Dam Safety Act, 2021 National Committee on Dam Safety



Minutes of the 1st Meeting

02 August 2022 11:00 – 17:00 hours 209, 2nd Floor Conference Room Central Water Commission, New Delhi

Ministry of Jal Shakti

Government of India NDSA Secretariat New Delhi National Committee on Dam Safety, Ministry of Jal Shakti, Government of India, New Delhi **Minutes of 1st Meeting** held on 02 August 2022

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1st Meeting

02 August 2022 Conference Room, CWC, New Delhi

Minutes

Present

S.No.	Affiliation	Sh/Shri
Chairr	nan	
1	Chairman, Central Water Commission	R. K. Gupta
	Ministry of Jal Shakti, Government of India	
Memb		
(a) Rep	presentatives of the Central Government	
2	Chairman, National Dam Safety Authority, Ministry of Jal Shakti, Government of India	J. Chandrashekhar Iyer
3	Member (Design & Research), Central Water Commission, Ministry of Jal Shakti, Government of India	J. Chandrashekhar Iyer
4	Member (Hydro), Central Electricity Authority, Ministry of Power, Government of India	M A K P Singh
5	Representative of Department of Water Resources, River Development & Ganga Rejuvenation, Ministry of Jal Shakti, Government of India -Joint Secretary, RD& PP	Anand Mohan
6	Representative of National Disaster Management Authority, Ministry of Home Affairs, Government of India, -Joint Secretary, NDMA	Harsh Gupta
7	Representative of Ministry of Environment, Forest & Climate Change, Government of India -Scientist 'E'	Yogendra Pal Singh
8	Representative of Director General, India Meteorological Department Ministry of Earth Science, Government of India -Scientist 'C'	S K Manik
9	Representative of Director General, Geological Survey of India Ministry of Mines, Government of India -Director, DGCO	S N Bhagat
10	Representative of Director, National Remote Sensing Centre, ISRO Department of Space, Government of India; -Deputy Director, RSAA, NRSC	V. Venkateswar Rao
11	Representative of Director, National Geophysical Research Institute Ministry of Science and Technology, Government of India -Chief Scientist, NGRI	N Purnachandra Rao
(b) Re	presentatives of the State Governments	
12	Group I : Andhra Pradesh, Engineer-in-Chief (Irrigation), WRD	Narayana Reddy Chinnaganta
13	Group II : Himachal Pradesh, Engineer-in-Chief, Jal Shakti Vibhag	Sanjeev Kaul
14	Group III : Arunachal Pradesh, Chief Engineer (Mon), DHPD	R K Joshi
15	Group IV : Manipur, Add. Chief Engineer-I WRD	Remmei Alimei
16	Group V : Bihar, Engineer-in-Chief, Irrigation Creation, WRD	Ishwar Chandra Thakur
17	Group VI : Gujarat, Chief Engineer (NG) & Add. Secretary	M D Patel
18	Group VII : Rajasthan, Director (Dam), ID&R, Jaipur	Manish Parihar

(c) Spe	ecialists in Dam Safety and allied fields	
19	Specialist	D. K. Sharma
	Chairman, HP Electricity Regulatory Commission	
20	Specialist	C. V. R. Murty
	Institute Chair Professor, Dept of Civil Engineering, IIT Madras	
Secret	ary	
21	Representative of Member (Policy and Research), National Dam Safety	Sarbjit S Bakshi
	Authority, Ministry of Jal Shakti, Government of India	
	-Director, NDSA Secretariat	

The *National Committee on Dam Safety* discussed the *Agenda Items* (copy enclosed) and took the following decisions:

S.No.	Item	page
1.0 V	/ELCOME	
1.0.1	Chairman	
	On behalf of the NCDS, the Chairman extended a warm welcome to all the Members to the 1st Meeting of NCDS. He briefed the committee on the dam safety scenario in India. He informed that as per the National Register of Large Dams, the country has 5,334 large dams of which, 411 are under construction. Majority of these dams are owned, controlled, operated and maintained by the State Governments, and a small percentage is with the CPSUs, Boards and Private Sector Organizations. Primarily, the dam owners are responsible to undertake regular surveillance, inspections, operation and maintenance of the dams, and to take necessary measures to ensure safety of the dams. He urged the dam owners to earmark sufficient funds for carrying out the inspections, rehabilitation and maintenance works. He stated that active participation and cooperation of all stakeholders is paramount for successful operationalization of the provisions of the Dam Safety Act, 2021. He requested all Members to share their valuable technical inputs and the way forward towards putting in place best practices in Dam Safety Management in the country. Considering that the Committee is required to evolve dam safety policies and recommend necessary regulations, the Chairman conveyed that only the designated members and authorized representatives of the States as per the Gazette Notification should attend the meeting. Then, the Chairman requested Chairman, National Dam Safety Authority (NDSA), to present an overview of dam safety activities in India. The Chairman, NDSA, presented the same and highlighted the initiatives of Government of India and Central Water Commission in dam safety, the schemes of Central Government for rehabilitation of dams, and	
	the highlights of Dam Safety Act, 2021.He then requested Sh Sarbjit S Bakshi, Director NDSA secretariat to take up one by one the Agenda points for the discussions of the Committee Members.	

1.1 P(OLICY MATTERS	
1.1.1	Enactment of the <i>Dam Safety Act,</i> 2021	
	The NCDS noted the matter.	
1.1.2	Constitution of <i>National Committee on Dam Safety</i>	
	The NCDS noted the matter.	
1.1.3	Establishment of National Dam Safety Authority	
	The NCDS noted the matter.	
1.1.4	Status of Notification of:	
	(a) State Committees on Dam Safety, and	
	(b) State Dam Safety Organizations	
	NCDS noted the matter. The Chairman advised NDSA to pursue	
	with the Chief Secretary and Principal Secretary (Water Resources) of the	
	States, which have not yet constituted the SCDS or not yet established the	
	SDSO, to comply expeditiously with the relevant provisions of DSA 2021.	
1.1.5	Functions of National Committee on Dam Safety	
1.1.0	The NCDS noted the matter.	
1.1.6	Formulation of <i>RULES and EGULATIONS</i> under Section 54 of <i>Dam Safety</i>	
	Act, 2021	
	The Members were informed that under Section 54 of the Dam	
	Safety Act 2021, the Regulations and Rules have to be framed by the	
	NCDS. Pending the 1st Meeting of NCDS (to save time), a Regulations and	
	Rules Sub-Committee was constituted for the same under the	
	Chairmanship of Member (Policy & Research), NDSA, with the approval	
	of the Chairman, NCDS. The NCDS ratified the said approval accorded by	
	the Chairman.	
	The Chairman, NDSA, proposed that that a legal expert could be co-	
	opted in the said Sub-Committee, to seek legal opinion and understanding	
	on the draft Rules and Regulations being prepared. The NCDS agreed with	
	the said proposal.	
	The draft Regulations and Rules being framed by the said Sub-	
	Committee shall be submitted to the scientific Sub-Committees of the	
	NCDS (discussed in Agenda Item 1.5.1 of this meeting). After vetting of	
	these regulations by the said scientific Sub-Committees, the same will be	
	placed before the NCDS for approval of their technical content. Thereafter,	
	the Regulations and Rules shall be recommended to the Ministry of Jal	
	Shakti for its approval.	
	A roadmap was agreed to by the NCDS, wherein Regulations and Rules	
	Sub-Committee will prepare on top priority the Regulations on 7 matters	
	out of the 19 listed in Section 54 (2) of DSA, 2021, namely items:	
	(c) the details and form pertaining to the maintenance of log books or	
	database under sub-section (1) of section 18;	
	(d) the qualifications, experience and training of the individuals	
	responsible for safety of specified dams under section 23;	
	(e) the employment of competent engineers and their qualifications and	

	experience for the purpose of investigation, design and construction of	
	specified dams under sub-section (3) of section 26;	
	(g) the level of competent engineers for the dam safety units under	
	section 30;	
	(h) the guidelines and check-lists for inspection of specified dams under	
	clause (a) of sub-section (3) of section 31;	
	(o) time interval for updating the emergency action plan under clause (b)	
	of sub-section (1) of section 36;	
	(q) the mandatory review of design flood of existing specified dams	
	under clause (b) of sub-section (2) of section 38;	
1.1.7	Dissolution of ALL National Committees related to Dam Safety and	
1.1./	Dissolution of ALL National Committees related to Dam Safety and other Inter-State Sub-Committees existing prior to enactment of	
	The Dam Safety Act, 2021	
	The matter was deliberated, and the NCDS approved	
	recommending the dissolution of the National Committee of Dam Safety	
	and all other Inter-State Sub-Committees related to Dam Safety, which	
	were formed prior to the enactment of the DSA 2021.	
1.2 D	AM SAFETY	
1.2.1	Technical Documentation - National Registry of Specified Dams	
	The NCDS advised NDSA to establish a comprehensive database of	
	all the specified dams in the country. In this regard, the salient information	
	mentioned in Annexure 1.7 of the Agenda Papers of this meeting of NCDS	
	shall also be collected from all SDSOs of each specified dams under their	
	jurisdiction. Also, the NDSA shall obtain and compile from the State	
	Governments and Dam Owners a detailed record of all failures and	
	distresses, if any, in the said dams. Further, it was emphasized that the	
	state-of-the-art technology be leveraged for this technical documentation, with a dynamic module that will be continually be updated by the NDSA,	
	SDSOs and Dam Owners.	
	It was suggested that to expedite the matter and to avoid the duplicity of	
	cost & works, DHARMA, a web based tool, developed by CWC may be	
	got updated & modified to meet the requirements of NDSA, for	
	maintaining data repository of Dams.	
	The Chairman also requested NDSA to prepare a list of all dams where	
	NDSA is required to perform the role of Dam Safety Organisation	
1.2.2	Comprehensive Dam Safety Evaluation Proceedures for	
1.2.2	Comprehensive Dam Safety Evaluation Procedures for: After due discussion, the NCDS unanimously approved the matter	
	as proposed.	
	as proposed.	
	The Chairman stated that many guidelines have been prepared under the	
	DRIP scheme. But, these guidelines need to be examined and updated by	
	the scientific Sub-Committees (discussed in Agenda Item 1.5.1 of this	
	meeting). Until such time these guidelines are revised suitably and the	

	associated Regulations and Rules are in place, the State Governments and CPSUs shall utilize the existing guidelines and begin comprehensive Evaluation of the dams under their jurisdiction. The NCDS sought each State Governments and CPSUs to submit to NDSA a detailed road map on the proposed strategy and methodology that they propose to adopt for undertaking the comprehensive Dam Safety Evaluation of Dams in their jurisdiction. The document shall list the proposed experts, organizations, institutes, agencies, etc., to be engaged for such studies, along with their past experience in the subject. The State	
102	Governments and CPSUs shall submit these documents through their respective SDSOs and SCDSs. All matters related to dam safety, but not limited to those listed in the Agenda Item, shall be addressed in the said document. NDSA shall place the documents before the NCDS for consideration, after due discussion on the said documents.	
1.2.3	Emergency Action Plan and Disaster Management Initiatives	
	 The Chairman, NCDS directed States to ensure that all Dam Owners, based on the Dam Break Analysis, shall prepare an Emergency Action Plan for each dam after due consultation with all stakeholders. (1) As per Section 36(1), every owner of the dam shall: (a) Prepare Emergency Action Plan before allowing the initial filling of the reservoir and thereafter update such plans at regular intervals; and 	
	(b) in respect of the dam which is constructed and filled before the commencement of this Act, prepare Emergency Action Plan within five years from the date of commencement of this Act and thereafter update such plans at regular intervals as may be specified by the regulations.(2) The Emergency Action Plan shall:	
	 (a) Lay down the procedures to be followed for the protection of persons and property upstream or downstream of the specified dam in the event of an actual or imminent dam failure or to mitigate the effects of the disaster; (b) Include therein: the type of emergencies, which are likely to occur in the operation of any reservoir; identification of the likely catastrophic flood in the event of any dam failure, along with probable areas, population, structures and installations likely to be adversely affected due to flood 	
	water released from the reservoir; iii. warning procedures, inundation maps and advance preparations for handling efficiently and in the best possible manner the likely adverse situations especially to avoid loss of	

	 human life; iv. such other matters which may having regard to the geographical conditions, size of the dam and other relevant factors as may be necessary. (3) The Emergency Action Plan shall be put into action as and when conditions arise which are hazardous or likely to be hazardous to a specified dam or potentially hazardous to public safety, infrastructure, other property or to the environment. (4) Every owner of the specified dam shall, while preparing and updating the emergency action plan, undertake a consultation process with all disaster management agencies and other Departments of the State entrusted with disaster management and relief in the area likely to be affected and owners of other dams in the immediate vicinity likely to be affected, so as to bring coordination and transparency and allay any unwarranted fear on dam safety issues. 	
1.2.4	Operation and Maintenance	
	 The Chairman, NCDS directed States to ensure in compliance to provisions of section 28 of the Act, that. , (1) Every owner of the specified dam shall provide operation and maintenance establishment for the specified dam, and shall ensure that sufficient number of trained operation and maintenance engineers or technical persons is posted at each such dam. (2) Every owner of the specified dam shall ensure that a well-documented Operation & Maintenance (O&M) Manual is kept at each of the specified dams and are followed at all times. O&M Manual shall include reservoir operation rule curves. 	
1.3 CC	DNCERNS ON SPECIFIC DAMS	
1.3.1	Reports of Safety related to specific dams submitted by	
	State Committees on Dam Safety Chairman, NCDS directed States to ensure that, the owner for each specified dam, within the operation and maintenance establishment, provide a dam safety unit consisting of such competent levels of engineers in compliance to relevant provisions of the Act.	
1.4 SA	FETY INSPECTION AND DATA COLLECTION	
1.4.1	Establishment of Dam Safety Unit Chairman, NCDS directed States to ensure that, the owner for each specified dam, within the operation and maintenance establishment, provide a dam safety unit consisting of such competent levels of engineers in compliance to relevant provisions of the Act.	
1.4.2	Pre- and Post-Monsoon Inspection of Dams The Chairman, NDSA expressed serious concerns on the state of pre-	

	 monsoon inspections reported by the States to CWC. The Chairman, NCDS directed the States to ensure that every owner of a specified dam shall undertake every year, through their dam safety unit, a pre-monsoon and post-monsoon inspections in respect of each such dam. Furthermore, (a) Every owner of a specified dam shall inspect or cause to be inspected every specified dam by the dam safety unit, during and after every flood, earthquake or any other natural or man-made calamities, or if any sign of distress or unusual behaviour is noticed in the dam. (b) Every owner of a specified dam shall: (i) Carry out all inspections referred to in sub-section (1) and subsection (2) in accordance with the guidelines and check-lists as may be specified by the regulations; (ii) Station, at each of the specified dam site throughout the monsoon period, such engineers and other technical personnel, as may be decided, in consultation with the State Dam Safety Organisation: Provided that the engineers and other technical personnel shall be required to be stationed at their respective dam sites during entire period of emergency following any other natural or manmade calamity that may create distress conditions in the dam; and (iii) Forward the inspection report by the dam safety unit to the State Dam Safety Organisation, which shall analyse the report and submit comments on the deficiency and remedial measures, if any, to the owner of the specified dam. 	
	inspections are under formulation by NDSA, till such time the existing format/check list issued by CWC may be followed for inspections.	
1.4.3	Instrumentation of Dams, establishment of hydro-meteorological	
	Station & Installation of seismological stations	
	 The Chairman, NCDS directed States ensure that every owner of a specified dam shall have a minimum number of such instruments at each specified dam, and installed in such manner as may be specified by the regulations for monitoring the performance of such dam. (a) Every owner of the specified dam shall maintain a record of readings of the instrumentations referred to in sub-section (1) and forward the analysis of such readings to the State Dam Safety Organisation, in the form, manner and at such interval as may be specified by the regulations. Further, as per the Act, Seismic Instrument station shall be installed in accordance with the Section 34 and Section 38 (2)(c) of the Act. 	
	 (b) According to Section 33 (1), every owner of a specified dam shall: (i) Establish a hydro-meteorological station in the vicinity of each specified dam capable of recording such data as may be specified by the regulations; and 	

zone, as m specified da (i) Establish for reco other da (ii) Collect, (1) at su	to Section 34 (1) , in the case of every specified dam, eight of 30 metres or above or falling under such seismic may be specified by the regulations, the owner of the m shall: In a seismological station in the vicinity of each such dam rding micro and strong motion earthquakes and such ta as may be specified by the regulations; and compile process and store data referred to in sub-section uch suitable location and in such manner as may be d by the regulations.	
1.5 SUB-COMMITTEES	S	
1.5.1 Formation of Sub-	-Committees	
After considered that the vast and technical technical think tan (1) Identify the iss state-of-the-art, the implementa (2) Provide valuab on the technica (3) Address all tec about 5,334 exi of Large Dams, Further, the properto: (1) Deliberate on possible policie (2) Build collabor establish releva (3) Prepare and fin state-of-the-art practices.	r seeking clarifications and due deliberations, it was e spectrum of issues involved in ensuring Dam Safety is l. Therefore it was decided to constitute national level ks to: sues & needs, discuss contentious issues in light of the , steer activities (including R&D studies), and facilitate ation of dam safety initiatives in their domain areas; ble inputs for the NCDS to take evidence-based decisions l matters; and hnical aspects that lead towards ensuring dam safety of isting specified dams (as registered in National Register	

S.No.	Sub-Committee	Domain Areas of the Sub-Committee
1	on David Cafatar	(but not limited to)
1	Dam Safety	Dam Break Analysis
	Management	Downstream Inundation
		Risk Classification
		Disaster Management Actions
		Dam Safety Management Approach
2	Hydraulic Safety	Upstream Precipitation
		Water Catchments
		Overtopping of Dams
3	Hydrological	Reservoir Capacity
	Safety	Silting mechanisms and profiles
		De-silting need and techniques
4	Structural	Seismic Hazard Assessment
	Engineering and	Structural Analysis
	Earthquake	Structural Design
	Safety	Structural Vulnerability
		Structural Risk Assessment
		Structural Safety Evaluation
		Earthquake Instrumentation
		-
		Continued Operations of:
		(a) Appurtenant Structures, and
		(b) Penstocks and Outlets
5	Geological,	Dam Foundation
	Geophysical and	Reservoir Rim Stability
	Geotechnical	
	Safety	
6	Hydro-	Locking of Gates
	Mechanical and	Spillways and Energy Dissipaters
	Electrical	Outlets
	Systems Safety	Water Level Monitoring
	,	Hydro-power Generation
		Grid Failure
		Flooding of Power Stations
7	Monitoring and	Sensors: Monitoring of Dams
1	Instrumentation	Technical Software: GIS, Flood Routing,
		Dam Break Analysis, Seismic Structural
		Analysis, etc.
		Telemetry: Wireless & Wired Systems,
0	Pt-D and	Computer Sensors, etc.
8	R&D and	Scrutiny of R&D Proposals on specific
	Standards	domains received for funding from
	Development	Industry, academia & research
		organizations
		Research through Doctoral Programs
9	Capacity	Human Resource Requirement
	Development	Resource Persons & Master Trainers

		1
	Resource Materials	
	Model Curriculum for degree programs	
	Training of Engineers in different subjects	
	(Post-Graduate Diploma Programs in Dam	
	Safety;	
	1-day Sensitization Programs on specific	
	themes)	
	Further, each Sub-Committee of the National Committee on Dam Safety shall examine the Technical Questions received on Specific Dams and provide considered inputs to the National Committee on Dam Safety.In each of the proposed Sub-Committee, there shall be a member from	
	States/Dam owners also. For this the NDSA may seek list of experts from the States/Dam owners.	
	The Chairman, NCDS further directed NDSA to seek nominations from the State Governments and Dam owners as domain experts in each of the Sub-Committees. The NCDS directed NDSA to compile a list of potential domain experts from R & D Organisations, Academia and	
	Industry. The constitution of the sub-committees shall be finalized by the Chairman, NCDS, along with Chairman, NDSA and the two specialist Members of the NCDS.	
1.6 AN	NY OTHER AGENDA WITH THE PERMISSION OF CHAIR	
1.6.1	Sh DK Sharma Export Momber requested all the States to take part in	
	SILD' Sharma Expert Member requested an me States to take part in	
1001	Sh DK Sharma Expert Member requested all the States to take part in upcoming International Dam Safety Conference scheduled to held on 10-12 October, 2022 at Jaipur.	
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