



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)



Organizes

Webinar

On

**“Climate variability and Rainfall Induced Landslide
Hazards of Bangladesh”**

By

Dr.A.T.M. Shakhawat Hossain,

Professor, Geotechnical Engineering, Geo-hazards & Environment Research
Group, Jahangirnagar University, Savar, Dhaka-1342, Bangladesh

Date: 26.09.2020

Time: 11.00 AM

Venue

Google Meet

Department of Civil Engineering

All are cordially invited

Civil

Date: 07/09/2020

From,
Dr.Giriprasad.C
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 26th September 2020.

With reference to the above cited subject, the Department of Civil Engineering, NHCE intends to organize a Webinar on "**climate variability & Rainfall Induced Landslide Hazards of Bangladesh**" on 26th September 2020. We are inviting eminent speaker **Dr.ATM Shakhawat Hossain**, President Int.Asso.Eng Geology and Environment Bangladesh, National Gp Commonwealth scholar UNDP National Consultant. 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.

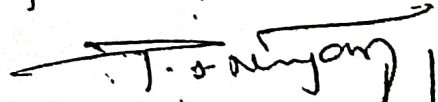
Your consideration will be highly appreciated. I look forward to hearing from you.

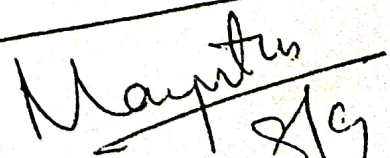
Thanking you,

With Regards

(Dr.Giriprasad.C)

forwarded to principal
for approval


7/9/20

Permitted

8/9

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DEPARTMENT OF CIVIL ENGINEERING

Date: 7th Sep 2020

To, Principal
 NHCE

Subject : Budget for Webinar to be held on 26th September 2020

Sl/No	Description	Unit	Quantity	Unit Rate (RS)	Total (RS)	Remarks
1	Guest for key note address	Each	1	3000	3000	
2	Poster					
TOTAL RS.					3000	

Rupees in words: Three thousand only

Note : Free registration

[Signature]

HOD
 Dept. of Civil Engineering



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The Trust is a Recipient of Prestigious Rajyotsava State Award 2012 Conferred by the Government of Karnataka

INVITATION LETTER

09.09.2020

To,
Dr. ATM Shakhawat Hossain,
Geotechnical Engineering,
Geo-hazards & Environment Research Group
Jahangirnagar University
Savar, Dhaka-1342
Bangladesh

Dear Professor,


The Department of Civil Engineering of New Horizon College of Engineering has schedule a webinar on "Climate variability and Rainfall Induced Landslide Hazards of Bangladesh" on 26th September 2020 from 11.00 am to 12.00 noon.

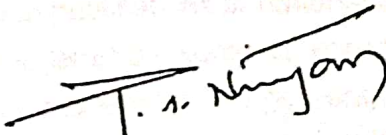
Your expertise and experience in this domain will certainly be an added value to research scholar, faculty members and students as well

It is an honour to invite you as a Resource person as we are aware of your great contribution in the field of work

Thank you in advance for your consideration, and we very much look forward to hearing from you.

Regards,


Dr. Giriprasad C
Convener
Department of Civil Engineering


Dr. Niranjan P S BE, ME, PhD, MISTE, MIE, MICI
Professor & Head,
Department of Civil Engineering

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880-1914897282 (Home)

shakhawat2004@yahoo.com

www.linkedin.com/in/a-t-m-

shakhawat-hossain-66214927

(LinkedIn)

juiv.edu (Company)

laegong (Personal)

Top Skills

Phase 1 & 2 site investigations, soil engineering

Swelling & shrinkage hazards,

seepage & stability modelling,

landslide hazards,

influence of rainfall & climate change on slope failures, infrastructures

Languages

Bengali & English (Full Professional)

Honors-Awards

Environmental Protection & Green Technology workshop, Taiwan (EPGT-2013) award

Awarded grants and all supports to attend, present paper & to Chair a session on "Disaster Management" organized by Kagawa University Japan and ICEDS.

Awarded Commonwealth Scholarship in 1991 and 1996

Publications

Influence of Short Term Rainfall on the Jamuna River West Bank Protection Flood Embankment Stability at Bahuka, Sirajgonj, Bangladesh--A Case Study

LIQUEFACTION HAZARDS ON THE WESTERN BANK OF JAMUNA RIVER, BANGLADESH: Hossain, A.T.M.S. and Haque, S.A.

Rainfall Induced Landslide Hazards of Bangladesh: Challenges, Issues and Sustainable Development

A.T.M. Shakhawat Hossain

President Int. Asso. for Engg. Geology and the Env. Bangladesh
National Gp. Commonwealth Scholar UNDP National Consultant

Summary

Many years of academic, teaching, administrative & research experience in a British system Govt. funded university in a commonwealth country, professional, consultancy & research experience in Geo-engineering, hydrogeology & environment at home and abroad having expertise on geo-engineering, hydrology, soil mechanics, solid waste management, earth system science, influence of rainfall & climate change on infrastructures, natural & built environments, strength of geomaterials for civil & construction works, solid waste management, seepage & stability modelling by using seep/w & slope/w numerical finite element softwares, unsaturated tropical-soil engineering, triaxial testing & effective stress analyses, site investigation, drilling & sampling, subsurface investigations, strength of geomaterials, dam & embankment design, engineering behaviour of problematic soils, landslide hazards, student research works supervision and field visits. Ex. Chairperson of the Department of Geological sciences/JU for 3 years From Oct.2003 –Sept.2006. I have expertise & skills in designing, conducting and interpreting of experimental works related with geo-engineering, hydrogeology & environment, numerical modelling & also experience of presenting & publishing papers in international workshops, journals & conferences. I have also supervised more than 20 post graduate research works at MS and Doctoral Levels. I have been invited, attended, participated and published more than 55 research publications at national & international levels. My previous academic background, experience as a professional, faculty member, researcher and geo-engineering consultant in a civil engineering company reflect my ability to take any academic, research and consultancy positions to take new challenges of 21st century due to Global climate change.

Experience

Department of Civil Engineering

REPORT ON WEBINAR

Date: 26/09/2020

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: **“Climate variability and Rainfall Induced Landslide Hazards of Bangladesh”**

Date: 26th September, 2020

Resource person: Dr.A.T.M. Shakhawat Hossain Professor, Geotechnical Engineering, Geo-hazards & Environment Research Group, Jahangirnagar University, Savar, Dhaka-1342, Bangladesh

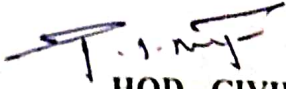
Time: 11:00 AM to 12:30 PM

Description: During this webinar, he shared the effect of Climate variability and Rainfall Induced Landslide Hazards of Bangladesh

Bangladesh is a tropical monsoonal South Asian Country. In this research, an attempt has been made to see the influence of precipitation pattern on slope failures. Thousands of families become homeless each year due to this disaster along with causing agricultural loss. Hill cutting for urban development and settlement at the bottom hills has significantly increased the risk of landslides during monsoon. This natural disaster now turns to a humanitarian disaster and threatening the sustainable development of Bangladesh. It is established that rainfall pattern can significantly influence on the landslide hazard events of Bangladesh. Development of pore water pressure (P.W.P) within soil mass is also evaluated and discussed. It is also observed that if small amount of antecedent rainfall for few days is added with huge amount of total rainfall for a single day, it may also contribute to the factor of safety values. Due to raining, a variation of the factor of safety (Fs) value is noted. Some numerical finite element model test results are presented in this paper to understand the impact of precipitation pattern, infiltration capacity, pore water pressure development and seepage pattern. These are some of the major concern for sustainable landslide hazards management & development in Bangladesh. The identified challenges and issues in managing landslide hazards of Bangladesh are also

highlighted in this paper. Some mitigation measures and the importance of monitoring landslide hazards with geotechnical instrumentations along with the necessity of developing an early warning system to mitigate landslide hazards of Bangladesh is discussed.

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 88 participants both Teaching Faculty Members and Students have participated. At the beginning, Dr. P.S. Niranjana HOD gave a welcome address to the participants and after the presentation Dr. Natchimuthu S., Associated professor, CED, delivered the vote of thanks.


HOD - CIVIL



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NEW HORIZON
EDUCATIONAL INSTITUTION



CERTIFICATE

OF PARTICIPATION

This certificate is presented to:

Has Successfully Completed a Webinar of "Climate variability & Railfall Induced Landslide Hazards of Bangladesh" on 26th September-2020

Organized by Department of Civil Engineering



Convener

Dr Giriprasad C

Coordinator

Dr Niranjana PS

HOD -Civil

Supporters



Bangalore Chapter

In Association with IGS-Bangalore Chapter

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