



**CSIR**  
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An ISO 9001:2008 Institution

A Five Day Training Programme

on



## **GEOTECHNICAL AND LANDSLIDE INVESTIGATIONS FOR HIGHWAY PROJECTS**

13-03-2023 to 17-03-2023

### **Call for Registration and Participation**

**Training Organizer:**

**Dr. Ravindra kumar**

Chief Scientist & Head  
(Information Liaison and Training)

**Training Coordinator:**

**Dr. A.K. Sinha**

Sr. Principal Scientist & Head  
(Geotechnical Engineering Division)

**Organised by:**



**सीएसआईआर-के द्रीय सड़क अनुसंधान संस्थान**

**CSIR-CENTRAL ROAD RESEARCH INSTITUTE**

**(Council of Scientific and Industrial Research)**

**DELHI - MATHURA ROAD, NEW DELHI - 110025, INDIA**

# **CSIR-CRRI TRAINING PROGRAMME ON**

## **GEOTECHNICAL AND LANDSLIDE INVESTIGATIONS FOR HIGHWAY PROJECTS**

**DURATION : 13– 17 March 2023 (05 days)**

### **OBJECTIVES:**

Training Programme will cover the introduction to landslide classification, impact of landslide with specific focus upon properties of rock & soil types involved in mass movement, role of geological discontinuities, landslide investigation, GIS application, use of software in landslide analysis, stability analysis and designing of remedial / control measures, landslide instrumentation, visit to lab and demonstration of lab testing.

### **TRAINING CONTENTS:**

The Training will cover basic geotechnical properties of soil, quality control aspects of embankment fill materials, the use of software in the analysis of slopes, utility of geosynthetic materials, reinforced earth wall and soil nailing, ground improvement techniques and investigation , monitoring of landslides and remedial measures. Following themes will be covered in this training programme:

- \* Compaction ,Consolidation & Shear Strength characteristics of soils
- \* Earthwork for embankments, quality control specifications for sub grade, sub base and base construction
- \* Slope stability analysis
- \* Geosynthetics and soil reinforcement
- \* Sub-soil exploration and in-situ testing
- \* Ground improvement techniques
- \* Geological, Geotechnical and Geomorphologic investigation of land slides
- \* Landslide hazard potential analysis
- \* Correction methods for landslides and other mass movements
- \* Rockfall mitigation & management
- \* Forensic Geotechnical Case Studies

### **FACULTY:**

The Institute has got highly qualified & experienced faculties to impart training on each specific area.

### **ELIGIBILITY CRITERION:**

<b>Qualification</b>	:	Degree / Diploma in Engineering
<b>Level</b>	:	Assistant Engineer and above
<b>Experience</b>	:	Two years and above in Road Construction activities

### **HOW TO APPLY:**

Application for nomination to a programme should be made in the prescribed application form given on our website. A separate application form should be used for each training programme. Nominations may also be sent through email.

## SELECTION OF PARTICIPANTS AND INTIMATION:

Generally, CRRI accept nominations of 30 participants only. The selection will be on first come first served basis among eligible applicants. The confirmation will be sent after receiving complete details of participant. The selected applicant will be informed about his/her selection through e-mail. For other queries contact to Dr. Neelam J. Gupta, Training Organizer (as given below) or email [headilt.crri@nic.in](mailto:headilt.crri@nic.in)/[headilt.crri@gmail.com](mailto:headilt.crri@gmail.com).

## TRAINING FEE:

The training fee for on-campus trainings is as given below:

<b>For Indian Participant</b>	<b>: ₹ 18,000/- + 18% GST</b>
<b>For SAARC Countries</b>	<b>: US \$ 450/- + 18% GST</b>
<b>For Other Countries</b>	<b>: US \$ 550/- + 18% GST</b>

All payments are to be made in advance through e-transfer to the bank account details given below. This includes training registration fee and the study material to be provided during the training.

Name of the Bank	: State Bank of India
Branch Address	: Central Road Research Institute, P.O.: CRRI, Mathura Road, New Delhi
Account Number	: 30268867237
Bank IFSC Code	: SBI N0010442
CRRITAN No	: DELC00127B
GST No. (CSIR)	: 07AAATC2716R1ZH

## ACCOMMODATION:

Limited Guest house/hostel accommodation within the campus is available (on payment basis) for outstation participants on request. Institute canteen facilities are available at reasonable rates. The Guest house/hostel charges for trainees are as given below:

- ₹ 300/- per person per day for Indian Nationals;
- ₹ 1,000/- per person per day for participants from SAARC countries;
- ₹ 1,500/- per person per day for participants from other countries.

## ABOUT CRRI:

The Central Road Research Institute (CRRI), New Delhi is located on Delhi-Mathura Road after Sukhdev Vihar Depot and before Apollo Hospital.

The Central Road Research Institute, New Delhi, established in 1952 as a constituent laboratory of CSIR, is engaged in research and development work on roads, bridges and transportation engineering and related areas. The Institute provides technical support to large number of users organisations in the country.

One of the priority areas of the activities of CRRI has been to disseminate R&D results and innovations to the in-service engineers and other professionals in the field of highway engineering through a number of customised & regular training programmes. Over the years, more than 25,000 engineers have availed the training facilities. Presently, CRRI is conducting 11 regular training programmes of varying duration to suit the requirements of different levels of engineers. Participants to these training programmes are drawn from MoRTH, PWD, CPWD, BRO, Public Sector Undertakings, Town Planning, Traffic Engineering Agencies, Commercial Units, Traffic Police Department, Private Consultants and Individuals.

## SPECIAL PROGRAMME:

Besides regular training programme, customized training programmes are also being organised on request to cater the needs of user organizations.

## For more information Contact:

### Training Organizer:

#### Dr. Ravindra Kumar

Chief scientist & Training Organiser Head,  
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Website : <http://www.crridom.gov.in/training-events>

### Training Coordinator:

#### Dr. A.K. Sinha

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