

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 21.06.2018)

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 **21.06.2018**, live storage available in these reservoirs is **29.668 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 **29.419 BCM** and the average of last 10 years live storage was **30.038 BCM**. Thus, the live storage available in 91 reservoirs **as per 21.06.2018 Bulletin** is **101%** of the live storage of corresponding period of last year and **99%** of storage of average of last ten years.

The overall storage position is **better than the** corresponding period of last year in the country as a whole but is **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 **21.06.2018**, the total live storage available in these reservoirs is **2.83 BCM** which is **16%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **25%** 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 **21.06.2018**, the total live storage available in these reservoirs is **3.47 BCM** which is **18%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **16%** 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 **21.06.2018**, the total live storage available in these reservoirs is **3.95 BCM** which is **13%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **18%** 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 **21.06.2018**, the total live storage available in these reservoirs is **8.99 BCM** which is **21%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **29%** 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 (2 combined 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 **21.06.2018**, the total live storage available in these reservoirs is **10.43 BCM** which is **20%** 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 and is also better 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 Mahi, Narmada, Mahanadi & Neighbouring East Flowing Rivers, Rivers of Kutch, West Flowing Rivers of South and Cauvery & neighbouring EFRs. Close to Normal in Ganga and Sabarmati. Deficient in Indus, Tapi, Godavari 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 **53** 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 **17** and having storage less than or equal to 50% with reference to average of last ten years are **20**.

States having better storage (in %) than last year for corresponding period: Jharkhand, West Bengal, Tripura, Maharashtra, Uttarakhand, AP&TG (Two combined projects in both states), Andhra Pradesh Karnataka, Kerala and Tamil Nadu.

States having equal storage (in %) to last year for corresponding period: Rajasthan and Odisha.

States having lesser storage (in %) than last year for corresponding period: Himachal Pradesh, Punjab, Gujarat, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, and Telangana.

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 21.06.2018

- 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 **21.06.2018** is **29.668** BCM (**18** percent of the live storage capacity at FRL).The current year's storage is nearly **101** percent of last year's storage and **99** 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.)	-	-	-	-	-	-	-	6	H.P.	-65 %
									PUNJAB	-30 %
									RAJASTHAN	5 %
EAST (Jharkhand, Odisha, Tripura & W. Bengal (15 Resv.)	1	-	-	-	1	-	2	11	JHARKHAND	-14 %
									ODISHA	4 %
									W. BENGAL	85 %
									TRIPURA	295 %
WEST (Guj.& Mah.), (27 Resv.)	-	-	-	-	-	-	-	27	GUJARAT	-42 %
									MAH.	-5 %
CENTRAL (MP, UP, Uttarakhand & Chh.), (12 Resv)	-	-	-	-	-	1	1	10	U.P.	-13 %
									UTTARAKHAND	-73 %
									M.P.	37 %
									CHHATISGARH	7 %
SOUTH (Karnataka, TN, AP&TG, AP, TG, & Kerala), (31 Resv.)	-	1	-	2	1	3	4	20	AP&TG	-62 %
									A,P	-39 %
									TG	1 %
									KARNATAKA	66 %
									KERALA	111 %
									T.N.	-16 %
Status of 91 reservoirs	1	1	0	2	2	4	7	74		

4 Basin wise storage position:

- Better than normal:** Mahi, Narmada, Mahanadi & Neighbouring EFRS, Rivers of Kutch, West Flowing Rivers of South and Cauvery & neighbouring EFRS.
- Close to normal:** Ganga and Sabarmati.
- Deficient:** Indus, Tapi, Godavari and Krishna
- Highly deficient:**

- 5 Out of 91 reservoirs, **59** reservoirs reported more than 80% of normal storage & **32** reservoirs reported 80% or below of normal storage. Out of these **32** reservoirs **20** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SARDAR SAROVAR	0	BALIMELA	43
YELDARI	0	UKAI	44
ISAPUR	0	TAWA	47
BHIMA(UJJANI)	0		
UPPER TAPI	0		
TEHRI	4		
NAGARJUNA SAGAR	6		
VANIVILAS SAGAR	7		
BARNA	28		
MULA	31		
PENCH (TOTALADOH)	33		
GOBIND SAGAR(BHAKR)	34		
RAMGANGA	34		
MATATILA	35		
TILAIYA	36		
ALIYAR	37		
PONG DAM	37		

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

- 6 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 :- 21.06.2018

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	6.002	21.36%	9.155	32.58%	6.041	21.50%	-0.65
INDUS	14.730	1.844	12.52%	3.538	24.02%	4.152	28.19%	-55.59
NARMADA	21.608	3.246	15.02%	3.603	16.67%	2.307	10.68%	40.70
TAPI	7.394	0.643	8.70%	2.010	27.18%	1.457	19.71%	-55.87
MAHI	4.012	1.368	34.10%	1.562	38.93%	1.325	33.03%	3.25
SABARMATI	0.735	0.092	12.52%	0.138	18.78%	0.111	15.10%	-17.12
RIVERS OF KUTCH	0.887	0.122	13.75%	0.041	4.62%	0.053	5.98%	130.19
GODAVARI	15.394	1.810	11.76%	2.281	14.82%	2.307	14.99%	-21.54
KRISHNA	32.831	3.678	11.20%	1.097	3.34%	4.771	14.53%	-22.91
MAHANADI & NEIGHBOURING EFRS	13.181	3.230	24.50%	2.805	21.28%	2.558	19.41%	26.27
CAUVERY & NEIGHBOURING EFRS	8.359	2.877	34.42%	0.595	7.12%	2.057	24.61%	39.86
WEST FLOWING RIVERS OF SOUTH	14.766	4.756	32.21%	2.594	17.57%	2.899	19.63%	64.06
TOTAL	161.993	29.668		29.419		30.038		
PERCENTAGE								-1.23

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA
GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 21.06.2018

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
<u>NORTHERN REGION</u>											
<u>HIMACHAL PRADESH</u>											
*1	GOBIND SAGAR(BHAKRA)	512.06	459.77	6.229	0.590	21-06-2018	9	26	28	676	1200
*2	PONG DAM	423.67	391.16	6.157	0.486	21-06-2018	8	10	21	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	502.84	2.344	0.768	21-06-2018	33	56	47	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	269.10	1.711	0.525	20-06-2018	31	32	23	63	140
5	JHAKAM	359.50	346.50	0.132	0.037	20-06-2018	28	27	16	28	-
*6	RANA PRATAP SAGAR	352.81	346.90	1.436	0.425	21-06-2018	30	27	37	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	254.36	0.821	0.238	21-06-2018	29	33	35	-	-
8	MAITHON	146.3	138.79	0.471	0.119	21-06-2018	25	17	27	342	-
*9	PANCHET HILL	124.97	123.40	0.184	0.113	21-06-2018	61	33	51	\$	80
10	KONAR	425.81	415.05	0.176	0.030	21-06-2018	17	18	31	\$	-
11	TILAIYA	368.81	364.01	0.142	0.010	21-06-2018	7	24	20	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	183.81	5.378	0.972	21-06-2018	18	12	11	153	307
*13	BALIMELA	462.08	441.59	2.676	0.192	21-06-2018	7	16	17	-	360
14	SALANADI	82.30	71.13	0.558	0.240	21-06-2018	43	29	26	42	-
*15	RENGALI	123.50	111.43	3.432	0.273	21-06-2018	8	6	6	3	200
*16	MACHKUND(JALPUT)	838.16	824.88	0.893	0.146	21-06-2018	16	16	29	-	115
*17	UPPER KOLAB	858.00	846.28	0.935	0.095	21-06-2018	10	22	13	89	320
*18	UPPER INDRAVATI	642.00	627.12	1.456	0.142	21-06-2018	10	19	16	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	113.54	0.480	0.162	21-06-2018	34	25	21	227	-
20	KANGSABATI	134.14	127.86	0.914	0.422	21-06-2018	46	26	23	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	93.75	0.312	0.312	19-06-2018	100	69	25	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	87.12	6.615	0.593	21-06-2018	9	28	21	348	300
23	SABARMATI(DHAROI)	189.59	179.93	0.735	0.092	20-06-2018	13	19	15	95	1
*24	KADANA	127.7	120.55	1.472	0.567	20-06-2018	39	52	44	200	120
25	SHETRUNJI	55.53	49.07	0.300	0.036	20-06-2018	12	13	9	36	-
26	BHADAR	107.89	101.56	0.188	0.022	20-06-2018	12	0	11	27	-
27	DAMANAGANGA	79.86	67.30	0.502	0.071	21-06-2018	14	12	11	51	1
28	DANTIWADA	184.1	171.33	0.399	0.064	20-06-2018	16	1	2	45	-
29	PANAM	127.41	121.50	0.697	0.239	20-06-2018	34	30	37	36	2
*30	SARDAR SAROVAR	138.68	106.20	5.760	0.000	21-06-2018	0	16	10	2120	1450
31	KARJAN	115.25	99.42	0.523	0.170	21-06-2018	33	24	29	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

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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
MAHARASHTRA											
32	JAYAKWADI(PAITHON)	463.91	458.32	2.171	0.499	15-06-2018	23	19	9	227	-
*33	KOYANA	657.90	630.71	2.652	0.599	20-06-2018	23	6	23	-	1920
34	BHIMA(UJJANI)	496.83	489.46	1.517	0.000	18-06-2018	0	0	3	125	12
35	ISAPUR	441.00	424.98	0.965	0.000	20-06-2018	0	3	20	104	-
36	MULA	552.30	534.42	0.609	0.008	20-06-2018	1	2	4	139	-
37	YELDARI	461.77	447.26	0.809	0.000	20-06-2018	0	3	8	78	-
38	GIRNA	398.07	384.44	0.524	0.050	20-06-2018	10	26	8	79	-
39	KHADAKVASLA	582.47	578.21	0.056	0.008	20-06-2018	14	13	20	78	8
*40	UPPER VAITARNA	603.50	594.83	0.331	0.088	20-06-2018	27	21	25	-	61
41	UPPER TAPI	214.00	207.60	0.255	0.000	20-06-2018	0	10	22	45	-
*42	PENCH (TOTALADOH)	490.00	468.19	1.091	0.061	20-06-2018	6	4	17	127	160
43	UPPER WARDHA	342.50	337.25	0.564	0.192	21-06-2018	34	34	29	70	-
44	BHATSA	142.07	109.95	0.942	0.291	20-06-2018	31	33	29	29.378	15
45	DHOM	747.70	731.31	0.331	0.051	20-06-2018	15	10	20	36.2	2
46	DUDHGANGA	646.00	624.73	0.664	0.146	20-06-2018	22	14	21	2.441	24
47	MANIKDOH (KUKADI)	711.25	686.72	0.288	0.014	19-06-2018	5	3	3	2.2	6
48	BHANDARDARA	744.91	725.62	0.304	0.085	20-06-2018	28	13	9	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	301.08	0.707	0.062	20-06-2018	9	8	25	-	30
*50	RIHAND	268.22	255.21	5.649	0.634	20-06-2018	11	24	11	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	324.36	2.196	0.176	21-06-2018	8	0	24	1897	198
*52	TEHRI	830.00	740.75	2.615	0.006	21-06-2018	0	2	6	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	386.89	6.827	1.122	21-06-2018	16	54	22	220	115
54	TAWA	355.40	338.30	1.944	0.181	21-06-2018	9	22	20	247	-
*55	BARGI	422.76	414.55	3.180	1.278	21-06-2018	40	21	13	157	90
*56	BANSAGAR	341.64	333.85	5.166	2.171	21-06-2018	42	49	31	488	425
*57	INDIRA SAGAR	262.13	248.55	9.745	1.598	21-06-2018	16	13	7	2380	1000
58	BARNA	348.55	338.92	0.456	0.019	21-06-2018	4	27	15	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	350.71	3.046	1.539	21-06-2018	51	57	48	-	120
60	MAHANADI	348.70	341.09	0.767	0.206	20-06-2018	27	12	23	319	10
SOUTHERN REGION											
A.P & TG											
*61	SRISAILAM	269.75	243.84	8.288	0.724	21-06-2018	9	6	10	0	770
*62	NAGARJUNA SAGAR	179.83	155.87	6.841	0.068	21-06-2018	1	0	18	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	84.73	1.994	0.336	21-06-2018	17	11	28	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	321.96	2.300	0.290	21-06-2018	13	11	11	411	27
65	LOWER MANAIR	280.42	268.79	0.621	0.100	21-06-2018	16	34	23	199	60

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GOVERNMENT OF INDIA

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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	746.05	1.163	0.606	20-06-2018	52	5	11	79	-
*67	TUNGABHADRA	497.74	488.90	3.276	0.710	21-06-2018	22	1	15	529	72
68	GHATAPRABHA	662.95	637.23	1.391	0.139	21-06-2018	10	3	6	317	-
69	BHADRA	657.76	643.25	1.785	0.490	21-06-2018	27	5	24	106	39
70	LINGANAMAKKI	554.43	538.17	4.294	0.965	21-06-2018	22	11	14	-	55
71	NARAYANPUR	492.25	488.99	0.863	0.376	21-06-2018	44	16	33	425	-
72	MALAPRABHA(RENUKA)	633.83	621.69	0.972	0.061	21-06-2018	6	1	6	215	-
73	KABINI(Sancherla Tank)	696.16	695.66	0.444	0.414	21-06-2018	93	2	13	85	-
74	HEMAVATHY	890.63	884.03	0.927	0.526	21-06-2018	57	6	13	265	-
75	HARANGI	871.42	863.35	0.220	0.086	21-06-2018	39	23	23	53	-
76	SUPA	564.00	534.30	4.120	1.363	21-06-2018	33	27	20	-	-
77	VANIVILAS SAGAR	652.28	631.49	0.802	0.007	21-06-2018	1	2	12	123	-
*78	ALMATTI	519.60	508.24	3.105	0.285	21-06-2018	9	0	11	@	290
*79	GERUSOPPA	55.00	47.73	0.130	0.091	21-06-2018	70	75	76	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	110.00	0.507	0.363	21-06-2018	72	16	26	62	-
*81	IDAMALAYAR	169.00	140.64	1.018	0.321	21-06-2018	32	15	17	33	75
*82	IDUKKI	732.43	714.51	1.460	0.598	21-06-2018	41	10	20	-	780
*83	KAKKI	981.46	963.66	0.447	0.214	21-06-2018	48	12	23	23	300
*84	PERIYAR	867.41	864.31	0.173	0.101	21-06-2018	58	4	31	84	140
85	MALAPMUZHA	115.06	107.90	0.224	0.089	21-06-2018	40	9	25	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	270.96	0.792	0.360	21-06-2018	45	9	28	105	8
*87	METTUR(STANLEY)	240.79	219.56	2.647	0.510	21-06-2018	19	5	34	122	360
88	VAIGAI	279.20	271.23	0.172	0.039	21-06-2018	23	2	17	61	6
89	PARAMBIKULAM	556.26	540.12	0.380	0.081	21-06-2018	21	6	27	101	-
90	ALIYAR	320.04	305.01	0.095	0.014	21-06-2018	15	14	40	#	60
*91	SHOLAYAR	1002.79	998.30	0.143	0.106	21-06-2018	74	1	21	-	95
TOTAL FOR 91 RESERVOIRS				161.993	29.668						
PERCENTAGE							18	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.