

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 14.06.2018)

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 **14.06.2018**, live storage available in these reservoirs is **28.409 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 **31.070 BCM** and the average of last 10 years live storage was **29.230 BCM**. Thus, the live storage available in 91 reservoirs **as per 14.06.2018 Bulletin** is **91%** of the live storage of corresponding period of last year and **97%** 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 **14.06.2018**, the total live storage available in these reservoirs is **2.90 BCM** which is **16%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **27%** and average storage of last ten years during corresponding period was **28%** 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 **14.06.2018**, the total live storage available in these reservoirs is **3.95 BCM** which is **21%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **20%** and average storage of last ten years during corresponding period was **16%** 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.

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 **14.06.2018**, the total live storage available in these reservoirs is **4.07 BCM** which is **13%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **19%** 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 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 **14.06.2018**, the total live storage available in these reservoirs is **9.15 BCM** which is **22%** 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 **18%** 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 **14.06.2018**, the total live storage available in these reservoirs is **8.35 BCM** which is **16%** 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 **16%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the corresponding period of last year and is equal to 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, Godavari and Cauvery & neighbouring EFRs. Deficient in Indus, Tapi 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 **50** and reservoirs having storage more than average of last ten years are **49**. The numbers of reservoirs having storage less than 20% with respect to last year is **6** 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 **21**.

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 14.06.2018

- 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 14.06.2018 is 28.409 BCM (18 percent of the live storage capacity at FRL).The current year's storage is nearly 91 percent of last year's storage and 97 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.	-60 %	
									PUNJAB	-33 %	
									RAJASTHAN	5 %	
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	-	1	-	-	-	-	3	11	JHARKHAND	4 %	
									ODISHA	14 %	
									W. BENGAL	140 %	
									TRIPURA	278 %	
WEST (Guj.& Mah.), (27 Resv.)	-	-	-	-	-	-	-	27	GUJARAT	-41 %	
									MAH.	2 %	
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	-	1	2	9	U.P.	-19 %	
									UTTARAKHAND	-65 %	
									M.P.	44 %	
									CHHATISGARH	10 %	
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	-	1	2	2	1	25	AP&TG	-62 %	
									A,P	-41 %	
									TG	-6 %	
									KARNATAKA	47 %	
									KERALA	96 %	
									T.N.	-43 %	
Status of 91 reservoirs	0	1	0	1	2	3	6	78			

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 , Godavari and Cauvery & neighbouring EFRS.

Deficient: Indus,Tapi and Krishna

Highly deficient:

- Out of 91 reservoirs, 61 reservoirs reported more than 80% of normal storage & 30 reservoirs reported 80% or below of normal storage. Out of these 30 reservoirs 21 having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SARDAR SAROVAR	0	PONG DAM	45
YELDARI	0	UKAI	46
ISAPUR	0	TAWA	49
BHIMA(UJJANI)	0	MACHKUND(JALPUT)	50
UPPER TAPI	0		
ALIYAR	5		
NAGARJUNA SAGAR	6		
VANIVILAS SAGAR	8		
BARNA	30		
MULA	30		
RAMGANGA	33		
PENCH (TOTALADOH)	35		
METTUR(STANLEY)	36		
GOBIND SAGAR(BHAKR	37		
TILAIYA	38		
MATATILA	41		
BALIMELA	44		

9 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
4	3	2

- 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 :- 14.06.2018

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	6.039	21.49%	9.465	33.69%	5.606	19.95%	7.72
INDUS	14.730	1.896	12.87%	3.846	26.11%	4.009	27.22%	-52.71
NARMADA	21.608	3.377	15.63%	4.008	18.55%	2.493	11.54%	35.46
TAPI	7.394	0.677	9.16%	2.010	27.18%	1.440	19.48%	-52.99
MAHI	4.012	1.378	34.35%	1.567	39.06%	1.334	33.25%	3.30
SABARMATI	0.735	0.096	13.06%	0.147	20.00%	0.114	15.51%	-15.79
RIVERS OF KUTCH	0.887	0.125	14.09%	0.042	4.74%	0.046	5.19%	171.74
GODAVARI	15.394	1.872	12.16%	2.384	15.49%	2.339	15.19%	-19.97
KRISHNA	32.831	3.043	9.27%	1.056	3.22%	4.372	13.32%	-30.40
MAHANADI & NEIGHBOURING EFRS	13.181	3.644	27.65%	3.344	25.37%	2.724	20.67%	33.77
CAUVERY& NEIGHBOURING EFRS	8.359	1.908	22.83%	0.565	6.76%	2.024	24.21%	-5.73
WEST FLOWING RIVERS OF SOUTH	14.766	4.354	29.49%	2.636	17.85%	2.729	18.48%	59.55
TOTAL	161.993	28.409		31.070		29.230		
PERCENTAGE								-2.81

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 14.06.2018

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	460.11	6.229	0.606	14-06-2018	10	28	27	676	1200
*2	PONG DAM	423.67	392.09	6.157	0.571	14-06-2018	9	12	21	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	502.19	2.344	0.719	14-06-2018	31	60	46	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	269.15	1.711	0.528	14-06-2018	31	32	23	63	140
5	JHAKAM	359.50	346.55	0.132	0.037	14-06-2018	28	27	16	28	-
*6	RANA PRATAP SAGAR	352.81	347.01	1.436	0.440	14-06-2018	31	28	38	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	255.73	0.821	0.274	14-06-2018	33	40	32	-	-
8	MAITHON	146.3	138.81	0.471	0.120	14-06-2018	25	19	23	342	-
*9	PANCHET HILL	124.97	122.72	0.184	0.086	14-06-2018	47	48	33	\$	80
10	KONAR	425.81	415.23	0.176	0.032	14-06-2018	18	19	28	\$	-
11	TILAIYA	368.81	363.91	0.142	0.009	14-06-2018	6	24	17	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	184.27	5.378	1.104	13-06-2018	21	15	14	153	307
*13	BALIMELA	462.08	441.84	2.676	0.210	13-06-2018	8	20	18	-	360
14	SALANADI	82.30	71.10	0.558	0.240	14-06-2018	43	29	24	42	-
*15	RENGALI	123.50	112.94	3.432	0.552	13-06-2018	16	16	8	3	200
*16	MACHKUND(JALPUT)	838.16	824.51	0.893	0.135	13-06-2018	15	15	30	-	115
*17	UPPER KOLAB	858.00	846.90	0.935	0.125	13-06-2018	13	23	13	89	320
*18	UPPER INDRAVATI	642.00	627.70	1.456	0.181	13-06-2018	12	20	15	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	113.80	0.480	0.170	14-06-2018	35	23	19	227	-
20	KANGSABATI	134.14	127.86	0.914	0.422	14-06-2018	46	25	17	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	93.00	0.312	0.287	12-06-2018	92	53	24	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	87.34	6.615	0.626	14-06-2018	9	28	21	348	300
23	SABARMATI(DHAROI)	189.59	180.02	0.735	0.096	14-06-2018	13	20	16	95	1
*24	KADANA	127.7	120.63	1.472	0.574	14-06-2018	39	52	45	200	120
25	SHETRUNJI	55.53	49.17	0.300	0.038	14-06-2018	13	13	8	36	-
26	BHADAR	107.89	101.66	0.188	0.023	14-06-2018	12	0	9	27	-
27	DAMANAGANGA	79.86	68.05	0.502	0.085	14-06-2018	17	10	10	51	1
28	DANTIWADA	184.1	171.37	0.399	0.064	14-06-2018	16	1	2	45	-
29	PANAM	127.41	121.55	0.697	0.239	14-06-2018	34	30	37	36	2
*30	SARDAR SAROVAR	138.68	106.15	5.760	0.000	14-06-2018	0	19	11	2120	1450
31	KARJAN	115.25	100.00	0.523	0.179	14-06-2018	34	24	29	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 14.06.2018

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	458.33	2.171	0.502	14-06-2018	23	19	9	227	-
*33	KOYANA	657.90	631.24	2.652	0.623	14-06-2018	23	7	21	-	1920
34	BHIMA(UJJANI)	496.83	489.52	1.517	0.000	14-06-2018	0	0	3	125	12
35	ISAPUR	441.00	424.94	0.965	0.000	14-06-2018	0	3	19	104	-
36	MULA	552.30	534.46	0.609	0.009	14-06-2018	1	2	5	139	-
37	YELDARI	461.77	447.31	0.809	0.000	14-06-2018	0	3	8	78	-
38	GIRNA	398.07	384.50	0.524	0.051	14-06-2018	10	26	8	79	-
39	KHADAKVASLA	582.47	578.72	0.056	0.013	14-06-2018	23	34	25	78	8
*40	UPPER VAITARNA	603.50	594.79	0.331	0.087	13-06-2018	26	24	27	-	61
41	UPPER TAPI	214.00	206.70	0.255	0.000	14-06-2018	0	5	11	45	-
*42	PENCH (TOTALADOH)	490.00	468.55	1.091	0.067	14-06-2018	6	4	18	127	160
43	UPPER WARDHA	342.50	337.31	0.564	0.195	14-06-2018	35	35	29	70	-
44	BHATSA	142.07	110.84	0.942	0.304	14-06-2018	32	35	29	29.378	15
45	DHOM	747.70	731.50	0.331	0.053	13-06-2018	16	11	19	36.2	2
46	DUDHGANGA	646.00	624.55	0.664	0.143	14-06-2018	22	15	20	2.441	24
47	MANIKDOH (KUKADI)	711.25	686.74	0.288	0.015	14-06-2018	5	3	3	2.2	6
48	BHANDARDARA	744.91	725.56	0.304	0.084	14-06-2018	28	13	9	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	301.20	0.707	0.067	13-06-2018	9	9	23	-	30
*50	RIHAND	268.22	255.21	5.649	0.616	13-06-2018	11	27	12	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	324.62	2.196	0.184	14-06-2018	8	0	25	1897	198
*52	TEHRI	830.00	741.95	2.615	0.028	14-06-2018	1	0	2	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	386.93	6.827	1.133	14-06-2018	17	55	17	220	115
54	TAWA	355.40	338.27	1.944	0.179	14-06-2018	9	22	19	247	-
*55	BARGI	422.76	414.80	3.180	1.318	14-06-2018	41	23	15	157	90
*56	BANSAGAR	341.64	333.85	5.166	2.171	13-06-2018	42	51	31	488	425
*57	INDIRA SAGAR	262.13	248.76	9.745	1.681	14-06-2018	17	15	8	2380	1000
58	BARNA	348.55	338.98	0.456	0.020	14-06-2018	4	27	15	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	350.72	3.046	1.540	14-06-2018	51	57	47	-	120
60	MAHANADI	348.70	341.13	0.767	0.208	13-06-2018	27	12	21	319	10
SOUTHERN REGION											
A.P & TG											
*61	SRISAILAM	269.75	243.81	8.288	0.723	14-06-2018	9	6	10	0	770
*62	NAGARJUNA SAGAR	179.83	155.91	6.841	0.072	14-06-2018	1	0	18	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	84.78	1.994	0.339	14-06-2018	17	11	29	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	321.56	2.300	0.263	14-06-2018	11	11	11	411	27
65	LOWER MANAIR	280.42	268.83	0.621	0.101	14-06-2018	16	34	23	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 14.06.2018

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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	740.86	1.163	0.272	13-06-2018	23	5	10	79	-
*67	TUNGABHADRA	497.74	483.70	3.276	0.219	14-06-2018	7	1	13	529	72
68	GHATAPRABHA	662.95	636.64	1.391	0.125	14-06-2018	9	3	3	317	-
69	BHADRA	657.76	640.66	1.785	0.343	14-06-2018	19	2	21	106	39
70	LINGANAMAKKI	554.43	537.09	4.294	0.849	14-06-2018	20	10	13	-	55
71	NARAYANPUR	492.25	489.03	0.863	0.380	14-06-2018	44	14	31	425	-
72	MALAPRABHA(RENUKA)	633.83	621.65	0.972	0.060	14-06-2018	6	2	5	215	-
73	KABINI(Sancherla Tank)	696.16	692.83	0.444	0.266	13-06-2018	60	0	7	85	-
74	HEMAVATHY	890.63	880.43	0.927	0.337	13-06-2018	36	4	9	265	-
75	HARANGI	871.42	859.57	0.220	0.064	13-06-2018	29	19	17	53	-
76	SUPA	564.00	534.65	4.120	1.387	14-06-2018	34	27	19	-	-
77	VANIVILAS SAGAR	652.28	631.52	0.802	0.008	14-06-2018	1	2	12	123	-
*78	ALMATTI	519.60	508.06	3.105	0.266	14-06-2018	9	0	7	@	290
*79	GERUSOPPA	55.00	50.11	0.130	0.103	14-06-2018	79	72	78	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	108.57	0.507	0.334	13-06-2018	66	15	23	62	-
*81	IDAMALAYAR	169.00	134.04	1.018	0.206	12-06-2018	20	17	15	33	75
*82	IDUKKI	732.43	708.73	1.460	0.508	13-06-2018	35	11	18	-	780
*83	KAKKI	981.46	958.92	0.447	0.173	13-06-2018	39	13	21	23	300
*84	PERIYAR	867.41	864.00	0.173	0.109	13-06-2018	63	4	29	84	140
85	MALAPMUZHA	115.06	106.80	0.224	0.074	14-06-2018	33	8	21	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	268.58	0.792	0.267	13-06-2018	34	9	26	105	8
*87	METTUR(STANLEY)	240.79	216.39	2.647	0.341	13-06-2018	13	5	36	122	360
88	VAIGAI	279.20	269.04	0.172	0.022	13-06-2018	13	3	19	61	6
89	PARAMBIKULAM	556.26	538.29	0.380	0.053	13-06-2018	14	6	27	101	-
90	ALIYAR	320.04	301.57	0.095	0.002	13-06-2018	2	18	41	#	60
*91	SHOLAYAR	1002.79	988.79	0.143	0.080	13-06-2018	56	1	11	-	95
TOTAL FOR 91 RESERVOIRS				161.993	28.409						
PERCENTAGE							18	19	18		

* 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