



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

Sira Road, Tumkur - 572 100, Karnataka, India.

SHRIDEVI
INSTITUTE
OF
ENGINEERING
&
TECHNOLOGY

Phone: 0816 - 221700 | Principal: 0816 - 221700 | Mob: 91 98899 16899 | Telefax: 0816 - 221700

Email: info@shrideviengeering.org, principal@shrideviengeering.org | Website: www.shrideviengeering.org

(Approved by AICTE, New Delhi. Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)



Ref: SIEI/ICV/INT//2022-2023/19

Date: 25/08/2022

To:

Mr. N V Ramanurthy

Chief Executive

TEKNA-KON

Tumkur 572102

Subject: Permission to carry out internship reg...

Dear sir,

At the consent, we express our heartfelt thanks for permitting the following student to complete the internship at your esteemed organization.

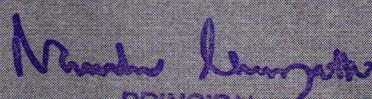
SI. No	Name of the Student	USN	Mobile No.	Email
1	Govindaraju N	1SV19CV009	8978541583	rajuonline06@gmail.com

In this regard, I am happy to permit the above student to carry out his internship from 22/08/2022 to 10/09/2022 in your esteemed organization & seek your co operation in completing his/her internship successfully.

Thanking you & looking forward to your continuous support.

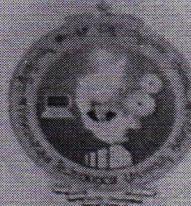
Yours

PRINCIPAL


PRINCIPAL
SIEI. TUMKUR.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018.

KARNATAKA



2022-23

A Internship Seminar Report on

"HABITAT EDEN HEIGHTS"

Submitted in partial fulfillment of the requirement for the award of degree

BACHELOR OF ENGINEERING IN CIVIL ENGINEERING

Submitted By –

GOVINDARAJU N

USN-1SV19CV009

SIET, TUMAKURU

Under The Guidance Of-

Ms . NIRANJANI B, B.E., M.Tech.

Assistant Professor

Department of civil engineering

SIET, TUMAKURU



Nirandhi Murugappa
PRINCIPAL
SIET, TUMKUR

DEPARTMENT OF CIVIL ENGINEERING

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to Visvesvaraya Technological University Belagavi)

Sira Road, Tumakuru- 572106 KARNATAKA

SRI DEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(AN ISO 9001: 2015 Certified Institution)
Sira Road, Tumakuru -572106

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

This is to certify that this internship report of on topic entitle "HABITAT EDEN HEIGHTS" has been successfully carried out by **GOVINDARAJU N** bearing USN : 1SV19CV009 in partial fulfillment of the requirements for the award of Bachelor of Engineering in Civil Engineering from Visvesvaraya Technological University, Belagavi during the academic year 2022- 2023. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report. The internship report has been approved as it satisfies the academic requirements in respect of technical topic prescribed for the Bachelor of Engineering.

Signature of the Internal Guide

Ms. NIRANJANI B, B.E., M.Tech.

Assistant Professor

Dept. of Civil Engineering.

Signature of the External Guide

Mr. MOHAMMED RAFFI
Chief Executive Engineer
Residential Building,
Bangalore.

Principal
SIET, TUMKUR.

Signature of the HOD

Signature of the Principal

Dr. GMAHESH KUMAR
Professor & HOD
Dept. of Civil Engineering.

NAME of the EXAMINERS

DSC Navani

2) S-N Pattiya

External Viva - VOCE

Dr. NARENDRA VISHWANATH

Principal, SIET
Tumkur.

Signature with Date

1) C Daggan 22/9/23

2) M.T 22/9/23

ABSTRACT

As a part of academic requirement of university, we have to carry out internship programme in an industry set up related to the construction/materials testing laboratories/project management consulting firms or other avenues related to civil engineering domain in consultation, for about one month. The main intention of this programme is to get industrial exposure in terms of structural as well as in construction work. This document represents a set of work done as a part of internship.

We found **RESIDENTIAL BUILDINGS** as one of the good project which offered us for internship. Hence, I am thankful for the **CHIEF EXECUTIVE ENGINEER , Mr. MOHAMMED RAFI**

Murad Ali

PRINCIPAL
S.I.E.T. TUMKUR.

TO WHOM SO EVER IT MAY CONCERN

is to certify that Mr. Govindaraju (ISV19CV609), a B.E Civil engineering student of ShriDevi Institute of Engineering and Technology has successfully completed his internship from our organization Samawi Homes, on 01st September 2022 to 01st October 2022 at our Athiyana villa project in Bangalore under the guidance of Mr. Raju- Project Manager.

During the period of his internship, we found him punctual, hardworking, andquisitive.

We wish him every success in life.

For Samawi Homes,

For SAMAWI HOMES

Mohammed Rafi
Mohammed Rafi

Proprietor

Date: 05-05-2023

Murthy Lingayath
PRINCIPAL
SIET, TUMKUR.

Samawi Homes

153, 1st floor, 1st main, South Main Road,
Bengaluru, 560037, India
M: +91 9845067101/00

CHAPTER-5

CONSTRUCTION WORKS

Earth work

Earthworks are engineering works created through the processing of parts of the earth's surface involving quantities of soil or unformed rock. Excavation is the process of moving earth, rock or other material with tools, equipment or explosives. It includes earthwork, trenching, wall shafts, tunnelling and underground.

Types of excavation

- Top soil excavation
- Earth excavation
- Rock excavation
- Muck excavation - this usually contains excess water and unsuitable soil
- Unclassified excavation - this is any combination of material types.



FIG 5.1(a) EXCAVATOR

- Typically earthworks include roads, railway beds, causeways, dams, canals. Other common earthworks are land grading to reconfigure the topography of a site, or to stabilize slopes.
- Heavy construction equipment is usually used due to the amounts of material to be moved up to millions of cubic meters. Earthwork construction was revolutionized by the development of the scraper and other earth moving machine such as the loader, the dump truck, the grader, the bulldozer, the backhoe, and the dragline excavator.

Design brief

• Structural system

The structural system is of RCC beam-columns with rigid joint. Lift walls are considered as RCC shear walls. Foundation system is isolated footings and combined footings.

Mandeep Kaur
PRINCIPAL
S.I.T. TUMKUR.

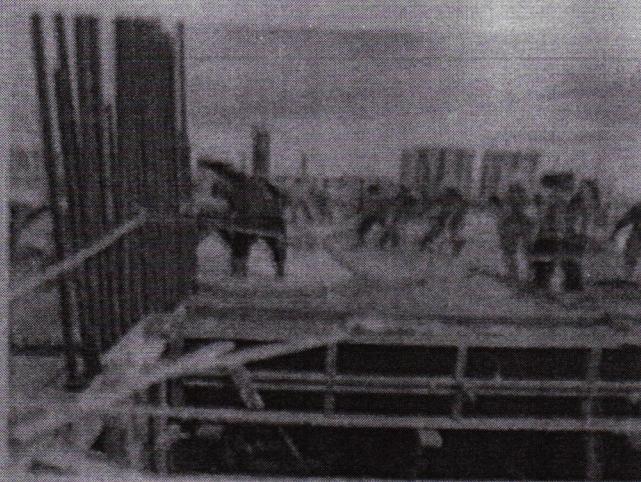


FIG 5.5(a) PUMPING OF CONCRETE

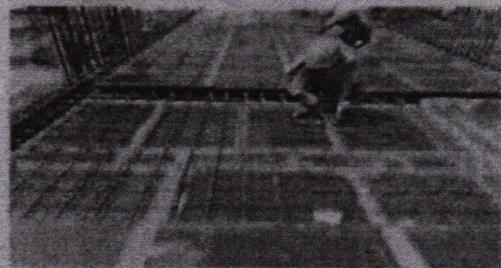
Reinforcement

Reinforcing means the action of strengthening or encouraging something.

Reinforcement should be provided at designed spacing.

Steel bars of designed grade should be used.

Slab thickness-150mm, sunken area- 125mm,



Reinforcing of beams, columns, slabs. FIG 5.6(a) REINFORCEMENT

- The lapping length for columns and beams 37d and 50d are considered.
- Stirrups are provided c/c distance as per design and binded by binding wires (mild steel).
- The first step is location of columns and beams in field as per drawing

COVER TO REINFORCEMENT

Cover blocks used of PVC type in site.

The nominal cover to main reinforcement shall be as follows:

- Raft footing -50mm
- Columns-40mm
- Retaining wall-30mm
- Lift shear wall-25mm
- Beams-30mm
- Slabs-25mm.


PRINCIPAL
SIET. TUMKUR.



FIG 5.6(b) REINFORCING OF SLABS