

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JNANA SANGAMA", BELGAUM-590014

KARNATAKA



A DISSERTATION ON

“READY MIX CONCRETE”

Submitted in partial fulfilment of the requirements for the award of degree of

BACHELOR OF ENGINEERING

IN

CIVIL ENGINEERING

Submitted by

VISHWANATHA H P

(USN: 1SV18CV036)

Under the Guidance of

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DEPARTMENT OF CIVIL ENGINEERING

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

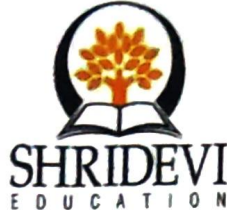
Sira Road, Tumkur-572106

2021-2022

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sira Road, Tumkur -572106,

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

This is to be certified that the internship work entitled "READY MIX CONCRETE" Carried out by Mr. VISHWANATHA H P (USN: 1SV18CV036) 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.

Radhika T.N.
22/7/22

Signature of the Guide

Mrs. RADHIKA T N
Asst. Professor
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G. Mahesh Kumar

Signature of the HOD

Dr.G.MAHESH KUMAR
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VIVA VOCE

1. Dr. C. Nagaraja
2. RADHIKA T.N.

SIGNATURE OF EXTERNALS

.....C. Nagaraja.....
.....Radhika T.N......

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

Dear Sir/Madam

This is to inform that, **VISHWANATHA H P** bearing USN 15V18CV036 of Shridevi Institute Of Engineering And Technology, Tumkur. Studying in 7th semester BE(CIVIL) is undergone the Internship Training Program at our project " **READY MIX CONCRETE** " from last 4 weeks i.e 1/09/2021 to 30/09/2021.

Date: 1/10/2021

For HNS INFRA

Binku S.S.

Signature
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Abstract

Concrete is one of the major components of a structure, particularly a multistoried structure, where in it accounts for 30% - 50% of the total cost. The quality of concrete has also a very direct bearing on the strength & durability of the structure as a whole. It is in this context that RMC assumes relevance.

RMC is a specialized material in which the cement aggregates and other ingredients are weighed-batched at a plant in a central mixer or truck mixer, before delivery to the construction site in a condition ready for placing by the builder. Thus, 'fresh' concrete is manufactured in a plant away from the construction site and transported within the requisite journey time. The RMC supplier provides two services, firstly one of processing the materials for making fresh concrete and secondly, of transporting a product within a short time. This enables the places of manufacture and use of concrete being separated and linked by suitable transport operation. This technique is useful in congested sites or at diverse work places and saves the consumer from the botheration of procurement, storage and handling of concrete materials. Ready mix concrete is produced under factory conditions and permits a close control of all operations of manufacture and transportation of fresh concrete. Due to its durability, low cost and its ability to be customized for different applications, ready mix concrete is one of the most versatile and popular building materials.

RMC is usually ordered in units of cubic yards or meters. The use of the RMC is facilitated through a truck-mounted 'boom placer' that can pump the product for ready use at multi-storied construction sites. A boom placer can pump the concrete up to 80 meters. It must remain in motion until it is ready to be poured, or the cement may begin to solidify. The RMC concrete is generally released from the hopper in a relatively steady stream through a tough system. Workers use shovels and hoes to push the concrete into place.