



# SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

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



Ref: SIET/CV/INT//2022-2023/ 30

Date: 27/08/2022

To,

Mr. Byrappa  
Contractors  
Byrappa Construction Company  
Tumkur 572 101.

**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.

Sl. No	Name of the Student	USN	Mobile No.	Email
1	Rakesh Gowda T J	ISV19CV021	6360184614	rakirakesh93212@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

*[Signature]*  
PRINCIPAL

*[Signature]*  
PRINCIPAL  
SIET, TUMKUR.



VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Juana Sangama", Belagavi - 590018



An Internship Report

On

"CONSTRUCTION OF RESIDENTIAL BUILDING "

Submitted in partial fulfillment of the requirements for the award of degree of  
BACHELOR OF ENGINEERING IN CIVIL ENGINEERING

Submitted by:

RAKESH GOWDA T J

(ISVI9CV021)

Internship was carried out at

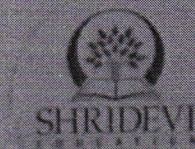
GRYC Constructions, First floor, kanchi complex, MG road,  
Gubbi-572216

INTERNAL GUIDE

Mrs. Radhika T N. M Tech  
Assistant Professor,  
Dept of Civil Engineering

EXTERNAL GUIDE

Mr. Raghuchandra G  
Chief Engineer  
GRYC Constructions Tumakuru



*N. S. Srinivas*  
PRINCIPAL  
SIET, TUMKUR.

DEPARTMENT OF CIVIL ENGINEERING

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY (An ISO 9001:2015 Certified  
Institution) TUMKUR - 572106, KARNATAKA (2022-2023)



# SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An ISO 9001: 2015 Certified Institution) Sirsi Road, Tumkuru-572106

## DEPARTMENT OF CIVIL ENGINEERING



### CERTIFICATE

This is to certify that this internship report of topic entitled " CONSTRUCTION OF RESIDENTIAL BUILDING " has been carried out by Mr. RAKESH GOWDA T J bearing USN: 1SV19CV021 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 internship topic prescribed for the Bachelor of Engineering.

Signature of Internal Guide

Mrs. RADHIKA T.N., M.Tech

Assistant Professor

Dept. of Civil Engineering

Signature of HOD

Dr. G. MAHESH KUMAR, PhD

Professor & Head of Department

Dept. of Civil Engineering

External Viva Voce:

Name of the Examiners

- 1) Mangana H.N.
- 2) S.N. Fatima

Signature of External Guide

Mr. RAGHU CHANDRA G

Chief Engineer

GRYC constructions, Gubbi-572216

Signature of Principal

Dr. NARENDRA VISWANATHI.

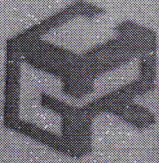
Principal

SIET, Tumakuru

PRINCIPAL  
SIET, TUMKUR.

Signature with date





# GRYC CONSTRUCTIONS PRIVATE LIMITED

DIN: 18/0000922 (MIS) 30752  
BENEFIT CHIAK 100 TADIBAT 23  
17 FLOOR THREE KANCHI COMPLEX  
BEHIND SIVA MEDICALS ROAD  
GUBBI, TUMKUR, KARNATAKA 572214

Date: 02/05/2023

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **RAKESH GOWDA T J (ISV19CV021)** of B.E. Civil Engineering student of **SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, Tumakuru** has successfully completed internship on (Date: 22/08/2022 -17/09/2022) "Construction of Residential Building" at **GRYC CONSTRUCTIONS Pvt Ltd, Gubbi**. During this period of his internship program with us he was found punctual, hardworking and inquisitive.

We wish him all the best for future endeavors

For **GRYC CONSTRUCTIONS Pvt Ltd**

For **GRYC CONSTRUCTIONS PVT. LTD.,**

*Raghubandhu*  
(**RAGHU CHANDRA G.**)  
DIRECTOR

Authorized signature

*M. Srinivas*  
PRINCIPAL  
Sic. I. TUMKUR.



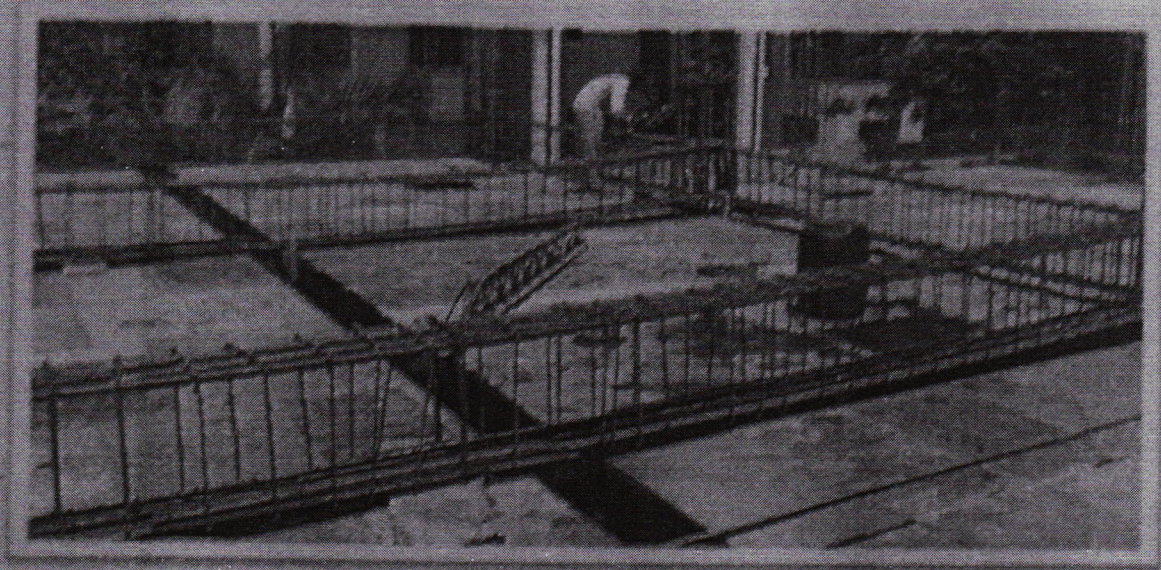
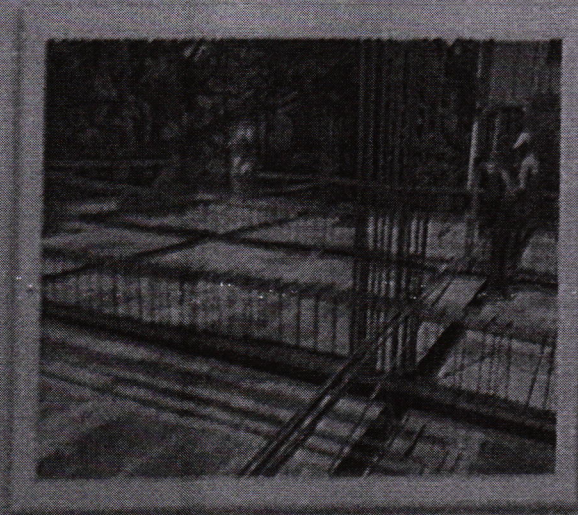


Fig: 6.3a Beam Reinforcement



6.3b Beam Reinforcement

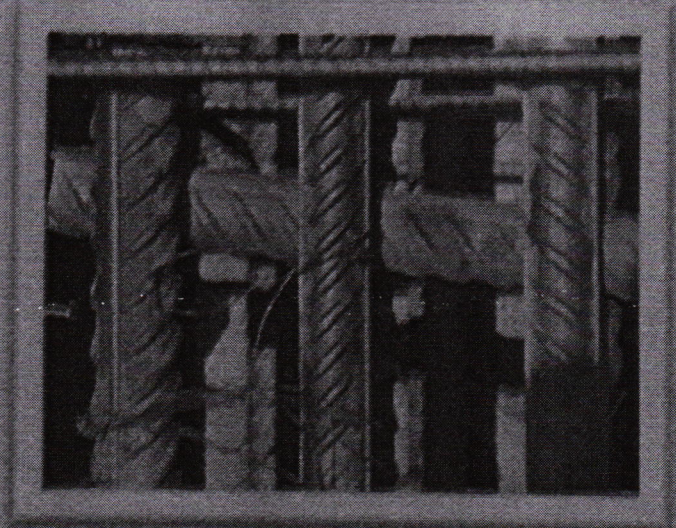
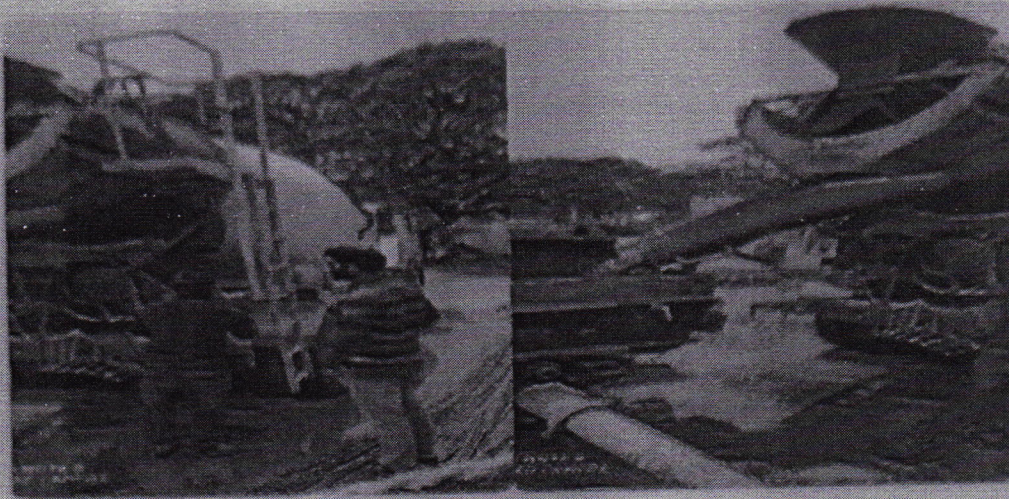


Fig:6.3c spacer/pin bar

*Murthy Srinivas*  
PRINCIPAL  
SIET, TUMKUR.





### 8.3 Needle Vibrator :

Immersion or needle Vibrators are most commonly used vibrator for concrete. It consists of a steel tube (with one end closed and rounded) having an eccentric vibrating element inside it. This steel tube called poker is connected to an electric motor or a diesel engine through a flexible tube. They are available in size varying from 40 to 100mm diameter. The diameter of the poker is decided from the consideration of the spacing between the reinforcement bars in the form-work. The frequency of vibration varies up to 15000rpm. However range between 3000 to 6000 rpm is suggested as a desirable minimum with an acceleration of 4g to 10g.



Fig8.3 Needle vibrator

*M. Srinivas Kumar*  
PRINCIPAL  
S.I.E.T. TUMKUR.