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## राष्ट्रीय बांध सुरक्षा प्राधिकरण

### अधिसूचना

नई दिल्ली 24 अप्रैल, 2024

फा. सं. टीई-32/2/2023- एनडीएसए-एमओडब्ल्यूआर.—राष्ट्रीय बांध सुरक्षा प्राधिकरण, 2021 बांध सुरक्षा अधिनियम, 2021 (2021 का 41) की धारा 54 की उप-धारा (2) के खंड (ज), (झ), (ञ), (ट), (ड), (ढ), (त) और (द) के साथ पठित उप-धारा (1) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, राष्ट्रीय समिति की सिफारिशों के आधार पर राष्ट्रीय बांध सुरक्षा प्राधिकरण, एतद्वारा द्वारा निम्नलिखित विनियम बनाता है, अर्थात:-

- संक्षिप्त शीर्षक और शुरुआत—** (1) इन विनियमों को निरीक्षण, यांत्रिकीकरण, भूकंपीय आंकड़ों, जोखिम मूल्यांकन और निर्दिष्ट बांध विनियम, 2024 का मूल्यांकन कहा जाएगा।  
(2) ये विनियम सरकारी राजपत्र में प्रकाशन की तारीख से लागू होंगे।
- परिभाषाएं—** (1) इन विनियमों में, जब तक कि संदर्भ से अन्यथा अपेक्षित न हो,—  
(क) "अधिनियम" का अर्थ है बांध सुरक्षा अधिनियम, 2021 (2021 का 41);  
(ख) "प्राधिकरण" का अर्थ है अधिनियम की धारा 8 के तहत स्थापित राष्ट्रीय बांध सुरक्षा प्राधिकरण;  
(ग) "मालिक" का अर्थ है विनिर्दिष्ट बांध का मालिक;  
(घ) "अनुसूची" का अर्थ है इन विनियमों की कोई भी अनुसूची।

**9. Mandatory site-specific seismic parameter studies of specified dams in certain cases.—**

(1) The seismic assessment of the specified dam including its hydro-mechanical parts, shall be assessed under the Design Basis Earthquake condition or 1 in 475 years return period earthquake, shall be carried out, based on the guidelines of the National Committee on Seismic Design Parameters, to observe the following, namely:—

- (i) its structural performance or its strength to resist seismic forces without damage;
- (ii) its capacity to absorb high seismic forces by inelastic deformations or opening of joints and cracks in concrete dams;
- (iii) movements of its joints in the foundation rock;
- (iv) inelastic deformation characteristics of embankment materials and stability against sliding and overturning stability;
- (v) whether the dam structure serve its intended purpose safely or follows the rule curves and various operational guidelines after the Design Basis Earthquake condition.

(2) In the case of multiple types of dams forming a common reservoir, each such dam reach shall be evaluated separately and safety assured.

(3) In the case of dams of same type but spanning across separate abutments for a common reservoir, each dam shall be assessed independently of each other for seismic safety.

(4) The seismic safety of interface integrity shall be assessed in respect of all such specified dams where,—

- (i) interfaces especially between rigid structures like masonry or concrete and soils or rocks are vulnerable to the separation and damage which may prove hazardous;
- (ii) old dams have been provided with composite structures in which the masonry wall is deriving stability through earth or rockfill backing on downstream;

- (iii) old dams have been strengthened through provision of buttresses or backing of masonry or concrete.

(5) For the purposes of ensuring safety monitoring under this regulation, every owner shall ensure,—

- (i) strong motion instrumentation of dam and foundation;
- (ii) visual observations and inspection after an earthquake;
- (iii) data analysis and interpretation; and
- (iv) post-earthquake safety assessment.

(6) The seismic stability of the specified dam shall be assessed as per the guidelines of the National Committee on Seismic Design Parameters, for Maximum Credible Earthquake condition or 1 in 2475 years' return period earthquake.

(7) The site-specific seismic studies shall be carried out in respect of all such specified dams where,—

- (i) any extreme seismic event is observed which has the potential to affect or damage structure or an event with magnitude of Peak Ground Acceleration greater than the values specified in paragraph 6.4.2 (Table 3) of IS 1893-2016 (Part 1) relating to Criteria for Earthquake Resistant Design of Structures developed by the Bureau of Indian standards;
- (ii) dam re-sectioning is proposed or carried to the original structure or in design criteria;
- (iii) major geological activity is reported by Geological Survey of India for the region such as, identification of new faults or movement in existing faults:

Provided that the site-specific seismic studies shall be carried out only for those existing specified dams where risk assessment study so warrants.

#### SCHEDULE-I

[See regulation 3(1)]

#### FORM

##### Part 1a - Inspection Details:

Project Name:		Project ID Code (PIC):	
Project Type:		Project Purpose:	
Project Owner:		Hazard Classification:	
Project Operator:		Type of Inspection:	
Commissioning Date:		Inspection by:	
City/State/PIN:		Date of Inspection:	
District:		Reservoir water level in metre on the date of inspection:	
Latitude:		Storage Capacity (MCM):	(i) Gross..... (ii) Live.....
Longitude:		Weather Conditions:	
Important Controlling Level	a) TBL EL ..... b) MWL EL ..... c) FRL EL ..... d) Spillway Crest EL ..... e) MDDL EL ..... f) Lowest River bed EL ..... g) Deepest foundation level EL .....		

##### Part 1b - Inspection Remarks:

Please provide any additional information or comments not covered by Part 1a form above.