

Jointly organising Two day training programme

# Waterproofing, Effects of Black cotton soil and measures to mitigate



**Date : 30th & 31st May 2024 Time 9:30 – 17:30 Hrs IST**

**Venue : B.L.D.E.A's V .P .Dr. P. G .Halakatti College of Engineering & Technology, Ashram Road, Vijayapur 586103.**

## Introduction :

Waterproofing is a crucial aspect of building construction, ensuring the durability, longevity, and sustainability of structures. Neglecting waterproofing can lead to severe consequences, such as structural damage, mold growth, interior damage, and decreased property value. Therefore, it is essential to implement proper waterproofing measures using suitable methods and materials, such as liquid waterproofing membranes, sheet membranes, cementitious waterproofing, and bentonite waterproofing, preventing more expensive repairs in the future. Engineers play a vital role in ensuring correct waterproofing methods are employed, and ongoing learning is necessary to stay updated on advancements in waterproofing technologies and techniques.

Black cotton soil, also known as black clay, is a type of expansive soil that is highly reactive to moisture content changes, making it a challenging foundation material. This soil type expands when wet and contracts when dry, leading to potential structural damage, such as cracks and deformations, if not adequately managed. Therefore, special care and supervision are required when using black cotton soil as a foundation. Engineers can implement specific measures to mitigate the risks associated with black cotton soil, including pre-treatment methods, such as soil stabilization and pre-wetting, and using appropriate construction techniques, such as deep foundations and reinforced concrete piles. Overall, proper planning, design, and execution, along with regular maintenance, are crucial for ensuring the safety and durability of buildings constructed on black cotton soil.

## About this programme:

INSTRUCT in cooperation with Dr P.G. Halakatti College of Engineering identified the importance of updating the practicing engineers on waterproofing of buildings, and on the perils of BCS and their mitigation. Further, a special session on BIM is included for the benefit of final year students.

## Topics intended for the programme:

1. Making buildings watertight
2. Anti Termite treatment
3. Effects of Black Cotton Soil on Structures
4. Solution to mitigate the effects of Black Cotton Soil
5. Building Information Modelling (BIM) only for Students

**Dr. Naveen N. Desai**  
Associate Professor and HOD  
Department of Civil Engineering  
B.L.D.E.A's V.P.Dr.P.G. Halakatti  
College of Engineering & Technology,  
Vijayapur 586103.

**Staff Co-ordinator**  
**Er. Praveen Biradar**  
Assistant professor  
Department of Civil Engineering  
B.L.D.E.A's V.P. Dr. P.G. Halakatti  
College of Engineering & Technology  
Vijayapur 586103.

**Programme Co-ordinator**  
**Er. Nagaraj S Babanagar**  
9945976244  
nagaraj6934@gmail.com

## REGISTRATION FEES (INCL GST)

## SPONSORSHIP FEES (GST extra @ 18%)

Through sponsoring this programme, vendors of materials, tools, equipment, providers of services such as installation, construction, testing and advisory services, can leverage the opportunity to reach out to their targeted potential customers, and support the cause of knowledge transfer by INSTRUCT.

	Fees
<b>Delegates</b>	<b>2,800/-</b>
<b>Student Delegates</b>	<b>500/-</b>

(Delegate fee includes delegate kit, lunch, tea)

Privileges	Gold Sponsor ₹ 50,000/-	Silver Sponsor ₹ 30,000/-	Bronze Sponsor ₹ 20,000/-
Presentation Slot	30 mins	20 mins	10 mins
Banner display at venue	✓	✓	✓
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Complimentary Delegates	3	2	1

**Registration Link :** <https://www.instructindia.org/waterproofing>

Sponsorship payments should be made through e-transfer (i.e. RTGS/NEFT etc.) or Account Payee DD or at par cheque drawn in favour of "INSTRUCT, BANGALORE" payable at Bengaluru.

Our bank details are given below :

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