

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 10.08.2017)

1. ALL INDIA STATUS

Central Water Commission is monitoring live storage status of 91 reservoirs of the country on weekly basis and is issuing weekly bulletin on every Thursday. Out of these reservoirs, 37 reservoirs have hydropower benefit with installed capacity of more than 60 MW. The total live storage capacity of these 91 reservoirs is 157.799 BCM which is about 62% of the live storage capacity of 253.388 BCM which is estimated to have been created in the country. As per reservoir storage bulletin dated **10.08.2017**, live storage available in these reservoirs is **73.492 BCM**, which is **47%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **84.624 BCM** and the average of last 10 years live storage was **83.305 BCM**. Thus, the live storage available in 91 reservoirs **as per 10.08.2017 Bulletin** is **87%** of the live storage of corresponding period of last year and **88%** of storage of average of last ten years.

The overall storage position is **less than the** corresponding period of last year in the country as a whole but is **less than the** average storage of last ten years during the corresponding period.

2. REGION WISE STORAGE STATUS:

a) NORTHERN REGION

The northern region includes States of Himachal Pradesh, Punjab and Rajasthan. There are 6 reservoirs under CWC monitoring having total live storage capacity of 18.01 BCM. As per Reservoir Storage Bulletin dated **10.08.2017**, the total live storage available in these reservoirs is **13.60 BCM** which is **76%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **60%** and average storage of last ten years during corresponding period was **60%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the corresponding period of last year and is also better than the average storage of last ten years during the corresponding period.

b) EASTERN REGION

The Eastern region includes States of Jharkhand, Odisha, West Bengal and Tripura. There are 15 reservoirs under CWC monitoring having total live storage capacity of 18.83 BCM. As per Reservoir Storage Bulletin dated **10.08.2017**, the total live storage available in these reservoirs is **8.48 BCM** which is **45%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **47%** and average storage of last ten years during corresponding period was **41%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the corresponding period of last year but is better than the average storage of last ten years during the corresponding period.

c) WESTERN REGION

The Western region includes States of Gujarat and Maharashtra. There are 27 reservoirs under CWC monitoring having total live storage capacity of 27.07 BCM. As per Reservoir Storage Bulletin dated **10.08.2017**, the total live storage available in these reservoirs is **15.40 BCM** which is **57%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **65%** and average storage of last ten years during corresponding period was **57%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the storage of last year but is equal to the average storage of last ten years during the corresponding period.

d) CENTRAL REGION

The Central region includes States of Uttar Pradesh, Uttarakhand, Madhya Pradesh and Chhattisgarh. There are 12 reservoirs under CWC monitoring having total live storage capacity of 42.30 BCM. As per Reservoir Storage Bulletin dated **10.08.2017**, the total live storage available in these reservoirs is **21.01 BCM** which is **50%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **64%** and average storage of last ten years during corresponding period was **50%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the storage of last year but is equal to the average storage of last ten years during the corresponding period.

e) SOUTHERN REGION

The Southern region includes States of Andhra Pradesh, Telangana, AP&TG (2 combined projects in both states) Karnataka, Kerala and Tamil Nadu. There are 31 reservoirs under CWC monitoring having total live storage capacity of 51.59 BCM. As per Reservoir Storage Bulletin dated **10.08.2017**, the total live storage available in these reservoirs is **15.00 BCM** which is **29 %** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **39%** and average storage of last ten years during corresponding period was **55%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the corresponding period of last year and is also less than the average storage of last ten years during the corresponding period.

The region wise and reservoir wise details are given in the following pages of the Bulletin.

BROAD ANALYSIS OF OTHER TABLES IN THE BULLETIN

- Normal storage means average storage of last ten years, Close to normal storage means where shortfall is upto 20% of normal, deficient storage is where shortfall is more than 20% of the normal and upto 60% of the normal, highly deficient means where shortfall is more than 60% of normal.
- In the table on page 4, better than normal storage is available in Indus, Sabarmati, Mahi, Mahanadi & neighbouring East Flowing Rivers, Rivers of Kutch and Ganga. Close to Normal in Godavari. Deficient in Narmada, Tapi, Cauvery & neighbouring EFRs, West Flowing Rivers of South and Krishna basin and NIL in Highly Deficient.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **35** and reservoirs having storage more than average of last ten years are **40**. The numbers of reservoirs having storage less than 20% with respect to last year is **3** and having storage less than 20% with reference to average of last ten years is **8**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **16** and having storage less than or equal to 50% with reference to average of last ten years are **23**.

Disclaimer: The Data contained in this Bulletin is as received from the State Government/Project Authorities.

STORAGE STATUS OF IMPORTANT RESERVOIRS IN THE COUNTRY

AS ON 10.08.2017

- Central Water Commission is monitoring storage status of 91 important reservoirs spread all over the country, in which 37 reservoirs have hydropower benefit each with installed capacity of more than 60 MW. These reservoirs are identified thus(*) in the enclosed weekly report.
- The total live storage in 91 important reservoirs in different parts of the country, monitored by CWC as on **10.08.2017** is **73.492** BCM (**47** percent of the live storage capacity at FRL).The current year's storage is nearly **87** percent of last year's storage and **88** percent of the average of last ten years.

3 Region wise storage status:-

REGION (Monitoring No. of Reservoirs)	Filling position of 91 reservoirs w.r.t. FRL								Departure from Normal storage	
	100%	91%-99%	81%-90%	71%-80%	61%-70%	51%-60%	41%-50%	40% & below		
NORTH (HP,Punjab & Rajasthan), (6 Resv.)	1	-	2	2	-	1	-	-	H.P.	26 %
									PUNJAB	54 %
									RAJASTHAN	6 %
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	1	1	1	2	2	1	3	4	JHARKHAND	16 %
									ODISHA	4 %
									W. BENGAL	45 %
									TRIPURA	82 %
WEST (Guj.& Mah.), (27 Resv.)	1	4	4	2	3	4	4	5	GUJARAT	2 %
									MAH.	-1 %
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	1	3	2	2	4	U.P.	89 %
									UTTARAKHAND	-7 %
									M.P.	-13 %
									CHHATISGARH	0 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	1	1	-	1	1	3	3	21	AP&TG	-92 %
									A,P	-61 %
									TG	-52 %
									KARNATAKA	-25 %
									KERALA	-44 %
									T.N.	-75 %
Status of 91 reservoirs	4	6	7	8	9	11	12	34		

4 Basin wise storage position:

Better than normal: Ganga,Mahi,Indus,Sabarmati, Mahanadi & Neighbouring EFRS, Rivers of Kutch .

Close to normal: Godavari .

Deficient: Narmada ,Tapi , Cauvery & neighbouring EFRS, West Flowing Rivers of South and Krishna

Highly deficient: NIL

- Out of 91 reservoirs, **51** reservoirs reported more than 80% of normal storage & **40** reservoirs reported 80% or below of normal storage. Out of these **40** reservoirs **23** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
NAGARJUNA SAGAR	0	MAHANADI	42
SRISAILAM	12	MALAMPUZHA	42
ISAPUR	13	KRISHNARAJA SAGRA	44
VANIVILAS SAGAR	14	BHADRA	48
YELDARI	14	KAKKI	49
ALIYAR	15	UPPER TAPI	49
SHOLAYAR	18		
PENCH (TOTALADOH)	18		
VAIGAI	22		
METTUR(STANLEY)	22		
PERIYAR	25		
MATATILA	25		
LOWER BHAWANI	32		
SRIRAMSAGAR	34		
PARAMBIKULAM	39		
SOMASILA	39		
INDIRA SAGAR	42		

17 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
6	5	6

- Out of 37 reservoirs with significant(*) hydropower generation, the storage build up is less than or equal to normal in

21 reservoirs.

NOTE : **Normal:** Average of previous ten years, **Close to normal:** Where shortfall is up to 20% of the normal, **Deficient:** Where shortfall is more than 20% of the normal and up to 60% of the normal, **Highly deficient** : Where shortfall is more than 60% of the normal

WEEKLY REPORT - BASINWISE

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 10.08.2017

NAME OF BASIN	LIVE CAP. AT FRL	THIS YEAR'S STORAGE		LAST YEAR'S STORAGE		LAST 10 YEARS' AVG. STORAGE		% DEPARTURE W.R.T. AVE. OF 10 YEARS'
GANGA	28.096	16.658	59.29%	15.279	54.38%	12.036	42.84%	38.40
INDUS	14.730	11.314	76.81%	7.631	51.81%	8.711	59.14%	29.88
NARMADA	17.414	6.985	40.11%	14.728	84.58%	11.202	64.33%	-37.65
TAPI	7.394	2.962	40.06%	5.073	68.61%	4.037	54.60%	-26.63
MAHI	4.012	3.103	77.34%	3.233	80.58%	2.378	59.27%	30.49
SABARMATI	0.735	0.678	92.24%	0.322	43.81%	0.312	42.45%	117.31
RIVERS OF KUTCH	0.887	0.601	67.76%	0.088	9.92%	0.328	36.98%	83.23
GODAVARI	15.394	4.824	31.34%	8.532	55.42%	5.994	38.94%	-19.52
KRISHNA	32.831	11.346	34.56%	14.125	43.02%	18.758	57.14%	-39.51
MAHANADI & NEIGHBOURING EFRS	13.181	6.442	48.87%	5.624	42.67%	6.004	45.55%	7.30
CAUVERY & NEIGHBOURING EFRS	8.359	1.990	23.81%	2.787	33.34%	4.747	56.79%	-58.08
WEST FLOWING RIVERS OF SOUTH	14.766	6.589	44.62%	7.202	48.77%	8.798	59.58%	-25.11
TOTAL	157.799	73.492		84.624		83.305		
PERCENTAGE								-11.78

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 10.08.2017

S. NO	NAME OF RESERVOIR	FRL (m)	CURRENT RESERVOIR LEVEL (m)	LIVE CAPACITY AT FRL (BCM)	CURRENT LIVE STORAGE (BCM)	DATE	STORAGE AS % OF LIVE CAPACITY AT FRL			BENEFITS	
							CURRENT YEAR	LAST YEAR	LAST 10 YEARS AVERAGE	IRR. (CCA) IN TH. HA	HYDEL IN MW
1	2	4	6	5	7	8	9	10	11	3A	3B
NORTHERN REGION											
<u>HIMACHAL PRADESH</u>											
*1	GOBIND SAGAR(BHAKRA)	512.06	503.39	6.229	4.635	10-08-2017	74	51	65	676	1200
*2	PONG DAM	423.67	418.51	6.157	4.720	10-08-2017	77	51	55	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	523.30	2.344	1.959	10-08-2017	84	55	54	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	278.50	1.711	1.412	10-08-2017	83	100	64	63	140
5	JHAKAM	359.50	359.80	0.132	0.132	10-08-2017	100	87	58	28	-
*6	RANA PRATAP SAGAR	352.81	348.99	1.436	0.741	09-08-2017	52	98	68	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	257.86	0.821	0.338	10-08-2017	41	46	41	-	-
8	MAITHON	146.3	144.81	0.471	0.360	10-08-2017	76	55	61	342	-
*9	PANCHET HILL	124.97	125.39	0.184	0.184	10-08-2017	100	80	82	\$	80
10	KONAR	425.81	421.08	0.176	0.098	10-08-2017	56	53	64	\$	-
11	TILAIYA	368.81	368.84	0.142	0.141	10-08-2017	99	32	55	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	186.09	5.378	1.729	09-08-2017	32	41	41	153	307
*13	BALIMELA	462.08	448.57	2.676	0.798	10-08-2017	30	63	27	-	360
14	SALANADI	82.30	68.56	0.558	0.187	09-08-2017	34	30	33	42	-
*15	RENGALI	123.50	119.43	3.432	2.121	10-08-2017	62	36	36	3	200
*16	MACHKUND(JALPUT)	838.16	830.85	0.893	0.384	10-08-2017	43	62	55	-	115
*17	UPPER KOLAB	858.00	850.14	0.935	0.287	10-08-2017	31	56	32	89	320
*18	UPPER INDRAVATI	642.00	633.24	1.456	0.601	10-08-2017	41	54	50	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	119.09	0.480	0.356	10-08-2017	74	49	50	227	-
20	KANGSABATI	134.14	130.67	0.914	0.631	10-08-2017	69	34	48	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	92.55	0.312	0.266	08-08-2017	85	73	47	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	96.49	6.615	2.641	10-08-2017	40	72	58	348	300
23	SABARMATI(DHAROI)	189.59	188.94	0.735	0.678	10-08-2017	92	44	42	95	1
*24	KADANA	127.7	126.47	1.472	1.065	10-08-2017	72	75	57	200	120
25	SHETRANJI	55.53	52.82	0.300	0.131	10-08-2017	44	19	51	36	-
26	BHADAR	107.89	105.52	0.188	0.102	10-08-2017	54	5	48	27	-
27	DAMANAGANGA	79.86	74.10	0.502	0.246	10-08-2017	49	48	43	51	1
28	DANTIWADA	184.1	183.52	0.399	0.368	10-08-2017	92	5	21	45	-
29	PANAM	127.41	126.55	0.697	0.494	10-08-2017	71	43	51	36	2
*30	SARDAR SAROVAR	121.92	122.11	1.566	1.566	10-08-2017	100	100	85	2120	1450
31	KARJAN	115.25	109.44	0.523	0.358	10-08-2017	68	23	53	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 10.08.2017

S. NO	NAME OF RESERVOIR	FRL (m)	CURRENT RESERVOIR LEVEL (m)	LIVE CAPACITY AT FRL (BCM)	CURRENT LIVE STORAGE (BCM)	DATE	STORAGE AS % OF LIVE CAPACITY AT FRL			BENEFITS	
							CURRENT YEAR	LAST YEAR	LAST 10 YEARS AVERAGE	IRR. (CCA) IN TH. HA	HYDEL IN MW
1	2	4	6	5	7	8	9	10	11	3A	3B
MAHARASHTRA											
32	JAYAKWADI(PAITHON)	463.91	460.89	2.171	1.145	10-08-2017	53	50	23	227	-
*33	KOYANA	657.90	654.89	2.652	2.308	10-08-2017	87	89	87	-	1920
34	BHIMA(UJJANI)	496.83	494.17	1.517	0.720	10-08-2017	47	36	43	125	12
35	ISAPUR	441.00	427.26	0.965	0.061	10-08-2017	6	33	49	104	-
36	MULA	552.30	548.12	0.609	0.406	09-08-2017	67	91	55	139	-
37	YELDARI	461.77	448.64	0.809	0.025	09-08-2017	3	9	23	78	-
38	GIRNA	398.07	392.48	0.524	0.274	10-08-2017	52	53	21	79	-
39	KHADAKVASLA	582.47	582.23	0.056	0.053	10-08-2017	95	95	75	78	8
*40	UPPER VAITARNA	603.50	602.01	0.331	0.284	10-08-2017	86	92	76	-	61
41	UPPER TAPI	214.00	209.51	0.255	0.047	10-08-2017	18	17	38	45	-
*42	PENCH (TOTALADOH)	490.00	470.80	1.091	0.113	10-08-2017	10	73	57	127	160
43	UPPER WARDHA	342.50	338.20	0.564	0.245	10-08-2017	43	88	70	70	-
44	BHATSA	142.07	137.64	0.942	0.824	10-08-2017	87	86	75	29.378	15
45	DHOM	747.70	742.64	0.331	0.224	10-08-2017	68	93	69	36.2	2
46	DUDHGANGA	646.00	642.83	0.664	0.574	10-08-2017	86	81	85	2.441	24
47	MANIKDOH (KUKADI)	711.25	703.30	0.288	0.162	10-08-2017	56	59	39	2.2	6
48	BHANDARDARA	744.91	743.98	0.304	0.286	10-08-2017	94	95	86	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	302.36	0.707	0.124	09-08-2017	18	72	70	-	30
*50	RIHAND	268.22	263.35	5.649	3.566	10-08-2017	63	26	26	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	337.25	2.196	0.604	10-08-2017	28	33	45	1897	198
*52	TEHRI	830.00	807.40	2.615	1.737	10-08-2017	66	60	58	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	395.36	6.827	4.086	10-08-2017	60	60	33	220	115
54	TAWA	355.40	347.81	1.944	0.898	10-08-2017	46	88	84	247	-
*55	BARGI	422.76	416.40	3.180	1.620	10-08-2017	51	85	65	157	90
*56	BANSAGAR	341.64	337.61	5.166	3.426	10-08-2017	66	73	50	488	425
*57	INDIRA SAGAR	262.13	250.73	9.745	2.319	10-08-2017	24	84	57	2380	1000
58	BARNA	348.55	344.81	0.456	0.224	10-08-2017	49	91	67	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	355.34	3.046	2.181	09-08-2017	72	42	61	-	120
60	MAHANADI	348.70	341.45	0.767	0.224	08-08-2017	29	97	70	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	237.16	8.288	0.460	10-08-2017	6	42	46	0	770
*62	NAGARJUNA SAGAR	179.83	152.52	6.841	0.000	10-08-2017	0	0	33	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	81.67	1.994	0.193	10-08-2017	10	14	25	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	321.59	2.300	0.265	10-08-2017	12	55	34	411	27
65	LOWER MANAIR	280.42	272.35	0.621	0.208	10-08-2017	33	18	32	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 10.08.2017

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							CURRENT YEAR	LAST YEAR	LAST 10 YEARS AVERAGE	IRR. (CCA) IN TH. HA	HYDEL IN MW
1	2	4	6	5	7	8	9	10	11	3A	3B
<u>KARNATAKA</u>											
66	KRISHNARAJA SAGRA	752.50	742.85	1.163	0.382	10-08-2017	33	40	74	79	-
*67	TUNGBHADRA	497.74	492.45	3.276	1.337	10-08-2017	41	41	73	529	72
68	GHATAPRABHA	662.95	654.58	1.391	0.831	10-08-2017	60	74	79	317	-
69	BHADRA	657.76	645.92	1.785	0.668	10-08-2017	37	46	79	106	39
70	LINGANAMAKKI	554.43	543.75	4.294	1.743	10-08-2017	41	45	66	-	55
71	NARAYANPUR	492.25	491.39	0.863	0.631	10-08-2017	73	68	80	425	-
72	MALAPRABHA(RENUKA)	633.83	626.26	0.972	0.261	10-08-2017	27	30	51	215	-
73	KABINI(Sancherla Tank)	696.16	692.02	0.444	0.227	10-08-2017	51	69	63	85	-
74	HEMAVATHY	890.63	882.79	0.927	0.460	10-08-2017	50	59	84	265	-
75	HARANGI	871.42	871.06	0.220	0.217	10-08-2017	99	96	94	53	-
76	SUPA	564.00	544.38	4.120	2.096	10-08-2017	51	43	52	-	-
77	VANIVILAS SAGAR	652.28	631.90	0.802	0.012	10-08-2017	1	6	11	123	-
*78	ALMATTI	519.60	519.60	3.105	3.105	10-08-2017	100	83	85	@	290
*79	GERUSOPPA	55.00	47.81	0.130	0.091	10-08-2017	70	78	80	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	98.28	0.507	0.168	10-08-2017	33	51	55	62	-
*81	IDAMALAYAR	169.00	143.09	1.018	0.369	10-08-2017	36	48	56	33	75
*82	IDUKKI	732.43	709.60	1.460	0.419	10-08-2017	29	43	51	-	780
*83	KAKKI	981.46	953.16	0.447	0.130	10-08-2017	29	59	60	23	300
*84	PERIYAR	867.41	859.83	0.173	0.023	10-08-2017	13	34	54	84	140
85	MALAPMUZHA	115.06	105.70	0.224	0.061	10-08-2017	27	34	64	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	264.53	0.792	0.146	10-08-2017	18	28	58	105	8
*87	METTUR(STANLEY)	240.79	216.65	2.647	0.354	10-08-2017	13	28	61	122	360
88	VAIGAI	279.20	266.89	0.172	0.011	10-08-2017	6	4	30	61	6
89	PARAMBIKULAM	556.26	541.58	0.380	0.104	10-08-2017	27	34	71	101	-
90	ALIYAR	320.04	304.10	0.095	0.010	10-08-2017	11	22	72	#	60
*91	SHOLAYAR	1002.79	974.84	0.143	0.021	10-08-2017	15	61	81	-	95
TOTAL FOR 91 RESERVOIRS				157.799	73.492						
PERCENTAGE							47	54	53		

Sd/-

* HYDEL POWER CAPACITY HAVING CAPACITY MORE THAN 60MW

Director

\$ TOTAL CCA 342 TH. HA OF DVC SYSTEM

W. M. , CWC

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. 30th 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 is at the level of 121.92 M. and the live capacity at this level is 1.566 BCM