



# SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

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



Phone: 0816 2212629 | Principal: 916 2212627, 9686114000 | Telefax: 0816 2212628  
 Email: [info@shrideviengineering.org](mailto:info@shrideviengineering.org), [principal@shrideviengineering.org](mailto:principal@shrideviengineering.org) | Website: [www.shrideviengineering.org](http://www.shrideviengineering.org)  
 Approved by AICTE, New Delhi. Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi.

Ref: SI/TA/VINT/2022-2023/14

Date: 21/08/2022

To,

Mr. Sharath P  
 Chief Executive Engineer  
 Buildwick Engineers and Developers  
 Tumkur 572101

**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	Anithalakshmi	1SV19CV004	9380574027	anithagowda07240@gmail.com

In this regard, I am happy to permit the above student to carry out his internship from 21/08/2022 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

*M. Srinivas Kumar*  
 PRINCIPAL  
 SIET, TUMKUR.



VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
"JNANA SANGAMA", BELAGAVI-590018



INTERNSHIP REPORT

on

"PROPOSED CONSTRUCTION OF PILE FOUNDATION BRIDGE"

Submitted in partial fulfilment for the award

**BACHELOR OF ENGINEERING  
IN  
CIVIL ENGINEERING**

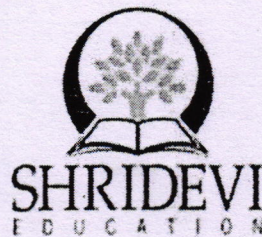
Submitted by:

**ANITHALAKSHMI  
(1SV19CV004)**

Under the guidance of

**Internal Guide**  
**Mrs. RADHIKA T N**  
Assistant Professor  
Dept of Civil Engineering  
SIET, Tumkur

**External Guide**  
**Mr. PRADEEP KUMAR**  
PWD Engineer  
Construction of bridge  
Tumkur



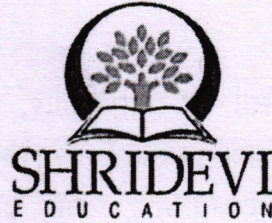
*Pradeep Kumar*  
PRINCIPAL  
S.I.E.T. TUMKUR.

**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 "PROPOSED CONSTRUCTION OF PILE FOUNDATION BRIDGE TUMKUR" carried out by Ms. ANITHALAKSHMI (ISV19CV004) 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

*Radhika T.N.*  
Signature of the Internal Guide

**Mrs. RADHIKA T. N**

**Assistant Professor**

**SIET, Tumkur**

Signature of the HOD

**Dr. G. MAHESH KUMAR**

**Professor & HOD**

**Dept. of Civil Engineering**

**SIET, Tumkur**

*Narendra Vishwanath*  
**PRINCIPAL**  
**SIET. TUMKUR.**

Signature of the External Guide

**Mr. PRADEEP KUMAR**

**PWD Engineer**

**Construction of brdge ,  
Tumkur**

Signature of the Principal

**Dr. NARENDRA VISHWANATH**

**Principal, SIET, Tumkur**

**External viva-voce**

**Name of the Examiners**

- 1) Dr. C. Nagaraj
- 2) S. N. Fatima

**Signature with Date**

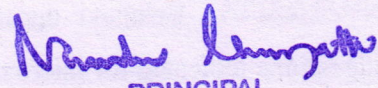
- 1) C. Nagaraj 22/5/23
- 2) S. N. Fatima 22/5/23



### 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 **PROPOSED CONSTRUCTION OF PILE FOUNDATION BRIDGE** as one of a good project which offered us for internship. Hence, I am thankful for the **CHIEF ENGINEER,** , TUMKUR.

  
PRINCIPAL  
SIET, TUMKUR.





GOVERNMENT OF KARNATAKA

TELEPHONE : 0816-2095661

OFFICE OF THE ASSISTANT EXECUTIVE ENGINEER  
PWD TUMKUR URBAN SUB-DIVISION,  
TUMKUR - 572101.

Email: [acepwdto@ntmk@gmail.com](mailto:acepwdto@ntmk@gmail.com)

Ref No: AEE/PWD/TOWH/TMK/INTERNSHIP/2023-24 / 113

Date: 21/04/2023

TO WHOME SOEVER IT MAY CONCERN.

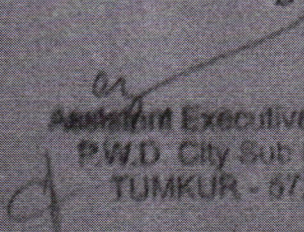
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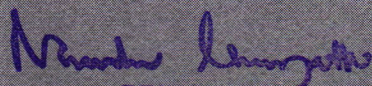
This is to certify that, Mis Anilha Lakshmi (USN: 19V19CV004) Undergoing B.E. 2<sup>nd</sup> Sem Civil Engineering from Sri Shridevi Institute of Engineer Technology has successfully completed his internship at Public Works Department Tumkur Urban Sub Division, Kunigal Road, Tumkur as per his curriculum requirement from 28<sup>th</sup> August 2022 to 10<sup>th</sup> September 2022.

She has been found sincere and hard working to the best of our knowledge & satisfaction during his tenure over here.

We wish him all the best for his future endeavors.

Authorized Signature

  
Assistant Executive Engineer  
P.W.D. City Sub Division,  
TUMKUR - 572 102.

  
PRINCIPAL  
SIET, TUMKUR.



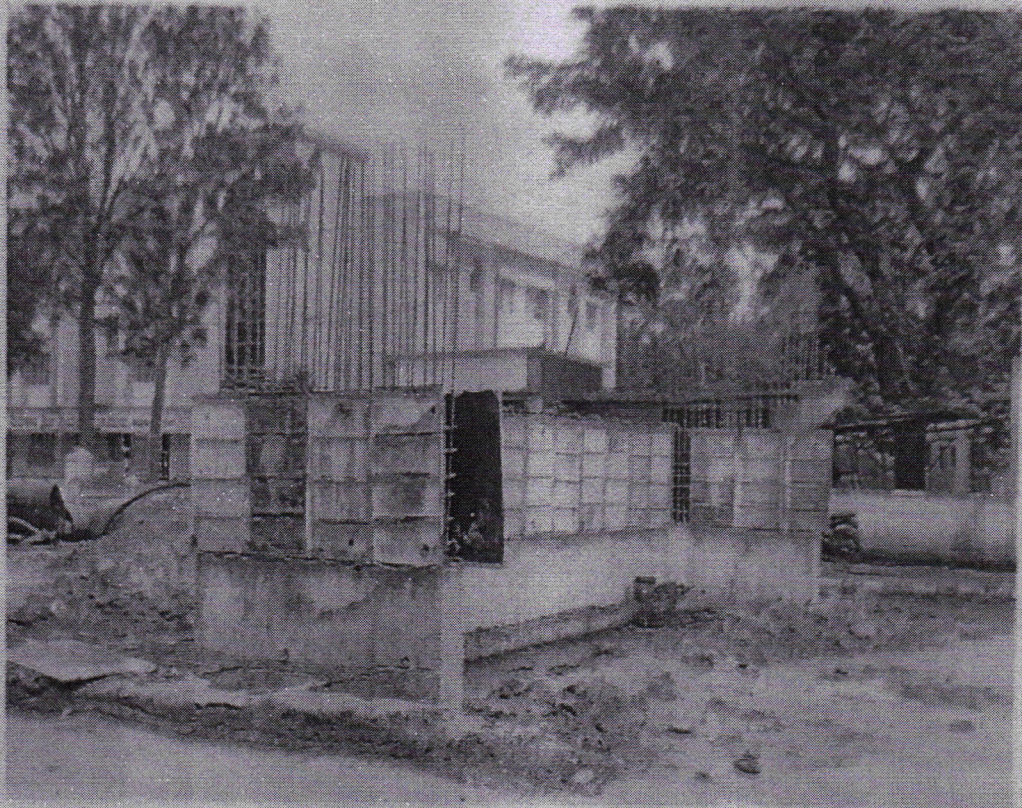


Fig.6: **STATIC PILE LOAD TEST:**

Static load tests on foundation piles are generally carried out in order to determine load displacement characteristics.

#### IMPORTANCE:


- The Static Loading Test (SLT) is the most definitive method of determining load capacity of a pile.
- Testing a pile to failure provides valuable information to the design engineer for recommendation prior to foundation design.
- The test permits the selection of both the optimum pile foundation and the design load.

The SLT may be carried out for the following load configurations:

- Axial compression (ASTM D1143)
- Axial tension (ASTM D3689)
- Lateral (ASTM D3966)

Requirements for Static Load Tests are:

- Detailed subsurface information program
- Well-defined soil stratigraphy
- Static capacity calculations to select pile type, length, and load test locations

  
PRINCIPAL  
SIET, TUMKUR.