

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 11.01.2018)

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 **11.01.2018**, live storage available in these reservoirs is **80.484 BCM**, which is **50%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **86.258 BCM** and the average of last 10 years live storage was **86.606 BCM**. Thus, the live storage available in 91 reservoirs **as per 11.01.2018 Bulletin** is **93%** of the live storage of corresponding period of last year and **93%** 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 **11.01.2018**, the total live storage available in these reservoirs is **8.90 BCM** which is **49%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **43%** and average storage of last ten years during corresponding period was **50%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the corresponding period of last year and is 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 **11.01.2018**, the total live storage available in these reservoirs is **13.37 BCM** which is **71%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **76%** and average storage of last ten years during corresponding period was **64%** 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 **11.01.2018**, the total live storage available in these reservoirs is **15.97 BCM** which is **51%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **58%** and average storage of last ten years during corresponding period was **54%** 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 **11.01.2018**, the total live storage available in these reservoirs is 19.96 **BCM** which is **47%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **70%** and average storage of last ten years during corresponding period was **53%** 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 **11.01.2018**, the total live storage available in these reservoirs is **22.28 BCM** which is **43%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **32%** and average storage of last ten years during corresponding period was **51%** 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, Mahanadi & Neighbouring East Flowing Rivers and Rivers of Kutch. Close to Normal in Indus, Sabarmati, Godavari, Krishna, and West Flowing Rivers of South. Deficient in Narmada, Tapi and Cauvery & neighbouring EFRs 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 **51** and reservoirs having storage more than average of last ten years are **43**. The numbers of reservoirs having storage less than 20% with respect to last year is **2** and having storage less than 20% with reference to average of last ten years is **4**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **6** and having storage less than or equal to 50% with reference to average of last ten years are **10**.

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 11.01.2018

- 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 11.01.2018 is 80.484 BCM (50 percent of the live storage capacity at FRL).The current year's storage is nearly 93 percent of last year's storage and 93 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	1	1	2	H.P.	2 %	
									PUNJAB	-20 %	
									RAJASTHAN	1 %	
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	2	4	1	1	1	2	3	1	JHARKHAND	8 %	
									ODISHA	3 %	
									W. BENGAL	121 %	
									TRIPURA	132 %	
WEST (Guj.& Mah.), (27 Resv.)	1	2	5	5	5	1	3	5	GUJARAT	-25 %	
									MAH.	15 %	
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	1	2	3	2	4	U.P.	2 %	
									UTTARAKHAND	-11 %	
									M.P.	-14 %	
									CHHATISGARH	-8 %	
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	2	1	-	6	5	3	14	AP&TG	-23 %	
									A,P	-27 %	
									TG	-2 %	
									KARNATAKA	-10 %	
									KERALA	7 %	
									T.N.	-51 %	
Status of 91 reservoirs	3	8	7	8	15	12	12	26			

4 Basin wise storage position:

Better than normal: Ganga,Mahi, Mahanadi & Neighbouring EFRS,and Rivers of Kutch .

Close to normal: Indus,Sabarmati,Godavari,Krishna and West Flowing Rivers of South .

Deficient: Narmada , Tapi and Cauvery & neighbouring EFRS .

Highly deficient: NIL

- Out of 91 reservoirs, 60 reservoirs reported more than 80% of normal storage & 31 reservoirs reported 80% or below of normal storage. Out of these 31 reservoirs 10 having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0		
VANIVILAS SAGAR	12		
ISAPUR	15		
YELDARI	15		
ALIYAR	21		
PENCH (TOTALADOH)	37		
PARAMBIKULAM	46		
VAIGAI	49		
METTUR(STANLEY)	50		
MATATILA	50		

21 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
7	4	10

- 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 :- 11.01.2018

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	14.670	52.21%	18.988	67.58%	14.002	49.84%	4.77
INDUS	14.730	7.182	48.76%	5.816	39.48%	7.227	49.06%	-0.62
NARMADA	21.608	7.205	33.34%	11.956	55.33%	10.053	46.52%	-28.33
TAPI	7.394	3.060	41.38%	5.702	77.12%	4.763	64.42%	-35.75
MAHI	4.012	2.705	67.42%	2.862	71.34%	2.393	59.65%	13.04
SABARMATI	0.735	0.339	46.12%	0.493	67.07%	0.359	48.84%	-5.57
RIVERS OF KUTCH	0.887	0.501	56.48%	0.201	22.66%	0.342	38.56%	46.49
GODAVARI	15.394	7.967	51.75%	10.427	67.73%	8.437	54.81%	-5.57
KRISHNA	32.831	15.533	47.31%	10.337	31.49%	16.361	49.83%	-5.06
MAHANADI & NEIGHBOURING EFRS	13.181	9.724	73.77%	10.432	79.14%	9.075	68.85%	7.15
CAUVERY & NEIGHBOURING EFRS	8.359	3.033	36.28%	1.802	21.56%	4.317	51.64%	-29.74
WEST FLOWING RIVERS OF SOUTH	14.766	8.565	58.00%	7.242	49.05%	9.277	62.83%	-7.67
TOTAL	161.993	80.484		86.258		86.606		
PERCENTAGE								-7.07

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 11.01.2018

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	496.49	6.229	3.692	11-01-2018	59	40	58	676	1200
*2	PONG DAM	423.67	408.63	6.157	2.771	11-01-2018	45	41	44	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	501.94	2.344	0.719	10-01-2018	31	35	38	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	277.20	1.711	1.271	11-01-2018	74	79	59	63	140
5	JHAKAM	359.50	354.40	0.132	0.086	11-01-2018	65	65	48	28	-
*6	RANA PRATAP SAGAR	352.81	346.60	1.436	0.362	10-01-2018	25	34	44	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	259.77	0.821	0.407	11-01-2018	50	51	45	-	-
8	MAITHON	146.3	148.60	0.471	0.471	11-01-2018	100	100	87	342	-
*9	PANCHET HILL	124.97	127.83	0.184	0.184	11-01-2018	100	100	86	\$	80
10	KONAR	425.81	422.59	0.176	0.121	11-01-2018	69	91	74	\$	-
11	TILAIYA	368.81	366.46	0.142	0.065	11-01-2018	46	92	61	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	190.81	5.378	4.051	10-01-2018	75	81	79	153	307
*13	BALIMELA	462.08	450.25	2.676	0.975	11-01-2018	36	72	56	-	360
14	SALANADI	82.30	71.12	0.558	0.240	11-01-2018	43	34	36	42	-
*15	RENGALI	123.50	122.55	3.432	3.120	11-01-2018	91	90	62	3	200
*16	MACHKUND(JALPUT)	838.16	837.47	0.893	0.831	11-01-2018	93	70	77	-	115
*17	UPPER KOLAB	858.00	853.63	0.935	0.548	11-01-2018	59	83	59	89	320
*18	UPPER INDRAVATI	642.00	635.77	1.456	0.821	11-01-2018	56	77	68	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	120.40	0.480	0.455	11-01-2018	95	45	42	227	-
20	KANGSABATI	134.14	132.45	0.914	0.798	11-01-2018	87	50	40	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	92.90	0.312	0.283	09-01-2018	91	66	39	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	96.43	6.615	2.616	11-01-2018	40	78	66	348	300
23	SABARMATI(DHAROI)	189.59	184.95	0.735	0.339	11-01-2018	46	67	49	95	1
*24	KADANA	127.7	124.74	1.472	0.900	11-01-2018	61	69	61	200	120
25	SHETRUNJI	55.53	53.17	0.300	0.147	11-01-2018	49	53	62	36	-
26	BHADAR	107.89	105.31	0.188	0.095	09-01-2018	51	7	43	27	-
27	DAMANAGANGA	79.86	78.35	0.502	0.409	11-01-2018	81	75	79	51	1
28	DANTIWADA	184.1	180.08	0.399	0.259	11-01-2018	65	7	19	45	-
29	PANAM	127.41	125.80	0.697	0.448	11-01-2018	64	60	59	36	2
*30	SARDAR SAROVAR	138.68	116.18	5.760	0.672	11-01-2018	12	19	22	2120	1450
31	KARJAN	115.25	111.48	0.523	0.410	11-01-2018	78	59	74	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 11.01.2018

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	462.80	2.171	1.763	11-01-2018	81	67	40	227	-
*33	KOYANA	657.90	655.98	2.652	2.423	11-01-2018	91	69	78	-	1920
34	BHIMA(UJJANI)	496.83	496.99	1.517	1.517	11-01-2018	100	74	64	125	12
35	ISAPUR	441.00	427.63	0.965	0.075	11-01-2018	8	40	51	104	-
36	MULA	552.30	550.08	0.609	0.495	10-01-2018	81	78	62	139	-
37	YELDARI	461.77	449.33	0.809	0.044	11-01-2018	5	27	36	78	-
38	GIRNA	398.07	391.95	0.524	0.255	11-01-2018	49	69	38	79	-
39	KHADAKVASLA	582.47	581.35	0.056	0.041	10-01-2018	73	61	57	78	8
*40	UPPER VAITARNA	603.50	602.09	0.331	0.286	11-01-2018	86	86	79	-	61
41	UPPER TAPI	214.00	212.87	0.255	0.189	11-01-2018	74	80	84	45	-
*42	PENCH (TOTALADOH)	490.00	474.20	1.091	0.200	11-01-2018	18	31	49	127	160
43	UPPER WARDHA	342.50	340.40	0.564	0.391	11-01-2018	69	69	64	70	-
44	BHATSA	142.07	133.30	0.942	0.719	11-01-2018	76	76	72	29.378	15
45	DHOM	747.70	743.38	0.331	0.238	11-01-2018	72	66	62	36.2	2
46	DUDHGANGA	646.00	641.99	0.664	0.548	11-01-2018	83	80	78	2.441	24
47	MANIKDOH (KUKADI)	711.25	705.67	0.288	0.196	11-01-2018	68	40	35	2.2	6
48	BHANDARDARA	744.91	744.41	0.304	0.296	11-01-2018	97	92	74	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	303.52	0.707	0.193	10-01-2018	27	46	54	-	30
*50	RIHAND	268.22	260.51	5.649	2.445	11-01-2018	43	62	39	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	349.01	2.196	1.125	11-01-2018	51	43	63	1897	198
*52	TEHRI	830.00	804.35	2.615	1.634	11-01-2018	62	62	65	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	393.07	6.827	3.082	11-01-2018	45	82	45	220	115
54	TAWA	355.40	344.70	1.944	0.622	11-01-2018	32	60	58	247	-
*55	BARGI	422.76	419.75	3.180	2.380	11-01-2018	75	68	65	157	90
*56	BANSAGAR	341.64	336.55	5.166	3.045	11-01-2018	59	82	54	488	425
*57	INDIRA SAGAR	262.13	252.43	9.745	2.984	11-01-2018	31	71	51	2380	1000
58	BARNA	348.55	342.94	0.456	0.137	11-01-2018	30	66	48	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	353.29	3.046	1.884	11-01-2018	62	69	63	-	120
60	MAHANADI	348.70	344.68	0.767	0.429	11-01-2018	56	97	77	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	264.69	8.288	3.725	11-01-2018	45	34	53	0	770
*62	NAGARJUNA SAGAR	179.83	163.10	6.841	1.320	11-01-2018	19	5	31	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	93.10	1.994	1.010	11-01-2018	51	49	70	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	327.81	2.300	1.160	11-01-2018	50	85	51	411	27
65	LOWER MANAIR	280.42	275.81	0.621	0.368	11-01-2018	59	80	64	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 11.01.2018

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>KARNATAKA</u>											
66	KRISHNARAJA SAGRA	752.50	745.84	1.163	0.590	11-01-2018	51	15	66	79	-
*67	TUNGABHADRA	497.74	490.71	3.276	0.994	11-01-2018	30	7	41	529	72
68	GHATAPRABHA	662.95	654.78	1.391	0.843	11-01-2018	61	45	42	317	-
69	BHADRA	657.76	652.49	1.785	1.218	11-01-2018	68	32	80	106	39
70	LINGANAMAKKI	554.43	545.61	4.294	2.076	11-01-2018	48	47	64	-	55
71	NARAYANPUR	492.25	490.78	0.863	0.561	11-01-2018	65	64	79	425	-
72	MALAPRABHA(RENUKA)	633.83	624.92	0.972	0.187	11-01-2018	19	18	33	215	-
73	KABINI(Sancherla Tank)	696.16	693.04	0.444	0.276	11-01-2018	62	21	33	85	-
74	HEMAVATHY	890.63	876.87	0.927	0.201	11-01-2018	22	11	27	265	-
75	HARANGI	871.42	859.35	0.220	0.062	11-01-2018	28	28	13	53	-
76	SUPA	564.00	545.67	4.120	2.203	11-01-2018	53	51	55	-	-
77	VANIVILAS SAGAR	652.28	632.28	0.802	0.017	11-01-2018	2	4	18	123	-
*78	ALMATTI	519.60	515.95	3.105	1.705	11-01-2018	55	36	46	@	290
*79	GERUSOPPA	55.00	53.13	0.130	0.119	11-01-2018	92	83	78	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	115.67	0.507	0.484	11-01-2018	95	40	77	62	-
*81	IDAMALAYAR	169.00	157.28	1.018	0.687	11-01-2018	67	56	64	33	75
*82	IDUKKI	732.43	722.49	1.460	0.939	11-01-2018	64	37	61	-	780
*83	KAKKI	981.46	977.57	0.447	0.380	11-01-2018	85	52	75	23	300
*84	PERIYAR	867.41	861.90	0.173	0.056	11-01-2018	32	8	47	84	140
85	MALAPMUZHA	115.06	107.00	0.224	0.076	11-01-2018	34	21	48	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	267.75	0.792	0.238	11-01-2018	30	12	51	105	8
*87	METTUR(STANLEY)	240.79	221.15	2.647	0.621	11-01-2018	23	11	47	122	360
88	VAIGAI	279.20	270.76	0.172	0.035	11-01-2018	20	3	42	61	6
89	PARAMBIKULAM	556.26	542.45	0.380	0.118	11-01-2018	31	15	68	101	-
90	ALIYAR	320.04	304.85	0.095	0.013	11-01-2018	14	1	65	#	60
*91	SHOLAYAR	1002.79	961.85	0.143	0.000	11-01-2018	0	0	32	-	95
TOTAL FOR 91 RESERVOIRS				161.993	80.484						
PERCENTAGE							50	53	53		

* 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