

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
**“JNANA SANGAMA”, BELAGAVI – 590018 KARNATAKA**



**An Internship Report**  
**on**  
**“REINFORCEMENT DETAILS OF INDUSTRIAL BUILDINGS”**  
**Submitted in Partial Fulfillment of the Requirements for the Award of Degree of**  
**BACHELOR OF ENGINEERING**  
**IN**  
**CIVIL ENGINEERING**

**Submitted By:**  
**HANAMESH**  
**(1SV18CV015)**

**Internship Carried out**  
**at**  
**HNS INFRASTRUCTURE**

**Internal Guide**  
**Ms. NIRANJANI B**  
**Asst, Professor Dept of Civil Engineering**  
**SIET, Tumakur**



**DEPARTMENT OF CIVIL ENGINEERING**  
**SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**SIRA ROAD, TUMAKURU – 572106**  
**2021-2022**

# SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sira Road, Tumkur -572106,

## DEPARTMENT OF CIVIL ENGINEERING



### CERTIFICATE

This is to be certified that the report of Internship on topic entitled "~~RESIDENTIAL BUILDING OF REINFORCEMENT DETAILS~~" out Carried out by Mr. HANAMESH (USN: ISV18CV015) 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 2021-2022. It is certified that all corrections / Suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. 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 Guide

Mrs. NIRANJANI B  
Asst, Professor Dept of Civil  
Engineering  
SIET, Tumkur

  
Signature of the HOD

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

  
Signature of the Principal

Dr. NARENDRA VISWANATH  
Principal  
SIET, Tumkur

### External viva-voce

Name of Examiners  
1) Dr. C. Nagaraj  
2) Radhika T.D.

Signature with Date  
C. Nagaraj 12/5/22  
Radhika T.D.

TO  
THE CONCERNED  
DEPARTMENT OF CIVIL ENGINEERING  
SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
SIRA ROAD, TUMKUR.

Dear Sir/Madam

This is to inform that, **HANAMESH** bearing USN **15V18CV015** of Shridevi Institute Of Engineering And Technology, Tumkur. Studying in 7<sup>th</sup> semester BE(CIVIL) is undergone the Internship Training Program at our project "**REINFORCEMENT DETAILS OF INDUSTRIAL BUILDING**" from last 4 weeks i.e 1/09/2021 to 30/09/2021.

Date: 1/10/2021

HNS INFRA  
*B. S. S.*  
Signature  
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## ABSTRACT

Structural Steel is a common building material used throughout the construction industry. Its primary purpose is to form a skeleton for the structure, essentially the part of the structure that holds everything up and together. Steel is one of the friendliest environmental materials which is 100% recyclable. Structural design has evolved, mostly due to the necessity caused by earthquakes. By using the available ISMB steel sections the desired design requirements cannot be met, especially for the highly loaded structures, as the moment of inertia and cross sectional play major role. Reinforced concrete sections also carry the ultimate load but when the assembly is subjected to great height of about 50-60 meters it is unsuitable for the use of concreting processes, thus by using the fabricated structure it is easy to fabricate durable structure. However, like all innovations, technology breeds its own set of new problems.