

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 12.07.2018)

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 **12.07.2018**, live storage available in these reservoirs is **38.157 BCM**, which is **24%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **35.811 BCM** and the average of last 10 years live storage was **38.504 BCM**. Thus, the live storage available in 91 reservoirs **as per 12.07.2018 Bulletin** is **107%** of the live storage of corresponding period of last year and **99%** of storage of average of last ten years.

As per Table-01, 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 **12.07.2018**, the total live storage available in these reservoirs is **3.07 BCM** which is **17%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **33%** and average storage of last ten years during corresponding period was **35%** 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 **12.07.2018**, the total live storage available in these reservoirs is **3.22 BCM** which is **17%** 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 **19%** 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 **12.07.2018**, the total live storage available in these reservoirs is **5.56 BCM** which is **18%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **23%** and average storage of last ten years during corresponding period was **21%** 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 **12.07.2018**, the total live storage available in these reservoirs is **9.65 BCM** which is **23%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **28%** and average storage of last ten years during corresponding period was **24%** 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.

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 **12.07.2018**, the total live storage available in these reservoirs is **16.66 BCM** which is **32%** 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 **24%** 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 8, better than normal storage is available in Mahi, Sabarmati, Narmada, Krishna, Rivers of Kutch , West Flowing Rivers of South and Cauvery & neighbouring EFRs. Close to Normal in Ganga, Godavari and Mahanadi & Neighbouring East Flowing Rivers and Deficient in Tapi and Highly Deficient in Indus Basin.
- Table on page 9-11 of the bulletin. The numbers of reservoirs having storage more than last year are **52** and reservoirs having storage more than average of last ten years are **50**. The numbers of reservoirs having storage less than 20% with respect to last year is **3** and having storage less than 20% with reference to average of last ten years is **6**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **13** and having storage less than or equal to 50% with reference to average of last ten years are **16**.

States having better storage (in %) than last year for corresponding period: Rajasthan, West Bengal, Tripura, Maharashtra, 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: Uttarakhand

States having lesser storage (in %) than last year for corresponding period: Himachal Pradesh, Punjab, Jharkhand, Odisha, 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 12.07.2018

- 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 **12.07.2018** is **38.157** BCM (**24** percent of the live storage capacity at FRL).The current year's storage is nearly **107** percent of last year's storage and **99** 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. PUNJAB RAJASTHAN	-76 % -21 % 17 %
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.))	1	-	-	-	-	1	2	11	JHARKHAND ODISHA W. BENGAL TRIPURA	-19 % -24 % 20 % 150 %
WEST (Guj.& Mah.), (27 Resv.)	-	-	-	-	-	2	4	21	GUJARAT MAH.	-39 % 13 %
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	-	1	2	9	U.P. UTTARAKHAND M.P. CHHATISGARH	-47 % -58 % 12 % 3 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	3	2	2	1	5	7	11	AP&TG A,P TG KARNATAKA KERALA T.N.	-62 % -31 % -7 % 72 % 84 % 21 %
Status of 91 reservoirs	1	3	2	2	1	9	15	58		

4 Basin wise storage position:

Better than normal: Mahi,Sabarmati, Narmada, Krishna, Rivers of Kutch , West Flowing Rivers of South and Cauvery & neighbouring EFRS .

Close to normal: Ganga,Godavari and Mahanadi & Neighbouring EFRS .

Deficient: Tapi

Highly deficient: Indus

- 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 **16** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SARDAR SAROVAR	0		
YELDARI	0		
BHIMA(UJJANI)	0		
NAGARJUNA SAGAR	4		
VANIVILAS SAGAR	5		
MATATILA	19		
GOBIND SAGAR(BHAKRA)	22		
TILAIYA	22		
PONG DAM	27		
RAMGANGA	32		
MACHKUND(JALPUT)	41		
ISAPUR	41		
UKAI	42		
PENCH (TOTALADOH)	42		
TAWA	44		
BHADAR	47		

16 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
5	4	7

- 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 :- 12.07.2018

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	6.196	22.05%	9.598	34.16%	7.331	26.09%	-15.48
INDUS	14.730	1.902	12.91%	4.917	33.38%	5.289	35.91%	-64.04
NARMADA	21.608	3.714	17.19%	3.018	13.97%	3.486	16.13%	6.54
TAPI	7.394	0.714	9.66%	1.951	26.39%	1.595	21.57%	-55.24
MAHI	4.012	1.591	39.66%	1.526	38.04%	1.270	31.66%	25.28
SABARMATI	0.735	0.120	16.33%	0.140	19.05%	0.120	16.33%	0.00
RIVERS OF KUTCH	0.887	0.117	13.19%	0.055	6.20%	0.105	11.84%	11.43
GODAVARI	15.394	2.074	13.47%	2.660	17.28%	2.582	16.77%	-19.67
KRISHNA	32.831	7.661	23.33%	3.836	11.68%	6.884	20.97%	11.29
MAHANADI & NEIGHBOURING EFRS	13.181	3.000	22.76%	3.080	23.37%	3.078	23.35%	-2.53
CAUVERY & NEIGHBOURING EFRS	8.359	4.051	48.46%	0.981	11.74%	2.630	31.46%	54.03
WEST FLOWING RIVERS OF SOUTH	14.766	7.017	47.52%	4.049	27.42%	4.134	28.00%	69.74
TOTAL	161.993	38.157		35.811		38.504		
PERCENTAGE								-0.90

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 12.07.2018											
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	458.53	6.229	0.530	7/12/2018	9	35	40	676	1200
*2	PONG DAM	423.67	390.84	6.157	0.457	7/12/2018	7	21	27	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	506.09	2.344	0.915	7/12/2018	39	62	49	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	270.85	1.711	0.674	7/11/2018	39	32	22	63	140
5	JHAKAM	359.50	347.80	0.132	0.043	7/11/2018	33	28	14	28	-
*6	RANA PRATAP SAGAR	352.81	347.09	1.436	0.452	7/12/2018	31	37	42	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	255.42	0.821	0.266	7/12/2018	32	41	38	-	-
8	MAITHON	146.3	140.29	0.471	0.169	7/12/2018	36	18	39	342	-
*9	PANCHET HILL	124.97	122.99	0.184	0.097	7/12/2018	53	30	56	\$	80
10	KONAR	425.81	416.26	0.176	0.040	7/12/2018	23	31	40	\$	-
11	TILAIYA	368.81	363.96	0.142	0.010	7/12/2018	7	41	32	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	182.38	5.378	0.574	7/12/2018	11	15	14	153	307
*13	BALIMELA	462.08	442.02	2.676	0.224	7/11/2018	8	22	14	-	360
14	SALANADI	82.30	71.74	0.558	0.254	7/12/2018	46	29	27	42	-
*15	RENGALI	123.50	111.71	3.432	0.324	7/11/2018	9	4	11	3	200
*16	MACHKUND(JALPUT)	838.16	823.75	0.893	0.114	7/11/2018	13	25	31	-	115
*17	UPPER KOLAB	858.00	846.06	0.935	0.084	7/11/2018	9	22	15	89	320
*18	UPPER INDRAVATI	642.00	627.60	1.456	0.174	7/11/2018	12	16	16	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	113.08	0.480	0.149	7/12/2018	31	35	36	227	-
20	KANGSABATI	134.14	127.97	0.914	0.428	7/12/2018	47	30	34	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	94.10	0.312	0.312	7/10/2018	100	76	40	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	87.27	6.615	0.617	7/12/2018	9	27	22	348	300
23	SABARMATI(DHAROI)	189.59	180.72	0.735	0.120	7/11/2018	16	19	16	95	1
*24	KADANA	127.7	121.31	1.472	0.621	7/11/2018	42	49	41	200	120
25	SHETRUNJI	55.53	49.12	0.300	0.037	7/11/2018	12	12	21	36	-
26	BHADAR	107.89	101.11	0.188	0.017	7/11/2018	9	0	19	27	-
27	DAMANAGANGA	79.86	71.45	0.502	0.166	7/12/2018	33	35	22	51	1
28	DANTIWADA	184.1	171.25	0.399	0.063	7/11/2018	16	5	2	45	-
29	PANAM	127.41	121.90	0.697	0.253	7/11/2018	36	31	39	36	2
*30	SARDAR SAROVAR	138.68	109.75	5.760	0.000	7/12/2018	0	12	9	2120	1450
31	KARJAN	115.25	100.50	0.523	0.187	7/12/2018	36	45	32	51	3

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

WEEK ENDING :- 12.07.2018											
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	457.92	2.171	0.419	7/11/2018	19	17	8	227	-
*33	KOYANA	657.90	642.21	2.652	1.266	7/11/2018	48	35	37	-	1920
34	BHIMA(UJJANI)	496.83	489.03	1.517	0.000	7/12/2018	0	0	4	125	12
35	ISAPUR	441.00	428.20	0.965	0.098	7/11/2018	10	5	25	104	-
36	MULA	552.30	535.99	0.609	0.064	7/11/2018	11	14	10	139	-
37	YELDARI	461.77	447.44	0.809	0.000	7/12/2018	0	3	9	78	-
38	GIRNA	398.07	384.50	0.524	0.051	7/11/2018	10	26	8	79	-
39	KHADAKVASLA	582.47	580.46	0.056	0.030	7/11/2018	54	29	38	78	8
*40	UPPER VAITARNA	603.50	597.38	0.331	0.149	7/11/2018	45	44	33	-	61
41	UPPER TAPI	214.00	209.45	0.255	0.046	7/11/2018	18	6	28	45	-
*42	PENCH (TOTALADOH)	490.00	470.47	1.091	0.105	7/11/2018	10	5	23	127	160
43	UPPER WARDHA	342.50	337.80	0.564	0.222	7/12/2018	39	35	37	70	-
44	BHATSA	142.07	120.00	0.942	0.448	7/11/2018	48	55	39	29.378	15
45	DHOM	747.70	734.58	0.331	0.090	7/11/2018	27	19	26	36.2	2
46	DUDHGANGA	646.00	634.49	0.664	0.338	7/11/2018	51	38	37	2.441	24
47	MANIKDOH (KUKADI)	711.25	690.43	0.288	0.035	7/11/2018	12	18	9	2.2	6
48	BHANDARDARA	744.91	730.58	0.304	0.122	7/11/2018	40	44	27	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	301.02	0.707	0.059	7/11/2018	8	8	43	-	30
*50	RIHAND	268.22	254.81	5.649	0.503	7/12/2018	9	23	14	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	324.65	2.196	0.185	7/12/2018	8	0	27	1897	198
*52	TEHRI	830.00	753.15	2.615	0.251	7/10/2018	10	17	17	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	386.84	6.827	1.110	7/12/2018	16	52	23	220	115
54	TAWA	355.40	340.98	1.944	0.317	7/12/2018	16	27	37	247	-
*55	BARGI	422.76	414.80	3.180	1.318	7/12/2018	41	20	23	157	90
*56	BANSAGAR	341.64	333.83	5.166	2.165	7/12/2018	42	48	34	488	425
*57	INDIRA SAGAR	262.13	249.12	9.745	1.828	7/12/2018	19	8	12	2380	1000
58	BARNA	348.55	340.67	0.456	0.064	7/12/2018	14	27	28	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	351.56	3.046	1.648	7/12/2018	54	60	52	-	120
60	MAHANADI	348.70	340.96	0.767	0.200	7/11/2018	26	20	27	319	10
SOUTHERN REGION											
A.P & TG											
*61	SRISAILAM	269.75	243.90	8.288	0.727	7/12/2018	9	6	11	0	770
*62	NAGARJUNA SAGAR	179.83	155.75	6.841	0.048	7/12/2018	1	0	17	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	84.48	1.994	0.322	7/12/2018	16	11	23	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	322.72	2.300	0.349	7/12/2018	15	12	15	411	27
65	LOWER MANAIR	280.42	268.76	0.621	0.099	7/12/2018	16	34	22	199	60

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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
<u>KARNATAKA</u>											
66	KRISHNARAJA SAGRA	752.50	749.57	1.163	0.931	7/11/2018	80	14	31	79	-
*67	TUNGABHADRA	497.74	493.33	3.276	1.539	7/12/2018	47	12	28	529	72
68	GHATAPRABHA	662.95	647.50	1.391	0.484	7/12/2018	35	22	21	317	-
69	BHADRA	657.76	650.47	1.785	1.030	7/12/2018	58	16	39	106	39
70	LINGANAMAKKI	554.43	544.34	4.294	1.845	7/12/2018	43	21	25	-	55
71	NARAYANPUR	492.25	488.85	0.863	0.363	7/12/2018	42	15	37	425	-
72	MALAPRABHA(RENUKA)	633.83	623.77	0.972	0.136	7/12/2018	14	6	12	215	-
73	KABINI(Sancherla Tank)	696.16	695.62	0.444	0.411	7/11/2018	93	32	42	85	-
74	HEMAVATHY	890.63	8887.73	0.927	0.772	7/11/2018	83	17	34	265	-
75	HARANGI	871.42	870.95	0.220	0.214	7/11/2018	97	40	56	53	-
76	SUPA	564.00	541.45	4.120	1.867	7/12/2018	45	33	24	-	-
77	VANIVILAS SAGAR	652.28	631.35	0.802	0.005	7/12/2018	1	2	11	123	-
*78	ALMATTI	519.60	515.48	3.105	1.570	7/12/2018	51	28	32	@	290
*79	GERUSOPPA	55.00	51.86	0.130	0.112	7/11/2018	86	65	77	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	110.45	0.507	0.371	7/11/2018	73	27	35	62	-
*81	IDAMALAYAR	169.00	149.73	1.018	0.509	7/11/2018	50	22	27	33	75
*82	IDUKKI	732.43	718.85	1.460	0.773	7/11/2018	53	20	28	-	780
*83	KAKKI	981.46	966.71	0.447	0.242	7/11/2018	54	22	33	23	300
*84	PERIYAR	867.41	863.21	0.173	0.080	7/11/2018	46	12	37	84	140
85	MALAPMUZHA	115.06	110.95	0.224	0.137	7/12/2018	61	16	34	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	273.18	0.792	0.463	7/11/2018	58	10	35	105	8
*87	METTUR(STANLEY)	240.79	225.08	2.647	0.888	7/11/2018	34	5	33	122	360
88	VAIGAI	279.20	272.26	0.172	0.050	7/11/2018	29	5	18	61	6
89	PARAMBIKULAM	556.26	544.56	0.380	0.154	7/11/2018	41	13	38	101	-
90	ALIYAR	320.04	308.24	0.095	0.028	7/11/2018	29	11	41	#	60
*91	SHOLAYAR	1002.79	1004.18	0.143	0.136	7/11/2018	95	15	45	-	95
TOTAL FOR 91 RESERVOIRS				161.993	38.157						
PERCENTAGE							24	22	24		

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.