

GOVERNMENT OF INDIA  
MINISTRY OF JAL SHAKTI  
DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION

**LOK SABHA**

**UNSTARRED QUESTION NO. 216**

ANSWERED ON 20.07.2023

**SAFETY OF OLD DAMS**

216. SHRI JUAL ORAM

Will the Minister of **JAL SHAKTI** be pleased to state:

- (a) whether it is a fact that some major river dams have been very old and developed cracks;
- (b) if so, whether the Government has identified such dams;
- (c) if so, the details thereof, State-wise; and
- (d) the precautionary measures taken by the Government for the safety of those dams?

**ANSWER**

**THE MINISTER OF STATE FOR JAL SHAKTI**

(SHRI BISHWESWAR TUDU)

**(a) to (c)** As per the National Register of Large Dams (2019) compiled by the Central Water Commission (CWC) based on the information provided by the dam owners, India has 5,334 completed and functional large dams. Out of these, there are 234 functional large dams in the country which are more than 100 years old. Further, there are 1,034 operational large dams in the country having age between 50 to 100 years. State-wise number of these dams is enclosed as **Annexure-I**. However, age of the dam is not the only factor to assess a dam's condition. These superstructures have a valid lifespan as long as they are technically safe and operational.

Responsibility for ensuring safety of dams, including their operation and maintenance, rests primarily with the dam owners which are mostly the State Governments and Central/State Public Sector Units. Details regarding dam's condition, safety assessment, maintenance, repair and renovation are available with the concerned dam owners.

Union Government has enacted the Dam Safety Act 2021 to provide for surveillance, inspection, operation and maintenance of all the specified dams of the country for prevention of dam failure related disasters and to provide for institutional mechanism to ensure their safe functioning. Under the Act, dam owners are required to carry out the pre-monsoon and post-monsoon inspections of their dams. On the basis of the examination of periodic inspection report of the dams and its vulnerability on all safety aspects, they are categorized as Categories I, II or III (Category I being the severe most category and accordingly). Category-I indicates deficiencies which may lead to failure while Category-II indicates deficiencies requiring prompt remedial measures. Consequently, the remedial measures are carried out by the dam owners in a time bound manner.

As per the pre-monsoon inspection of the specified dams carried out by the dam authorities during the financial year 2023-24 till 11.07.2023, 4 dams have been found in Category I, and 169 dams in Category II (list enclosed as **Annexure-II**). The State Dam Safety Organization and the Project Authorities have been requested to take necessary steps to ensure continued safety of these dams.

**(d)** In order to improve the safety and operational performances of some of the selected dams of the country, Government of India is implementing the Dam Rehabilitation and Improvement Project (DRIP) with external funding.

Under the World Bank funded DRIP Phase-I programme, which was implemented during April 2012 to March 2021, 223 existing dams located in 7 States have been comprehensively audited and rehabilitated at a cost of Rs. 2,567 crore.

Under this scheme, repair of cracks have been carried out in several dams. Some of the prominent dams are Kankerdheda (Madhya Pradesh), Hirakud (Odisha), Gatana (Tamil Nadu), Pazhassi Irrigation Project (Kerala), Idukki (Kerala), Upper Mullamari Dam (Karnataka), Konar and Maithon dams (Jharkhand) etc.

After completion of DRIP Phase- I scheme, Government of India has taken up DRIP, Phase-II & III envisaging rehabilitation of 736 dams located in 19 States with a budget outlay of Rs 10,211 crore. The scheme is of 10 years duration. DRIP Phase-II has become operational from 12th October 2021, and is being co-financed by the World Bank and the Asian Infrastructure and Investment Bank.

Further, as per the provisions of the Dam Safety Act, 2021 dam owners are required to earmark sufficient and specific funds for maintenance and repairs of the specified dam.

\*\*\*

**ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (c) OF LOK SABHA UNSTARRED QUESTION NO. 216 REGARDING “SAFETY OF OLD DAMS”****Age-wise distribution of Large Dams**

<b>Sl. No.</b>	<b>State/UT</b>	<b>No. of large dams having age between 50 to 100 years (constructed in or before 1972 to 1923)</b>	<b>No. of large dams which are more than 100 years old (constructed in or before 1922)</b>
1	Andaman and Nicobar	-	-
2	Andhra Pradesh	27	6
3	Arunachal Pradesh	-	-
4	Assam	-	-
5	Bihar	9	1
6	Chhattisgarh	28	7
7	Goa	-	-
8	Gujarat	194	30
9	Haryana	-	-
10	Himachal Pradesh	1	-
11	Jammu & Kashmir and Ladakh	2	-
12	Jharkhand	16	-
13	Karnataka	72	15
14	Kerala	27	1
15	Madhya Pradesh	143	63
16	Maharashtra	286	44
17	Manipur	-	-
18	Meghalaya	4	-
19	Mizoram	-	-
20	Nagaland	-	-
21	Odisha	15	3
22	Punjab	1	-
23	Rajasthan	61	25
24	Sikkim	-	-
25	Tamil Nadu	49	1
26	Tripura	-	-
27	Uttar Pradesh	54	17
28	Uttarakhand	6	-
29	West Bengal	2	-
30	Telangana	37	21
	<b>Total</b>	<b>1,034</b>	<b>234</b>

**ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (c) OF LOK SABHA UNSTARRED QUESTION NO. 216 REGARDING “SAFETY OF OLD DAMS”****List of Category-I Specified Dams reported based on Pre-Monsoon 2023-24 as on 11.07.2023**

S. No.	Name of Dam	State
1	Kumbho	Odisha
2	Rukera	Odisha
3	Jirgo	Uttar Pradesh
4	Lower Khajuri	Uttar Pradesh

**List of Category -II Specified Dams reported based on Pre-Monsoon 2023-24 as on 11.07.2023**

S.No.	Name of Dam	State
1	Adwa Dam	Uttar Pradesh
2	Sirsi Dam	
3	Dhandhraul Dam	
4	Upper Khajuri Dam	
5	Chandraprabha Dam	
6	Rihand Dam	
7	Parichha Weir	
8	Dhukwan Weir	
9	Pahuj Weir	
10	Jamini Dam	
11	Shahjad Dam	
12	Gangau Weir	
13	Maudaha Dam	
14	Dhora Dam	
15	Sharda Sagar Dam	
16	Baigul Dam	
17	Arikul	Odisha
18	Baghijharan	
19	Bhetabar	
20	Bisrapada	
21	Ghagara	
22	Jagadala	
23	Jodabadia	
24	Khasbahal	
25	Liard	
26	Mathanpal	
27	Narayan Sagar	
28	Panaspal	
29	Parhel	
30	Pratappur	
31	Ramiala	
32	Randa	
33	Saipala	

34	Sarapa	
35	Satiguda (UKP)	
36	Laigam	
37	Behera	
38	Bhatrajore	
39	Ghodahada	
40	Garh	
41	Juanria	
42	Rengali	
43	Gunduriposi	
44	Badanalla	
45	Padampur Nalla	
46	Sriram Sagar Project (SRSP)	
47	Shanigaram	
48	Gujjulavagu Project	
49	Pothangal Project	
50	Nizam Sagar	
51	Koulasnala Project	
52	Gundlavagu Project	
53	Pedda Vagu	Telangana
54	Jurala Project (P.J.P)	
55	Relampadu	
56	Kaddem Project (K.N.R. Project)	
57	Suddavagu (Gaddenavagu)	
58	Musi Project	
59	Sathnala Project	
60	Tatikunta	
61	Kharagpur Lake	Bihar
62	Kaushalaya Dam	Haryana
63	Mirzapur Dam	
64	Perch Dam	Punjab
65	Jayanti Dam	
66	Bhimtal Dam	
67	Gola Barrage	Uttarakhand
68	Joshiyara Barrage	
69	Maneri Dam	
70	Jaipur Reservoir	
71	Katri Reservoir	
72	Ranital Reservoir	
73	Butanduba Reservoir	
74	Malay Reservoir	Jharkhand
75	Temrain Reservoir	
76	Chandrapura Weir (CTPS) (DVC)	
77	Bokaro Barrage (BTPS) (DVC)	
78	Tilaiya Dam (DVC)	
79	Jawaharsagar Dam	Jharkhand

80	Silibari Dam	
81	Bundika Gothra Dam	
82	Ranapratap Sager Dam	
83	Uppar(Tirupur) Dam (Tnwrđ)	Tamil Nadu
84	Amaravathi Dam (Tnwrđ)	
85	Poondi (Tnwrđ)	
86	Manimukthanadhi (Tnwrđ)	
87	Willingdon (Tnwrđ)	
88	Gomuki Nadhi (Tnwrđ)	
89	Mirugandanadhi (Tnwrđ)	
90	Kodaganar (Tnwrđ)	
91	Naganjiyar (Tnwrđ)	
92	Thunacadavu (Tnwrđ)	
93	Mettur (Tnwrđ)	
94	Chembarambakkam	
95	Redhills	
96	Anaikuttam	
97	Siddhamalli	
98	Lower Bhavani (Bhavani Sagar)	
99	Sholayar	
100	Kadamparai Dam (Tangedco)	
101	Pillur Dam (Tangedco)	
102	Teesta Barrage	West Bengal
103	Bindu Barrage	
104	Hanumata Dam	
105	Dangra Dam	
106	Sali Dam	
107	Minimata (Hasdeo) Bango	Chhattisgarh
108	Ravishankar Sagar	
109	Tamata Tank	
110	Aamgaon Tank	
111	Hathaikheda Dam	Madhya Pradesh
112	Girwari Bandh	
113	Jakhoda	
114	Raipur Bandh	
115	Udaipur	
116	Nawapura Tank	
117	Bhagwant Sagar Sukta Dam	
118	Chirkhan Dam	
119	Ardla	
120	Chandia Nalla Upper Lower	
121	Junia Tank	
122	Nirendpur	
123	Mansurwari Dam	
124	Juda	
125	Pitamber Garh	

126	Kaduawan	
127	Nandanpur	
128	Tamra Pahad	
129	Chhidua Dam	
130	Panagar Dam	
131	Aoda Dam	
132	Birpur	
133	Nagda Gajora	
134	Dhapora Dam	
135	Chandapatha Dam	
136	Chakarbhata	
137	Hardua Memaary	
138	Bansujara	
139	Danmadi	
140	Bagharu Tank	
141	Rehti Dam	
142	Shivgarth Bedli Dam	
143	Rupaniya Khal Dam	
144	Kukarra	
145	Ghoghari	
146	Bardha	
147	Beerpur Dam	
148	Depalpur Dam	
149	Sakalda	
150	Bansagar Major Multipurpose Dam	
151	Jamakheri Dam	
152	Cheruthoni	
153	Poringalkuthu	
154	Neyyar	
155	Kallada	
156	Malankara	
157	Mangalam	
158	Meenkara	
159	Walayar	
160	Malampuzha	
161	Pothundy	
162	Chulliar	
163	Siruvani	
164	Peruvannamoozhi (Kuttiyadi) Dam	
165	Karapuzha	
166	Kanjirapuzha	
167	Pamba Barrage (Maniyar)	
168	Periyar Valley Barrage (Bhoothathankettu)	
169	Kulur (Pazhassi) Barrage	

Kerala





