

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 06.06.2109)

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 **06.06.2109**, live storage available in these reservoirs is **30.461 BCM**, which is **19%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **26.690 BCM** and the average of last 10 years live storage was **29.536 BCM**. Thus, the live storage available in 91 reservoirs **as per 06.06.2109 Bulletin** is **114%** of the live storage of corresponding period of last year and **103%** of storage of average of last ten years.

The overall storage position is **more than the** corresponding period of last year in the country as a whole and is also **more 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 **06.06.2109**, the total live storage available in these reservoirs is **7.39 BCM** which is **41%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **14%** and average storage of last ten years during corresponding period was **25%** 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 **06.06.2109**, the total live storage available in these reservoirs is **3.76 BCM** which is **20%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **21%** 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 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 **06.06.2109**, the total live storage available in these reservoirs is **3.35 BCM** which is **11%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **14%** 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 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 **06.06.2109**, the total live storage available in these reservoirs is **10.34 BCM** which is **24%** 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 **20%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the storage of last year and is also 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 **06.06.2109**, the total live storage available in these reservoirs is **5.64 BCM** which is **11%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **12%** and average storage of last ten years during corresponding period was **15%** 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 Ganga,Indus, and Narmada Close to Normal in Mahi, and Mahanadi & Neighbouring East Flowing Rivers and West Flowing Rivers of South. Deficient in Sabarmati, Rivers of Kutch, Godavari, Krishna and Cauvery & neighbouring EFRs and Highly Deficient in Tapi.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **24** and reservoirs having storage more than average of last ten years are **32**. The numbers of reservoirs having storage less than 20% with respect to last year is **12** and having storage less than 20% with reference to average of last ten years is **19**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **22** and having storage less than or equal to 50% with reference to average of last ten years are **28**.

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 06.06.2019

- 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 **06.06.2019** is **30.461** BCM (**19** percent of the live storage capacity at FRL).The current year's storage is nearly **114** percent of last year's storage and **103** percent of the average of last ten years.

3 Region wise storage status:-

REGION (States), (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	-	1	4	H.P.	92 %
									PUNJAB	43 %
									RAJASTHAN	-7 %
EAST (Jharkhand, Odisha, Tripura & W. Bengal (15 Resv.))	-	-	-	-	-	1	-	14	JHARKHAND	-14 %
									ODISHA	11 %
									W. BENGAL	31 %
									TRIPURA	15 %
WEST (Guj. & Mah.), (27 Resv.)	-	-	-	-	-	-	-	27	GUJARAT	-23 %
									MAH.	-64 %
CENTRAL (MP, UP, Uttarakhand & Chh.), (12 Resv)	-	-	-	-	1	-	1	10	U.P.	-17 %
									UTTARAKHAND	45 %
									M.P.	34 %
									CHHATISGARH	-7 %
SOUTH (Karnataka, TN, AP&TG, AP, TG, & Kerala), (31 Resv.)	-	-	1	-	-	-	-	30	AP&TG	-50 %
									A,P	-84 %
									TG	-32 %
									KARNATAKA	1 %
									KERALA	-12 %
									T.N.	-39 %
Status of 91 reservoirs	0	0	1	0	2	1	2	85		

4 Basin wise storage position:

Better than normal: Ganga, Indus and Narmada.

Close to normal: Mahi and Mahanadi & Neighbouring East Flowing Rivers and West Flowing Rivers of South .

Deficient: Sabarmati, Rivers of Kutch, Godavari, Krishna and Cauvery & neighbouring EFRs .

Highly deficient: Tapi

- 5 Out of 91 reservoirs, **43** reservoirs reported more than 80% of normal storage & **48** reservoirs reported 80% or below of normal storage. Out of these **48** reservoirs **28** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
YELDARI	0	SOMASILA	16
BHIMA(UJJANI)	0	UKAI	19
JAYAKWADI(PAITHON)	0	TUNGABHADRA	21
SHOLAYAR	0	GHATAPRABHA	25
UPPER TAPI	0	MATATILA	32
PENCH (TOTALADOH)	0	MANIKDOH	38
NAGARJUNA SAGAR	0	TAWA	38
ALIYAR	0	DAMANAGANGA	43
GANDHI SAGAR	2	UPPER WARDHA	46
DHOM	3	KOYANA	48
BARNA	4	UPPER VAITARNA	49
ISAPUR	4		
TILAIYA	8		
VANIVILAS SAGAR	11		
BHANDARDARA	12		
BHADAR	14		
DUDHGANGA	15		

20 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
6	7	7

- 6 Out of 37 reservoirs with significant(*) hydropower generation, the storage build up is less than or equal to normal in **20** 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 :- 06.06.2019

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	6.368	22.67%	6.081	21.64%	6.013	21.40%	5.90
INDUS	14.730	6.591	44.75%	1.520	10.32%	3.694	25.08%	78.42
NARMADA	21.608	5.139	23.78%	3.572	16.53%	2.987	13.82%	72.05
TAPI	7.394	0.299	4.04%	0.769	10.40%	1.458	19.72%	-79.49
MAHI	4.012	1.218	30.36%	1.403	34.97%	1.371	34.17%	-11.16
SABARMATI	0.735	0.066	8.98%	0.100	13.61%	0.110	14.97%	-40.00
RIVERS OF KUTCH	0.887	0.044	4.96%	0.129	14.54%	0.059	6.65%	-25.42
GODAVARI	15.394	1.676	10.89%	1.933	12.56%	2.342	15.21%	-28.44
KRISHNA	32.831	2.045	6.23%	2.715	8.27%	3.768	11.48%	-45.73
MAHANADI & NEIGHBOURING EFRS	13.181	3.050	23.14%	3.703	28.09%	3.096	23.49%	-1.49
CAUVERY & NEIGHBOURING EFRS	8.359	1.080	12.92%	1.223	14.63%	1.735	20.76%	-37.75
WEST FLOWING RIVERS OF SOUTH	14.766	2.885	19.54%	3.542	23.99%	2.903	19.66%	-0.62
TOTAL	161.993	30.461		26.690		29.536		
PERCENTAGE								3.13

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 06.06.2019

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
<u>NORTHERN REGION</u>											
<u>HIMACHAL PRADESH</u>											
*1	GOBIND SAGAR(BHAKRA)	512.06	491.33	6.229	2.778	06-06-2019	45	6	23	676	1200
*2	PONG DAM	423.67	406.70	6.157	2.336	06-06-2019	38	9	20	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	515.79	2.344	1.477	06-06-2019	63	26	44	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	267.90	1.711	0.445	06-06-2019	26	31	24	63	140
5	JHAKAM	359.50	345.15	0.132	0.031	06-06-2019	23	29	19	28	-
*6	RANA PRATAP SAGAR	352.81	346.16	1.436	0.318	06-06-2019	22	31	29	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	256.58	0.821	0.298	06-06-2019	36	37	33	-	-
8	MAITHON	146.3	137.37	0.471	0.081	06-06-2019	17	25	24	342	-
*9	PANCHET HILL	124.97	121.71	0.184	0.054	06-06-2019	29	20	40	\$	80
10	KONAR	425.81	415.20	0.176	0.031	06-06-2019	18	19	32	\$	-
11	TILAIYA	368.81	363.52	0.142	0.002	06-06-2019	1	6	17	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	183.74	5.378	0.950	06-06-2019	18	22	17	153	307
*13	BALIMELA	462.08	446.53	2.676	0.599	06-06-2019	22	7	16	-	360
14	SALANADI	82.30	73.71	0.558	0.302	06-06-2019	54	42	23	42	-
*15	RENGALI	123.50	111.42	3.432	0.271	06-06-2019	8	16	12	3	200
*16	MACHKUND(JALPUT)	838.16	828.40	0.893	0.274	06-06-2019	31	21	25	-	115
*17	UPPER KOLAB	858.00	847.50	0.935	0.155	06-06-2019	17	16	18	89	320
*18	UPPER INDRAVATI	642.00	628.92	1.456	0.262	06-06-2019	18	15	17	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	109.79	0.480	0.076	06-06-2019	16	36	20	227	-
20	KANGSABATI	134.14	125.70	0.914	0.305	06-06-2019	33	46	21	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	88.20	0.312	0.097	05-06-2019	31	74	27	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	84.57	6.615	0.254	06-06-2019	4	11	21	348	300
23	SABARMATI(DHAROI)	189.59	179.03	0.735	0.066	06-06-2019	9	14	15	95	1
*24	KADANA	127.7	119.53	1.472	0.501	06-06-2019	34	40	46	200	120
25	SHETRUNJI	55.53	47.87	0.300	0.021	06-06-2019	7	13	9	36	-
26	BHADAR	107.89	98.90	0.188	0.003	06-06-2019	2	13	11	27	-
27	DAMANAGANGA	79.86	64.20	0.502	0.026	06-06-2019	5	20	12	51	1
28	DANTIWADA	184.1	166.80	0.399	0.020	06-06-2019	5	16	3	45	-
29	PANAM	127.41	121.60	0.697	0.241	06-06-2019	35	35	37	36	2
*30	SARDAR SAROVAR	138.68	120.28	5.760	1.269	06-06-2019	22	0	11	2120	1450
31	KARJAN	115.25	99.27	0.523	0.168	05-06-2019	32	37	31	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 06.06.2019

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	454.33	2.171	0.000	06-06-2019	0	24	9	227	-
*33	KOYANA	657.90	622.15	2.652	0.268	06-06-2019	10	24	21	-	1920
34	BHIMA(UJJANI)	496.83	485.65	1.517	0.000	04-06-2019	0	0	3	125	12
35	ISAPUR	441.00	426.21	0.965	0.007	06-06-2019	1	0	16	104	-
36	MULA	552.30	535.13	0.609	0.020	06-06-2019	3	3	5	139	-
37	YELDARI	461.77	445.47	0.809	0.000	06-06-2019	0	0	9	78	-
38	GIRNA	398.07	384.24	0.524	0.045	06-06-2019	9	13	10	79	-
39	KHADAKVASLA	582.47	579.73	0.056	0.022	06-06-2019	39	46	38	78	8
*40	UPPER VAITARNA	603.50	591.85	0.331	0.048	05-06-2019	15	27	29	-	61
41	UPPER TAPI	214.00	206.66	0.255	0.000	06-06-2019	0	0	15	45	-
*42	PENCH (TOTALADOH)	490.00	461.60	1.091	0.000	06-06-2019	0	7	18	127	160
43	UPPER WARDHA	342.50	334.77	0.564	0.079	06-06-2019	14	35	30	70	-
44	BHATSA	142.07	107.65	0.942	0.260	05-06-2019	28	34	33	29.378	15
45	DHOM	747.70	725.74	0.331	0.002	06-06-2019	1	16	18	36.2	2
46	DUDHGANGA	646.00	611.76	0.664	0.019	06-06-2019	3	21	19	2.441	24
47	MANIKDOH (KUKADI)	711.25	683.75	0.288	0.003	06-06-2019	1	5	3	2.2	6
48	BHANDARDARA	744.91	702.17	0.304	0.005	06-06-2019	2	27	13	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	300.96	0.707	0.056	06-06-2019	8	10	25	-	30
*50	RIHAND	268.22	255.57	5.649	0.723	06-06-2019	13	11	13	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	342.51	2.196	0.816	06-06-2019	37	9	25	1897	198
*52	TEHRI	830.00	743.82	2.615	0.062	06-06-2019	2	2	2	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	381.22	6.827	0.030	06-06-2019	0	17	19	220	115
54	TAWA	355.40	337.41	1.944	0.136	06-06-2019	7	9	18	247	-
*55	BARGI	422.76	413.35	3.180	1.104	06-06-2019	35	43	20	157	90
*56	BANSAGAR	341.64	337.59	5.166	3.419	06-06-2019	66	42	36	488	425
*57	INDIRA SAGAR	262.13	251.14	9.745	2.459	06-06-2019	25	19	12	2380	1000
58	BARNA	348.55	338.15	0.456	0.003	06-06-2019	1	5	15	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	349.58	3.046	1.399	06-06-2019	46	51	48	-	120
60	MAHANADI	348.70	339.47	0.767	0.128	06-06-2019	17	27	22	319	10
SOUTHERN REGION											
A.P & TG											
*61	SRISAILAM	269.75	245.97	8.288	0.825	06-06-2019	10	9	9	0	770
*62	NAGARJUNA SAGAR	179.83	155.02	6.841	0.000	06-06-2019	0	1	13	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	78.11	1.994	0.090	06-06-2019	5	17	28	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	319.83	2.300	0.165	06-06-2019	7	8	12	411	27
65	LOWER MANAIR	280.42	269.22	0.621	0.110	06-06-2019	18	16	22	199	60

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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	739.07	1.163	0.190	06-06-2019	16	12	8	79	-
*67	TUNGABHADRA	497.74	480.11	3.276	0.068	06-06-2019	2	4	10	529	72
68	GHATAPRABHA	662.95	630.28	1.391	0.014	06-06-2019	1	9	4	317	-
69	BHADRA	657.76	639.16	1.785	0.267	06-06-2019	15	7	18	106	39
70	LINGANAMAKKI	554.43	533.37	4.294	0.513	06-06-2019	12	13	14	-	55
71	NARAYANPUR	492.25	487.18	0.863	0.221	06-06-2019	26	41	30	425	-
72	MALAPRABHA(RENUKA)	633.83	620.72	0.972	0.033	06-06-2019	3	5	5	215	-
73	KABINI(Sancherla Tank)	696.16	687.89	0.444	0.067	06-06-2019	15	19	9	85	-
74	HEMAVATHY	890.63	872.93	0.927	0.098	06-06-2019	11	15	8	265	-
75	HARANGI	871.42	855.08	0.220	0.031	06-06-2019	14	3	14	53	-
76	SUPA	564.00	532.39	4.120	1.240	06-06-2019	30	33	22	-	-
77	VANIVILAS SAGAR	652.28	631.70	0.802	0.010	06-06-2019	1	1	11	123	-
*78	ALMATTI	519.60	508.31	3.105	0.293	06-06-2019	9	9	6	@	290
*79	GERUSOPPA	55.00	51.44	0.130	0.109	06-06-2019	84	82	82	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	99.57	0.507	0.187	06-06-2019	37	61	25	62	-
*81	IDAMALAYAR	169.00	125.29	1.018	0.090	06-06-2019	9	13	14	33	75
*82	IDUKKI	732.43	704.67	1.460	0.259	06-06-2019	18	25	19	-	780
*83	KAKKI	981.46	936.43	0.447	0.051	06-06-2019	11	26	20	23	300
*84	PERIYAR	867.41	859.71	0.173	0.021	06-06-2019	12	23	21	84	140
85	MALAPMUZHA	115.06	101.47	0.224	0.024	06-06-2019	11	16	19	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	264.88	0.792	0.155	06-06-2019	20	20	19	105	8
*87	METTUR(STANLEY)	240.79	218.20	2.647	0.433	06-06-2019	16	12	30	122	360
88	VAIGAI	279.20	268.08	0.172	0.016	06-06-2019	9	12	13	61	6
89	PARAMBIKULAM	556.26	538.57	0.380	0.057	06-06-2019	15	8	23	101	-
90	ALIYAR	320.04	300.84	0.095	0.000	06-06-2019	0	0	36	#	60
*91	SHOLAYAR	1002.79	955.38	0.143	0.000	06-06-2019	0	3	8	-	95
TOTAL FOR 91 RESERVOIRS				161.993	30.461						
PERCENTAGE							19	16	18		

Sd/-

Director

W. M. , CWC

* 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.