



# SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

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

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

SHRIDEVI

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/INT/2022-2023/ 34

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	Surya M N	1SV19CV028	7406288034	suryamn601@gmail.com

In this regard, I am happy to permit the above student to carry out his internship from 29/08/2022 to 10/09/2022 in your esteemed organization & seek your co operation in completing his/her internship successfully.

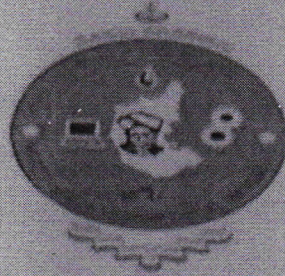
Thanking you & looking forward to your continuous support.

Yours

PRINCIPAL

  
PRINCIPAL  
SIET, TUMKUR.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
"JNANA SANGAMA", BELAGAVI-590018



INTERNSHIP REPORT

on

"TO IMPLEMENT THEORETICAL KNOWLEDGE INTO  
PRACTICAL FIELDS"

Submitted in partial fulfilment for the award

**BACHELOR OF ENGINEERING  
IN  
CIVIL ENGINEERING**

Submitted by:

**SURYA M N  
(1SV19CV028)**

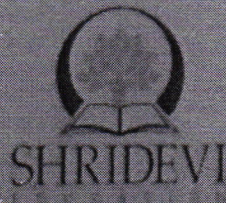
Under the guidance of

**Internal Guide**

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

**External Guide**

**Mr. CHIDANAND  
Assistant Engineer  
SHREE BUILDERS  
TUMKUR**

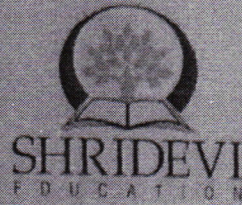


*Mr. Chidanand*  
PRINCIPAL  
SIET, TUMKUR.

**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



CERTIFICATE

This is to be certified that the report on Internship entitled "TO IMPLEMENT THEORETICAL KNOWLEDGE INTO PRACTICAL FIELDS" carried out by SURYA M N (ISV19CV028) 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

Dr. G. MAHESH KUMAR

Professor & HOD

Dept. of Civil Engineering

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

Assistant Engineer

SHREE BUILDERS

Tumkur

Signature of the Principal

Dr. NARENDRA VISHWANATH

Principal, SIET, Tumkur

PRINCIPAL  
SIET, TUMKUR.

External viva-voce

Name of the Examiners

1) Mangala H N.

2) S. N. Fathima

Signature with Date

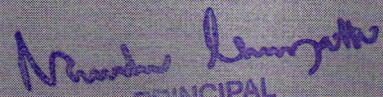
1) [Signature] 23/1/23

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 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 SHREE BUILDERS as one of the good company which offered us for internship. Hence, I am thankful for the CHIEF ENGINEER OF CHIDANAND RANGANATH, Tumkur.

  
PRINCIPAL  
SHREE BUILDERS  
TUMKUR.

# SHREE BUILDERS

ESTD: 2012

Email: shreebuilders@gmail.com

Phn: 9876543210

Address: Bangalore - Old Market Circle, Tumkur - 572101, Karnataka.

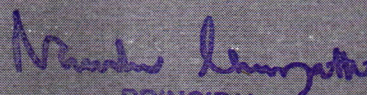
## CERTIFICATE

This is certify that the project entitled is a bonafide work carried out by Mr Surya M N bearing USN-1SV19CV028, from Shridevi Institute of Engineering and Technology, Tumakura-572106. He was a part of SHREE BUILDERS. As successfully completed his internship from 23<sup>rd</sup> August 2022 to 17<sup>th</sup> September 2022.

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

For SHREE BUILDERS

We wish every success in his career.



PRINCIPAL  
SIET, TUMKUR.

## AAC blocks shapes

- Lintel blocks, which are also referred to as U-shaped bond beam are available in thickness of 8, 10, and 12 inches.
- Tongue-and-groove AAC blocks or slabs are available in large sizes. These blocks are linked to adjacent units without the use of mortar at the vertical edges.
- Cored blocks are used in building vertical reinforced grout cells



Fig 3 AAC Blocks Shapes

AAC Block wall construction – 9m X 35m  
 AAC Block Size – 600mm X 200mm X 125mm  
 AAC Block Price – 92 Rupees(Per block)  
 1m<sup>3</sup> – 3700per

### Advantages of AAC Blocks

- Eco-Friendly and Sustainable.
- Lightweight. ...
- Thermally Insulated & Energy Efficient. ...
- Fire Resistant. ...
- Acoustic Performance. ...
- Easy Workability and Design Flexibility. ...

*N. Srinivas Kumar*  
 PRINCIPAL  
 SIET, TUMKUR.

## 2.6 CONCRETE SLAB

A concrete slab is a common structural element of modern buildings, consisting of a flat, horizontal surface made of cast concrete. Steel-reinforcement slabs typically between 100 and 500 mm thick are most often used to construct floors and ceilings while thinner mud slabs may be used.

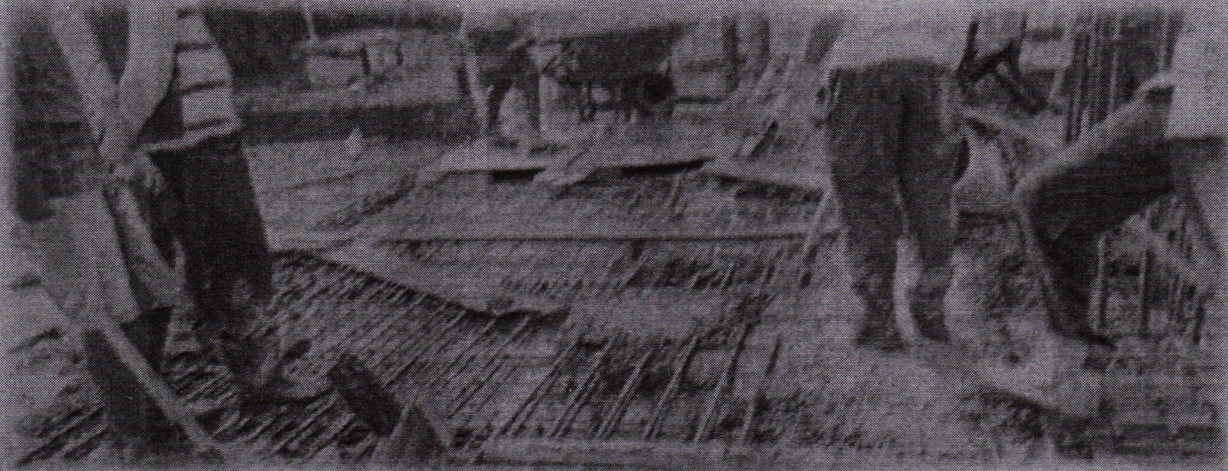


Fig 9 Concrete Slab

### Mixing proportion :

1:1.5:3

1 part of cement

1.5 portion of coarse aggregate

3 portion of fine aggregate

Thickness of the slab is decided based on span to depth ratio specified in IS 456-2000. Minimum reinforcement is 0.12% for HYSD bars and 0.15% for mild steel bars. The diameter of bar generally used in slabs are: 6 mm, 8 mm, 10 mm, 12mm and 16mm. The maximum diameter of bar used in slab should not exceed 1/8 of the total thickness of slab. Maximum spacing of main bar is restricted to 3 times effective depth or 300 mm whichever is less. For distribution bars the maximum spacing is specified as 5 times the effective depth or 450 mm whichever is less.

Minimum clear cover to reinforcements in slab depends on the durability criteria and this is specified in IS 456-200. Generally 15mm to 20mm cover is provided for the main reinforcements. Alternate main bars can be cranked near support or could be bent at  $180^\circ$  at the edge.

*Nandhu Kumar*  
PRINCIPAL  
SIET, TUMKUR.