

## **BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 04.10.2018)**

### **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 **04.10.2018**, live storage available in these reservoirs is **120.921 BCM**, which is **75%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **107.352 BCM** and the average of last 10 years live storage was **116.388 BCM**. Thus, the live storage available in 91 reservoirs **as per 04.10.2018 Bulletin** is **113%** of the live storage of corresponding period of last year and **104%** 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 and is also **better 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 **04.10.2018**, the total live storage available in these reservoirs is **16.53 BCM** which is **92%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **82%** and average storage of last ten years during corresponding period was **82%** 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 **04.10.2018**, the total live storage available in these reservoirs is **15.85 BCM** which is **84%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **77%** and average storage of last ten years during corresponding period was **76%** 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 **04.10.2018**, the total live storage available in these reservoirs is **17.47 BCM** which is **56%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **72%** and average storage of last ten years during corresponding period was **68%** 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 **04.10.2018**, the total live storage available in these reservoirs is **33.75 BCM** which is **80%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **65%** and average storage of last ten years during corresponding period was **74%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the storage of last year and is also 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 **04.10.2018**, the total live storage available in these reservoirs is **37.32 BCM** which is **72%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **55%** and average storage of last ten years during corresponding period was **68%** 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 Indus, Ganga, Narmada, Godavari, and West Flowing Rivers of South and Cauvery & neighbouring EFRs. Close to Normal in Krishna and Mahanadi & Neighbouring East Flowing Rivers, Deficient in Tapi, Mahi and Rivers of Kutch and Highly Deficient in Sabarmati.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **46** and reservoirs having storage more than average of last ten years are **54**. 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 **2**. 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 **6**.

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**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 04.10.2018

- 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 **04.10.2018** is **120.921** BCM ( **75** percent of the live storage capacity at FRL ).The current year's storage is nearly **113** percent of last year's storage and **104** 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		
<b>NORTH</b> (HP,Punjab & Rajasthan), (6 Resv.)	2	2	1	-	1	-	-	-	H.P.	9 %
									PUNJAB	48 %
									RAJASTHAN	4 %
<b>EAST</b> (Jharkhand,Odisha, Tripura & W.Bengal ( 15 Resv.)	-	6	5	1	-	-	3	-	JHARKHAND	4 %
									ODISHA	14 %
									W. BENGAL	-25 %
									TRIPURA	43 %
<b>WEST</b> (Guj.& Mah.), (27 Resv.)	2	5	3	3	2	1	6	5	GUJARAT	-29 %
									MAH.	-8 %
<b>CENTRAL</b> (MP,UP,Uttarakhand & Chh.), (12 Resv)	1	4	1	1	3	1	1	-	U.P.	23 %
									UTTARAKHAND	1 %
									M.P.	8 %
									CHHATISGARH	3 %
<b>SOUTH</b> (Karnataka,TN,AP&TG,AP, TG, & Kerala), ( 31 Resv.)	2	5	9	7	2	3	1	2	AP&TG	-18 %
									A,P	28 %
									TG	8 %
									KARNATAKA	12 %
									KERALA	17 %
									T.N.	54 %
Status of 91 reservoirs	7	22	19	12	8	5	11	7		

## 4 Basin wise storage position:

**Better than normal:** Indus,Ganga, Narmada , West Flowing Rivers of South,Godavari and Cauvery & neighbouring EFRS .

**Close to normal:** Krishna and Mahanadi & Neighbouring EFRS

**Deficient:** Tapi, Mahi and Rivers of Kutch.

**Highly deficient:** sabarmati

- Out of 91 reservoirs, **76** reservoirs reported more than 80% of normal storage & **15** reservoirs reported 80% or below of normal storage. Out of these **15** reservoirs **6** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
KADANA	10		
VANIVILAS SAGAR	20		
YELDARI	22		
PENCH (TOTALADOH)	34		
SABARMATI(DHAROI)	37		
DANTIWADA	43		

<b>9</b> reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
3	5	1

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

**13** 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 :- 04.10.2018

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	19.704	70.13%	20.300	72.25%	18.855	67.11%	<b>4.50</b>
INDUS	14.730	13.692	92.95%	12.129	82.34%	12.044	81.77%	<b>13.68</b>
NARMADA	21.608	17.480	80.90%	12.096	55.98%	14.987	69.36%	<b>16.63</b>
TAPI	7.394	3.372	45.60%	4.040	54.64%	5.796	78.39%	<b>-41.82</b>
MAHI	4.012	2.510	62.56%	3.566	88.88%	3.229	80.48%	<b>-22.27</b>
SABARMATI	0.735	0.204	27.76%	0.735	100.00%	0.546	74.29%	<b>-62.64</b>
RIVERS OF KUTCH	0.887	0.292	32.92%	0.748	84.33%	0.525	59.19%	<b>-44.38</b>
GODAVARI	15.394	10.522	68.35%	8.748	56.83%	9.600	62.36%	<b>9.60</b>
KRISHNA	32.831	22.533	68.63%	19.754	60.17%	24.147	73.55%	<b>-6.68</b>
MAHANADI & NEIGHBOURING EFRS	13.181	10.865	82.43%	10.846	82.29%	11.065	83.95%	<b>-1.81</b>
CAUVERY& NEIGHBOURING EFRS	8.359	6.584	78.77%	4.525	54.13%	4.625	55.33%	<b>42.36</b>
WEST FLOWING RIVERS OF SOUTH	14.766	13.163	89.14%	9.865	66.81%	10.969	74.29%	<b>20.00</b>
<b>TOTAL</b>	<b>161.993</b>	<b>120.921</b>		<b>107.352</b>		<b>116.388</b>		
<b>PERCENTAGE</b>								<b>3.89</b>

## WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 04.10.2018

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
<b>NORTHERN REGION</b>											
<b><u>HIMACHAL PRADESH</u></b>											
*1	GOBIND SAGAR(BHAKRA)	512.06	508.03	6.229	5.326	04-10-2018	86	87	87	676	1200
*2	PONG DAM	423.67	424.35	6.157	6.089	04-10-2018	99	82	82	-	360
<b><u>PUNJAB</u></b>											
*3	THEIN	527.91	526.90	2.344	2.277	04-10-2018	97	71	65	348	600
<b><u>RAJASTHAN</u></b>											
*4	MAHI BAJAJ SAGAR	280.75	280.70	1.711	1.710	03-10-2018	100	100	87	63	140
5	JHAKAM	359.50	359.70	0.132	0.132	03-10-2018	100	100	86	28	-
*6	RANA PRATAP SAGAR	352.81	350.47	1.436	0.995	04-10-2018	69	55	79	229	172
<b><u>EASTERN REGION</u></b>											
<b><u>JHARKHAND</u></b>											
7	TENUGHAT	269.14	259.84	0.821	0.410	04-10-2018	50	53	47	-	-
8	MAITHON	146.3	146.52	0.471	0.454	04-10-2018	96	100	94	342	-
*9	PANCHET HILL	124.97	124.90	0.184	0.181	04-10-2018	98	100	95	\$	80
10	KONAR	425.81	424.25	0.176	0.148	04-10-2018	84	81	89	\$	-
11	TILAIYA	368.81	368.51	0.142	0.131	04-10-2018	92	85	85	\$	4
<b><u>ODISHA</u></b>											
*12	HIRAKUD	192.02	191.86	5.378	4.720	04-10-2018	88	91	95	153	307
*13	BALIMELA	462.08	461.89	2.676	2.638	03-10-2018	99	40	48	-	360
14	SALANADI	82.30	79.51	0.558	0.470	04-10-2018	84	41	53	42	-
*15	RENGALI	123.50	121.38	3.432	2.751	03-10-2018	80	98	82	3	200
*16	MACHKUND(JALPUT)	838.16	837.62	0.893	0.838	03-10-2018	94	86	86	-	115
*17	UPPER KOLAB	858.00	857.06	0.935	0.846	03-10-2018	90	51	61	89	320
*18	UPPER INDRAVATI	642.00	640.98	1.456	1.342	03-10-2018	92	58	72	128	600
<b><u>WEST BENGAL</u></b>											
19	MAYURAKSHI	121.31	114.88	0.480	0.204	04-10-2018	43	97	66	227	-
20	KANGSABATI	134.14	128.32	0.914	0.453	04-10-2018	50	74	61	341	-
<b><u>TRIPURA</u></b>											
21	GUMTI	93.55	92.60	0.312	0.268	03-10-2018	86	97	60	-	15
<b><u>WESTERN REGION</u></b>											
<b><u>GUJARAT</u></b>											
*22	UKAI	105.16	97.12	6.615	2.868	04-10-2018	43	52	80	348	300
23	SABARMATI(DHAROI)	189.59	182.68	0.735	0.204	03-10-2018	28	100	74	95	1
*24	KADANA	127.7	127.28	1.472	0.115	03-10-2018	8	80	77	200	120
25	SHETRUNJI	55.53	52.67	0.300	0.125	03-10-2018	42	61	73	36	-
26	BHADAR	107.89	105.12	0.188	0.090	03-10-2018	48	95	68	27	-
27	DAMANAGANGA	79.86	78.10	0.502	0.398	04-10-2018	79	96	96	51	1
28	DANTIWADA	184.1	172.26	0.399	0.077	03-10-2018	19	97	45	45	-
29	PANAM	127.41	127.41	0.697	0.553	03-10-2018	79	79	72	36	2
*30	SARDAR SAROVAR	138.68	127.41	5.760	2.658	04-10-2018	46	58	28	2120	1450
31	KARJAN	115.25	113.24	0.523	0.457	04-10-2018	87	93	90	51	3

## WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 04.10.2018

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
<b>MAHARASHTRA</b>											
32	JAYAKWADI(PAITHON)	463.91	460.04	2.171	0.905	04-10-2018	42	100	50	227	-
*33	KOYANA	657.90	657.35	2.652	2.586	04-10-2018	98	100	97	-	1920
34	BHIMA(UJJANI)	496.83	496.80	1.517	1.505	04-10-2018	99	100	79	125	12
35	ISAPUR	441.00	437.64	0.965	0.643	04-10-2018	67	15	57	104	-
36	MULA	552.30	548.38	0.609	0.417	04-10-2018	68	100	82	139	-
37	YELDARI	461.77	450.46	0.809	0.076	02-10-2018	9	12	42	78	-
38	GIRNA	398.07	391.79	0.524	0.250	04-10-2018	48	65	44	79	-
39	KHADAKVASLA	582.47	581.74	0.056	0.046	04-10-2018	82	98	75	78	8
*40	UPPER VAITARNA	603.50	603.26	0.331	0.325	04-10-2018	98	100	93	-	61
41	UPPER TAPI	214.00	213.98	0.255	0.254	04-10-2018	100	99	97	45	-
*42	PENCH (TOTALADOH)	490.00	476.70	1.091	0.281	04-10-2018	26	40	75	127	160
43	UPPER WARDHA	342.50	339.00	0.564	0.294	04-10-2018	52	100	93	70	-
44	BHATSA	142.07	139.80	0.942	0.880	04-10-2018	93	99	95	29.378	15
45	DHOM	747.70	745.70	0.331	0.287	03-10-2018	87	95	88	36.2	2
46	DUDHGANGA	646.00	645.26	0.664	0.655	01-10-2018	99	100	99	2.441	24
47	MANIKDOH (KUKADI)	711.25	707.09	0.288	0.217	04-10-2018	75	81	59	2.2	6
48	BHANDARDARA	744.91	744.73	0.304	0.304	04-10-2018	100	100	97	63.74	46
<b>CENTRAL REGION</b>											
<b>UTTAR PRADESH</b>											
49	MATATILA	308.46	308.46	0.707	0.641	03-10-2018	91	91	92	-	30
*50	RIHAND	268.22	264.05	5.649	3.855	04-10-2018	68	66	53	-	300
<b>UTTRAKHAND</b>											
*51	RAMGANGA	365.30	353.96	2.196	1.397	04-10-2018	64	60	70	1897	198
*52	TEHRI	830.00	826.90	2.615	2.490	04-10-2018	95	92	88	2351	1000
<b>MADHYA PRADESH</b>											
*53	GANDHI SAGAR	399.90	392.65	6.827	2.911	04-10-2018	43	69	59	220	115
54	TAWA	355.40	352.84	1.944	1.579	04-10-2018	81	77	95	247	-
*55	BARGI	422.76	421.80	3.180	2.954	04-10-2018	93	88	92	157	90
*56	BANSAGAR	341.64	341.46	5.166	5.166	04-10-2018	100	75	75	488	425
*57	INDIRA SAGAR	262.13	261.87	9.745	9.589	04-10-2018	98	38	79	2380	1000
58	BARNA	348.55	345.15	0.456	0.243	04-10-2018	53	57	82	546	-
<b>CHHATTIS GARH</b>											
*59	MINIMATA BANGOI	359.66	356.95	3.046	2.436	04-10-2018	80	69	74	-	120
60	MAHANADI	348.70	345.43	0.767	0.488	04-10-2018	64	36	77	319	10
<b>SOUTHERN REGION</b>											
<b>A.P. &amp; TG</b>											
*61	SRISAILAM	269.75	263.99	8.288	3.481	04-10-2018	42	63	69	0	770
*62	NAGARJUNA SAGAR	179.83	177.33	6.841	4.433	04-10-2018	65	5	58	895	810
<b>ANDHRA PRADESH</b>											
63	SOMASILA	100.58	94.53	1.994	1.176	04-10-2018	59	33	46	168	0
<b>TELANGANA</b>											
64	SRIRAMSAGAR	332.54	330.04	2.300	1.709	04-10-2018	74	45	62	411	27
65	LOWER MANAIR	280.42	272.89	0.621	0.229	04-10-2018	37	33	60	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 04.10.2018

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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
<b><u>KARNATAKA</u></b>											
66	KRISHNARAJA SAGRA	752.50	752.35	1.163	1.163	03-10-2018	100	66	76	79	-
*67	TUNGABHADRA	497.74	496.47	3.276	2.424	04-10-2018	74	66	77	529	72
68	GHATAPRABHA	662.95	660.88	1.391	1.237	04-10-2018	89	84	87	317	-
69	BHADRA	657.76	657.45	1.785	1.749	04-10-2018	98	68	86	106	39
70	LINGANAMAKKI	554.43	553.52	4.294	4.014	04-10-2018	93	61	79	-	55
71	NARAYANPUR	492.25	491.59	0.863	0.655	04-10-2018	76	84	83	425	-
72	MALAPRABHA(RENUKA)	633.83	630.95	0.972	0.638	04-10-2018	66	37	61	215	-
73	KABINI(Sancherla Tank)	696.16	695.68	0.444	0.415	03-10-2018	93	88	54	85	-
74	HEMAVATHY	890.63	888.50	0.927	0.832	03-10-2018	90	34	73	265	-
75	HARANGI	871.42	869.99	0.220	0.184	03-10-2018	84	98	85	53	-
76	SUPA	564.00	561.75	4.120	3.845	04-10-2018	93	60	66	-	-
77	VANIVILAS SAGAR	652.28	632.47	0.802	0.020	03-10-2018	2	2	13	123	-
*78	ALMATTI	519.60	518.43	3.105	2.600	04-10-2018	84	100	92	@	290
*79	GERUSOPPA	55.00	49.86	0.130	0.101	03-10-2018	78	87	78	83	240
<b><u>KERALA</u></b>											
80	KALLADA(PARAPPAR)	115.82	113.05	0.507	0.423	03-10-2018	83	75	68	62	-
*81	IDAMALAYAR	169.00	159.72	1.018	0.752	03-10-2018	74	74	73	33	75
*82	IDUKKI	732.43	727.78	1.460	1.204	03-10-2018	82	61	63	-	780
*83	KAKKI	981.46	975.00	0.447	0.344	03-10-2018	77	70	74	23	300
*84	PERIYAR	867.41	864.42	0.173	0.103	03-10-2018	60	50	42	84	140
85	MALAPMUZHA	115.06	114.03	0.224	0.198	04-10-2018	88	62	76	21	3
<b><u>TAMIL NADU</u></b>											
86	LOWER BHAWANI	278.89	279.02	0.792	0.792	03-10-2018	100	60	44	105	8
*87	METTUR(STANLEY)	240.79	235.50	2.647	1.934	03-10-2018	73	63	50	122	360
88	VAIGAI	279.20	275.02	0.172	0.088	03-10-2018	51	29	34	61	6
89	PARAMBIKULAM	556.26	555.62	0.380	0.366	03-10-2018	96	50	76	101	-
90	ALIYAR	320.04	318.12	0.095	0.083	03-10-2018	87	40	74	#	60
*91	SHOLAYAR	1002.79	1002.34	0.143	0.127	03-10-2018	89	78	87	-	95
TOTAL FOR 91 RESERVOIRS				161.993	120.921						
PERCENTAGE							75	66	72		

Sd/-

\* HYDEL POWER CAPACITY HAVING CAPACITY MORE THAN 60MW

Director

\$ TOTAL CCA 342 TH. HA OF DVC SYSTEM

W. M. , CWC

# 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.