



# NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli  
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA

DEPARTMENT OF CIVIL ENGINEERING

In association with

**Indian Geotechnical Society (IGS)**



BANGALORE CHAPTER  
BENGALURU  
CHAPTER

Organizes

**Webinar**

**On**

**“Seismic hazard of India”**

By

Dr. STG Ragu kanth,

Professor, Department of Structural Engineering- IIT Madras

**Date: 22.09.2020**

**Time: 11.00 AM**

Venue

Google Meet

Department of Civil Engineering

**All are cordially invited**



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NEW HORIZON  
EDUCATIONAL INSTITUTION



India: -2002

WEBINAR *Live Streaming*

Organised by Department of Civil Engineering

## "SEISMIC HAZARD OF INDIA"

Eminent Speaker

Intensity

Very High

Zone

to sh

Inter

abo

High



*Dr STG Ragu kanth* Department of Structural  
Engineering-IIT Madras

*Time & Date:* FROM 11AM - 12PM  
TUESDAY, SEP 22nd-2020

*Registration:* <https://forms.gle/WaoYJuJjXbv9Vk5Q6>



In Association with ICS-Bangaluru Chapter

**Conveners**  
Dr Giriprasad C  
Mrs Serin Isaac

**Patrons**  
Dr. Manjunatha  
Principal-NHCE, Bangalore

**Coordinator**  
Dr. Niranjan P S  
HOD-Civil-NHCE, Bangalore

For Registration-Contact-7981757735

To  
The Principal  
New Horizon college of Engineering  
Bangalore

Date: 20.09.2020

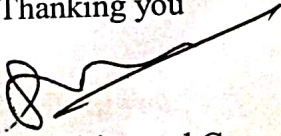
*Through Professor and Head, Department of Civil Engineering*


Respected sir,

**Subject: Permission to conduct Webinar on Topic, "Seismic Hazard of India", in association with IGS, Bengaluru chapter**

The department of Civil Engineering would like to organize a webinar in Google meet on the above topic. The resource person is Dr. STG Ragu kanth, Professor, Department of Structural Engineering- IIT Madras. The event is scheduled on 22.09.2020 at 11.00 AM in the department of civil engineering. Hence I request for your permission for the successful conduction of the lecture.

Thanking you

  
Dr. Giriprasad C  
Associate Professor  
Department of civil engineering, NHCE

  
Dr. Niranjan P S  
Professor & HOD  
Department of  
civil engineering,  
NHCE

Ref: NHCE/CV/2020-21/Webinar/

To  
Dr. STG Ragu kanth,  
Professor,  
Department of Structural Engineering,  
IIT Madras

Date: 25.09.2020

Dear sir,

**Subject: Regarding webinar on Topic, "Seismic Hazard of India", in association with IGS, Bengaluru chapter**

We are extremely pleased to have you as a resource person for webinar titled, "**Seismic Hazard of India**", in association with IGS, Bengaluru chapter, conducted on 22.09.2020. The participants, students, as well as faculties have been immensely benefitted by your expertise on this topic. Your session was informative and interactive and has created a lot of interest amongst the students in the topic you had covered. Hoping for further participation from your end in workshops/ Expert lectures/ symposium that would be arranged in our institution.

Thanking you



Dr. Niranjana P S  
Professor & HOD  
Department of  
civil engineering,  
NHCE



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## Department of Civil Engineering

### REPORT ON WEBINAR

Date: 22/09/2020

With the blessings of NHEI Management, having constant encouragements of our respected Chairman Dr. Mohan Manghnani, and Principal Dr. Manjunatha a WEBINAR is conducted in order to enhance online learning skills of our faculties and students, the department of Civil Engineering hosted on the following schedule and the topic:

Topic: Seismic Hazards of India

Date: 22<sup>nd</sup> September, 2020

Resource person: Dr. STG Ragu kanth, Professor, Department of Structural Engineering- IIT Madras.

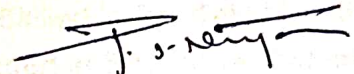
Time: 11:00 AM to 12:30 PM

Description: During this webinar, he shared the effect of urbanization on water quality parameters and suggest for its improvement.

The Indian subcontinent is a region that is prone to earthquakes. Between 1990 to 2006, more than 23, 000 lives were lost due to six major earthquakes in India. The most notable being the 2001 Bhuj earthquake and the 2005 Kashmir earthquake. Recent newspaper reports and technical papers have highlighted that there is a link between high stress accumulation in the Himalayan region and the global clustering in time of high magnitude tremors since the devastating 2004 quake off the Sumatra coast. In the event of a major earthquake in the Himalayan region, the most affected areas would be one of the most populated areas of the world. The current zoning maps in the Indian seismic code were prepared based on earthquake information available up to 1993 and has not been updated since 2002. It is thus considered that the hazard zoning needs to be re-examined and that the boundaries of zoning areas revised. This paper presents a sitespecific probabilistic seismic hazard assessment (PSHA) carried out to review the potential risk of seismic source zones based on the latest earthquake information. The PSHA method combines the knowledge of seismic source zones and their associated earthquake recurrence with appropriate attenuation relationships to produce hazard curves in terms of level of ground motion and an associated annual probability of being exceeded. Design response spectra have been calculated for sites in the Himalayan region and for other major cities in India. The results are compared to those

implied by the current Indian seismic code and those from the recent study carried out by the Indian National Disaster Management Authority (NDMA, 2011).

Program: For this Webinar, registration link using Google meet ID and password was created. The link was circulated among registered participants, faculties and students of Civil Engineering, and faculties of other departments. More than 100 participants both Teaching Faculty Members and Students have participated. At the beginning, Dr. P.S. Niranjan HOD gave a welcome address to the participants and after the presentation Dr. Nachimuthu S., Associated professor, CED, delivered the vote of thanks.

  
HOD - CIVIL

### Experience

Indian Institute of Technology - Madras  
11 years 10 months

Professor

July 2018 - Present (10 years 10 months)

Associate Professor

December 2006 - Present (11 years 10 months)

Indian Institute of Technology - Madras

Assistant Professor

July 2005 - Present (10 years 10 months)

### Education

Indian Institute of Technology (IIT)

Master of Technology - And. Eng. (1998-2000)

Indian Institute of Technology - Madras

Master of Technology - And. Eng. (1998-2000)

Indian Institute of Technology (IIT)

Master of Technology - And. Eng. (1998-2000)

CV/RES

www.linkedin.com/in/raghukanth-stg  
+91 9845118541

# Raghukanth STG

Professor at Indian Institute of Technology, Madras

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## Summary

Experienced Professor with a demonstrated history of working in the higher education industry. Skilled in Parallel computing, Fortran, Matlab and C++ software. Expert in Systems hazard analysis. Strong education professional with a Doctor of Philosophy (Ph.D.) focused in Earthquake Engineering from IISc, Bangalore.

## Experience

Indian Institute of Technology, Madras  
01 year 10 months

Professor

Jan 2018 - Present (7 years 1 month)

Associate Professor

December 2008 - Present (11 years 10 months)

Indian Institute of Technology, Guwahati

Assistant Professor

July 2008 - November 2008 (5 years 4 months)

## Education

Indian Institute of Science (IISc)

Doctor of Philosophy - PhD, Earthquake engineering (2008 - 2008)

Madras Institute of Technology

Master of Technology - M.Tech, Stress and Strain Analysis (1998 - 2000)

Jawahar Education Technological University

Bachelor of Technology (B.Tech), Civil Engineering (1994 - 1998)

uvv

Date: 07/09/2020

From,  
Dr. Giriprasad C and Ms Serin Isaac  
Sr. Associate Professor  
Department of Civil Engineering  
New Horizon College of Engineering  
Bengaluru - 560 103

To,  
The Principal  
New Horizon College of Engineering  
Bengaluru - 560 103

Through Head, Department of Civil Engineering

Respected Sir,

Subject: Permission for conducting webinar to be held on 22<sup>nd</sup> September 2020.

With reference to the above cited subject, the Department of Civil Engineering, NHCE intends to organize a Webinar on "SEISMIC HAZARD OF INDIA" on 22<sup>nd</sup> September 2020. We are inviting eminent speaker Dr. STG Ragu kanth, Professor in structural Engineering Department IIT Madras. We would like to request for your permission and support to conduct this event. It will be important for all faculties and students in the Department to attend the webinar to enhance the knowledge. In addition, the webinar will ensure that information delivered to students is standardized.

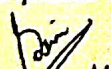
We kindly request you to sanction Rs. 3000/- (Rupees Three thousand only) remuneration towards resource person.

Your consideration will be highly appreciated. I look forward to hearing from you.

Thanking you,

With Regards


  
(Dr. Giriprasad C)

  
(Ms. Serin Isaac)

forwarded to principal  
for approval

  
7/9/20

Permitted

  
18/9





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## CERTIFICATE OF PARTICIPATION

This certifies that

**SERIN ISSAC**

has successfully completed a webinar of

**SEISMIC HAZARD OF INDIA**

Organized by Department of Civil Engineering, New Horizon College of Engineering, Bengaluru Karnataka, India  
22nd September 2020

In Association with IGS Bengaluru Chapter.

**CONVENER**  
**Dr Giriprasad C**

Supporters



**Bangalore Chapter**

**HOD-CIVIL**  
**Dr Niranjani PS**