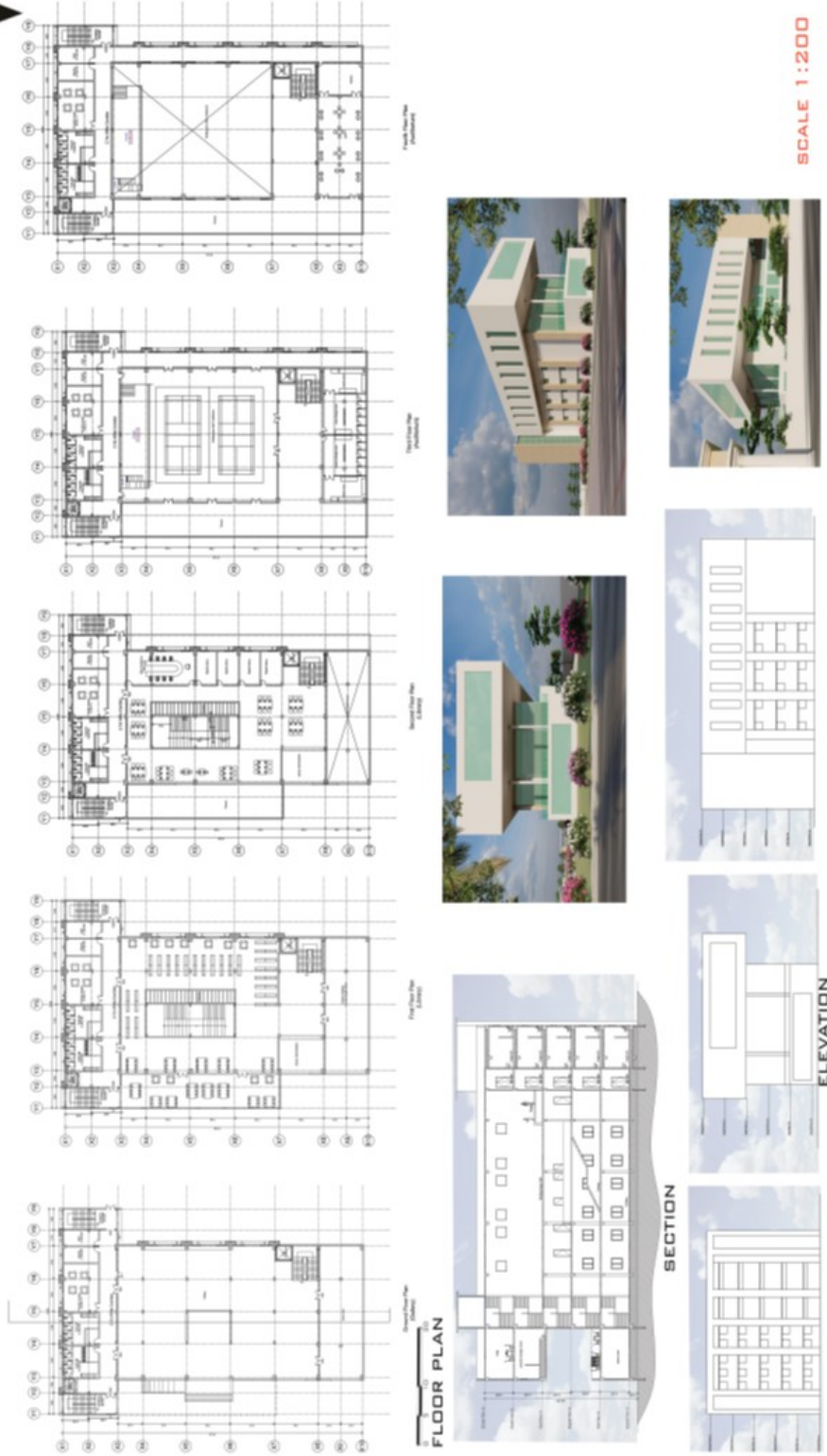


FIG 4.16 PRESENTATION SHEET 16

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# INSTITUTE OF FINE ARTS TIRUCHIRAPALLI

## 6. REFERENCE

### 6.1 STANDARDS

1. [india-national-building-code-nbc-2016-vol-1.pdf](#)
2. [Ernst\\_Neufert\\_ARCHITECTS\\_DATA.pdf](#)
3. [FACULTY NORMS - PRESCRIBED BY AICTE](#)
4. <http://www.satiengg.in>
5. [https://www.ugc.ac.in/pdfnews/2165119\\_UGC-Regulations.pdf](https://www.ugc.ac.in/pdfnews/2165119_UGC-Regulations.pdf)

### 6.2 WEBSITE

1. <https://www.jmi.ac.in/ffa>
2. <https://archeyes.com/jawahar-kala-kendra-charles-correa/>
3. <https://www.archdaily.com/373265/charles-correa-india-s-greatest-architect/5193c3a2b3fc4bc96a0000f2-charles-correa-india-s-greatest-architect-photo>
4. <https://www.re-thinkingthefuture.com/case-studies/a3416-jawahar-kala-kendra-by-charles-correa-reflection-of-the-citys-architecture/>