

GOVERNMENT OF INDIA
MINISTRY OF WATER RESOURCES,
RIVER DEVELOPMENT & GANGA REJUVENATION
LOK SABHA
UNSTARRED QUESTION NO. †1797
ANSWERED ON 28.12.2017

CONSTRUCTION OF NEW RESERVOIRS

†1797. SHRI RAKESH SINGH

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

- (a) whether the ground water level has been receding day by day in the country and if so, the details thereof;
- (b) whether water level of major reservoirs has also fallen in the country during the last three years and if so, the details thereof;
- (c) whether the Government proposes to construct new reservoirs in the country and has taken steps to improve the ground water level also; and
- (d) if so, the details thereof; and
- (e) whether any success has been achieved by the Government through these corrective measures and if so, the details thereof?

ANSWER

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

(SHRI ARJUN RAM MEGHWAL)

(a) Central Ground Water Board (CGWB) carries out ground water monitoring, four times a year, on regional scale through a network of observation wells in the Country. Comparison and analysis of Pre-monsoon (2017) water level data collected by CGWB with the decadal average (2007-2016) indicates decline in ground water level in about 61% of the wells. Details are given at **Annexure - I**.

(b) Central Water Commission is monitoring live storage status of 91 reservoirs of the country on weekly basis. The details of water level and live storage status of reservoirs for the year 2015 to 2017 is given at **Annexure - II**.

(c) to (e) It is to mention that in India, water resources projects are owned, constructed, maintained and operated by the respective State/UT Governments. Government of India supplements the efforts of the State/UT Governments by providing technical and financial assistance through various schemes and programmes after due appraisal of DPRs of the proposals received from States/UTs.

Ground Water Resource Assessment of the country is being periodically carried out jointly by CGWB and State Governments. The total annual replenishable ground water resource in 2011 was 433 billion cubic meter (BCM) and as per latest assessment (2013), the annual replenishable ground water resource of the country is 447 BCM.

During assessment year 2013, out of 6584 assessment units in the country, 1034 (15.7%) assessment units are categorized as “Over-Exploited”, whereas during assessment year 2011, the respective figures were 6607 and 1071 (16.2%).

Besides, other steps taken by the Central Government for conservation of ground water are available at the following URL http://mowr.gov.in/writereaddata/GW_Depletion.pdf

ANNEXURE - I

Annexure referred in reply to Lok Sabha Unstarred Question No.1797 to be answered on 28.12.2017 regarding 'Construction of New Reservoirs'

State-wise Decadal Water Level Fluctuation with Mean [Pre-monsoon (2007 to 2016)] and Pre-monsoon 2017

S. No.	Name of State	No. of wells Analysed	Rise		Fall		Wells showing no change	
			No.	%	No.	%	No.	%
1	Andhra Pradesh	751	184	25	563	75	4	0.5
2	Arunachal Pradesh	12	9	75	3	25	0	0.0
3	Assam	164	71	43	92	56	1	0.6
4	Bihar	625	362	58	258	41	5	0.8
5	Chandigarh	10	1	10	9	90	0	0.0
6	Chhattisgarh	566	219	39	346	61	1	0.2
7	Dadra & Nagar Haveli	16	6	38	10	63	0	0.0
8	Daman & Diu	11	7	64	4	36	0	0.0
9	Delhi	94	33	35	61	65	0	0.0
10	Goa	65	50	77	15	23	0	0.0
11	Gujarat	799	301	38	473	59	25	3.1
12	Haryana	302	95	31	207	69	0	0.0
13	Himachal Pradesh	90	33	37	57	63	0	0.0
14	Jammu & Kashmir	226	75	33	151	67	0	0.0
15	Jharkhand	218	90	41	128	59	0	0.0
16	Karnataka	1421	423	30	985	69	13	0.9
17	Kerala	1366	405	30	957	70	4	0.3
18	Madhya Pradesh	1318	660	50	658	50	0	0.0
19	Maharashtra	1562	667	43	887	57	8	0.5
20	Meghalaya	20	6	30	14	70	0	0.0
21	Odisha	1283	506	39	773	60	4	0.3
22	Puducherry	5	0	0	5	100	0	0.0
23	Punjab	234	36	15	198	85	0	0.0
24	Rajasthan	859	431	50	428	50	0	0.0
25	Tamil Nadu	536	71	13	465	87	0	0.0
26	Telangana	586	315	54	267	46	4	0.7
27	Tripura	26	18	69	8	31	0	0.0
28	Uttar Pradesh	637	187	29	450	71	0	0.0
29	Uttarakhand	46	21	46	24	52	1	2.2
30	West Bengal	617	327	53	289	47	1	0.2
	Total	14465	5609	38.8	8785	60.7	71	0.5

ANNEXURE - II

Annexure referred in reply to Lok Sabha Unstarred Question No.1797 to be answered on 28.12.2017 regarding 'Construction of New Reservoirs'

Live Storage in Billion Cubic Meter (BCM) at the beginning and end of monsoon for the year 2015-2017.

Sl. No	Name of Reservoirs	States	Live storage Cap at FRL	01.06.2015	01.06.2016	01.06.2017	30.09.2015	30.09.2016	30.09.2017
1	SRISAILAM	(AP/TG)	8.288	0	0.433	0.433	1.724	5.69	4.250
2	NAGARJUNA SAGAR	(AP/TG)	6.841	0.215	0	0	0.043	0.984	0.396
3	SOMASILA	(A.P)	1.994	0.301	0.615	0.217	0.297	0.833	0.557
4	SRIRAMSAGAR	(TG)	2.3	0.326	0.132	0.255	0.228	2.3	1.105
5	LOWER MANAIR	(TG)	0.621	0.124	0.07	0.214	0.114	0.621	0.203
6	TENUGHAT	(JHAR)	0.821	0.33	0.263	0.356	0.427	0.422	0.425
7	MAITHON	(JHAR)	0.471	0.077	0.04	0.115	0.274	0.471	0.471
8	PANCHET HILL	(JHAR)	0.184	0.074	0.008	0.082	0.108	0.184	0.184
9	KONAR	(JHAR)	0.176	0.072	0.045	0.032	0.149	0.176	0.132
10	TILAIYA	(JHAR)	0.142	0.04	0.019	0.035	0.149	0.142	0.123
11	UKAI	(GUJ)	6.615	1.176	0.6	2.111	5.142	5.671	3.457
12	SABARMATI(DHAROI)	(GUJ)	0.735	0.087	0.163	0.164	0.666	0.714	0.735
13	KADANA	(GUJ)	1.472	0.837	0.296	0.771	0.921	1.119	1.186
14	SHETRUNJI	(GUJ)	0.300	0.031	0.3	0.042	0.3	0.16	0.182
15	BHADAR	(GUJ)	0.188	0.023	0.134	0.001	0.163	0.012	0.179
16	DAMANAGANGA	(GUJ)	0.502	0.067	0.069	0.064	0.483	0.475	0.470
17	DANTIWADA	(GUJ)	0.399	0.009	0.399	0.002	0.343	0.127	0.387
18	PANAM	(GUJ)	0.697	0.317	0.122	0.212	0.364	0.424	0.556
19	SARDAR SAROVAR	(GUJ)	1.566	0.955	1.215	1.134	1.412	1.502	1.566
20	KARJAN	(GUJ)	0.523	0.151	0.072	0.136	0.356	0.275	0.485
21	GOBIND SAGAR(BHAKRA)	(H.P)	6.229	2.66	1.755	1.389	5.906	4.554	5.457
22	PONG DAM	(H.P)	6.157	2.259	0.476	0.807	5.319	4.296	5.183
23	KRISHNARAJA SAGRA	(KAR)	1.163	0.137	0.148	0.059	1.996	0.316	0.748
24	TUNGABHADRA	(KAR)	3.276	1.538	0.342	0.027	0.53	1.263	2.035
25	GHATAPRABHA	(KAR)	1.391	0.076	0.033	0.046	1.181	1.143	1.153
26	BHADRA	(KAR)	1.785	0.472	0.117	0.006	2.195	0.929	1.181
27	LINGANAMAKKI	(KAR)	4.294	0.647	0.78	0.387	0.52	2.493	2.567
28	NARAYANPUR	(KAR)	0.863	0.19	0.061	0.122	0.261	0.738	0.707
29	MALAPRABHA(RENUKA)	(KAR)	0.972	0.07	0.014	0.021	0.243	0.353	0.342
30	KABINI(Sancherla Tank)	(KAR)	0.444	0.174	0	0	1.782	0.24	0.399
31	HEMAVATHY	(KAR)	0.927	0.144	0.092	0.037	0.053	0.196	0.314
32	HARANGI	(KAR)	0.220	0.03	0.018	0.034	1.657	0.177	0.215
33	SUPA	(KAR)	4.120	1.432	0.866	1.172	0.086	2.352	2.423
34	VANIVILAS SAGAR	(KAR)	0.802	0.045	0.05	0.018	0.216	0.04	0.013
35	ALMATTI	(KAR)	3.105	0.179	0.036	0	0.052	3.105	3.105
36	GERUSOPPA	(KAR)	0.130	0.104	0.11	0.108	0.136	0.102	0.111
37	KALLADA(PARAPPAR)	(KRL)	0.507	0.125	0.203	0.05	2.055	0.162	0.374
38	IDAMALAYAR	(KRL)	1.018	0.205	0.172	0.174	2.968	0.586	0.749
39	IDUKKI	(KRL)	1.460	0.491	0.289	0.161	3.43	0.682	0.879
40	KAKKI	(KRL)	0.447	0.1	0.13	0.059	8.603	0.277	0.307
41	PERIYAR	(KRL)	0.173	0.059	0.014	0.006	1.871	0.021	0.092
42	MALAMPUZHA	(KRL)	0.224	0.047	0.015	0.018	0.487	0.092	0.137
43	GANDHI SAGAR	(M.P.)	6.827	2.755	2.7	3.828	0.147	6.438	4.739
44	TAWA	(M.P.)	1.944	0.567	0.119	0.439	1.971	1.944	1.485
45	BARGI	(M.P.)	3.180	0.612	0.955	0.814	0.062	3.18	2.786
46	BANSAGAR	(M.P.)	5.166	3.142	1.836	2.751	0.161	5.166	3.947
47	INDIRA SAGAR	(M.P.)	9.745	1.443	1.303	1.994	0.314	9.697	3.621
48	BARNA	(M.P.)	0.456	0.104	0.022	0.129	0.116	0.433	0.279
49	MINIMATA BANGOI	(CHH.)	3.046	2.183	0.85	1.767	0.06	2.232	2.135
50	MAHANADI	(CHH.)	0.767	0.074	0.179	0.102	0.018	0.757	0.321
51	JAYAKWADI(PAITHON)	(MAH)	2.171	0.075	0	0.414	0.236	1.559	2.171
52	KOYANA	(MAH)	2.652	0.661	0.106	0.234	0.246	2.652	2.652
53	BHIMA(UJJANI)	(MAH)	1.517	-0.367	0	0	0.892	1.494	1.517
54	ISAPUR	(MAH)	0.965	0.145	0.022	0.043	0.564	0.388	0.140

55	MULA	(MAH)	0.609	0.042	0.036	0.014	0.761	0.608	0.607
56	YELDARI	(MAH)	0.809	0.038	0	0.005	0.177	0.135	0.095
57	GIRNA	(MAH)	0.524	0.042	0	0.128	0.504	0.408	0.343
58	KHADAKVASLA	(MAH)	0.056	0.042	0.024	0.02	0.078	0.055	0.056
59	UPPER VAITARNA	(MAH.)	0.331	0.068	0.097	0.098	0.229	0.331	0.331
60	UPPER TAPI	(MAH.)	0.255	0.154	0	0.023	0.24	0.223	0.249
61	PENCH (TOTALADOH)	(MAH.)	1.091	0.13	0.106	0.054	0.861	0.657	0.429
62	UPPER WARDHA	(MAH.)	0.564	0.17	0.119	0.204	1.36	0.564	0.564
63	BHATSA	(MAH.)	0.942	0.281	0.299	0.349	1.701	0.941	0.937
64	DHOM	(MAH.)	0.331	0.115	0.08	0.053	0.122	0.329	0.313
65	DUDHGANGA	(MAH.)	0.664	0.168	0	0.098	1.109	0.664	0.664
66	MANIKDOH (KUKADI)	(MAH.)	0.288	0.023	0.018	0.008	0.271	0.206	0.232
67	BHANDARDARA	(MAH.)	0.304	0.03	0.004	0.051	0.043	0.304	0.304
68	HIRAKUD	(ODI)	5.378	1.082	0.918	1.182	0.272	4.519	4.823
69	BALIMELA	(ODI)	2.676	1.317	0.968	0.657	0.082	2.065	1.052
70	SALANADI	(ODI)	0.558	0.211	0.172	0.161	0.097	0.31	0.227
71	RENGALI	(ODI)	3.432	1.546	0.448	0.999	0.531	3.14	3.261
72	MACHKUND(JALPUT)	(ODI)	0.893	0.279	0.275	0.14	2.073	0.786	0.792
73	UPPER KOLAB	(ODI)	0.935	0.396	0.208	0.247	1.628	0.758	0.471
74	UPPER INDRAVATI	(ODI)	1.456	0.425	0.389	0.346	2.315	1.147	0.840
75	THEIN	(PUN)	2.344	1.841	0.842	1.36	0.255	1.599	1.660
76	MAHI BAJAJ SAGAR	(RAJ)	1.711	0.512	1.341	0.563	0.266	1.711	1.711
77	JHAKAM	(RAJ)	0.132	0.024	0.132	0.036	0.132	0.132	0.132
78	RANA PRATAP SAGAR	(RAJ)	1.436	0.294	0.457	0.374	1.436	1.403	0.799
79	LOWER BHAWANI	(TN)	0.792	0.235	0.056	0.074	0.402	0.147	0.467
80	METTUR(STANLEY)	(TN)	2.647	0.967	0.433	0.146	1.879	1.174	1.581
81	VAIGAI	(TN)	0.172	0.042	0.012	0.007	0.091	0.007	0.044
82	PARAMBIKULAM	(TN)	0.380	0.062	0.033	0.02	0.377	0.139	0.190
83	ALIYAR	(TN)	0.095	0.077	0.036	0.022	0.095	0.007	0.040
84	SHOLAYAR	(TN)	0.143	0.016	0	0	0.144	0.058	0.111
85	GUMTI	(TRP)	0.312	0.017	0.146	0.162	0.203	0.258	0.301
86	MATATILA	(UP)	0.707	0.404	0.07	0.067	0.641	0.641	0.641
87	RIHAND	(UP)	5.649	0.829	0.918	1.744	2.517	4.544	3.717
88	RAMGANGA	(UTT)	2.196	1.329	1.42	0	1.882	1.179	1.307
89	TEHRI	(UTT)	2.615	0.232	0.042	0.061	2.394	2.386	2.402
90	MAYURAKSHI	(WB)	0.480	0.072	0.073	0.109	0.252	0.407	0.429
91	KANGSABATI	(WB)	0.914	0.191	0.18	0.233	0.843	0.81	0.644
	TOTAL	Total	157.799	41.493	29.16	33.407	88.26	117.111	104.099
	PERCENTAGE			26	18	21	56	74	66