

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 27.06.2019)

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 **27.06.2019**, live storage available in these reservoirs is **26.272 BCM**, which is **16%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **29.612 BCM** and the average of last 10 years live storage was **30.708 BCM**. Thus, the live storage available in 91 reservoirs **as per 27.06.2019 Bulletin** is **89%** of the live storage of corresponding period of last year and **86%** 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 **27.06.2019**, the total live storage available in these reservoirs is **6.58 BCM** which is **37%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **13%** 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 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 **27.06.2019**, the total live storage available in these reservoirs is **2.83 BCM** which is **15%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **17%** 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 less than the corresponding period of last year and is also less 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 **27.06.2019**, the total live storage available in these reservoirs is **2.88 BCM** which is **9%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **13%** 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 **27.06.2019**, the total live storage available in these reservoirs is **8.80 BCM** which is **21%** 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 **20%** of live storage capacity of these reservoirs. Thus, storage during current year is equal to the storage of last year and 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 **27.06.2019**, the total live storage available in these reservoirs is **5.18 BCM** which is **10%** 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 **18%** 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 and Narmada. Close to Normal in Ganga, Mahi and Mahanadi & Neighbouring East Flowing Rivers. Deficient in Sabarmati, Rivers of Kutch, Godavari, Cauvery & neighbouring EFRs and West Flowing Rivers of South and Highly Deficient in Tapi and Krishna.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **19** and reservoirs having storage more than average of last ten years are **21**. The numbers of reservoirs having storage less than 20% with respect to last year is **21** and having storage less than 20% with reference to average of last ten years is **22**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **43** and having storage less than or equal to 50% with reference to average of last ten years are **44**.

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 27.06.2019

- 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 **27.06.2019** is **26.272** BCM (**16** percent of the live storage capacity at FRL).The current year's storage is nearly **89** percent of last year's storage and **86** 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	-	5	H.P.	65 %
									PUNJAB	18 %
									RAJASTHAN	-8 %
EAST (Jharkhand, Odisha, Tripura & W. Bengal (15 Resv.)	-	-	-	-	-	1	-	14	JHARKHAND	-27 %
									ODISHA	-5 %
									W. BENGAL	7 %
									TRIPURA	-23 %
WEST (Guj.& Mah.), (27 Resv.)	-	-	-	-	-	-	-	27	GUJARAT	-23 %
									MAH.	-77 %
CENTRAL (MP, UP, Uttarakhand & Chh.), (12 Resv)	-	-	-	-	-	-	2	10	U.P.	-13 %
									UTTARAKHAND	-5 %
									M.P.	16 %
									CHHATISGARH	-12 %
SOUTH (Karnataka, TN, AP&TG, AP, TG, & Kerala), (31 Resv.)	-	-	1	-	-	-	-	30	AP&TG	-52 %
									A,P	-84 %
									TG	-36 %
									KARNATAKA	-36 %
									KERALA	-47 %
									T.N.	-47 %
Status of 91 reservoirs	0	0	1	0	0	2	2	86		

4 Basin wise storage position:

Better than normal: Indus and Narmada

Close to normal: Ganga, Mahi and Mahanadi & Neighbouring East Flowing Rivers .

Deficient: Sabarmati, Rivers of Kutch, Godavari ,Cauvery & neighbouring EFRs and West Flowing Rivers of South .

Highly deficient: Tapi and Krishna

- 5 Out of 91 reservoirs, **29** reservoirs reported more than 80% of normal storage & **62** reservoirs reported 80% or below of normal storage. Out of these **62** reservoirs **44** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
YELDARI	0	GHATAPRABHA	9
BHIMA(UJJANI)	0	VANIVILAS SAGAR	10
JAYAKWADI(PAITHON)	0	UKAI	15
SHOLAYAR	0	SOMASILA	16
UPPER TAPI	0	BHADAR	18
PENCH (TOTALADOH)	0	UPPER VAITARNA	21
NAGARJUNA SAGAR	0	DAMANAGANGA	22
ISAPUR	0	KOYANA	23
GANDHI SAGAR	0	TEHRI	24
TILAIYA	0	MATATILA	26
BARNA	0	KAKKI	29
ALIYAR	0	TAWA	31
BHANDARDARA	0	PANCHET HILL	31
DHOM	3	MALAPRABHA(RENUKA)	33
DUDHGANGA	8	SHETRUNJI	34
MANIKDOH	8	IDAMALAYAR	35
TUNGABHADRA	8	RENGALI	35
		MULA	36
		PERIYAR	38
		MALAMPUZHA	39
		HARANGI	43
		BHADRA	47
		HEMAVATHY	48

18 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
9	2	7

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

23 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

WEEK ENDING :- 27.06.2019

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	5.145	18.31%	5.939	21.14%	6.279	22.35%	-18.06
INDUS	14.730	5.783	39.26%	1.442	9.79%	3.795	25.76%	52.38
NARMADA	21.608	4.678	21.65%	3.172	14.68%	2.452	11.35%	90.78
TAPI	7.394	0.237	3.21%	0.627	8.48%	1.386	18.74%	-82.90
MAHI	4.012	1.196	29.81%	1.336	33.30%	1.306	32.55%	-8.42
SABARMATI	0.735	0.054	7.35%	0.089	12.11%	0.106	14.42%	-49.06
RIVERS OF KUTCH	0.887	0.042	4.74%	0.118	13.30%	0.097	10.94%	-56.70
GODAVARI	15.394	1.237	8.04%	1.657	10.76%	2.191	14.23%	-43.54
KRISHNA	32.831	1.802	5.49%	3.941	12.00%	4.835	14.73%	-62.73
MAHANADI & NEIGHBOURING EFRS	13.181	2.553	19.37%	3.007	22.81%	2.807	21.30%	-9.05
CAUVERY & NEIGHBOURING EFRS	8.359	1.039	12.43%	3.146	37.64%	2.128	25.46%	-51.17
WEST FLOWING RIVERS OF SOUTH	14.766	2.506	16.97%	5.138	34.80%	3.326	22.52%	-24.65
TOTAL	161.993	26.272		29.612		30.708		
PERCENTAGE								-14.45

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

WEEK ENDING :- 27.06.2019

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	489.01	6.229	2.519	27-06-2019	40	6	25	676	1200
*2	PONG DAM	423.67	405.10	6.157	2.072	27-06-2019	34	6	20	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	511.51	2.344	1.192	27-06-2019	51	30	43	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	267.75	1.711	0.437	27-06-2019	26	31	22	63	140
5	JHAKAM	359.50	345.30	0.132	0.032	27-06-2019	24	29	17	28	-
*6	RANA PRATAP SAGAR	352.81	346.25	1.436	0.331	27-06-2019	23	29	33	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	256.70	0.821	0.301	27-06-2019	37	29	34	-	-
8	MAITHON	146.3	136.58	0.471	0.065	27-06-2019	14	29	28	342	-
*9	PANCHET HILL	124.97	120.72	0.184	0.026	27-06-2019	14	66	46	\$	80
10	KONAR	425.81	414.53	0.176	0.027	27-06-2019	15	17	31	\$	-
11	TILAIYA	368.81	363.31	0.142	0.000	27-06-2019	0	12	19	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	182.56	5.378	0.620	27-06-2019	12	15	11	153	307
*13	BALIMELA	462.08	444.00	2.676	0.379	27-06-2019	14	6	14	-	360
14	SALANADI	82.30	73.63	0.558	0.301	27-06-2019	54	43	26	42	-
*15	RENGALI	123.50	110.50	3.432	0.119	27-06-2019	3	6	10	3	200
*16	MACHKUND(JALPUT)	838.16	826.82	0.893	0.212	27-06-2019	24	8	25	-	115
*17	UPPER KOLAB	858.00	846.18	0.935	0.090	27-06-2019	10	8	14	89	320
*18	UPPER INDRAVATI	642.00	628.31	1.456	0.221	27-06-2019	15	9	16	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	109.77	0.480	0.075	27-06-2019	16	33	24	227	-
20	KANGSABATI	134.14	125.65	0.914	0.302	27-06-2019	33	46	26	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	88.05	0.312	0.093	26-06-2019	30	100	39	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	84.10	6.615	0.198	27-06-2019	3	9	20	348	300
23	SABARMATI(DHAROI)	189.59	178.64	0.735	0.054	27-06-2019	7	12	14	95	1
*24	KADANA	127.7	119.36	1.472	0.490	27-06-2019	33	36	43	200	120
25	SHETRUNJI	55.53	47.62	0.300	0.018	27-06-2019	6	12	18	36	-
26	BHADAR	107.89	99.48	0.188	0.006	27-06-2019	3	11	18	27	-
27	DAMANAGANGA	79.86	63.25	0.502	0.016	27-06-2019	3	25	15	51	1
28	DANTIWADA	184.1	166.57	0.399	0.018	27-06-2019	5	16	3	45	-
29	PANAM	127.41	121.50	0.697	0.237	27-06-2019	34	35	37	36	2
*30	SARDAR SAROVAR	138.68	119.68	5.760	1.172	27-06-2019	20	0	8	2120	1450
31	KARJAN	115.25	97.89	0.523	0.148	27-06-2019	28	33	29	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

WEEK ENDING :- 27.06.2019

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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>MAHARASHTRA</u>											
32	JAYAKWADI(PAITHON)	463.91	454.12	2.171	0.000	27-06-2019	0	22	7	227	-
*33	KOYANA	657.90	618.44	2.652	0.159	27-06-2019	6	25	26	-	1920
34	BHIMA(UJJANI)	496.83	485.12	1.517	0.000	27-06-2019	0	0	4	125	12
35	ISAPUR	441.00	425.39	0.965	0.000	27-06-2019	0	1	18	104	-
36	MULA	552.30	534.46	0.609	0.009	27-06-2019	1	1	4	139	-
37	YELDARI	461.77	445.39	0.809	0.000	27-06-2019	0	0	8	78	-
38	GIRNA	398.07	383.94	0.524	0.039	27-06-2019	7	10	8	79	-
39	KHADAKVASLA	582.47	578.39	0.056	0.009	27-06-2019	16	14	27	78	8
*40	UPPER VAITARNA	603.50	588.90	0.331	0.018	27-06-2019	5	31	26	-	61
41	UPPER TAPI	214.00	205.36	0.255	0.000	27-06-2019	0	3	17	45	-
*42	PENCH (TOTALADOH)	490.00	458.65	1.091	0.000	27-06-2019	0	5	16	127	160
43	UPPER WARDHA	342.50	334.45	0.564	0.067	27-06-2019	12	34	32	70	-
44	BHATSA	142.07	103.64	0.942	0.208	27-06-2019	22	34	33	29.378	15
45	DHOM	747.70	725.71	0.331	0.002	27-06-2019	1	15	20	36.2	2
46	DUDHGANGA	646.00	610.14	0.664	0.011	26-06-2019	2	24	22	2.441	24
47	MANIKDOH (KUKADI)	711.25	683.34	0.288	0.001	27-06-2019	0	7	5	2.2	6
48	BHANDARDARA	744.91	697.17	0.304	0.000	27-06-2019	0	32	14	63.74	46
<u>CENTRAL REGION</u>											
<u>UTTAR PRADESH</u>											
49	MATATILA	308.46	300.72	0.707	0.047	26-06-2019	7	8	25	-	30
*50	RIHAND	268.22	255.30	5.649	0.643	27-06-2019	11	10	11	-	300
<u>UTTRAKHAND</u>											
*51	RAMGANGA	365.30	337.33	2.196	0.607	27-06-2019	28	8	23	1897	198
*52	TEHRI	830.00	742.88	2.615	0.045	27-06-2019	2	2	7	2351	1000
<u>MADHYA PRADESH</u>											
*53	GANDHI SAGAR	399.90	380.43	6.827	0.000	27-06-2019	0	16	22	220	115
54	TAWA	355.40	337.29	1.944	0.130	27-06-2019	7	9	22	247	-
*55	BARGI	422.76	412.75	3.180	1.023	27-06-2019	32	39	17	157	90
*56	BANSAGAR	341.64	335.23	5.166	2.583	27-06-2019	50	42	34	488	425
*57	INDIRA SAGAR	262.13	250.15	9.745	2.205	27-06-2019	23	16	9	2380	1000
58	BARNA	348.55	337.00	0.456	0.000	27-06-2019	0	4	16	546	-
<u>CHHATTIS GARH</u>											
*59	MINIMATA BANGOI	359.66	349.46	3.046	1.385	25-06-2019	45	50	50	-	120
60	MAHANADI	348.70	339.32	0.767	0.128	26-06-2019	17	26	23	319	10
<u>SOUTHERN REGION</u>											
<u>A.P & TG</u>											
*61	SRISAILAM	269.75	245.64	8.288	0.809	27-06-2019	10	9	9	0	770
*62	NAGARJUNA SAGAR	179.83	154.75	6.841	0.000	27-06-2019	0	1	13	895	810
<u>ANDHRA PRADESH</u>											
63	SOMASILA	100.58	77.54	1.994	0.077	27-06-2019	4	17	24	168	0
<u>TELANGANA</u>											
64	SRIRAMSAGAR	332.54	319.67	2.300	0.157	27-06-2019	7	13	12	411	27
65	LOWER MANAIR	280.42	268.90	0.621	0.102	27-06-2019	16	16	21	199	60

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WEEK ENDING :- 27.06.2019

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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	738.76	1.163	0.177	27-06-2019	15	56	18	79	-
*67	TUNGABHADRA	497.74	479.65	3.276	0.056	27-06-2019	2	24	20	529	72
68	GHATAPRABHA	662.95	629.85	1.391	0.009	27-06-2019	1	11	7	317	-
69	BHADRA	657.76	638.19	1.785	0.223	27-06-2019	12	31	27	106	39
70	LINGANAMAKKI	554.43	531.42	4.294	0.376	27-06-2019	9	24	16	-	55
71	NARAYANPUR	492.25	487.40	0.863	0.238	27-06-2019	28	43	34	425	-
72	MALAPRABHA(RENUKA)	633.83	620.20	0.972	0.020	27-06-2019	2	6	6	215	-
73	KABINI(Sancherla Tank)	696.16	688.05	0.444	0.072	27-06-2019	16	91	34	85	-
74	HEMAVATHY	890.63	873.08	0.927	0.101	27-06-2019	11	63	23	265	-
75	HARANGI	871.42	855.67	0.220	0.035	27-06-2019	16	48	37	53	-
76	SUPA	564.00	531.38	4.120	1.177	27-06-2019	29	34	21	-	-
77	VANIVILAS SAGAR	652.28	631.64	0.802	0.009	27-06-2019	1	1	11	123	-
*78	ALMATTI	519.60	507.96	3.105	0.256	27-06-2019	8	10	15	@	290
*79	GERUSOPPA	55.00	51.41	0.130	0.109	27-06-2019	84	83	78	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	98.80	0.507	0.176	27-06-2019	35	74	34	62	-
*81	IDAMALAYAR	169.00	124.30	1.018	0.079	27-06-2019	8	37	22	33	75
*82	IDUKKI	732.43	702.83	1.460	0.204	27-06-2019	14	44	26	-	780
*83	KAKKI	981.46	931.77	0.447	0.037	27-06-2019	8	50	28	23	300
*84	PERIYAR	867.41	859.77	0.173	0.022	27-06-2019	13	56	34	84	140
85	MALAPMUZHA	115.06	101.80	0.224	0.026	27-06-2019	12	43	29	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	265.23	0.792	0.164	27-06-2019	21	49	28	105	8
*87	METTUR(STANLEY)	240.79	217.59	2.647	0.401	27-06-2019	15	24	29	122	360
88	VAIGAI	279.20	267.06	0.172	0.012	27-06-2019	7	30	13	61	6
89	PARAMBIKULAM	556.26	538.64	0.380	0.058	27-06-2019	15	26	27	101	-
90	ALIYAR	320.04	300.12	0.095	0.000	27-06-2019	0	17	36	#	60
*91	SHOLAYAR	1002.79	960.88	0.143	0.000	27-06-2019	0	85	41	-	95
TOTAL FOR 91 RESERVOIRS				161.993	26.272						
PERCENTAGE							16	18	19		

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.