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

LOK SABHA

UNSTARRED QUESTION NO. 6345

ANSWERED ON 05.04.2018

SAFETY OF DAMS

6345. DR. KAMBHAMPATI HARIBABU

Will the Minister of WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION be pleased to state:

- (a) whether the Government is considering to facelift large dams in the country and if so, the details thereof, Statewise;
- (b) whether there is any threat in terms of safety of dams as reported to the Government due to their overage and if so, the details thereof; and
- (c) the major works which are going to be included in facelift of the dams?

ANSWER

THE MINISTER OF STATE FOR WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION & PARLIAMENTARY AFFAIRS

(SHRI ARJUN RAM MEGHWAL)

(a) Yes, Madam. Government of India with financial assistance from World Bank started Dam Rehabilitation and Improvement Project (DRIP) in 2012 for rehabilitation of 223 dam projects, initially in 4 States (namely Kerala, Madhya Pradesh, Odisha and Tamil Nadu) and Central Water Commission (CWC). Later, Karnataka Water Resources Department, Damodar Valley Corporation (DVC) and Uttarakhand Jal Vidyut Nigam Limited (UJVNL) joined the project.

State-wise details of dams and fund allocated under DRIP are at Annexure-I.

(b) Safety of dams primarily rests with dam owners which are mostly State Governments, Central and State power generating PSUs. Dam owners generally carry out pre-monsoon and post-monsoon inspections of their dams to identify deficiencies or areas that need monitoring or immediate attention.

Union Government constituted National Committee on Dam Safety (NCDS) headed by Chairman, CWC and representatives from State Governments and PSUs. The objectives/mandates of NCDS are:

i) To oversee dam safety activities in various States and suggest improvements to bring these in line with the latest state-of-art consistently with Indian conditions.

- ii) To act as a forum of exchange of views on techniques adopted for remedial measures to relieve distress.
- iii) To monitor the follow-up action on the report on dam safety procedures.
- iv) To recommend any other measures connected with dam safety.

38 meetings of NCDS have been conducted so far.

Under DRIP, safety conditions of about 225 dam projects have been comprehensively reviewed by the Dam Safety Review Panel (DSRP). During the comprehensive review by the DSRP, it was found that many dams have structural deficiencies and shortcomings in operation and monitoring facilities on account of ageing. Some dams do not meet the present design standards – both hydrologically and structurally. The list of dams reviewed by the DSRP under DRIP is at **Annexure-II**.

- (c) The major works carried out for rehabilitation and improvement of dams under DRIP are:
- i) Hydrological safety review to check the adequacy of the spillway for safely passage of revised design flood, through structural and non-structural measures;
- ii) Treatment of leakage through masonry and concrete dams,
- iii) Reduction of seepage through earth dams and their foundations
- iv) Improving dam drainage;
- v) Improving approach roads and access to all parts of dam;
- vi) Rehabilitation and improvement of spillway, head regulator and draw-off gates and their operating mechanisms;
- vii) Providing dam safety instrumentations, improving communication system between upstream and downstream control points;
- viii) Preparation of Emergency and Disaster Management Plan;
- ix) Preparation of operation and maintenance manuals etc.

Annexure referred to in reply to part (a) of the Unstarred Question No.6345 to be answered in Lok Sabha on 05.04.2018 regarding "Safety of Dams".

State-wise details of dams and fund allocated to Project Implementing Agencies (IAs) under DRIP

Implementing Agency	State	No of DRIP dams	Fund Allocated (Rs. Crore)
Water Resource	Kerala	28	279.98
Department & State Electricity Board	Keraia	28	219.98
Water Resource	Orissa	26	147.74
Department Water Resource	Madhya	2.2	
Department	Pradesh	25	314.54
Water Resource Department & Tamil Nadu Generation and Distribution Corporation Limited (TANGENCO)	Tamil Nadu	89	745.49
Water Resource Department	Karnataka	22	276.75
Damodar Valley Corporation	Jharkhand	3	139.40
Uttarakhand Jal Vidyut Nigam Limited (UJVNL)	Uttarakhand	5	64.10
Central Water Commission			132.00
10.00	Total	198	2100.00

Annexure referred to in reply to part (b) of the Unstarred Question No.6345 to be answered in Lok Sabha on 05.04.2018 regarding "Safety of Dams".

List of dams reviewed by the DSRP under DRIP

S.No	Implementing Agency	Name of Dam
TAMI	L NADU	
1	TANGEDCO	AVALANCHE
2	TANGEDCO	BUNGHIHALLABUND
3	TANGEDCO	CHINNAKUTIYAR
		EAST VARAHAPALLAM
4	TANGEDCO	WEIR
5	TANGEDCO	EMERALD
6	TANGEDCO	ERAVANGALAR
7	TANGEDCO	GLENMORGAN
8	TANGEDCO	HIGHWAVYS
9	TANGEDCO	KADAMBARAI
10	TANGEDCO	KODAYAR I
11	TANGEDCO	KODAYAR II
12	TANGEDCO	KUNDAHPALAM
13	TANGEDCO	KUTTIYAR
14	TANGEDCO	MANALAR
15	TANGEDCO	MARAVAKANDI
16	TANGEDCO	MOYAR FOREBAY
17	TANGEDCO	MUKURTHI
18	TANGEDCO	NIRALAPALLAM
19	TANGEDCO	PAPANASAM DIV WEIR
20	TANGEDCO	PARSON'S VALLEY
21	TANGEDCO	PEGUMBAHALLAH
22	TANCEDCO	FOREBAY DEDIVAR FOREBAY
22	TANGEDCO	PERIYAR FOREBAY
23	TANGEDCO	PILLUR
24	TANGEDCO	PORTHIMUND
25	TANGEDCO	PYKARA
26	TANGEDCO	PYKARA NEW FOREBAY
27	TANGEDCO	SANDYNALLAH
28	TANGEDCO	SERVALAR
29	TANGEDCO	THAMBRAPARANI
30	TANGEDCO	UPPER ALIYAR
31	TANGEDCO	UPPER BHAVANI
32	TANGEDCO	UPPER BHAVANI PUMPING
22	TANCEDCO	WEIR
33	TANGEDCO	VANDAL WEIR
34	TANGEDCO	VENNIRAR
35	TANGEDCO	WEST VARAHAPALLAM
		WEIR
36	TANGEDCO	WESTERN CATCHMENT
		NO.1
37	TANGEDCO	WESTERN CATCHMENT
		NO.2
38	TANGEDCO	WESTERN CATCHMENT
20	TNUUDD	NO.3
39	TNWRD	ADAVINAINARKOVIL
40	TNWRD	ALIYAR
41	TNWRD	AMARAVATHI
42	TNWRD	ANAI MADUVU
43	TNWRD	ANAIKUTTAM
44	TNWRD	BHAVANISAGAR
45	TNWRD	CHEMBARAMPAKKAM
46	TNWRD	CHINNAR
47	TNWRD	CHITTAR I
48	TNWRD	CHITTAR II
49	TNWRD	CHOLAVARAM
50	TNWRD	GATANA
51	TNWRD	GOLWARPATTI
52	TNWRD	GOMUKHINADI
53		GUNDERIPALLAM

S.No	Implementing	Name of Dam
5.1	Agency	V A DI A VOII
54 55	TNWRD TNWRD	KARIAKOIL KARUPPANADHI
56	TNWRD	KELAVARAPALLI
57	TNWRD	KESARIGULIHALLA
58	TNWRD	KODAGANAR
59	TNWRD	KODUMUDIYAR
60	TNWRD	KRISHNAGIRI
61	TNWRD	KULLURSANDAI
62	TNWRD	KUTHIRAIYAR
63	TNWRD	LOWER ANICUT
64	TNWRD	LOWER NIRAR
65	TNWRD	MANIMUKTHANADHI
66	TNWRD	MANIMUTHAR
67	TNWRD	MANJALAR
68	TNWRD	MARUDHANADHI
69	TNWRD	METTUR
70	TNWRD	MORDHANA
71	TNWRD	NAGAVATHI
72	TNWRD	NAMBIAR
73	TNWRD	NOYYAL ATHUPALAYAM
74	TNWRD	PALAR PORUNDALAR
75	TNWRD	PAMBAR
76	TNWRD	PARAMBIKULAM
77	TNWRD	PECHIPARAI
78	TNWRD	PERUNCHANI
79	TNWRD	PERUVARIPALLAM
		PILAVUKKAL PROJECT
80	TNWRD	KOVILAR
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81	TNWRD	PERIYAR
82	TNWRD	POIGAIYAR
83	TNWRD	PONNANIYAR
84	TNWRD	POONDI
85	TNWRD	RAMANADHI
86	TNWRD	RED HILLS
87	TNWRD	SATHANUR
88	TNWRD	SHANMUGANADHI
89	TNWRD	SHOLAYAR
90	TNWRD	SHOOLAGIRICHINNAR
91	TNWRD	SIDDHAMALLI
92	TNWRD	SOTHUPPARAI
93	TNWRD	THIRUMURTHI DAM
94	TNWRD	THOPPAIYAR
95	TNWRD	THUMBALAHALLI DAM
96	TNWRD	THUNAKADAVU
97	TNWRD	UPPER (TIRPUR)
98	TNWRD	UPPER (TRICHY)
99	TNWRD	UPPER NIRAR WEIR.
100	TNWRD	VADAKKUPAICHAIYAR
101	TNWRD	VAIGAI
102	TNWRD	VANIAR
103	TNWRD	VARATTUPALLAM
104	TNWRD	VEERANAM
105	TNWRD	VEMBAKOTTAI
106	TNWRD	VIDUR
107	TNWRD	WILLINGTON RESERVOIR
KERA		a . p . p . q
108	KSEB	SABARIGIRI HEP
109	KSEB	PANNIYAR HEP
110	KSEB	IDAMALAYAR (EB)
111	KSEB	IDUKKI (HEB)

S.No	Implementing Agency	Name of Dam
112	KSEB	KALLARKUTTY (EB)
113	KSEB	KUTTIYADI HEP
114	KSEB	LOWER PERIYAR HEP
115	KSEB	PALLIVASAL HEP
116	KSEB	KAKKAD HEP
117	KSEB	PORINGALKUTHU (EB)
118	KSEB	SENGULAM (EB)
119	KSEB	SHOLAYAR HEP
120	KWRD	CHIMONI (ID)
121	KWRD	CHULLIAR (GAYATHRI STAGEII) (ID)
122	KWRD	KALLADA (PARAPPAR) (ID)
123	KWRD	KANJIRA PUZHA (ID)
124	KWRD	KUTTIYADI (IRRIGN. PROJ.)
		(ID)
125	KWRD	MALAMPUZHA (ID)
126	KWRD	MEENKARA (GAYATHRI STAGE I) (ID)
127	KWRD	MOOLATHARA
		REG.(CHITTURPUZHA) MALANKARA /
128	KWRD	MUVATTUPUZHA
120	KWKD	IRRIGATION
129	KWRD	NEYYAR (ID)
129	KWKD	PAZHASSI IRRIGATION
130	KWRD	PROJECT
131	KWRD	PEECHI (ID)
131	KWKD	PERIYAR VALLEY
132	KWRD	BARRAGE (ID)
133	KWRD	POTHUNDY (ID)
134	KWRD	VAZHANY (ID)
135	KWRD	WALAYAR (ID)
	HYA PRADESH	` ′
136	MPWRD	ARI DAM
137	MPWRD	ARNIYA BAHADURPUR
		BAHURIBAND
138	MPWRD	TANK(KATNI)
139	MPWRD	BARNA
140	MPWRD	BIRPUR
141	MPWRD	BUNDALA
142	MPWRD	CHANDPATHA
143	MPWRD	CHANDRAKESHAR
		DHOLAWAD
144	MPWRD	TANK(RATLAM)
		DUDHI (KUNWAR CHAIN
145	MPWRD	SAGAR)
146	MPWRD	JIRBHAR
147	MPWRD	KANCHAN(SINGRAULI)
		KANHARGAON
148	MPWRD	TANK(CHHINDWARA)
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UTTARAKHAND
218 LIIVNI ASAN BARRAGE
210 USTILL ADAM DAMMOD
219 UJVNL DAKPATHAR BARRAGE
220 UJVNL ICHARI DAM
221 UJVNL MANERI DAM
222 UJVNL VIRBHADRA RISHIKESH
DAMODAR VALLEY CORPORATION LIMITED
223 DVC KONAR DAM
225 DVC PANCHET