

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 18.10.2017)

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 **18.10.2017**, live storage available in these reservoirs is **110.012 BCM**, which is **70%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **117.798 BCM** and the average of last 10 years live storage was **116.700 BCM**. Thus, the live storage available in 91 reservoirs **as per 18.10.2017 Bulletin** is **93%** of the live storage of corresponding period of last year and **94%** 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 and is also **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 **18.10.2017**, the total live storage available in these reservoirs is **14.00 BCM** which is **78%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **72%** and average storage of last ten years during corresponding period was **79%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the corresponding period of last year but is less 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 **18.10.2017**, the total live storage available in these reservoirs is **14.79 BCM** which is **79%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **86%** and average storage of last ten years during corresponding period was **77%** 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 **18.10.2017**, the total live storage available in these reservoirs is **20.82 BCM** which is **77%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **86%** and average storage of last ten years during corresponding period was **79%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the storage of last year and is also less than 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 **18.10.2017**, the total live storage available in these reservoirs is **26.94 BCM** which is **64%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **91%** and average storage of last ten years during corresponding period was **72%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the storage of last year and is also less than 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 **18.10.2017**, the total live storage available in these reservoirs is **33.46 BCM** which is **65%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **52%** and average storage of last ten years during corresponding period was **70%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the corresponding period of last year but is 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 Ganga, Mahi, Indus, Sabarmati, Rivers of Kutch and Cauvery & neighbouring EFRs. Close to Normal in Godavari, Krishna, Mahanadi & neighbouring East Flowing Rivers and West Flowing Rivers of South. Deficient in Narmada and Tapi 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 **46** and reservoirs having storage more than average of last ten years are **51**. The numbers of reservoirs having storage less than 20% with respect to last year is **0** and having storage less than 20% with reference to average of last ten years is **1**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **7** and having storage less than or equal to 50% with reference to average of last ten years are **7**.

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 18.10.2017

- 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 **18.10.2017** is **110.012** BCM (**70** percent of the live storage capacity at FRL).The current year's storage is nearly **93** percent of last year's storage and **94** 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.)	2	-	1	1	1	-	1	-	H.P.	0 %
									PUNJAB	6 %
									RAJASTHAN	-8 %
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	2	5	3	-	1	2	1	1	JHARKHAND	5 %
									ODISHA	-3 %
									W. BENGAL	54 %
									TRIPURA	55 %
WEST (Guj.& Mah.), (27 Resv.)	13	5	1	3	-	2	-	3	GUJARAT	-12 %
									MAH.	6 %
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	1	2	2	4	1	-	2	U.P.	16 %
									UTTARAKHAND	-3 %
									M.P.	-18 %
									CHHATISGARH	-13 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	1	2	3	7	8	2	2	6	AP&TG	-14 %
									A,P	14 %
									TG	-7 %
									KARNATAKA	-9 %
									KERALA	-3 %
									T.N.	24 %
Status of 91 reservoirs	18	13	10	13	14	7	4	12		

4 Basin wise storage position:

Better than normal: Ganga,Mahi,Indus,Sabarmati, Rivers of Kutch and Cauvery & neighbouring EFRS .

Close to normal: Godavari ,Krishna, Mahanadi & Neighbouring EFRS and West Flowing Rivers of South .

Deficient: Narmada and Tapi. .

Highly deficient: NIL

- Out of 91 reservoirs, **71** reservoirs reported more than 80% of normal storage & **20** reservoirs reported 80% or below of normal storage. Out of these **20** reservoirs **7** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
VANIVILAS SAGAR	16		
ISAPUR	24		
YELDARI	27		
HEMAVATHY	42		
ALIYAR	46		
PENCH (TOTALADOH)	46		
INDIRA SAGAR	50		

13 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
4	5	4

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

16 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 :- 18.10.2017

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	19.664	69.99%	24.408	86.87%	18.216	64.83%	7.95
INDUS	14.730	11.493	78.02%	9.816	66.64%	11.435	77.63%	0.51
NARMADA	17.414	10.508	60.34%	16.995	97.59%	14.815	85.08%	-29.07
TAPI	7.394	4.149	56.11%	7.046	95.29%	5.973	80.78%	-30.54
MAHI	4.012	3.502	87.29%	3.489	86.96%	3.153	78.59%	11.07
SABARMATI	0.735	0.733	99.73%	0.725	98.64%	0.549	74.69%	33.52
RIVERS OF KUTCH	0.887	0.737	83.09%	0.348	39.23%	0.537	60.54%	37.24
GODAVARI	15.394	9.593	62.32%	12.579	81.71%	10.269	66.71%	-6.58
KRISHNA	32.831	23.507	71.60%	19.714	60.05%	24.855	75.71%	-5.42
MAHANADI & NEIGHBOURING EFRS	13.181	10.695	81.14%	11.384	86.37%	10.844	82.27%	-1.37
CAUVERY & NEIGHBOURING EFRS	8.359	5.407	64.68%	2.610	31.22%	4.717	56.43%	14.63
WEST FLOWING RIVERS OF SOUTH	14.766	10.024	67.89%	8.684	58.81%	11.337	76.78%	-11.58
TOTAL	157.799	110.012		117.798		116.700		
PERCENTAGE								-5.73

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 18.10.2017

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	507.54	6.229	5.250	18-10-2017	84	68	84	676	1200
*2	PONG DAM	423.67	418.58	6.157	4.736	18-10-2017	77	67	78	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	516.09	2.344	1.507	18-10-2017	64	63	61	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	281.45	1.711	1.711	16-10-2017	100	100	87	63	140
5	JHAKAM	359.50	359.55	0.132	0.132	16-10-2017	100	100	85	28	-
*6	RANA PRATAP SAGAR	352.81	348.55	1.436	0.666	17-10-2017	46	96	79	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	259.99	0.821	0.416	17-10-2017	51	52	45	-	-
8	MAITHON	146.3	149.33	0.471	0.471	17-10-2017	100	100	93	342	-
*9	PANCHET HILL	124.97	127.49	0.184	0.184	17-10-2017	100	100	93	\$	80
10	KONAR	425.81	424.23	0.176	0.148	17-10-2017	84	100	91	\$	-
11	TILAIYA	368.81	367.97	0.142	0.115	17-10-2017	81	100	89	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	192.09	5.378	4.868	17-10-2017	91	90	93	153	307
*13	BALIMELA	462.08	452.93	2.676	1.294	18-10-2017	48	83	60	-	360
14	SALANADI	82.30	69.71	0.558	0.212	17-10-2017	38	54	56	42	-
*15	RENGALI	123.50	122.96	3.432	3.296	18-10-2017	96	95	84	3	200
*16	MACHKUND(JALPUT)	838.16	837.74	0.893	0.849	18-10-2017	95	94	88	-	115
*17	UPPER KOLAB	858.00	853.94	0.935	0.572	18-10-2017	61	88	67	89	320
*18	UPPER INDRAVATI	642.00	636.32	1.456	0.875	18-10-2017	60	83	76	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	120.49	0.480	0.460	17-10-2017	96	80	60	227	-
20	KANGSABATI	134.14	131.84	0.914	0.738	17-10-2017	81	79	54	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	93.15	0.312	0.294	16-10-2017	94	83	61	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	98.80	6.615	3.521	18-10-2017	53	95	83	348	300
23	SABARMATI(DHAROI)	189.59	189.47	0.735	0.733	16-10-2017	100	99	75	95	1
*24	KADANA	127.7	127.08	1.472	1.127	16-10-2017	77	81	71	200	120
25	SHETRANJI	55.53	53.77	0.300	0.179	16-10-2017	60	62	77	36	-
26	BHADAR	107.89	107.56	0.188	0.173	16-10-2017	92	13	69	27	-
27	DAMANAGANGA	79.86	79.85	0.502	0.478	18-10-2017	95	97	98	51	1
28	DANTIWADA	184.1	184.04	0.399	0.385	16-10-2017	96	35	44	45	-
29	PANAM	127.41	127.10	0.697	0.532	16-10-2017	76	65	74	36	2
*30	SARDAR SAROVAR	121.92	129.70	1.566	1.566	18-10-2017	100	90	89	2120	1450
31	KARJAN	115.25	113.99	0.523	0.491	18-10-2017	94	65	93	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 18.10.2017

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	463.91	2.171	2.171	16-10-2017	100	83	51	227	-
*33	KOYANA	657.90	659.21	2.652	2.652	17-10-2017	100	100	96	-	1920
34	BHIMA(UJJANI)	496.83	497.33	1.517	1.517	16-10-2017	100	100	83	125	12
35	ISAPUR	441.00	429.13	0.965	0.150	18-10-2017	16	50	66	104	-
36	MULA	552.30	552.29	0.609	0.609	17-10-2017	100	100	84	139	-
37	YELDARI	461.77	451.41	0.809	0.107	18-10-2017	13	31	48	78	-
38	GIRNA	398.07	395.08	0.524	0.373	18-10-2017	71	90	50	79	-
39	KHADAKVASLA	582.47	582.47	0.056	0.056	18-10-2017	100	93	68	78	8
*40	UPPER VAITARNA	603.50	603.50	0.331	0.331	18-10-2017	100	100	93	-	61
41	UPPER TAPI	214.00	214.00	0.255	0.255	18-10-2017	100	100	100	45	-
*42	PENCH (TOTALADOH)	490.00	479.07	1.091	0.372	18-10-2017	34	53	74	127	160
43	UPPER WARDHA	342.50	342.50	0.564	0.564	18-10-2017	100	100	93	70	-
44	BHATSA	142.07	141.95	0.942	0.941	18-10-2017	100	99	94	29.378	15
45	DHOM	747.70	747.51	0.331	0.326	18-10-2017	98	100	89	36.2	2
46	DUDHGANGA	646.00	646.00	0.664	0.664	17-10-2017	100	100	97	2.441	24
47	MANIKDOH (KUKADI)	711.25	708.50	0.288	0.240	18-10-2017	83	73	58	2.2	6
48	BHANDARDARA	744.91	744.73	0.304	0.304	18-10-2017	100	100	96	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	307.85	0.707	0.576	17-10-2017	81	82	86	-	30
*50	RIHAND	268.22	263.01	5.649	3.428	18-10-2017	61	77	50	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	353.49	2.196	1.370	18-10-2017	62	55	73	1897	198
*52	TEHRI	830.00	824.60	2.615	2.394	14-10-2017	92	91	87	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	396.51	6.827	4.660	18-10-2017	68	96	58	220	115
54	TAWA	355.40	352.50	1.944	1.527	18-10-2017	79	100	98	247	-
*55	BARGI	422.76	421.20	3.180	2.786	18-10-2017	88	99	91	157	90
*56	BANSAGAR	341.64	338.42	5.166	3.744	18-10-2017	72	100	69	488	425
*57	INDIRA SAGAR	262.13	254.15	9.745	3.906	18-10-2017	40	100	80	2380	1000
58	BARNA	348.55	344.96	0.456	0.232	18-10-2017	51	89	77	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	354.35	3.046	2.036	18-10-2017	67	72	69	-	120
60	MAHANADI	348.70	342.40	0.767	0.283	17-10-2017	37	100	73	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	269.41	8.288	5.826	18-10-2017	70	66	68	0	770
*62	NAGARJUNA SAGAR	179.83	171.24	6.841	2.972	18-10-2017	43	24	68	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	95.71	1.994	1.329	18-10-2017	67	51	59	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	329.31	2.300	1.516	18-10-2017	66	100	63	411	27
65	LOWER MANAIR	280.42	272.40	0.621	0.210	18-10-2017	34	100	65	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

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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
KARNATAKA											
66	KRISHNARAJA SAGRA	752.50	749.09	1.163	0.881	17-10-2017	76	17	79	79	-
*67	TUNGABHADRA	497.74	496.82	3.276	2.540	18-10-2017	78	30	77	529	72
68	GHATAPRABHA	662.95	660.77	1.391	1.229	16-10-2017	88	87	87	317	-
69	BHADRA	657.76	653.06	1.785	1.275	16-10-2017	71	48	87	106	39
70	LINGANAMAKKI	554.43	548.37	4.294	2.655	18-10-2017	62	58	82	-	55
71	NARAYANPUR	492.25	491.89	0.863	0.693	18-10-2017	80	73	86	425	-
72	MALAPRABHA(RENUKA)	633.83	628.15	0.972	0.393	16-10-2017	40	37	68	215	-
73	KABINI(Sancherla Tank)	696.16	695.52	0.444	0.437	17-10-2017	98	42	45	85	-
74	HEMAVATHY	890.63	879.13	0.927	0.285	17-10-2017	31	17	73	265	-
75	HARANGI	871.42	871.00	0.220	0.215	18-10-2017	98	52	68	53	-
76	SUPA	564.00	549.22	4.120	2.518	18-10-2017	61	57	68	-	-
77	VANIVILAS SAGAR	652.28	632.39	0.802	0.019	12-10-2017	2	5	15	123	-
*78	ALMATTI	519.60	519.60	3.105	3.105	18-10-2017	100	100	92	@	290
*79	GERUSOPPA	55.00	51.14	0.130	0.108	17-10-2017	83	72	75	83	240
KERALA											
80	KALLADA(PARAPPAR)	115.82	111.20	0.507	0.385	12-10-2017	76	32	73	62	-
*81	IDAMALAYAR	169.00	160.22	1.018	0.766	16-10-2017	75	59	76	33	75
*82	IDUKKI	732.43	722.39	1.460	0.936	17-10-2017	64	46	67	-	780
*83	KAKKI	981.46	974.13	0.447	0.332	18-10-2017	74	61	77	23	300
*84	PERIYAR	867.41	862.75	0.173	0.075	16-10-2017	43	6	42	84	140
85	MALAPMUZHA	115.06	111.63	0.224	0.150	18-10-2017	67	42	82	21	3
TAMIL NADU											
86	LOWER BHAWANI	278.89	272.57	0.792	0.433	16-10-2017	55	19	46	105	8
*87	METTUR(STANLEY)	240.79	234.04	2.647	1.758	17-10-2017	66	29	45	122	360
88	VAIGAI	279.20	273.70	0.172	0.069	16-10-2017	40	3	31	61	6
89	PARAMBIKULAM	556.26	546.75	0.380	0.192	16-10-2017	51	33	80	101	-
90	ALIYAR	320.04	309.49	0.095	0.034	16-10-2017	36	7	78	#	60
*91	SHOLAYAR	1002.79	998.83	0.143	0.123	16-10-2017	86	22	85	-	95
TOTAL FOR 91 RESERVOIRS				157.799	110.012						
PERCENTAGE							70	75	74		

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