

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 24.05.2017)

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 161.993 BCM which is about 63% of the live storage capacity of 257.812 BCM which is estimated to have been created in the country. As per reservoir storage bulletin dated **24.05.2017**, live storage available in these reservoirs is **29.296 BCM**, which is **18%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **35.175 BCM** and the average of last 10 years live storage was **32.221 BCM**. Thus, the live storage available in 91 reservoirs **as per 24.05.2017 Bulletin** is **83%** of the live storage of corresponding period of last year and **91%** 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 **24.05.2017**, the total live storage available in these reservoirs is **2.70 BCM** which is **15%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **24%** and average storage of last ten years during corresponding period was **26%** 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.

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 **24.05.2017**, the total live storage available in these reservoirs is **5.24 BCM** which is **28%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **30%** and average storage of last ten years during corresponding period was **20%** 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 31.26 BCM. As per Reservoir Storage Bulletin dated **24.05.2017**, the total live storage available in these reservoirs is **5.04 BCM** which is **16%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **22%** and average storage of last ten years during corresponding period was **21%** 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 **24.05.2017**, the total live storage available in these reservoirs is **10.13 BCM** which is **24%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **34%** and average storage of last ten years during corresponding period was **20%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the storage of last year but is better 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 (2combined 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 **24.05.2017**, the total live storage available in these reservoirs is **6.19 BCM** which is **12%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **8%** and average storage of last ten years during corresponding period was **17%** 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, Narmada, Mahanadi & Neighbouring East Flowing Rivers, Rivers of Kutch and West Flowing Rivers of South. Close to Normal in Sabarmati and Godavari. Deficient in Indus, Tapi, Krishna and Cauvery & neighbouring EFRs 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 **47** and reservoirs having storage more than average of last ten years are **38**. The numbers of reservoirs having storage less than 20% with respect to last year is **4** and having storage less than 20% with reference to average of last ten years is **9**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **17** 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 24.05.2018

- 1 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.
- 2 The total live storage in 91 important reservoirs in different parts of the country, monitored by CWC as on **24.05.2018** is **29.296** BCM (**18** percent of the live storage capacity at FRL).The current year's storage is nearly **83** percent of last year's storage and **91** 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.)	-	-	-	-	-	-	-	6	H.P.	-62 %	
									PUNJAB	-41 %	
									RAJASTHAN	17 %	
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	1	-	-	-	-	-	2	12	JHARKHAND	3 %	
									ODISHA	31 %	
									W. BENGAL	169 %	
									TRIPURA	429 %	
WEST (Guj.& Mah.), (27 Resv.)	-	-	-	-	-	-	2	25	GUJARAT	-42 %	
									MAH.	2 %	
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	-	1	2	9	U.P.	-26 %	
									UTTARAKHAND	-46 %	
									M.P.	36 %	
									CHHATISGARH	13 %	
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	1	-	1	-	-	29	AP&TG	-60 %	
									A,P	-49 %	
									TG	-7 %	
									KARNATAKA	-4 %	
									KERALA	32 %	
									T.N.	-67 %	
Status of 91 reservoirs	1	0	1	0	1	1	6	81			

4 Basin wise storage position:

Better than normal: Ganga,Mahi,Narmada, Mahanadi & Neighbouring EFRS, Rivers of Kutch and West Flowing Rivers of South .

Close to normal: Sabarmati and Godavari, .

Deficient: Indus, Tapi, Krishna and Cauvery & neighbouring EFRS.

Highly deficient: NIL

- 5 Out of 91 reservoirs, **52** reservoirs reported more than 80% of normal storage & **39** reservoirs reported 80% or below of normal storage. Out of these **39** reservoirs **23** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0	PENCH (TOTALADOH)	41
SARDAR SAROVAR	0	BARNA	42
YELDARI	0	KRISHNARAJA SAGRA	43
ISAPUR	0	PONG DAM	46
ALIYAR	2	TAWA	47
VANIVILAS SAGAR	7	UKAI	50
NAGARJUNA SAGAR	9		
BHIMA(UJJANI)	15		
UPPER TAPI	17		
PARAMBIKULAM	22		
BHADRA	23		
HARANGI	26		
METTUR(STANLEY)	28		
TUNGABHADRA	29		
GOBIND SAGAR(BHAKR	30		
MATATILA	36		
TILAIYA	41		

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

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

25 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 :- 24.05.2018

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	6.524	23.22%	10.258	36.51%	5.995	21.34%	8.82
INDUS	14.730	1.635	11.10%	3.366	22.85%	3.782	25.68%	-56.77
NARMADA	21.608	3.964	18.35%	4.949	22.90%	3.359	15.55%	18.01
TAPI	7.394	0.939	12.70%	2.416	32.68%	1.835	24.82%	-48.83
MAHI	4.012	1.480	36.89%	1.604	39.98%	1.382	34.45%	7.09
SABARMATI	0.735	0.107	14.56%	0.171	23.27%	0.129	17.55%	-17.05
RIVERS OF KUTCH	0.887	0.140	15.78%	0.049	5.52%	0.062	6.99%	125.81
GODAVARI	15.394	2.399	15.58%	2.987	19.40%	2.551	16.57%	-5.96
KRISHNA	32.831	2.759	8.40%	1.234	3.76%	4.472	13.62%	-38.31
MAHANADI & NEIGHBOURING EFRS	13.181	4.586	34.79%	4.800	36.42%	3.291	24.97%	39.35
CAUVERY& NEIGHBOURING EFRS	8.359	0.956	11.44%	0.546	6.53%	2.131	25.49%	-55.14
WEST FLOWING RIVERS OF SOUTH	14.766	3.807	25.78%	2.795	18.93%	3.232	21.89%	17.79
TOTAL	161.993	29.296		35.175		32.221		
PERCENTAGE								-9.08

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 24.05.2018

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	456.34	6.229	0.430	24-05-2018	7	19	23	676	1200
*2	PONG DAM	423.67	392.64	6.157	0.622	24-05-2018	10	13	22	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	498.89	2.344	0.583	24-05-2018	25	58	42	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	269.55	1.711	0.557	24-05-2018	33	33	23	63	140
5	JHAKAM	359.50	346.80	0.132	0.038	24-05-2018	29	28	17	28	-
*6	RANA PRATAP SAGAR	352.81	347.23	1.436	0.472	24-05-2018	33	25	35	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	257.40	0.821	0.323	24-05-2018	39	43	31	-	-
8	MAITHON	146.3	139.39	0.471	0.138	24-05-2018	29	28	27	342	-
*9	PANCHET HILL	124.97	121.15	0.184	0.039	24-05-2018	21	42	35	\$	80
10	KONAR	425.81	415.87	0.176	0.036	24-05-2018	20	20	33	\$	-
11	TILAIYA	368.81	363.98	0.142	0.009	24-05-2018	6	27	15	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	185.38	5.378	1.479	23-05-2018	28	24	21	153	307
*13	BALIMELA	462.08	442.14	2.676	0.233	23-05-2018	9	29	14	-	360
14	SALANADI	82.30	70.60	0.558	0.229	24-05-2018	41	29	24	42	-
*15	RENGALI	123.50	115.54	3.432	1.097	23-05-2018	32	42	13	3	200
*16	MACHKUND(JALPUT)	838.16	827.78	0.893	0.249	23-05-2018	28	18	37	-	115
*17	UPPER KOLAB	858.00	848.25	0.935	0.191	23-05-2018	20	30	15	89	320
*18	UPPER INDRAVATI	642.00	629.64	1.456	0.310	23-05-2018	21	28	22	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	113.80	0.480	0.169	24-05-2018	35	22	17	227	-
20	KANGSABATI	134.14	127.86	0.914	0.422	24-05-2018	46	30	15	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	94.70	0.312	0.312	22-05-2018	100	48	19	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	88.76	6.615	0.845	24-05-2018	13	34	26	348	300
23	SABARMATI(DHAROI)	189.59	180.37	0.735	0.107	24-05-2018	15	23	18	95	1
*24	KADANA	127.7	121.52	1.472	0.636	24-05-2018	43	54	48	200	120
25	SHETRUNJI	55.53	49.52	0.300	0.043	24-05-2018	14	15	9	36	-
26	BHADAR	107.89	102.14	0.188	0.030	24-05-2018	16	1	15	27	-
27	DAMANAGANGA	79.86	69.60	0.502	0.119	24-05-2018	24	14	25	51	1
28	DANTIWADA	184.1	171.56	0.399	0.067	24-05-2018	17	1	1	45	-
29	PANAM	127.41	121.80	0.697	0.249	24-05-2018	36	31	38	36	2
*30	SARDAR SAROVAR	138.68	105.21	5.760	0.000	24-05-2018	0	19	14	2120	1450
31	KARJAN	115.25	102.73	0.523	0.217	24-05-2018	41	28	37	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 24.05.2018

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	458.99	2.171	0.646	23-05-2018	30	21	12	227	-
*33	KOYANA	657.90	634.37	2.652	0.777	23-05-2018	29	13	27	-	1920
34	BHIMA(UJJANI)	496.83	491.08	1.517	0.010	24-05-2018	1	0	4	125	12
35	ISAPUR	441.00	423.76	0.965	0.000	23-05-2018	0	7	22	104	-
36	MULA	552.30	538.42	0.609	0.089	23-05-2018	15	7	12	139	-
37	YELDARI	461.77	447.24	0.809	0.000	23-05-2018	0	1	9	78	-
38	GIRNA	398.07	385.89	0.524	0.083	23-05-2018	16	25	13	79	-
39	KHADAKVASLA	582.47	579.06	0.056	0.015	23-05-2018	27	25	36	78	8
*40	UPPER VAITARNA	603.50	594.94	0.331	0.090	23-05-2018	27	32	33	-	61
41	UPPER TAPI	214.00	208.14	0.255	0.011	23-05-2018	4	12	25	45	-
*42	PENCH (TOTALADOH)	490.00	470.09	1.091	0.097	23-05-2018	9	5	22	127	160
43	UPPER WARDHA	342.50	337.49	0.564	0.205	24-05-2018	36	37	31	70	-
44	BHATSA	142.07	114.16	0.942	0.353	23-05-2018	37	39	34	29.378	15
45	DHOM	747.70	732.88	0.331	0.069	23-05-2018	21	20	24	36.2	2
46	DUDHGANGA	646.00	626.23	0.664	0.170	23-05-2018	26	19	24	2.441	24
47	MANIKDOH (KUKADI)	711.25	688.81	0.288	0.025	23-05-2018	9	3	3	2.2	6
48	BHANDARDARA	744.91	725.67	0.304	0.085	23-05-2018	28	21	16	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	301.39	0.707	0.076	23-05-2018	11	10	30	-	30
*50	RIHAND	268.22	255.57	5.649	0.723	24-05-2018	13	33	15	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	328.80	2.196	0.307	24-05-2018	14	0	27	1897	198
*52	TEHRI	830.00	744.45	2.615	0.076	24-05-2018	3	4	5	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	387.08	6.827	1.170	24-05-2018	17	57	22	220	115
54	TAWA	355.40	338.24	1.944	0.178	24-05-2018	9	23	19	247	-
*55	BARGI	422.76	415.80	3.180	1.502	24-05-2018	47	27	20	157	90
*56	BANSAGAR	341.64	334.13	5.166	2.252	24-05-2018	44	54	28	488	425
*57	INDIRA SAGAR	262.13	249.64	9.745	2.039	24-05-2018	21	23	13	2380	1000
58	BARNA	348.55	339.30	0.456	0.028	24-05-2018	6	29	15	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	350.95	3.046	1.569	21-05-2018	52	59	45	-	120
60	MAHANADI	348.70	341.22	0.767	0.212	23-05-2018	28	15	25	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	243.81	8.288	0.723	24-05-2018	9	5	11	0	770
*62	NAGARJUNA SAGAR	179.83	156.12	6.841	0.107	24-05-2018	2	0	17	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	85.02	1.994	0.352	24-05-2018	18	11	35	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	320.31	2.300	0.190	24-05-2018	8	11	8	411	27
65	LOWER MANAIR	280.42	268.99	0.621	0.104	24-05-2018	17	35	21	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- **24.05.2018**

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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	735.66	1.163	0.070	22-05-2018	6	5	14	79	-
*67	TUNGABHADRA	497.74	480.69	3.276	0.086	24-05-2018	3	1	9	529	72
68	GHATAPRABHA	662.95	636.43	1.391	0.125	23-05-2018	9	4	4	317	-
69	BHADRA	657.76	634.74	1.785	0.091	23-05-2018	5	0	22	106	39
70	LINGANAMAKKI	554.43	535.14	4.294	0.661	24-05-2018	15	10	17	-	55
71	NARAYANPUR	492.25	487.14	0.863	0.218	24-05-2018	25	15	28	425	-
72	MALAPRABHA(RENUKA)	633.83	621.49	0.972	0.055	23-05-2018	6	2	6	215	-
73	KABINI(Sancherla Tank)	696.16	687.23	0.444	0.046	22-05-2018	10	0	8	85	-
74	HEMAVATHY	890.63	872.36	0.927	0.086	22-05-2018	9	4	9	265	-
75	HARANGI	871.42	849.97	0.220	0.009	22-05-2018	4	15	16	53	-
76	SUPA	564.00	534.78	4.120	1.396	24-05-2018	34	29	22	-	-
77	VANIVILAS SAGAR	652.28	631.47	0.802	0.007	24-05-2018	1	2	12	123	-
*78	ALMATTI	519.60	508.20	3.105	0.281	24-05-2018	9	0	6	@	290
*79	GERUSOPPA	55.00	51.36	0.130	0.109	24-05-2018	84	80	85	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	107.68	0.507	0.317	23-05-2018	63	11	23	62	-
*81	IDAMALAYAR	169.00	131.54	1.018	0.169	23-05-2018	17	19	18	33	75
*82	IDUKKI	732.43	708.28	1.460	0.373	23-05-2018	26	12	21	-	780
*83	KAKKI	981.46	954.96	0.447	0.136	23-05-2018	30	14	24	23	300
*84	PERIYAR	867.41	860.13	0.173	0.027	23-05-2018	16	4	27	84	140
85	MALAPMUZHA	115.06	102.72	0.224	0.033	24-05-2018	15	8	19	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	263.68	0.792	0.126	23-05-2018	16	9	24	105	8
*87	METTUR(STANLEY)	240.79	214.22	2.647	0.246	23-05-2018	9	4	34	122	360
88	VAIGAI	279.20	268.88	0.172	0.021	23-05-2018	12	5	23	61	6
89	PARAMBIKULAM	556.26	536.18	0.380	0.023	23-05-2018	6	5	28	101	-
90	ALIYAR	320.04	301.08	0.095	0.001	23-05-2018	1	24	48	#	60
*91	SHOLAYAR	1002.79	961.49	0.143	0.000	23-05-2018	0	0	5	-	95
TOTAL FOR 91 RESERVOIRS				161.993	29.296						
PERCENTAGE							18	22	20		

* 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.

Sd/-

Director

W. M. , CWC