

# ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ

## Bangalore University



FOR QUALITY & EXCELLENCE  
IN HIGHER EDUCATION



Accredited by NAAC

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಪತಿ, ಸಹಕುಲಪತಿ

We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor  
ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತನ ಸದಸ್ಯರಾದ ನಾವು  
the members of the Syndicate & Academic Council

Certify that

*Chandrasekhar N* .....ಅವರು

ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರಮೇಶ ಪದೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ

*has been duly admitted to the Degree of*

*ಡಾಕ್ಟರ್ ಅಫ್ ಫಿಲೋಸಾಫಿ*

*Doctor of Philosophy*

*(Faculty Of Science - Chemistry)*

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತಾನ್ವಯವರೆಂದು ಪರಿಗಣತವಾಗಿರುವ ಕಾರಣ

*in recognition of the fulfilment of requirements*

ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ  
*for the said degree as indicated below*

ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ: .....2010.....

*Year of Award:*

ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ಶೀರ್ಷಿಕ: "Bioremediation of  
Subject: Polycyclic Aromatic Hydrocarbons"

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯಾಡನ ನೀಡಲಾಗಿದೆ

*Given under the seal of the University*

ಬೆಂಗಳೂರು

Bangalore:

ದಿನಾಂಕ

30.04.2010

Date:

Vice-Chancellor

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA



*This is to certify that*

**C NAGARAJA**

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

*Faculty of Civil Engineering Sciences*

*for the thesis entitled*

*Flexural Behaviour of RC Beams Strengthened With High  
Performance Repair Materials*

*in recognition of the fulfillment of requirements  
for the said degree*

**PH 19 000349** Given under the seal of the University

**USN: 1SI08PCM01**



A handwritten signature of the Vice Chancellor over a printed title.  
**VICE CHANCELLOR**

**BELAGAVI**

**DATE : Feb 08, 2020**

A handwritten signature of the Principal over a printed title.  
PRINCIPAL  
SIET, TUMAKURU.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM  
KARNATAKA, INDIA



*This is to certify that*

✓ *Chandrappa C P*  
*has been conferred the Degree of*  
**Doctor of Philosophy**

*in*

*Faculty of Applied Sciences (Biotechnology)*

*for the thesis entitled*

*Extraction, Characterization and molecular Mechanism of  
Antitumor Agents from Plants*

*in recognition of the fulfillment of requirements  
for the said degree*

PH  
13 000424

Given under the seal of the University

USN: 1SV09PGM01



*Munir Lakkappa*  
PRINCIPAL

*Chethan*,  
VICE CHANCELLOR

BELGAUM  
DATE : MAY 09, 2015

# ಗುಲಬಗಾಂ ವಿಶ್ವವಿದ್ಯಾಲಯ

## Gulbarga



## University

ಮೂವತ್ತಾರನೆಯ ವಾರ್ಷಿಕ ಘಟಕೋತ್ಸವ

Kalaburagi

The Thirty Sixth Annual Convocation

ಗುಲಬಗಾಂ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತು  
ಮತ್ತು ಸಿಂಡಿಕೇಟಿನ ಸದಸ್ಯರಾದ ನಾವು

ಕೆಶೋರ ಕುಮಾರ ಎಂ.ಕೆ.

ಅವರು ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ ಪದವಿಗೆ ಡಿಸೆಂಬರ್, 2017 ರಲ್ಲಿ ಅರ್ಹರಾದುದರಿಂದ ಅವರಿಗೆ

**ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ  
(ಗಣಿತಶಾಸ್ತ್ರ)**

ಪದವಿಯನ್ನು ಕಲಬುರಗಿಯಲ್ಲಿ 27ನೇ ಫೆಬ್ರವರಿ, ಎರಡು ಸಾವಿರದ ಹದಿನೆಂಟರಂದು ನೀಡಿದ್ದೇವೆ.  
ಈ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮುದ್ರೆ ಮತ್ತು ಕುಲಪತಿಗಳ ರುಚಾಗಳಿಂದ ಇದನ್ನು ಪ್ರಮಾಣೀಕರಿಸಲಾಗಿದೆ.



We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor and Members of the Academic Council and Syndicate of Gulbarga University certify that

**Kishor Kumar M.K.**

has been found duly qualified in December, 2017 for the award of the degree of Doctor of Philosophy. Hence, the degree of

**DOCTOR OF PHILOSOPHY  
(Mathematics)**

has been conferred on him/her at Kalaburagi on  
27<sup>th</sup> February, Two Thousand Eighteen.

In testimony whereof are set the seal of the said University and the signature of the Vice-Chancellor.

ಕಲಬಗಾಂ  
Kalaburagi

ದಿನಾಂಕ/Date: 27-02-2018



S.R.L  
ಕುಲಪತಿ

Vice-Chancellor

**Sri Siddhartha Academy Of Higher Education**



(DEEMED TO BE UNIVERSITY)

Declared u/s 3 of the UGC Act, 1956, MHRD GOI No. F.9-31/2006-U.3 (A) dated: 30/05/2008

KARNATAKA

Accredited 'A' Grade by NAAC

We, the Chancellor, the Vice-Chancellor and the members  
of the Board of Management and Academic council confer

**DOCTOR OF PHILOSOPHY****MATHEMATICS***On***CHETANA C**

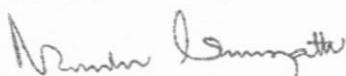
*In recognition of fulfillment of the requirements for the said  
Doctoral Degree in the examination held during July 2018*

*Given under the seal of the University, in the**7<sup>th</sup> Convocation held on 8<sup>th</sup> September 2018*

**Title of Thesis: "Advances in Soft Minimal Open and Soft Maximal Open Sets  
in Soft Topological Spaces"**




Vice-Chancellor



PRINCIPAL  
SIET, TUMAKURU.Reg.No. **13PH2MA001**

Tumkur, Karnataka

Date: **08.09.2018**College: **SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMKUR**AADHAR No. **969813175826**

# Sri Krishnadevaraya University



## Faculty of Arts

Sri Krishnadevaraya University hereby confers the degree of

Doctor of Philosophy

on K.S. Rama Krishna

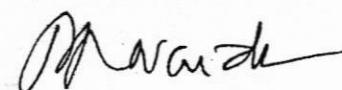
in recognition of his/her research work on "Irrigation and Rural development : A study of Krishnaraja Sagar Project."

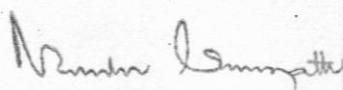
in the department of Rural Development

he/she having been found duly qualified for the same in 1994

Anantapur

The 3 MARCH 1996 19

  
Vice-Chancellor

  
PRINCIPAL  
SIET., TUMAKURU.

69

ಗುಲಬರ್ಗ ವಿಶ್ವವಿದ್ಯಾಲಯ  
Gulbarga University



ಗುಲಬರ್ಗ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಕರಿ, ಸಹಾಯಕಾರಿಗಳಿಗೆ, ಪುಸ್ತಕ ಮತ್ತು  
ಕಿಟ್ಟು ವಿಷಯಕ ಪರಿಚಯ ಮತ್ತು ಸಿಂಗಿಲೇಚಿನ ಸದಸ್ಯರಿಗೆ ನಾವು

ನಾದಾತೀವಯ್ಯ ಹಿ. ಜಿ.

ಅವರು ಡಾಕ್ಟರ್ ಅಫ್ ಫಿಲೋಸಾಫಿ ಡಾಕ್ಟರ್ ಇಲ್ಯು 2012 ರಲ್ಲಿ ಲಾಂಕಾಡ್ಯಾಕ್ಟಿಂಡ್ ಅವರಿಗೆ

ಡಾಕ್ಟರ್ ಅಫ್ ಫಿಲೋಸಾಫಿ

(ಭಾಂಡಾಸ್ತ್ರೆ)

ಪದ್ಧತಿಯನ್ನು ಗುಲಬರ್ಗದಲ್ಲಿ ೨೦೧೨ ಮಾರ್ಚ್ ಏಷ್ಟು ನಾಿಕಾರಿಗಳ ಕುಲಾಧಿಕರಿಗಳಿಗೆ  
ಉತ್ಸಾಹದಿಂದ ಮತ್ತು ಪ್ರಾಣಿಕ ರೂಪಗಳಿಂದ ಇದನ್ನು ಘೂಷಣಾಕ್ರಿಯಾಗಿ

We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor and Members of the  
Academic Council and Syndicate of Gulbarga University certify that

*Sadashivaiyah P. J.*

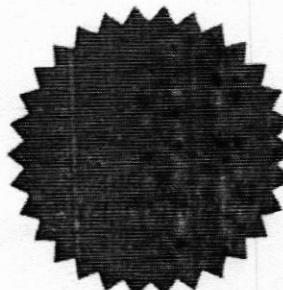
has been found duly qualified in July, 2012 for the award of the  
degree of Doctor of Philosophy. Hence the degree of

**DOCTOR OF PHILOSOPHY**

(Physics)

has been conferred on him at Gulbarga  
on the 6th day of the month of March in the year Two Thousand Thirteen.  
In testimony whereof are set the seal of the said University and the signature of the Vice-Chancellor.

ನಾದಾತೀವ  
Gulbarga  
ರಿಂದಿ : 6-3-2013  
Date : 6-3-2013



ಕುಂಬಾಜ್  
Vice-chancellor

PRINCIPAL  
SIET., TUMAKURU.

# ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ

## Bangalore University



FOR QUALITY & EXCELLENCE  
IN HIGHER EDUCATION



Accredited by NAAC

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಪತಿ, ಸಹಕಾರಾತ್ಮಕ  
We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor  
ಕುಲಪತಿ, ನಿಂದಣ್ಯ ಮತ್ತು ವಿದ್ಯಾರ್ಥಿರಿಂದ ಪ್ರಾಣಿನ ಸದಸ್ಯರಾದ ನಾವು  
the members of the Syndicate & Academic Council

Certify that

*S. M. Sharshidhara* .....ಅವರು

ಯಥಾಯಾಗುವುದು ಕಾಗಳು ಪ್ರತಿ ಪಡವಿರುವರಂಥು ದೃಢೀರಂಜು

has been duly admitted to the Degree of

ಡಾಕ್ಟರ್ ಅಥ ಫಿಲೋಸಫಿ

Doctor of Philosophy

(Faculty Of Engineering-Mechanical Engineering)

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಜಣತ್ವಾನುಷ್ಠಾನದಂತು ಪಂಗಡತವಾಗಿರುವ ಕಾರಣ

in recognition of the fulfilment of requirements

ಮೇರ ಕಾಣಿಕದರ್ಶಕವಾಗಿ ಅವರನ್ನು ಅಂಗೀಕಾರಿಸಿದ್ದು. ಈ ಪದವಿಯು ನಿರ್ವಹಣೆ ಹಿಂದಿನ

for the said degree as indicated below

ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ: .....2002.....

Year of Award:

ಸಂಶೋಧನೆ ಪ್ರಬಂಧದ ಶೀರ್ಷಕ : "Development and Property  
Subject: evaluation of CO<sub>2</sub>-Sand Cast Aluminum  
7075-Corundum particulate composite"

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯಾದನ ನೀಡಲಾಗಿದೆ

Given under the seal of the University.

Signature:

ದಿನಾಂಕ

Date: 24.01.2003

S. O. C. S. L. / 11/1/03

Vice-Chancellor

ಕುಲಪತಿ

*Munirunnisa*

PRINCIPAL  
SIET., TUMAKURU.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM

KARNATAKA, INDIA



Sl. No. 11-5

This is to certify that

Mahesh Kumar G

has been conferred the Degree of

Doctor of Philosophy

in

Faculty of Civil Engineering Sciences

for the thesis entitled

Effect of Fines Content on the Cyclic Response of  
Sandy Soil

in recognition of the fulfillment of requirements  
for the said degree

PH  
13

000267

Given under the seal of the University

USN: 1SI05PCM01



BELGAUM

DATE : MAY 20, 2014

Niruji Lingayath  
PRINCIPAL

Signature of the Vice Chancellor  
VICE CHANCELLOR

graheshbora 4/23

ವಿಶ್ವೇಶವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ  
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA

*This is to certify that*

**CHARAN K V**

*has been conferred the*

*Integrated Dual Degree*

*with*

**Master of Technology**

*in*

*Computer Network & Engineering*

*and*

**Doctor of Philosophy**

*in*

*Faculty of Computer & Information Sciences*

*for the thesis entitled*

*Enhancing Real-Time Capability in Automatic Memory Management and  
Task Scheduling Algorithms for Real Time Multiprocessor Systems*

*in recognition of the fulfillment of requirements for the said degree*

IDMP  
16

00456

Given under the seal of the University

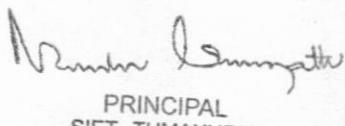
USN: 6SI12SCN01



  
VICE CHANCELLOR

BELAGAVI

DATE : March 18, 2019

  
PRINCIPAL  
SIET., TUMAKURU.

Scanned by CamScanner

PHD/0784

/PHD/0784

No. 0504948

Roll No.

En. No.

# बुन्देलखण्ड विश्वविद्यालय BUNDELKHAND UNIVERSITY



## विद्या – वाचरस्पति

प्रमाणित किया जाता है कि देवकी बी एस  
 को इस विश्वविद्यालय से डिलेक्ट्रोनिक्स एण्ड कम्यूनिकेशन विषय पर<sup>1</sup>  
 विद्या-वाचरस्पति की उपाधि क्र. २०१३ में प्रदान की गयी।  
 उक्त उपाधि के लिए आपने जिन विषय पर मैलिक प्रबन्ध प्रस्तुत किया।

**“RECONFIGURABLE PLC COMMUNICATION SYSTEM FOR  
DISTRIBUTED EMBEDDED SYSTEM”**

## Doctor of Philosophy

This is to certify that DEVAKI B S  
 has been admitted to the Degree of Doctor of Philosophy  
 in Electronic & Communications in the University in 2013  
 The subject on which he/she presented a Thesis for the  
 Degree was “RECONFIGURABLE PLC COMMUNICATION  
SYSTEM FOR DISTRIBUTED EMBEDDED SYSTEM”

Bundelkhand University  
 बुन्देलखण्ड विश्वविद्यालय  
 फैज़ाल अब्दुल जाफ़री ३८, झज्जूरी UP 284128  
 21-Jun-2013

PRINCIPAL  
 SIET., TUMAKURU.

Checker: P. D. S.

Checker: A. R.

N. H. Chaitanya

कुलसंचिव  
Registrar

S. Venkateswaran

कुलपति  
Vice-Chancellor

THE UNIVERSITY OF ALBERTA  
CERTIFIES BY THIS DOCUMENT TO ALL WHOM IT MAY CONCERN THAT

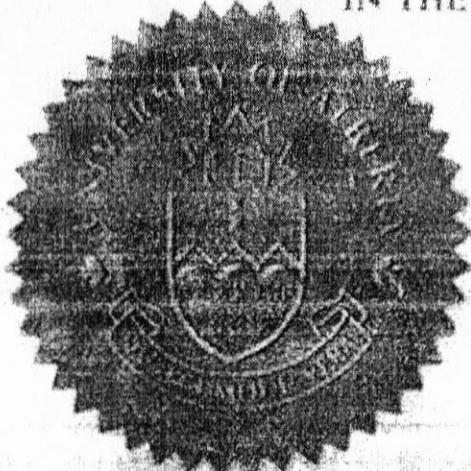
NARENDRA VISWANATH

HAVING SATISFACTORILY COMPLETED ALL THE STATUTORY REQUIREMENTS  
HAS BEEN GRANTED THE DEGREE OF

DOCTOR OF PHILOSOPHY  
IN MECHANICAL ENGINEERING

AND AWARDED ALL THE RIGHTS AND PRIVILEGES PERTAINING TO THIS DEGREE.  
IN TESTIMONY WHEREOF ARE APPENDED THE SIGNATURES OF THE CHANCELLOR,  
THE CHAIR OF THE BOARD OF GOVERNORS, THE PRESIDENT, AND THE REGISTRAR  
OF THIS UNIVERSITY, TOGETHER WITH THE COMMON SEAL OF THE SAME.

GIVEN AT THIS UNIVERSITY ON THE NINETEENTH DAY OF NOVEMBER,  
ONE THOUSAND NINE HUNDRED AND NINETY-TWO  
IN THE EIGHTY-SIXTH YEAR OF THE UNIVERSITY OF ALBERTA.



*Paul Desyat*

PRESIDENT

*S. G. C. V.*

CHANCELLOR

*Brian J. Sitzer*

REGISTRAR

*A. C. M. Blaauw*

CHAIR OF THE BOARD

*M. Venkateswaran*

PRINCIPAL  
SIET, TUMAKURU.

JUC 100037

JGI

**JAIN**

DEEMED-TO-BE UNIVERSITY

Declared as Deemed-to-be University u/s 3 of the UGC Act, 1956  
vide MHRD Notification No. F-9-57/2007-U9(A)

We, the Chancellor, Vice Chancellor,  
Members of the Board of Management &  
Academic Council certify that

*Lokesh B S*

having been examined in June 2020  
with Reg. No. 14PPECE015  
has been conferred with the Degree of

**DOCTOR OF PHILOSOPHY**  
*in Electronics Engineering*

by Jain (Deemed-to-be University), Bengaluru  
on the 23<sup>rd</sup> day of the month of January 2021.

In Testimony whereof are set the seal of the  
said University and the signature of the  
said Vice Chancellor

*[Signature]*  
PRINCIPAL  
SIET., TUMAKURU.

Date : 23.01.2021

Vice Chancellor

*Raj Singh*



**जैन**

अभिभावत पात्र विश्वविद्यालय

विश्वविद्यालय भेटुदान आदेश अधिनियम, 1956 के अनुसार यकृत संसाधन विकास मंत्रालय की  
आधिकारिक संख्या एफ. 9-57/2007- यू. 3(ए) के द्वारा अभिभावत पात्र विश्वविद्यालय के रूप में घोषित

हम, कुलाधिपति, कुलपति, प्रबन्धन  
समिति एवं शैक्षिक परिषद् के सदस्य  
प्रमाणित करते हैं कि

लोकेश बी एस

जिनकी पंजीयन संख्या 14PPECE015 है,  
जून - २०२० के परीक्षाप्रारंत

पीएच. डी.  
विद्युन्मान अभियांत्रिकी

की उपाधि में उत्तीर्ण हए।  
जैन (अभिभावत पात्र विश्वविद्यालय), बैंगलूरु की ओर से  
दिनांक २३ जनवरी २०२१ को इन्हें यह उपाधि  
प्रदान की गई है, जिसके प्रमाण स्वरूप उक्त  
विश्वविद्यालय की मोहर एवं  
उक्त कुलपति के हस्ताक्षर अंकित हैं।

**राज सिंह**  
कुलपति

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA

*This is to certify that*

UMESHA G B

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

*for the thesis entitled*

SPECTRAL EFFICIENCY ENHANCEMENT FOR MIMO-OFDM SYSTEMS  
FOR HIGH MOBILITY USERS USING CHANNEL ESTIMATION  
METHODS

*in recognition of the fulfillment of requirements  
for the said degree*

PH 001531 Given under the seal of the University  
19

USN: 4JC13PEN05

BELAGAVI

DATE : MARCH 10, 2022



VICE CHANCELLOR

PRINCIPAL

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA



*This is to certify that*

SUHAS G K

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

FACULTY OF COMPUTER & INFORMATION SCIENCES

*for the thesis entitled*

RECOMMENDATION BASED INTERACTIVITY THROUGH MULTIPLE  
PLATFORMS IN BIGDATA

*in recognition of the fulfillment of requirements  
for the said degree*

PH 001680  
19

Given under the seal of the University

USN: 1EW17PES01



BELAGAVI

DATE : MARCH 10, 2022 *Ramya Lemmath*

*[Signature]*  
VICE CHANCELLOR

PRINCIPAL  
SIET, TUMAKURU

श्री सत्य सै योग्यानविद्या ऑफ टेक्नोलॉजी एण्ड मेडिकल साइंसेस, सीहोरे  
SRI SATYA SAI UNIVERSITY OF TECHNOLOGY & MEDICAL SCIENCES, SEHORE



डॉक्टर ऑफ फिलोसफी  
प्रमाणित किया जाता है कि  
प्रदीप के जी एम

को इस विश्वविद्यालय के इलेक्ट्रॉनिक्स एण्ड कम्यूनिकेशन इंजीनियरिंग विषय में  
डॉक्टर ऑफ फिलोसफी की उपाधि से वर्ष 2021 में विभूषित किया गया।

इनके शोध प्रबंध का विषय है :-

“Performance Analysis of Wireless Sensor Network Based Structural Health Monitoring”.

### DOCTOR OF PHILOSOPHY

This is to certify that

PRADEEP K G M

has been

awarded to the degree of DOCTOR OF PHILOSOPHY  
in the subject ELECTRONICS AND COMMUNICATION  
ENGINEERING of this University  
in the year 2021 .

The title of his/her thesis is :-

“Performance Analysis of Wireless Sensor Network Based Structural Health Monitoring”.

*Narayana Iannugath*

PRINCIPAL  
SIET., TUMAKURU.



सीहोर (म.प्र.), भारत, दिनांक  
Sehore (M.P.), INDIA, Date

*[Signature]*  
कुलसचिव  
Registrar