

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 07.06.2018)

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 **07.06.2018**, live storage available in these reservoirs is **26.742 BCM**, which is **17%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **32.178 BCM** and the average of last 10 years live storage was **30.015 BCM**. Thus, the live storage available in 91 reservoirs **as per 07.06.2018 Bulletin** is **83%** of the live storage of corresponding period of last year and **89%** 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 **07.06.2018**, the total live storage available in these reservoirs is **2.57 BCM** which is **14%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **26%** 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 **07.06.2018**, the total live storage available in these reservoirs is **4.02 BCM** which is **21%** 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 **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 **07.06.2018**, the total live storage available in these reservoirs is **4.39 BCM** which is **14%** 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 **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 **07.06.2018**, the total live storage available in these reservoirs is **9.42 BCM** which is **22%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **31%** and average storage of last ten years during corresponding period was **19%** 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 **07.06.2018**, the total live storage available in these reservoirs is **6.34 BCM** which is **12%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **7%** 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 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 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 **38**. The numbers of reservoirs having storage less than 20% with respect to last year is **7** 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 **18** and having storage less than or equal to 50% with reference to average of last ten years are **24**.

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 07.06.2018

- 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 **07.06.2018** is **26.742** BCM (**17** percent of the live storage capacity at FRL).The current year's storage is nearly **83** percent of last year's storage and **89** 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.	-66 %	
									PUNJAB	-42 %	
									RAJASTHAN	10 %	
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	-	-	-	1	-	-	2	12	JHARKHAND	-6 %	
									ODISHA	10 %	
									W. BENGAL	148 %	
									TRIPURA	218 %	
WEST (Guj.& Mah.), (27 Resv.)	-	-	-	-	-	-	2	25	GUJARAT	-40 %	
									MAH.	2 %	
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	-	1	2	9	U.P.	-23 %	
									UTTARAKHAND	-60 %	
									M.P.	39 %	
									CHHATISGARH	11 %	
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	1	-	1	-	-	29	AP&TG	-61 %	
									A,P	-47 %	
									TG	-27 %	
									KARNATAKA	8 %	
									KERALA	42 %	
									T.N.	-60 %	
Status of 91 reservoirs	0	0	1	1	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:

- Out of 91 reservoirs, **55** reservoirs reported more than 80% of normal storage & **36** reservoirs reported 80% or below of normal storage. Out of these **36** reservoirs **24** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SARDAR SAROVAR	0	RAMGANGA	36
YELDARI	0	MATATILA	38
ISAPUR	0	PONG DAM	44
ALIYAR	0	BALIMELA	45
BHIMA(UJJANI)	0	TAWA	46
UPPER TAPI	0	UKAI	48
NAGARJUNA SAGAR	8	SHOLAYAR	50
VANIVILAS SAGAR	8		
HARANGI	20		
GOBIND SAGAR(BHAKR	25		
PARAMBIKULAM	28		
TILAIYA	32		
BARNA	32		
BHADRA	32		
METTUR(STANLEY)	34		
TUNGABHADRA	35		
PENCH (TOTALADOH)	35		

12 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
5	3	4

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

26 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 :- 07.06.2018

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	6.071	21.61%	9.740	34.67%	5.806	20.66%	4.56
INDUS	14.730	1.543	10.48%	3.697	25.10%	3.821	25.94%	-59.62
NARMADA	21.608	3.559	16.47%	4.291	19.86%	2.775	12.84%	28.25
TAPI	7.394	0.763	10.32%	2.074	28.05%	1.535	20.76%	-50.29
MAHI	4.012	1.439	35.87%	1.585	39.51%	1.359	33.87%	5.89
SABARMATI	0.735	0.103	14.01%	0.165	22.45%	0.125	17.01%	-17.60
RIVERS OF KUTCH	0.887	0.135	15.22%	0.045	5.07%	0.056	6.31%	141.07
GODAVARI	15.394	1.991	12.93%	2.494	16.20%	2.432	15.80%	-18.13
KRISHNA	32.831	2.654	8.08%	1.050	3.20%	4.263	12.98%	-37.74
MAHANADI & NEIGHBOURING EFRS	13.181	3.701	28.08%	3.867	29.34%	2.940	22.30%	25.88
CAUVERY& NEIGHBOURING EFRS	8.359	1.229	14.70%	0.577	6.90%	2.089	24.99%	-41.17
WEST FLOWING RIVERS OF SOUTH	14.766	3.554	24.07%	2.593	17.56%	2.814	19.06%	26.30
TOTAL	161.993	26.742		32.178		30.015		
PERCENTAGE								-10.90

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 07.06.2018

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	455.26	6.229	0.383	07-06-2018	6	24	24	676	1200
*2	PONG DAM	423.67	391.74	6.157	0.539	06-06-2018	9	13	20	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	499.88	2.344	0.621	06-06-2018	26	59	46	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	269.35	1.711	0.542	31-05-2018	32	33	23	63	140
5	JHAKAM	359.50	346.75	0.132	0.038	31-05-2018	29	28	17	28	-
*6	RANA PRATAP SAGAR	352.81	347.07	1.436	0.449	07-06-2018	31	26	37	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	256.76	0.821	0.303	06-06-2018	37	43	32	-	-
8	MAITHON	146.3	138.74	0.471	0.118	06-06-2018	25	23	26	342	-
*9	PANCHET HILL	124.97	121.05	0.184	0.036	06-06-2018	20	46	38	\$	80
10	KONAR	425.81	415.47	0.176	0.033	06-06-2018	19	18	31	\$	-
11	TILAIYA	368.81	363.87	0.142	0.008	06-06-2018	6	24	18	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	184.51	5.378	1.182	06-06-2018	22	19	16	153	307
*13	BALIMELA	462.08	441.66	2.676	0.197	06-06-2018	7	22	17	-	360
14	SALANADI	82.30	70.80	0.558	0.233	31-05-2018	42	29	24	42	-
*15	RENGALI	123.50	112.84	3.432	0.532	06-06-2018	16	25	10	3	200
*16	MACHKUND(JALPUT)	838.16	826.10	0.893	0.184	06-06-2018	21	14	31	-	115
*17	UPPER KOLAB	858.00	847.36	0.935	0.148	06-06-2018	16	25	16	89	320
*18	UPPER INDRAVATI	642.00	628.33	1.456	0.223	06-06-2018	15	22	16	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	113.84	0.480	0.171	06-06-2018	36	23	18	227	-
20	KANGSABATI	134.14	127.86	0.914	0.422	06-06-2018	46	25	17	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	91.80	0.312	0.232	05-06-2018	74	61	23	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	87.81	6.615	0.697	07-06-2018	11	29	22	348	300
23	SABARMATI(DHAROI)	189.59	180.24	0.735	0.103	31-05-2018	14	22	17	95	1
*24	KADANA	127.7	121.18	1.472	0.612	31-05-2018	42	53	47	200	120
25	SHETRUNJI	55.53	49.42	0.300	0.042	31-05-2018	14	14	9	36	-
26	BHADAR	107.89	101.96	0.188	0.027	31-05-2018	14	1	13	27	-
27	DAMANAGANGA	79.86	68.75	0.502	0.100	07-06-2018	20	11	11	51	1
28	DANTIWADA	184.1	171.50	0.399	0.066	31-05-2018	17	1	1	45	-
29	PANAM	127.41	121.75	0.697	0.247	31-05-2018	35	30	38	36	2
*30	SARDAR SAROVAR	138.68	106.39	5.760	0.000	07-06-2018	0	19	12	2120	1450
31	KARJAN	115.25	100.81	0.523	0.192	07-06-2018	37	24	31	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 07.06.2018

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	458.72	2.171	0.581	30-05-2018	27	19	11	227	-
*33	KOYANA	657.90	631.62	2.652	0.642	06-06-2018	24	8	22	-	1920
34	BHIMA(UJJANI)	496.83	489.60	1.517	0.000	07-06-2018	0	0	2	125	12
35	ISAPUR	441.00	423.29	0.965	0.000	04-06-2018	0	4	20	104	-
36	MULA	552.30	535.16	0.609	0.021	06-06-2018	3	2	6	139	-
37	YELDARI	461.77	447.17	0.809	0.000	05-06-2018	0	0	9	78	-
38	GIRNA	398.07	385.15	0.524	0.066	06-06-2018	13	25	9	79	-
39	KHADAKVASLA	582.47	580.06	0.056	0.026	06-06-2018	46	43	32	78	8
*40	UPPER VAITARNA	603.50	594.82	0.331	0.088	06-06-2018	27	27	29	-	61
41	UPPER TAPI	214.00	207.68	0.255	0.000	06-06-2018	0	7	16	45	-
*42	PENCH (TOTALADOH)	490.00	468.92	1.091	0.074	05-06-2018	7	5	19	127	160
43	UPPER WARDHA	342.50	337.31	0.564	0.195	06-06-2018	35	36	29	70	-
44	BHATSA	142.07	111.87	0.942	0.319	06-06-2018	34	36	31	29.378	15
45	DHOM	747.70	731.51	0.331	0.054	06-06-2018	16	14	19	36.2	2
46	DUDHGANGA	646.00	624.18	0.664	0.138	06-06-2018	21	15	20	2.441	24
47	MANIKDOH (KUKADI)	711.25	686.83	0.288	0.015	06-06-2018	5	3	2	2.2	6
48	BHANDARDARA	744.91	725.23	0.304	0.082	06-06-2018	27	13	11	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	301.26	0.707	0.070	06-06-2018	10	9	26	-	30
*50	RIHAND	268.22	255.27	5.649	0.634	06-06-2018	11	29	13	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	325.09	2.196	0.197	07-06-2018	9	0	25	1897	198
*52	TEHRI	830.00	743.45	2.615	0.057	07-06-2018	2	1	3	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	386.99	6.827	1.147	06-06-2018	17	56	18	220	115
54	TAWA	355.40	338.15	1.944	0.173	07-06-2018	9	22	19	247	-
*55	BARGI	422.76	415.05	3.180	1.360	07-06-2018	43	24	16	157	90
*56	BANSAGAR	341.64	333.93	5.166	2.194	06-06-2018	42	52	32	488	425
*57	INDIRA SAGAR	262.13	249.08	9.745	1.812	06-06-2018	19	18	10	2380	1000
58	BARNA	348.55	339.06	0.456	0.022	06-06-2018	5	28	15	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	350.78	3.046	1.548	06-06-2018	51	58	46	-	120
60	MAHANADI	348.70	341.09	0.767	0.206	07-06-2018	27	12	22	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	243.75	8.288	0.720	31-05-2018	9	5	11	0	770
*62	NAGARJUNA SAGAR	179.83	156.06	6.841	0.097	31-05-2018	1	0	17	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	84.97	1.994	0.348	31-05-2018	17	11	33	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	320.19	2.300	0.184	07-06-2018	8	11	11	411	27
65	LOWER MANAIR	280.42	268.88	0.621	0.102	07-06-2018	16	34	23	199	60

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GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 07.06.2018

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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
KARNATAKA											
66	KRISHNARAJA SAGRA	752.50	737.84	1.163	0.142	06-06-2018	12	5	10	79	-
*67	TUNGABHADRA	497.74	481.80	3.276	0.126	07-06-2018	4	1	11	529	72
68	GHATAPRABHA	662.95	636.42	1.391	0.120	06-06-2018	9	3	3	317	-
69	BHADRA	657.76	635.48	1.785	0.117	06-06-2018	7	0	20	106	39
70	LINGANAMAKKI	554.43	534.04	4.294	0.568	05-06-2018	13	9	14	-	55
71	NARAYANPUR	492.25	487.76	0.863	0.267	31-05-2018	31	14	28	425	-
72	MALAPRABHA(RENUKA)	633.83	621.29	0.972	0.049	06-06-2018	5	2	5	215	-
73	KABINI(Sancherla Tank)	696.16	688.49	0.444	0.086	06-06-2018	19	0	7	85	-
74	HEMAVATHY	890.63	874.73	0.927	0.142	06-06-2018	15	4	8	265	-
75	HARANGI	871.42	849.47	0.220	0.007	06-06-2018	3	16	16	53	-
76	SUPA	564.00	534.05	4.120	1.348	05-06-2018	33	27	20	-	-
77	VANIVILAS SAGAR	652.28	631.58	0.802	0.008	07-06-2018	1	2	12	123	-
*78	ALMATTI	519.60	508.14	3.105	0.275	30-05-2018	9	0	6	@	290
*79	GERUSOPPA	55.00	51.08	0.130	0.108	07-06-2018	83	78	83	83	240
KERALA											
80	KALLADA(PARAPPAR)	115.82	107.36	0.507	0.310	06-06-2018	61	13	21	62	-
*81	IDAMALAYAR	169.00	128.62	1.018	0.129	06-06-2018	13	17	15	33	75
*82	IDUKKI	732.43	707.95	1.460	0.361	06-06-2018	25	11	17	-	780
*83	KAKKI	981.46	950.55	0.447	0.114	06-06-2018	26	14	21	23	300
*84	PERIYAR	867.41	860.90	0.173	0.040	06-06-2018	23	3	27	84	140
85	MALAPMUZHA	115.06	103.05	0.224	0.035	07-06-2018	16	8	20	21	3
TAMIL NADU											
86	LOWER BHAWANI	278.89	265.02	0.792	0.159	06-06-2018	20	9	26	105	8
*87	METTUR(STANLEY)	240.79	216.05	2.647	0.325	06-06-2018	12	6	36	122	360
88	VAIGAI	279.20	268.68	0.172	0.020	06-06-2018	12	4	21	61	6
89	PARAMBIKULAM	556.26	536.61	0.380	0.029	06-06-2018	8	6	27	101	-
90	ALIYAR	320.04	300.66	0.095	0.000	06-06-2018	0	20	43	#	60
*91	SHOLAYAR	1002.79	967.69	0.143	0.005	06-06-2018	3	0	7	-	95
TOTAL FOR 91 RESERVOIRS				161.993	26.742						
PERCENTAGE							17	20	19		

* 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