



ACHARYA'S NRV SCHOOL OF ARCHITECTURE
SOLADEVANAHALLI, BENGALURU -560107

PROJECT TITLE

NDRF TRAINING CENTRE 2024-25

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

Submitted by : Prarthana. K
USN : 1AA21AT030
Guide : Prof. Ar. Rajesh Mallik & Prof. Ar. Neha

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 **NDRF Training Centre** by **Prarthana K** of IX SEMESTER B. Arch, USN No. 1AA21AT030, 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 2024- 25.

Guide:

Principal

Prof. Ar. Rajesh Mallik

Prof. Ar. Neha

Examined by :

1)Internal Examiner :

2)External examiner 1 :

3)External examiner 2 :

DECLARATION

This thesis title “NDRF Training Centre”, 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.

PRARTHANA K

1AA21AT030

ABSTRACT

India's diverse geography makes it highly vulnerable to a wide spectrum of natural disasters, including floods, cyclones, earthquakes, and landslides. Over the years, the southern region in particular has faced repeated large-scale calamities, exposing a critical gap in regional preparedness and response infrastructure. While national-level training institutions exist, their concentration in northern and central India has resulted in limited accessibility for responders, students, and communities in the south.

This thesis proposes the design of a Disaster Management Training and Research Institute that addresses this gap by offering a dedicated, simulation-based learning environment in Southern India. The study examines disaster patterns, reviews national and international case studies, and analyses user needs to formulate an architectural vision that blends functionality, safety, sustainability, and real-world applicability.

The project emphasises realistic training modules—such as collapsed-structure drills, deep-water rescue areas, fire response zones, and chemical hazard simulations—supported by academic blocks, residences, research labs, and recreational facilities. A 35-acre site is developed into a self-sufficient campus where training, community awareness, and research can operate together seamlessly.

By integrating disaster-resilient design strategies, climate-responsive planning, and flexible spaces, the proposed institute aims to become a hub for capacity building and a catalyst for strengthening disaster resilience in Southern India. Ultimately, this thesis demonstrates how architecture can go beyond shelter to become a powerful tool for preparedness, empowerment, and long-term societal safety.

ACKNOWLEDGEMENT

I take immense pleasure to express my most sincere thanks to all the people who assisted me and because of whose constant guidance and encouragement, this thesis project has been successfully completed.

I would like to extend a heartfelt gratitude to **Prof. Ar. Rajesh Mallik and Prof. Ar. Neha** for their immense support and encouragement in this journey.

I would also like to thank all the reviewers and jurors, whose comments have helped me immensely.

I further thank all the faculty members and non-teaching staff of the department for their support.

I thank my parents for their moral support. Last but not least, I thank all my friends who have helped directly or indirectly in bringing out this work successfully.

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