



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

**“GOAN GETAWAY” – INTERNATIONAL CRUISE TERMINAL  
ARCHITECTURE DESIGN PROJECT (THESIS) – 2024-25**

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

Submitted by	:	Sameeraj C M
USN	:	1AA20AT049
Internal Guide	:	Prof. Ar. Sanjyot Shah
External Guide	:	Ar. Archana Yadav

A project report submitted to

**VISVESHVARAYA TECHNOLOGICAL UNIVERSITY**

**“Jnana Sangama”, Mache, Belgaum – 590018**

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ - ೫೯೦೦೧೮



## **CERTIFICATE**

This is to certify that this thesis report titled **“Goan Getaway” – International Cruise Terminal** by **Sameerraj C M** of IX SEMESTER B. Arch, USN No. **1AA20AT049**, 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.

**Internal Guide:** Prof. Ar. Sanjyot Shah

**External Guide:** Ar. Archana Yadav

**Principal**

**Examined by :**

1)Internal Examiner :

2)External examiner 1 :

3)External examiner 2 :



Acharya's NRV School of Architecture, Bangalore

**Certificate of Plagiarism Check for Thesis**

<b>Author Name</b>	Mr. Sameer Raj
<b>Course of Study</b>	B. Arch.
<b>Name of Guide</b>	Ar. Archana Yadav and Ar. Sanjyot Shah
<b>Department</b>	Architecture
<b>Acceptable Maximum Limit</b>	>30%
<b>Submitted By</b>	parasappavajjaramatti@acharya.ac.in
<b>Paper Title</b>	GOAN GETAWAY – INTERNATIONAL CRUISE TERMINAL
<b>Similarity</b>	26%
<b>Paper ID</b>	2580191
<b>Total Pages</b>	83
<b>Submission Date</b>	2024-11-25 12:40:07

Signature of Student

Signature of Guide

Librarian

Principal

\* This report has been generated by DrillBit Anti-Plagiarism Software

## **DECLARATION**

This thesis title **“Goan Getaway” – International Cruise Terminal**, 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.

**(Signature)**

**SAMEERRAJ C M**

**USN 1AA20AT049**

## ACKNOWLEDGEMENT

I would like to thank **God** for being there throughout my thesis project.

And would like to express gratitude to the following individuals and institutions for their invaluable support and guidance throughout my architectural thesis journey:

### **Institutional Faculties:**

I would like to convey my deepest gratitude to my thesis guides, **Ar. Archana Yadav** and **Prof. Ar. Sanjyot Shah** for guiding me throughout.

I am also thankful and would like to express my sincere gratitude to Ar. Neha Sahay, Ar. Malavika Jayachandran and all other professors for their support and encouragement during Thesis work. **ANRVSA**, for providing a stimulating academic environment and resources that facilitated my growth.

### **Research Participants:**

Participants along with Mormugao port authority (MPA) GOA, who contributed to my research through surveys, interviews, and case studies, for sharing their experiences and perspectives.

### **Family and Friends:**

My loving family and batchmates for their unconditional support, patience, and encouragement.

This thesis would not have been possible without the collective efforts and contributions of these individuals and institutions. I take full responsibility for any errors

**Thank you.**

## Contents

ABSTRACT .....	10
1. INTRODUCTION:.....	11
1.1 General:.....	11
1.1.1 Types of Cruise Ports : .....	12
1.1.2 Berthing area Classification : .....	13
1.2 Objective:.....	14
1.3 Aim: .....	14
1.4 Scope: .....	14
1.5 Limitations:.....	15
1.6 METHODOLOGY: .....	16
1.7 RESULT: .....	17
1.8 CONCLUSION: .....	17
2. STANDARDS OF OPERATION: .....	18
2.1 Port Facilities .....	18
2.2 Procedure to be followed by Ports.....	19
2.2.1 Berth Allotment: .....	19
2.2.2 Preparation of Terminal for Passenger Arrival: .....	19
2.2.3 Tour Operators:.....	19
2.2.4 Entry & Exit of Vehicles through Access Control System/Pedestrian: .....	19
2.2.5 Shuttle Bus Service & Passenger Baggage: .....	20
2.2.6 Entry/Exit of vehicles deployed for emergency services & Port Vehicles: .....	20
2.3 Requirements of CISF: .....	20
2.4 Maritime Infrastructure: .....	21
2.5 Embarkation and Disembarkation Procedure:.....	22
2.5.1 Embarkation Procedures -Domestic movements – .....	22
2.5.2 Embarkation Procedures for an International Cruise -India to abroad. ....	22
2.5.3 Procedure for Disembarkation.....	23
3. DESIGN STANDARDS FOR CRUISE TERMINAL: .....	24
4. CASE STUDY:.....	27
4.1 LITRATURE CASE STUDY: .....	27
4.1.1 Yokohama International Cruise Terminal:.....	27
4.1.2 Pier 27 San Francisco Cruise Terminal:.....	34

4.2 LIVE CASE STUDY: .....	43
4.2.1 Cochin International Cruise Terminal:.....	43
4.2.2 Mumbai International Cruise Terminal:.....	50
5.SITE ANALYSIS: .....	60
Site Introduction: .....	60
Location: .....	61
SITE SELECTION:.....	62
SITE EXISTING STRUCTURES:.....	63
SITE JUSTIFICATION:.....	65
Noise, Odour, and Hotel Map.....	67
Land Use Map.....	67
Vehicular Axis Map; .....	68
Visability: .....	69
Wind Analysis : .....	69
6.Concept of Façade Development: .....	74
7.Terminal Body Mass Evolution.....	75
8.Site Zoning.....	76
9. Master Plan .....	77
10.Plans.....	78
11.Sections and Elevations .....	80
12.Ancillary zone Form Generation .....	81
13.Renders .....	82

## TABLE OF FIGURES

Figure 1 Cruise terminal concept.....	11
Figure 2 Cruise terminal concept.....	11
Figure 3 cruise tourist arrival table.....	12
Figure 5 Types of Cruise Berths.....	13
Figure 6 Types of Cruise Berths.....	13
Figure 7 Limitations of Cruise Terminal.....	15
Figure 8 Limitations of Cruise Terminal.....	15
Figure 9Design Standards 1.....	24
Figure 10Design Standards 1.....	24
Figure 11 Design Standards 2.....	24
Figure 12 Design Standards 2.....	24
Figure 13Design Standards 3.....	25
Figure 14Design Standards 3.....	25
Figure 15 Design Standards 4.....	26
Figure 16 Design Standards 4.....	26
Figure 17Yokohama International terminal .....	27
Figure 18 Circulation Diagram.....	28
Figure 19Ground Floor Plan.....	29
Figure 20 Frist Floor Plan.....	29
Figure 21 Sections .....	30
Figure 22 Roofing.....	31
Figure 23 Parking .....	32
Figure 24 Site Section.....	32
Figure 25 Terrace View.....	33
Figure 26 Terrace View.....	33
Figure 27 Pier 27 San Francisco.....	34
Figure 28 Front Facade.....	34
Figure 29 Master Plan.....	35
Figure 30 Site Zoning .....	36
Figure 31 Site Circulation.....	36
Figure 32 Site Oriantation .....	37
Figure 33 Form Generation .....	37



Figure 34 First Floor.....	38
Figure 35 Ground Floor.....	38
Figure 36 Section 1.....	39
Figure 37 Section 2.....	39
Figure 38 Site Section.....	40
Figure 39 Site Elevation.....	40
Figure 40 Interior Views.....	41
Figure 41 Exterior View.....	41
Figure 42 Interior View.....	42
Figure 43 Cochin terminal.....	43
Figure 44 Front Facade.....	43
Figure 45 Site Area.....	44
Figure 46 Flow Diagram.....	45
Figure 47 Flow Diagram.....	46
Figure 48 Site Map.....	47
Figure 49 Floor Plan.....	47
Figure 50 Departure.....	48
Figure 51 Arrival.....	48
Figure 52 Surface Parking.....	48
Figure 53 Interior view.....	49
Figure 54 Front Facade.....	50
Figure 55 Int Cruise Terminal Mumbai.....	50
Figure 56 Section.....	51
Figure 57 Flow Diagram.....	54
Figure 58 Ground Floor.....	55
Figure 59 First Floor.....	55
Figure 60 Second Floor.....	56
Figure 61 Third Floor.....	56
Figure 62 Section.....	57
Figure 63 entrance.....	58
Figure 64 Interior1.....	58
Figure 65 Interior 2.....	58
Figure 66 Interior 3.....	59

Figure 67 Front Facade 2.....	59
Figure 68 Site Area.....	60
Figure 69 Location.....	61
Figure 70 Site Boundry.....	62
Figure 71 Site connectivity.....	63
Figure 72 Site Existing Structures.....	63
Figure 73 Site Images.....	64
Figure 74 Noise, Odour and Hoteel Map .....	67
Figure 75 Land Use Map.....	67
Figure 76 Major destination around site:.....	68
Figure 77 Vehicular Axis Map.....	68
Figure 78 Wind Analysis.....	69
Figure 79 Rainfall Variation at Site.....	70
Figure 80 Mean Wind Speed graph.....	71
Figure 81 Temperature Analysis at Site. ....	71
Figure 82 Relative humidity Analysis. ....	72
Figure 83 Sun Path Analysis .....	73
Figure 91 SWOT analysis.....	73
Figure 99 International terminal Ground floor.....	78
Figure 100 International Terminal Frist floor .....	78
Figure 101 International Terminal 2nd floor plan.....	79
Figure 103 Domestic Terminal floor plan.....	79
Figure 104 sections and details.....	80
Figure 105 Floor level Diagram .....	80
Figure 106 International terminal Interior View .....	82
Figure 107 Main Entrance drop-off zone .....	82
Figure 108 Domestic terminal Cruise Entrance .....	83
Figure 1109 International terminal Arrival exit .....	83

## ABSTRACT

A cruise terminal is a specialized facility designed to accommodate cruise ships, providing passengers with a comfortable and efficient embarkation/debarkation experience. These terminals play a vital role in the maritime tourism industry, contributing significantly to local economies and promoting cultural exchange.

India's vast coastline and rich cultural heritage present immense potential for cruise tourism, yet the country lacks modern, dedicated cruise terminals to cater to the growing demand. This thesis investigates the need for a world-class cruise terminal in India, addressing infrastructural gaps and opportunities for sustainable tourism development.

**Economic Growth:** Cruise terminals generate substantial revenue through tourism, creating jobs and stimulating local economic development.

**Infrastructure Development:** Modern cruise terminals spur investment in surrounding infrastructure, enhancing overall port facilities and transportation networks.

**Cultural Exchange:** Cruise terminals facilitate people-to-people connections, showcasing local culture, heritage, and traditions to international visitors.

**Enhanced Passenger Experience:** Well-designed terminals offer amenities, services, and seamless transit processes, improving overall passenger satisfaction.

**Environmental Sustainability:** Modern terminals incorporate eco-friendly design and operational practices, minimizing environmental impact.

In conclusion, cruise terminals serve as critical gateways for maritime tourism, driving economic growth, cultural exchange, and infrastructure development. As the industry evolves, terminals must prioritize sustainability, technology, and passenger experience to remain competitive and beneficial to local communities.