

(PREVIEW)

NATIONAL BUILDING CODE OF INDIA

PART 0 INTEGRATED APPROACH — PREREQUISITE FOR APPLYING PROVISIONS OF THE CODE

1 SCOPE

This Part covers guidelines to be followed for judicious implementation of the provisions of various Parts/ Sections of the Code.

PART 1 DEFINITIONS

1 SCOPE

This Part lists the terms appearing in all the Parts/ Sections of the National Building Code of India. The terms have been arranged in their alphabetical order. The Part(s)/Section(s) in which these terms are appearing, have been indicated against the terms.

PART 2 ADMINISTRATION

1 SCOPE

This Part covers the administrative aspects of the Code, such as applicability of the Code, organization of building department for enforcement of the Code, procedure for obtaining development and building permits, and responsibility of the owner.

NOTE — This Code is called the National Building Code of India, hereinafter referred to as 'the Code'.

PART 3 DEVELOPMENT CONTROL RULES AND GENERAL BUILDING REQUIREMENTS

1 SCOPE

This Part deals with the development control rules and general building requirements to ensure health and safety of the public.

PART 4 FIRE AND LIFE SAFETY

This Part covers the requirements for fire prevention, life safety in relation to fire and fire protection of buildings. The Code specifies construction, occupancy and protection features that are necessary to minimize danger to life and property from fire.

PART 5 BUILDING MATERIALS

1 SCOPE

This Part of the Code covers the requirements of building materials and components, and criteria for accepting new or alternative building materials and components

PART 6 STRUCTURAL DESIGN **Section 1 Loads, Forces and Effects**

1 SCOPE

1.1 This Section covers basic design loads to be assumed in the design of buildings. The imposed loads, wind loads, seismic loads, snow loads and other loads, which are specified herein, are minimum working loads which should be taken into consideration for purposes of design.

1.2 This Section does not take into consideration loads incidental to construction.

PART 6 STRUCTURAL DESIGN **Section 2 Soils and Foundations**

1 SCOPE

This Section covers structural design (principles) of all building foundations such as raft, pile and other foundation systems to ensure safety and serviceability without exceeding the permissible stresses of the materials of foundations and the bearing capacity of the supporting soil

PART 6 STRUCTURAL DESIGN **Section 3 Timber and Bamboo: 3A Timber**

1 SCOPE

1.1 This Section relates to the use of structural timber in structures or elements of structures connected together by fasteners/fastening techniques.

1.2 This shall not be interpreted to prevent the use of material or methods of design or construction not specifically mentioned herein; and the methods of design may be based on analytical and engineering principles, or reliable test data, or both, that demonstrate the safety and serviceability of the resulting structure. Nor is the classification of timber into strength groups to be interpreted as preventing the use of design data desired for a particular timber or grade of timber on the basis of reliable tests.

PART 6 STRUCTURAL DESIGN
Section 3 Timber and Bamboo: 3B Bamboo

1 SCOPE

This Section relates to the use of bamboo for constructional purposes in structures or elements of the structure, ensuring quality and effectiveness of design and construction using bamboo. It covers minimum strength data, dimensional and grading requirements, seasoning, preservative treatment, design and jointing techniques with bamboo which would facilitate scientific application and long-term performance of structures. It also covers guidelines so as to ensure proper procurement, storage, precautions and design limitations on bamboo.

PART 6 STRUCTURAL DESIGN
Section 4 Masonry

1 SCOPE

1.1 This Section primarily covers the structural design aspects of unreinforced load bearing and non-load bearing walls, constructed with masonry units permitted in accordance with this Section. This, however, also covers provisions for design of reinforced brick and reinforced brick concrete floors and roofs. It also covers guidelines regarding earthquake resistance of low strength masonry buildings.

1.2 The recommendations of the Section do not apply to walls constructed in mud mortars

PART 6 STRUCTURAL DESIGN
Section 5 Concrete: 5A Plain and Reinforced Concrete

1.1 This Section deals with the general structural use of plain and reinforced concrete.

1.1.1 For the purpose of this Section, plain concrete structures are those where reinforcement, if provided is ignored for determination of strength of the structure.

1.2 Design of special requirements of structures, such as shells, folded plates, arches, bridges, chimneys, blast resistant structures, hydraulic structures, liquid retaining structures and earthquake resistant structures, shall be done in accordance with good practice [6-5A(1)].

PART 6 STRUCTURAL DESIGN
Section 5 Concrete: 5B Prestressed Concrete

1 SCOPE

This sub-section deals with the general structural use of prestressed concrete. It covers both work carried out on site and the manufacture of precast prestressed concrete units.

PART 6 STRUCTURAL DESIGN

Section 6 Steel

1 SCOPE

1.1 This Section covers the use of structural steel in general building construction including the use of hot rolled steel sections and steel tubes.

1.2 The provisions of this Section are generally applicable to rivetted, bolted and welded construction

PART 6 STRUCTURAL DESIGN

Section 7 Prefabrication, Systems Building and Mixed/Composite Construction: 7A Prefabricated Concrete

1 SCOPE

This sub-section gives recommendations regarding modular planning, component sizes, prefabrication systems, design considerations, joints and manufacture, storage, transport and erection of prefabricated concrete elements for use in buildings and such related requirements for prefabricated concrete

PART 6 STRUCTURAL DESIGN

Section 7 Prefabrication, Systems Building and Mixed/Composite Construction: 7B Systems Building and Mixed/Composite Construction

1 SCOPE

This sub-section covers recommendations regarding modular planning, component sizes, joints, manufacture, storage, transport and erection of prefabricated elements for use in buildings and such related requirements for systems building and mixed/ composite construction.

PART 7 CONSTRUCTIONAL PRACTICES AND SAFETY

1 SCOPE

This Part of the Code covers the constructional planning, management and practices in buildings; storage, stacking and handling of materials and safety of personnel during construction operations for all elements of a building and demolition of buildings. It also covers guidelines relating to maintenance management, repairs, retrofitting and strengthening of buildings.

PART 8 BUILDING SERVICES

Section 1 Lighting and Ventilation

1 SCOPE

This Section covers requirements and methods for lighting and ventilation of buildings

PART 8 BUILDING SERVICES
Section 2 Electrical and Allied Installations

1 SCOPE

This Section covers the essential requirements for electrical installations in buildings to ensure efficient use of electricity including safety from fire and shock. This Section also includes general requirements relating to lightning protection of buildings.

PART 8 BUILDING SERVICES
Section 3 Air Conditioning, Heating and Mechanical Ventilation

1 SCOPE

This Section covers the design, construction and installation of air conditioning and heating systems and equipment installed in buildings for the purpose of providing and maintaining conditions of air temperature, humidity, purity and distribution suitable for the use and occupancy of the space.

PART 8 BUILDING SERVICES
Section 4 Acoustics, Sound Insulation and Noise Control

1 SCOPE

This Section covers requirements and guidelines regarding planning against noise, acceptable noise levels and the requirements for sound insulation in buildings with different occupancies.

PART 8 BUILDING SERVICES
Section 5 Installation of Lifts and Escalators

1 SCOPE

1.1 This Section covers the essential requirements for the installation, operation and maintenance and also inspection of lifts (passenger lifts, goods lifts, hospital lifts, service lifts and dumb waiter) and escalators so as to ensure safe and satisfactory performance.

1.2 This Section gives information that should be exchanged among the architect, the consulting engineer and the lift/escalator manufacturer from the stage of planning to installation including maintenance.

NOTE — The provisions given in this Section are primarily for electric traction lift; however, most of these provisions are also applicable to hydraulic lifts {see good practice [8-5(1)]}.

PART 9 PLUMBING SERVICES
Section 1 Water Supply, Drainage and Sanitation
(Including Solid Waste Management)

1 SCOPE

1.1 This Section covers the basic requirements of water supply for residential, business and other types of buildings, including traffic terminal stations. This Section also deals with general requirements of plumbing connected to public water supply and design of water supply systems.

1.1.1 This Section does not take into consideration the requirements of water supply for industrial plants and processes, which have to be provided for separately. It also does not provide the requirements of water supply for other purposes, such as fire fighting, and street cleaning.

1.2 This Section also covers the design, layout, construction and maintenance of drains for foul water, surface water and subsoil water and sewage; together with all ancillary works, such as connections, manholes and inspection chambers used within the building and from building to the connection to a public sewer, private sewer, individual sewage-disposal system, cesspool, soakaway or to other approved point of disposal/ treatment work.

NOTE — A sanitary drainage system consists of a building sewer, a building drain, a soil and/or waste stack, horizontal branches or fixture drain, and vents. The sanitary drainage of a large building may have a number of primary and secondary branches, and several soil and/or waste stacks, each of them in turn may have a number of horizontal branches.

PART 9 PLUMBING SERVICES
Section 2 Gas Supply

1 SCOPE

1.1 This Section covers the requirements regarding the safety of persons and property for all piping uses and for all types of gases used for fuel or lighting purposes in buildings.

1.2 This Section does not cover safety rules for gas burning appliances.

PART 10 LANDSCAPING, SIGNS AND OUTDOOR
DISPLAY STRUCTURES
Section 1 Landscape Planning and Design

1 SCOPE

This Section covers requirements of landscape planning and design with the view to promoting quality of outdoor built environment and protection of land and its resources.

**PART 10 LANDSCAPING, SIGNS AND OUTDOOR
DISPLAY STRUCTURES**
Section 2 Signs and Outdoor Display Structures

1 SCOPE

This Section covers the requirements with regard to public safety, structural safety and fire safety of all signs and outdoor display structures.