

ACHARYA'S NRV SCHOOL OF ARCHITECTURE

SOLADEVANAHALLI, BENGALURU -560107

"SKILL DEVELOPMENT CENTRE" ARCHITECTURE DESIGN PROJECT (THESIS) – 2022-23

Submitted in partial fulfillment of the Requirements for the "Bachelor of Architecture" Degree Course

Submitted by : Anagha P Chikkalkar

USN : 1AA18AT004

Guide : Asst. Prof. Ar. Gayathri S Pillai

A project report submitted to

VISVESHWARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Machhe, Belgaum – 590018

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ - ೫೯೦೦೧೮



CERTIFICATE

This is to certify that this thesis report titled Skill Development Center by Anagha

P Chikkalkar of X SEMESTER B. Arch, USN No. 1AA18AT004, has been

submitted in partial fulfillment of the requirements for the award of under graduate

degree Bachelor of Architecture (B.Arch) by Visveshwaraya Technological

University VTU, Belgaum during the year 2022-23.

Guide: Asst. Prof. Ar. Gayathri S Pillai

Principal: Prof. Ar. Sanjyot Shah

Examined by:

1) Internal Examiner

2) External examiner 1 :

3) External examiner 2 :

DECLARATION

This thesis title "Skill Development Center", submitted in partial fulfillment of

the requirement for the award of the under graduate of Bachelor of architecture is

my original work to the best of my knowledge.

The sources for the various information and the data used have been duly

acknowledged.

The work has not been submitted or provided to any other institution/ organization

for any diploma/degree or any other purpose.

I take full responsibility for the content in this report and in the event of any

conflict or dispute if any, hereby indemnify Acharya's NRV School of

Architecture and Visveshwaraya Technological University, Belagavi, and its

official representatives against any damages that any raise thereof.

Anagha P Chikkalkar

1AA18AT004

 $\Sigma_{\rm age}$

ACKNOWLEDGEMENT

- My warmest and sincerest gratitude to my mentor, Ar Gayathri Pillai, for her support throughout my thesis journey. Her diligence, enthusiasm, and knowledge have been indescribably valuable. I owe her for her guidance throughout the whole process, from research to finalizing the thesis.
- I'd also like to thank Ar Sanjyot Shah, our esteemed Dean, for being a source of inspiration and affirmation.
- A special note of gratitude goes out to Ar Malavika Jayachandran, our thesis coordinator, for her support and encouragement throughout the process.
- Our library staff deserves to be mentioned as well—their collaboration and contributions were indispensable in the completion of my thesis.
- Above all, I owe immense thanks to my family and friends for their constant love, understanding, and support during this challenging endeavour.

ABSTRACT

Despite the growth of industry, many people are still struggling with unemployment, particularly women who lack access to higher education. With a growing population, there is an increasing need for educational facilities that can provide individuals with the skills they need to take advantage of job opportunities or start their own businesses. It is also important for personal growth to enhance existing skills and receive training in traditional crafts.

To address these needs, a comprehensive skill development and vocational training center could be established, offering both industrial and artisanal training to help individuals start their own small businesses. This project would be tailored to the specific needs of the region and would promote community interactions through shared gathering spaces. The center would operate under government guidelines and aims to combat unemployment while providing high-quality education and job oriented training.

Contents

1) 1.1 INTRODUCTION	10
1.2 WHAT IS A SKILL DEVELOPMENT CENTER?	10
1.4 OBJECTIVES	12
1.3 AIM	12
1.5 WHY NARSAPURA INDUSTRIAL AREA: IDEAL CHOICE FOR OUR PROJECT	13
1.6 LOCATION OVERVIEW	13
1.7 CONNECTIVITY	14
1.8 BENEFITS OF THE PROJECT	14
1.10 LIMITATIONS	15
1.9 PROJECT SCOPE	15
2) 2.1 LITRATURE STUDY- KHAMIR CRAFT RESOURCE CENTER, GUJARAT	16
2.1.1 INTRODUCTION:	16
2.1.2 SITE ANALYSIS	17
2.1.3 DESIGN CONSIDERATION	17
2.1.4 OBSERVATIONS	20
2) 2.2 LITRATURE STUDY- VAGHALDHARA VOCATIONAL TRAINING CENTRE	21
2.2.3 CLIMATIC CONSIDERATION	21
2.2.2 SITE STUDY	21
2.2.1 INTRODUCTION:	21
2.2.5 OBJECTIVES:	22
2.2.4 VISION:	22
2.2.6 INFRASTRUCTURE	23
2.2.7 OBSERVATION:	25
3.1.2 LOCATION:	26
3.1.1 INTRODUCTION:	26
3) 3.1 CASE STUDY – SEWA SELF-EMPLOYED WOMEN'S ASSOCIATION	26
3.1.3 ARCHITECTURAL:	27
3.1.4 SKILLS:	27
3.1.5 SPACES AND ITS ACCOMODATION CAPACITY:	28
3.1.6 VERNACULAR ELEMENTS AND DETAILS:	29
3.1.7 OBSERVATION:	30
3) 3.2 CASE STUDY – NSTI (National Skill Training Institute)	31

3.2.1 INTRODUCTION	31
3.2.2 HISTORY	32
3.2.3 TOTAL LAND USED:	33
3.2.4 LIGHT AND VENTILATION	34
3.2.5 MATERIALS USED	35
3.2.6 OBSERVATIONS	36
4) SITE ANALYSIS	37
4.1 LOCATION OVERVIEW	37
4.2 ACCESSIBILITY AND CONNECTIVITY	37
4.3 SURROUNDING LAND USE	38
4.4 CLIMATE	39
4.5 SLOPS AND CONTOURS	40
4.6 LAND OWNERSHIP	41
4.7 S.W.O.T ANALYSIS	41
5) COMPARATIVE ANALYSIS	42
6) AREA STATEMENT	43
7) CONCEPT	44
8) BIBLIOGRAPHY	46