

GOVERNMENT OF INDIA  
MINISTRY OF WATER RESOURCES,  
RIVER DEVELOPMENT AND GANGA REJUVENATION  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 645**  
ANSWERED ON 23.7.2015

**WATER STORAGE CAPACITY OF DAMS AND RESERVOIRS**

645. SHRI JOSE K. MANI

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

- (a) whether most of the countrys' dams and reservoirs have presently comfortable level of water storage and if so, the details thereof;
- (b) whether the July-August monsoons rainfalls during current year is likely to be normal thereby raising the water storage capacities in dams/reservoirs; and
- (c) if so, the details thereof?

**ANSWER**

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

(PROF. SANWAR LAL JAT)

(a) Central Water Commission is monitoring live storage status of 91 reservoirs, having total live storage capacity as 157.799 BCM, which is about 62% of the total live storage capacity of the country i.e. 253.388 BCM (year 2010) and is issuing weekly bulletin on every Thursday for use of different stakeholders.

As per reservoir bulletin issued on 16.07.2015, live storage available in above mentioned 91 reservoirs was 51.622 BCM which is 33% of total live storage capacity of these reservoirs. This storage is 133% of the storage of corresponding period of last year and 112% of storage of average of last ten years of these dams.

Thus, based on the storage position of 91 dams mentioned above, the overall storage position is better than the corresponding period of last year in the country as a whole and is also better than the average storage of last ten years during the corresponding period. The storage position of major reservoirs as on 16<sup>th</sup> July, 2015 is enclosed as **Annexure-I**.

(b) & (c): As per IMD forecast issued dated 02.06.2015 for the Monsoon 2015:

- Rainfall over the country as a whole for the 2015 southwest monsoon season (June to September) is likely to be deficient (<90% of LPA).
- Quantitatively, monsoon season rainfall for the country as a whole is likely to be 88% of the long period average with a model error of  $\pm 4\%$ .
- Region wise, the season rainfall is likely to be 85% of LPA over North-West India, 90% of LPA over Central India, 92% of LPA over South Peninsula and 90% of LPA over North-East India all with a model error of  $\pm 8\%$ .
- The monthly rainfall over the country as a whole is likely to be 92% of its LPA during July and 90% of LPA during August both with a model error of  $\pm 9\%$ .

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Annexure referred to in reply of Part(a) of Lok Sabha Unstarred Question No.645 answered on 23.  
on Water Storage Capacity of Dams and Reser

**WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS**

WEEK ENDING

**16.07.2015**

S.NO	NAME OF RESERVOIR	(STATE)	BENEFITS		FRL (MTS.)	LIVE CAP. AT FRL (BCM)	LATEST DATE AVAILABLE	THIS SEASON	
			IRR. (CCA)IN TH. HA	HYDEL IN MW				LEVEL ( MTS)	LIVE STORAGE (BCM)
1	2		3A	3B	4	5	6	7	8
*1	SRISAILAM	(AP/TG)	0	770	269.75	8.288	7/16/2015	244.53	0.000
*2	NAGARJUNA SAGAR	(AP/TG)	895	810	179.83	6.841	7/16/2015	155.94	0.077
3	SOMASILA	(A.P)	168	0	100.58	1.994	7/14/2015	83.52	0.272
4	SRIRAMSAGAR	(TG)	411	27	332.54	2.3	7/16/2015	321.81	0.280
5	LOWER MANAIR	(TG)	199	60	280.42	0.621	7/16/2015	269.50	0.117
6	TENUGHAT	(JHAR)	-	-	269.14	0.821	7/16/2015	256.84	0.306
7	MAITHON	(JHAR)	342	-	146.30	0.471	7/16/2015	141.17	0.201
*8	PANCHET HILL	(JHAR)	\$	80	124.97	0.184	7/16/2015	124.19	0.147
9	KONAR	(JHAR)	\$	-	425.81	0.176	7/16/2015	417.70	0.055
10	TILAIYA	(JHAR)	\$	4	368.81	0.142	7/16/2015	365.96	0.052
*11	UKAI	(GUJ)	348	300	105.16	6.615	7/13/2015	91.51	1.348
12	SABARMATI(DHAROI)	(GUJ)	95	1	189.59	0.735	7/16/2015	181.83	0.165
*13	KADANA	(GUJ)	200	120	127.70	1.472	7/16/2015	122.00	0.673
14	SHETRUNJI	(GUJ)	36	-	55.53	0.300	7/16/2015	55.12	0.027
15	BHADAR	(GUJ)	27	-	107.89	0.188	7/16/2015	106.92	0.015
16	DAMANAGANGA	(GUJ)	51	1	79.86	0.502	7/13/2015	69.80	0.123
17	DANTIWADA	(GUJ)	45	-	184.10	0.399	7/16/2015	165.99	0.015
18	PANAM	(GUJ)	36	2	127.41	0.697	7/16/2015	123.80	0.034
*19	SARDAR SAROVAR	(GUJ)	2120	1450	121.92	1.566	7/13/2015	116.06	0.655
20	KARJAN	(GUJ)	51	3	115.25	0.523	7/13/2015	99.90	0.170
*21	GOBIND SAGAR(BHAKRA)	(H.P)	676	1200	512.06	6.229	7/16/2015	495.66	3.586
*22	PONG DAM	(H.P)	-	360	423.67	6.157	7/15/2015	408.52	2.752
23	KRISHNARAJA SAGRA	(KAR)	79	-	752.50	1.163	7/15/2015	747.66	0.743
*24	TUNGABHADRA	(KAR)	529	72	497.74	3.276	7/16/2015	491.43	1.129
25	GHATAPRABHA	(KAR)	317	-	662.95	1.391	7/16/2015	642.83	0.307
26	BHADRA	(KAR)	106	39	657.76	1.785	7/16/2015	648.80	0.867
27	LINGANAMAKKI	(KAR)	-	55	554.43	4.294	7/16/2015	540.29	1.224
28	NARAYANPUR	(KAR)	425	-	492.25	0.863	7/9/2015	488.38	0.320
29	MALAPRABHA(RENUKA)	(KAR)	215	-	633.83	0.972	7/16/2015	624.68	0.177
30	KABINI	(KAR)	85	-	696.16	0.444	7/15/2015	695.78	0.421
31	HEMAVATHY	(KAR)	265	-	890.63	0.927	7/15/2015	886.52	0.686
32	HARANGI	(KAR)	53	-	871.42	0.220	7/15/2015	869.17	0.166
33	SUPA	(KAR)	-	-	564.00	4.120	7/16/2015	535.90	1.472
34	VANIVILAS SAGAR	(KAR)	123	-	652.28	0.802	7/16/2015	634.21	0.044

*35	ALMATTI	(KAR)	@	290	519.60	3.105	7/9/2015	514.72	1.370	
*36	GERUSOPPA	(KAR)		83	240	55.00	0.130	7/16/2015	48.74	0.096
	37 KALLADA(PARAPPAR)	(KRL)		62	-	115.82	0.507	7/15/2015	94.60	0.124
*38	IDAMALAYAR	(KRL)		33	75	169.00	1.018	7/15/2015	142.50	0.358
*39	IDUKKI	(KRL)		-	780	732.43	1.460	7/15/2015	715.91	0.655
*40	KAKKI	(KRL)		23	300	981.46	0.447	7/15/2015	955.57	0.147
*41	PERIYAR	(KRL)		84	140	867.41	0.173	7/15/2015	863.46	0.098
	42 MALAMPUZHA	(KRL)		21	3	115.06	0.224	7/16/2015	108.77	0.101
*43	GANDHI SAGAR	(M.P.)		220	115	399.90	6.827	7/15/2015	392.08	2.699
	44 TAWA	(M.P.)		247	-	355.40	1.944	7/16/2015	345.06	0.653
*45	BARGI	(M.P.)		157	90	422.76	3.180	7/16/2015	412.50	0.989
*46	BANSAGAR	(M.P.)		488	425	341.64	5.166	7/15/2015	336.00	2.847
*47	INDIRA SAGAR	(M.P.)		2380	1000	262.13	9.745	7/16/2015	248.07	1.404
	48 BARNA	(M.P.)		546	-	348.55	0.456	7/15/2015	341.98	0.105
*49	MINIMATA BANGOI	(CHH.)		-	120	359.66	3.046	7/15/2015	355.90	2.270
	50 MAHANADI	(CHH.)		319	10	348.70	0.767	7/15/2015	340.81	0.192
	51 JAYAKWADI(PAITHON)	(MAH)		227	-	463.91	2.171	7/16/2015	455.53	0.001
*52	KOYANA	(MAH)		-	1920	657.90	2.652	7/15/2015	642.62	1.154
	53 BHIMA(UJJANI)	(MAH)		125	12	496.83	1.517	7/15/2015	489.83	0.000
	54 ISAPUR	(MAH)		104	-	441.00	0.965	7/15/2015	430.54	0.213
	55 MULA	(MAH)		139	-	552.30	0.609	7/16/2015	535.74	0.032
	56 YELDARI	(MAH)		78	-	461.77	0.809	7/15/2015	448.13	0.011
	57 GIRNA	(MAH)		79	-	398.07	0.524	7/15/2015	384.19	0.044
	58 KHADAKVASLA	(MAH)		78	8	582.47	0.056	7/15/2015	578.05	0.007
*59	UPPER VAITARNA	(MAH.)		-	61	603.50	0.331	7/15/2015	594.91	0.089
	60 UPPER TAPI	(MAH.)		45	-	214.00	0.255	7/15/2015	209.82	0.057
*61	PENCH (TOTALADOH)	(MAH.)		127	160	490.00	1.091	7/9/2015	472.03	0.142
	62 UPPER WARDHA	(MAH.)		70	-	342.50	0.564	7/16/2015	338.88	0.286
	63 BHATSA	(MAH.)		29.378	15	142.07	0.942	7/15/2015	110.80	0.307
	64 DHOM	(MAH.)		36.2	2	747.7	0.331	7/15/2015	734.91	0.147
	65 DUDHGANGA	(MAH.)		2.441	24	646	0.664	7/15/2015	631.90	0.277
	66 MANIKDOH (KUKADI)	(MAH.)		2.2	6	711.25	0.288	7/15/2015	684.87	0.027
	67 BHANDARDARA	(MAH.)		63.74	46	744.91	0.304	7/15/2015	725.49	0.084
*68	HIRAKUD	(ODI)		153	307	192.02	5.378	7/16/2015	186.60	1.934
*69	BALIMELA	(ODI)		-	360	462.08	2.676	7/15/2015	452.93	1.294
	70 SALANADI	(ODI)		42	-	82.30	0.558	7/16/2015	70.90	0.235
*71	RENGALI	(ODI)		3	200	123.50	3.432	7/15/2015	117.11	1.462
*72	MACHKUND(JALPUT)	(ODI)		-	115	838.16	0.893	7/15/2015	830.99	0.391
*73	UPPER KOLAB	(ODI)		89	320	858.00	0.935	7/15/2015	851.26	0.371
*74	UPPER INDRAVATI	(ODI)		128	600	642.00	1.456	7/16/2015	630.85	0.405
*75	THEIN	(PUN)		348	600	527.91	2.344	7/14/2015	523.65	1.999
*76	MAHI BAJAJ SAGAR	(RAJ)		63	140	280.75	1.711	7/16/2015	269.70	0.572
	77 JHAKAM	(RAJ)		28	-	359.50	0.132	7/16/2015	343.15	0.023
*78	RANA PRATAP SAGAR	(RAJ)		229	172	352.81	1.436	7/16/2015	346.33	0.343
	79 LOWER BHAWANI	(TN)		105	8	278.89	0.792	7/15/2015	274.50	0.533
*80	METTUR(STANLEY)	(TN)		122	360	240.79	2.647	7/15/2015	230.28	1.349

81 VAIGAI	(TN)	61	6	279.20	0.172	7/15/2015	273.28	0.062
82 PARAMBIKULAM	(TN)	101	-	556.26	0.380	7/15/2015	541.51	0.103
83 ALIYAR	(TN)	#	60	320.04	0.095	7/15/2015	317.66	0.080
*84 SHOLAYAR	(TN)	-	95	1002.79	0.143	7/15/2015	994.52	0.103
85 GUMTI	(TRP)	-	15	93.55	0.312	7/15/2015	89.55	0.142
86 MATATILA	(UP)	-	30	308.46	0.707	7/15/2015	305.68	0.359
*87 RIHAND	(UP)	-	300	268.22	5.649	7/15/2015	257.80	1.427
*88 RAMGANGA	(UTT)	1897	198	365.30	2.196	7/15/2015	356.06	1.521
*89 TEHRI	(UTT)	2351	1000	830.00	2.615	7/16/2015	770.15	0.636
90 MAYURAKSHI	(WB)	227	-	121.31	0.480	7/16/2015	117.03	0.286
91 KANGSABATI	(WB)	341	-	134.14	0.914	7/16/2015	127.09	0.380

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<b>TOTAL FOR 91 RESERVOIRS</b>		<b>20053.959</b>	<b>16082</b>		<b>157.799</b>			<b>51.622</b>
PERCENTAGE								<b>33</b>

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\* HYDEL POWER CAPACITY HAVING CAPACITY MORE THAN 60MW

\$ TOTAL CCA 342 TH. HA OF DVC SYSTEM

# TOTAL CCA 101 TH. HA OF PARAMBIKULAM & ALIYAR

@' TOTAL CCA 425 TH. HA. OF NARAYANPUR AND ALMATTI

† SABARMATI RESERVOIR IS SUPPLEMENTED WITH NARMADA WATER THROUGH PIPELINE.

Sl. No. 19th The FRL of S.S.P. 138.38 M and Live capacity at FRL will be 5.760 BCM. However at present the lowest block of the dam (At sl. 30th) 0.444 BCM, Live storage at FRL of Kabini reservoir is intrim

7.2015 asked by Shri Jose K. Mani, M.P.

voirs  
OF INDIA

THIS YEAR STORAGE AS % OF LIVE CAP AT FRI	LAST SEASON		LAST YEAR STORAGE AS % OF LIVE CAP AT FRI	AVG. OF LAST 10 YEARS LIVE CAP. T.M.CUM.	AVG. OF LAST 10 YRS LIVE CAP AS % OF LIVE CAP AT	% OF THIS YR STORAGE E TO LAST YEARS	% OF THIS YR STORAGE TO AVG. OF LAST 10 YRS	S.No
	LEVEL (MTS)	LIVE STORAGE (BCM)						
9	10	11	12	13	14	15	16	17
0	254.33	0.000	0	2.095	25	100	0	*1
1	156.24	0.126	2	2.247	33	61	3	*2
14	86.90	0.465	23	0.488	24	58	56	3
12	325.34	0.688	30	0.309	13	41	91	4
19	273.74	0.265	43	0.141	23	44	83	5
37	260.01	0.417	51	0.309	38	73	99	6
43	143.39	0.292	62	0.256	54	69	79	7
80	123.53	0.118	64	0.128	70	125	115	*8
31	422.15	0.114	65	0.077	44	48	71	9
37	367.80	0.109	77	0.056	39	48	93	10
20	91.97	1.448	22	1.991	30	93	68	*11
22	179.75	0.086	12	0.174	24	192	95	12
46	124.00	0.837	57	0.670	46	80	100	*13
9	49.27	0.039	13	0.115	38	69	23	14
8	102.62	0.036	19	0.054	29	42	28	15
25	65.75	0.046	9	0.092	18	267	134	16
4	163.39	0.010	3	0.031	8	150	48	17
5	124.20	0.359	52	0.317	45	9	11	18
42	114.19	0.388	25	0.552	35	169	119	*19
33	100.50	0.179	34	0.215	41	95	79	20
58	494.42	3.428	55	2.719	44	105	132	*21
45	400.81	1.547	25	1.879	31	178	146	*22
64	740.87	0.273	23	0.515	44	272	144	23
34	486.95	0.477	15	1.338	41	237	84	*24
22	633.04	0.056	4	0.533	38	548	58	25
49	645.54	0.643	36	0.895	50	135	97	26
29	536.77	0.816	19	1.502	35	150	81	27
37	487.88	0.277	32	0.454	53	116	70	28
18	620.15	0.019	2	0.223	23	932	79	29
95	694.17	0.333	75	0.197	44	126	214	30
74	878.40	0.258	28	0.443	48	266	155	31
75	867.69	0.135	61	0.144	65	123	115	32
36	525.80	0.861	21	1.187	29	171	124	33
5	633.01	0.027	3	0.101	13	163	44	34

44	507.33	0.194	6	1.292	42	706	106	*35
74	51.97	0.113	87	0.109	84	85	88	*36
24	95.76	0.136	27	0.206	41	91	60	37
35	136.90	0.251	25	0.344	34	143	104	*38
45	706.81	0.323	22	0.436	30	203	150	*39
33	943.69	0.079	18	0.166	37	186	89	*40
57	860.87	0.053	31	0.078	45	185	126	*41
45	105.86	0.063	28	0.103	46	160	98	42
40	394.93	3.890	57	1.270	19	69	213	*43
34	340.52	0.294	15	0.767	39	222	85	44
31	407.85	0.437	14	0.768	24	226	129	*45
55	335.52	2.673	52	1.177	23	107	242	*46
14	246.21	0.788	8	1.325	14	178	106	*47
23	343.93	0.231	51	0.128	28	45	82	48
75	355.82	2.258	74	1.471	48	101	154	*49
25	340.64	0.184	24	0.364	47	104	53	50
0	455.88	0.055	3	0.466	21	2	0	51
44	622.53	0.135	5	1.340	51	855	86	*52
0	488.77	0.000	0	0.331	22	100	0	53
22	434.46	0.426	44	0.277	29	50	77	54
5	534.70	0.013	2	0.133	22	246	24	55
1	455.90	0.318	39	0.099	12	3	11	56
8	383.94	0.039	7	0.090	17	113	49	57
13	579.33	0.018	32	0.026	46	39	27	58
27	593.42	0.068	21	0.146	44	131	61	*59
22	210.38	0.076	30	0.083	33	75	69	60
13	479.94	0.441	40	0.261	24	32	54	*61
51	337.34	0.197	35	0.232	41	145	123	62
33	106.77	0.249	26	0.429	46	123	72	63
44	729.66	0.035	11	0.122	37	420	120	64
42	622.90	0.132	20	0.301	45	210	92	65
9	686.10	0.011	4	0.036	13	245	75	66
28	704.40	0.008	3	0.118	39	1050	71	67
36	182.22	0.535	10	0.812	15	361	238	*68
48	451.41	1.106	41	0.301	11	117	430	*69
42	76.65	0.375	67	0.151	27	63	156	70
43	110.29	0.082	2	0.407	12	1783	359	*71
44	828.48	0.277	31	0.277	31	141	141	*72
40	848.04	0.181	19	0.152	16	205	244	*73
28	627.98	0.200	14	0.306	21	203	132	*74
85	519.58	1.695	72	1.177	50	118	170	*75
33	270.70	0.668	39	0.549	32	86	104	*76
17	348.05	0.044	33	0.031	23	52	74	77
24	349.26	0.786	55	0.685	48	44	50	*78
67	262.86	0.109	14	0.395	50	489	135	79
51	218.68	0.460	17	1.133	43	293	119	*80

36	265.27	0.006	3	0.033	19	1033	188	81	
27	540.10	0.080	21	0.185	49	129	56	82	
84	304.80	0.013	14	0.043	45	615	186	83	
72	980.02	0.050	35	0.085	59	206	121	*84	
46	88.20	0.097	31	0.104	33	146	137	85	
51	301.11	0.065	9	0.265	37	552	135	86	
25	255.03	0.564	10	0.600	11	253	238	*87	
69	346.65	1.006	46	0.498	23	151	305	*88	
24	764.45	0.499	19	0.544	21	127	117	*89	
60	117.97	0.328	68	0.206	43	87	139	90	
42	126.93	0.372	41	0.326	36	102	117	91	
<b>38.958</b>				<b>46.206</b>					
<b>25</b>				<b>29</b>				<b>133</b>	<b>112</b>

Sd/-  
Director  
W. M. , CWC

is at the level of 121.92 M. and the live capacity at this level is 1.566 BCM