



Sri Shridevi Charitable Trust (R.)

ESTD: 2002

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sira Road, TUMKUR - 572 106, Karnataka, India.

Phone: 0816-2212629 | Principal: 0816-2212627, 9686114899 | Telefax: 0816-2212628

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



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

Ref: SIET/CV/NT/2022-2023/ 38

Date: 29/08/2022

To.

Mr. Chidanand Ranganath
Managing Director
Shree Builders
Tumkur 572 101.

Subject: Permission to carry out internship reg...

Dear sir,

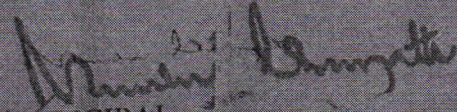
At the outset, we express our heartfelt thanks for permitting the following student to complete the internship at your esteemed organization.

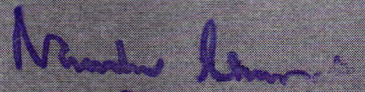
Sl. No	Name of the Student	USN	Mobile No.	Email
1	Kushal F.	1SV19CV032	9900398479	kushal.1078@gmail.com

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.

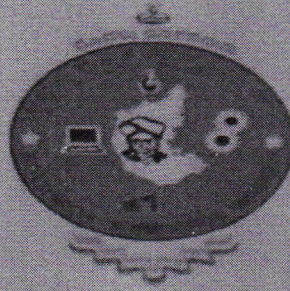
Yours


PRINCIPAL


PRINCIPAL
SIET, TUMKUR.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JNANA SANGAMA", BELAGAVI-590018



INTERNSHIP REPORT

on

"ESTIMATION AND SEQUENCE OF CONSTRUCTION"

Submitted in partial fulfilment for the award

**BACHELOR OF ENGINEERING
IN
CIVIL ENGINEERING**

Submitted by:

**KUSHAL R
(ISV19CV032)**

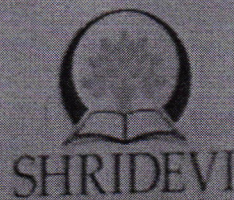
Under the guidance of

Internal Guide

**Ms. RADHIKA T N
Assistant Professor
Dept of Civil Engineering
SIET, Tumkur**

External Guide

**Mr. CHIDANAND RANGANATH
Managing Director
SHREE BUILDERS
TUMKUR**



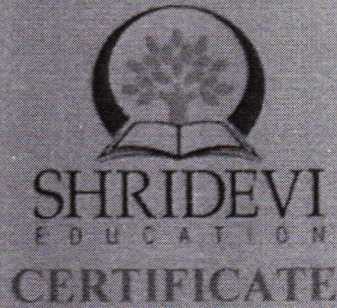
Manish Kumar
PRINCIPAL
SIET, TUMKUR.

**DEPARTMENT OF CIVIL ENGINEERING
SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY
SIRA ROAD, TUMAKUR - 572106**

2022-23

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sira Road, Tumkur -572106,
DEPARTMENT OF CIVIL ENGINEERING



This is to be certified that the report on Internship entitled "ESTIMATION AND SEQUENCE OF CONSTRUCTION" carried out by Ms. KUSHAL R (ISV19CV032) bonafide student of SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR in partial fulfillment for the award of degree Bachelor of Engineering in CIVIL ENGINEERING of VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the year 2022-2023. It is certified that all corrections / 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 the curriculum prescribed for the bachelor degree.

Signature of the Internal Guide

Ms. RADHIKA T N
Assistant Professor
SIET, Tumkur

Signature of the HOD

Dr. G. MAHESH KUMAR
Professor & HOD
Dept. of Civil Engineering
SIET, Tumkur

Signature of the External Guide

Mr. CHIDANAND RANGANATH
Managing Director
SHREE BUILDERS
Tumkur

Signature of the Principal

Dr. NARENDRA VISHWANATH
Principal, SIET, Tumkur

External viva-voce

Name of the Examiners

- 1) Manojendra T N.
- 2) S N Fathima

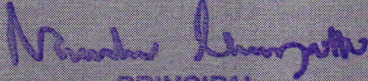
Signature with Date

- 1) [Signature] 7/23/23
- 2) [Signature]

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 laboratory/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 SHREE BUILDERS as one of the good project which offered us for internship. Hence, I am thankful for the Mr. Chidanand Ranganath MANAGING DIRECTOR, Tumkur.


PRINCIPAL
SIET, TUMKUR.

SHREE BUILDERS

GSTIN: 29AERT66405012M
Email: shreebuilders98@gmail.com
Phone: 982834032

Behind Katti Anjencya Swami Temple, Old Market Circle, Tumkuru-572101, Karnataka.

CERTIFICATE

This is certify that the project entitled is a bonafide work carried out by Mr Kushal R bearing USN-1SV19CV032, from Shridevi Institute of Engineering and Technology, Tumakuru-572106. She was a part of SHREE BUILDERS. As successfully completed his internship from 25th August 2022 to 17th September 2022.

During his period of internship program with us, He was found punctual and hardworking.

FOR SHREE BUILDERS

A. K. Choudhary

We wish every success in his career.

Proprietor

A. K. Choudhary
PRINCIPAL
SIET, TUMKUR.

1. Mix design ratio, for
 - a. For M25 – 1: 2.28: 3.27
 - b. For M30 – 1: 2: 2.87
2. Concrete is casted in two lifts.
3. It should not be casted from more than 5 feet high to avoid segregation.
4. Compaction is done by electrical needle vibrator.
5. Concreting will get expanded until the curing period, which is up to 45 days, so expansion joints are provided in between two columns to counter act the expansion of concrete in column which are concreted on different days.
6. Sizes of expansion should be 25mm.
7. Formwork is removed after 24 hours
8. Provide water for hydration reaction.
9. Increase the strength up to 2.5 times.
10. Done for 21 days.
11. Gunny bags are used for curing

Murthy Srinivasulu
PRINCIPAL
SIET, TUMKUR.

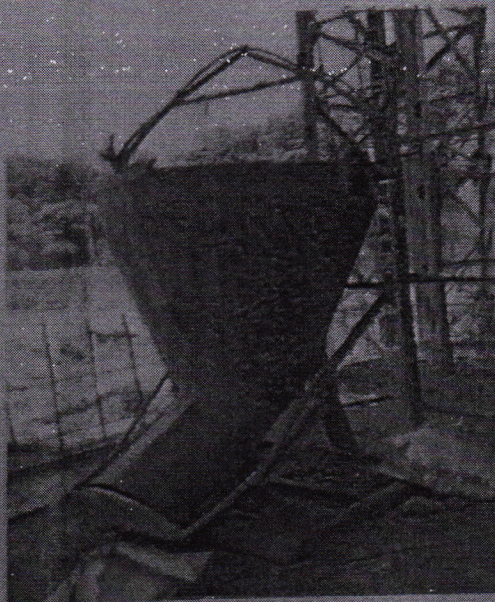


Fig 4.2.1 Concreting bucket

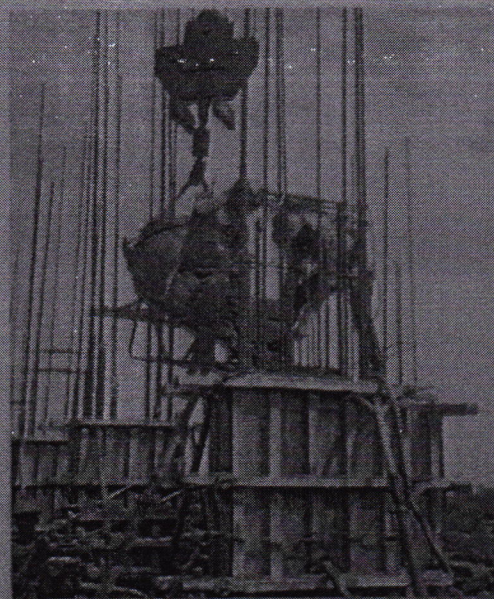


Fig 4.2.2 Concreting of column

4.1 Beam and slab de-shuttering

DE shuttering period for beam and slab is 3-7 days. Props are refixed after removal. Also, extra props are provided at the previous storey for support to counteract the forces acting during concreting in the cantilever portion. By hammering the shuttering down, the process of de- shuttering is completed. During this process, the shutter boards may fall down and injure people and hence we should follow the safety rules and avoid being in that area.

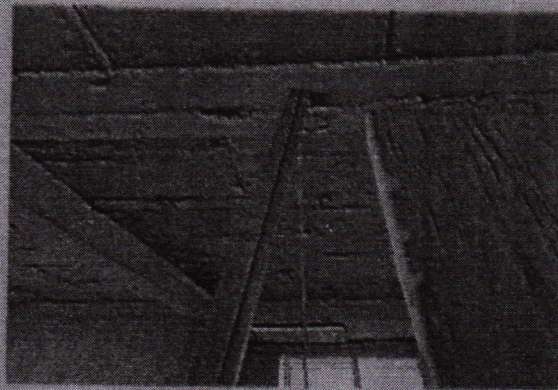


Fig 4.4.1 Slab after de-shuttering

4.4.1 Staircase concreting

A concrete bucket filled with concrete is lifted using the tower crane. Once it reaches the spot, it is poured into the staircase or pumped out if the pump is used. Then, the vibrator is used to push it down. Finally, with a trowel, the tread is made uniform.

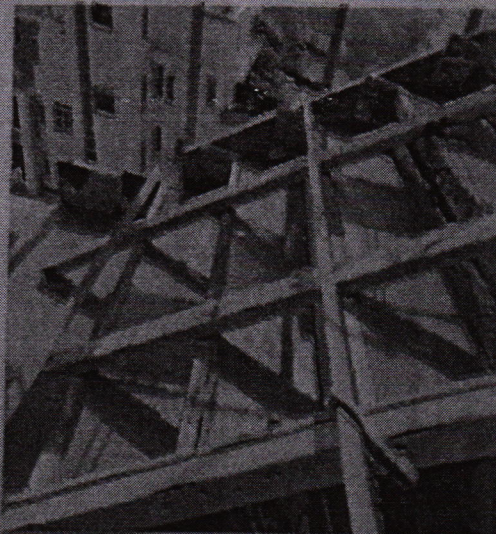


Fig 4.4.1.1 Staircase concreting

M. Srinivas Kumar
PRINCIPAL
SIET, TUMKUR.