



One-Day Capsule Course on WATERPROOFING IN BUILDINGS

8th December, 2025 at NITS, BIS



BUREAU OF INDIAN STANDARDS
National Institute of Training for Standardization (NITS),
A 20 & 21, Institutional Area, Sector 62, NOIDA - 201309

What is Waterproofing?

- Waterproofing is a protective process used in the **construction and maintenance of buildings, underground structures, reservoirs, and swimming pools**.
 - It involves the use of materials and techniques to **prevent water infiltration or leakage** into or out of a structure.
 - The objective of waterproofing is to **enhance durability, safety, and functionality** by keeping structures dry and free from water-related damage.
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Why Waterproofing in Buildings and Structures is Important?

1. Ensures Structural Integrity

- Prevents water seepage that can weaken building materials and cause structural damage.

2. Prevents Deterioration and Mould Growth

- Protects against dampness that leads to material decay and mould formation, reducing health risks for occupants.

3. Increases Durability and Lifespan

- Keeps structures—especially basements, tunnels, and pools—dry and functional over time, extending their service life.

4. Reduces Maintenance and Repair Costs

- Minimizes the risk of leaks and related damage, thereby lowering long-term maintenance and repair expenses.

5. Maintains Water Efficiency

- Prevents water loss in reservoirs and swimming pools, conserving resources and reducing operational costs.

6. Prevents Contamination

- Protects stored water in reservoirs from contamination due to seepage.

7. Enhances Safety

- Avoids structural weakening or water-induced hazards in and around buildings and pools.

8. Ensures Compliance with Standards

- Adhering to waterproofing standards formulated by **Bureau of Indian Standards** ensures quality, uniformity, and reliability in construction practices.

9. Preserves Property Value

- Well-waterproofed structures maintain their appearance, safety, and long-term value.

10. Promotes Trust and Satisfaction

- Ensures consistent performance, building confidence among clients, builders, and end-users.

The Capsule Course on Waterproofing in Buildings, gives an insight into all of the above- mentioned aspects as covered in the concerned Indian Standards, particularly the following:

IS 1346 : 1991	Code of Practice for Waterproofing of Roofs with Bitumen Felts
IS 3036 : 2022	Laying Lime Concrete for Waterproofed Roof Finish – Code of Practice
IS 3037 : 1986	Specification for Bitumen Mastic for use in Water Proofing of Roofs
IS 4365 : 1967	Code of Practice for Application of Bitumen Mastic for Waterproofing of Roofs
IS 6494 : 1988	Code of practice for Waterproofing of Underground Water Reservoirs and Swimming Pools
IS 7198 : 1974	Code of Practice for Damp-Proofing Using Bitumen Mastic
IS 9918 : 1981	Code of Practice for in-situ Waterproofing and Damp-Proofing Treatment with Glass Fibre Tissue Reinforced Bitumen
IS 12054 : 1987	Code of Practice for Application of Silicone-based Water Repellents
IS 13182 : 2020	Waterproofing and Damp-Proofing of Wet Areas in Buildings –Recommendations

IS 16471 : 2017 Protection of Below Ground Structures Against Water from the Ground – Guidelines

Further, in India, moisture audits in buildings are increasingly recognized for their importance in ensuring structural integrity, health, and sustainability. This trend is driven by rising awareness, regulatory compliance, and the adoption of green building practices. Advanced technologies like infrared thermography and moisture meters aid in accurate assessments. Key practices include visual inspections, moisture mapping, and evaluating building envelopes and HVAC systems. There are certain challenges also associated such as climate variability, construction quality, and maintenance issues. Despite these challenges, moisture audits are vital for preventing mould growth, structural damage, and ensuring healthy indoor environments, contributing to the overall longevity and efficiency of buildings. Thus, the Capsule Course is designed to cover this aspect as well.

COURSE OVERVIEW:

❖ Course Title:

One-Day Capsule Course on Waterproofing in Buildings

❖ Learning Objectives:

Making participants skilled enough to be achieving proficiency in the various aspects of Waterproofing in Buildings, while offering several key benefits, such as:

- Awareness about good practices for waterproofing of wet areas in buildings
- Enhanced knowledge about various types of waterproofing compounds and their application
- Technical know-how for conducting moisture audit of buildings

❖ Who Should Attend?

All those concerned with private and government construction agencies, Builders/Developers, Building Professionals, Asset and Facility Managers, Professors, students of relevant disciplines, Interested professionals, etc

❖ Course Duration:

1 Day | **Mode:** Offline

❖ Fees:

- The course fee is **Rs.1000 /- + 18% GST** per participant.

**No training fees for Government officials (Central/States/UTs) officially nominated by the Head of their Department/Organization*

❖ Venue:

- The course will be held at the training centre of BIS, **National Institute of Training for Standardization (NITS)**, situated at **Noida**.
- Address: National Institute of Training for Standardization (NITS), A 20 &21, Institutional Area, Sector 62, NOIDA – 201309

❖ Certification:

Certificate will be awarded to all participants on completion of course.

TRAINING MODULE

Module for Capsule Course on Waterproofing in Buildings – 08 December 2025

Time	Topic
10:00 h - 11:30 h	Waterproofing and Damp-Proofing of Wet Areas in Buildings – Recommendations
11:30 h - 11:45 h	Tea Break
11:45 h - 13:15 h	Good Practices for Waterproofing of Roofs
13:15 h - 14:15 h	Lunch Break
14:15 h - 15:45 h	Good practices for Waterproofing of Underground Water Reservoirs & Swimming Pools, and of Below Ground Structures Against Water from the Ground
15:45 h - 16:00 h	Tea Break
16:00 h - 17:30 h	Moisture Audit of Buildings

HOW TO APPLY?

- **VISIT** the e-BIS Website: www.manakonline.in
- **CLICK** on the "Training" Head
- **LOGIN** by clicking on the blue "LOGIN" button on the top right corner
- **SIGNUP** by clicking on "SIGNUP" on the Member Login Page if you are not a member otherwise "SIGN IN" using your credentials
- **FILL OUT** all the fields and click on "REGISTER" and complete the registration process
- **CHOOSE** the course you want to apply for, fill in the required information and "PAY" the requisite fee

In case you are unable to submit your nomination on the BIS Training Portal, the same may be done by emailing filled up nomination form to nits@bis.gov.in. In that case, payment of the requisite fee may be made via NEFT/UPI to the Bureau of Indian Standards Bank Account, details of which are mentioned in the nomination form.

Contact:

For any further queries, you may contact:

Ms. Ankita Neogi Bag
Scientist- C/Dy. Director and
Course Coordinator, Mobile
– 8777529355
Email: nits@bis.gov.in



राष्ट्रीय मानकीकरण प्रशिक्षण संस्थान, नौएडा
NATIONAL INSTITUTE OF TRAINING FOR STANDARDIZATION, NOIDA
भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS

Nomination Form

Name of the Programme			
Date of the Programme		Venue:	
Sponsoring Organization (OR In Individual Capacity) with complete Address			
Telephone /Mobile Number			
Organization/Firm GST No.			
Email ID			

Participants Details

Sl. No.	Name (IN CAPITAL LETTERS)	Designation	Contact No.	Email
1.				
2.				
3.				
4.				
5.				

Will you stay in Hostel?		If yes, please mention the date and time					
Yes	No	Arrival	Date	Time	Departure	Date	Time

Details of Payment (in Rupees)

Training Fees *	Hostel Charges *	GST ##	Discount, if any	Total amount

Mode of Payment

Name of Bank	UTR No. & Date of transaction # (for NEFT/Net banking/ IMPS/UPI payment)	Amount (in Rs.)

* For Training/hostel fees, see NITS Training Calendar at BIS website www.bis.gov.in. (Stay in hostel is charged on Night stay basis).

For payments by NEFT, Payment should be made to Bureau of Indian Standards, Savings A/c No. 71221010000650, Bank of India, Sec-62 Noida, Branch Code 7122, IFSC Code BKID0007122.

NITS GST No. 09AAATB0431G2Z8, SAC Code: 999294 Applicable GST@ 18% on Training fee and Hostel fee.

Date: _____

Signature and Seal _____

The nomination form should preferably be scanned and e-mailed to nits@bis.gov.in, hnits@bis.gov.in, and reach NITS at least one week before the programme date. For sending hard copy may be addressed to:

Head, National Institute of Training for Standardization (NITS), Bureau of Indian Standards,

A – 20 & 21, Institutional Area, Sector – 62, NOIDA - 201309, U.P.

Phones: 0120 – 4670227, 4670232, Email: nits@bis.gov.in, hnits@bis.gov.in, Website: <http://www.bis.gov.in>

Important:

- Participants are requested to get the confirmation from NITS, whether, nomination has been accepted or not **before attending the programme.**
- Rules for Refund of Training & Hostel Fees:**
 - A refund of full fees shall be made when cancellation/withdrawal of nomination is made **at least 15 days** in advance of the date of the training.
 - Cancellation/withdrawal of nomination is made **less than 15 days** in advance of the date of the training programme or is not informed, a **cancellation charge of 25%** of the training fees would be levied. The balance amount after deducting the cancellation charges would be returned.
 - Hostel fees if any, paid in advance shall be returned in full.



Reach Us

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