

**BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY(WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 16.08.2018)**

**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 **16.08.2018**, live storage available in these reservoirs is **84.743 BCM**, which is **52%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **75.599 BCM** and the average of last 10 years live storage was **87.935 BCM**. Thus, the live storage available in 91 reservoirs **as per 16.08.2018 Bulletin** is **112%** of the live storage of corresponding period of last year and **96%** 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 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 **16.08.2018**, the total live storage available in these reservoirs is **9.76 BCM** which is **54%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **79%** and average storage of last ten years during corresponding period was **69%** 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 **16.08.2018**, the total live storage available in these reservoirs is **9.87 BCM** which is **52%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **47%** and average storage of last ten years during corresponding period was **44%** 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 **16.08.2018**, the total live storage available in these reservoirs is **11.05 BCM** which is **35%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **50%** 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 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 **16.08.2018**, the total live storage available in these reservoirs is **20.50 BCM** which is **48%** of total live storage capacity of these reservoirs. The storage during correspond period of last year was **52%** and average storage of last ten years during corresponding period was **57%** 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 **16.08.2018**, the total live storage available in these reservoirs is **33.57 BCM** which is **65%** 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 **52%** 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 Krishna,Godavari,Mahanadi & Neighbouring East Flowing Rivers,West Flowing Rivers of SouthandCauvery & neighbouring EFRs.Close to Normal inGanga,Mahi and Rivers of Kutch and Deficient inIndus,Narmada,Tapi and Sabarmati and NIL in Highly Deficient.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storagemore than last year are **49** and reservoirs having storage more than average of last ten years are **52**.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 **4**. 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 **13**.

**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 16.08.2018

- 1 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.
- 2 The total live storage in 91 important reservoirs in different parts of the country, monitored by CWC as on 16.08.2018 is 84.743 BCM ( 52 percent of the live storage capacity at FRL ). The current year's storage is nearly 112 percent of last year's storage and 96 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	3	2	-	H.P. PUNJAB RAJASTHAN	-24 % 0 %	
EAST (Jharkhand,Odisha, Tripura & W.Bengal ( 15 Resv.)	-	1	-	1	4	2	4	3	JHARKHAND ODISHA W. BENGAL TRIPURA	-13 % 26 % -7 % 80 %	
WEST (Guj.& Mah.), (27 Resv.)	2	3	2	-	2	1	6	11	GUJARAT MAH.	-60 % -4 %	
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	1	-	2	2	-	2	5	U.P. UTTARAKHAND M.P. CHHATISGARH	-14 % -15 % -20 % 13 %	
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), ( 31 Resv.)	6	12	3	3	-	1	1	5	AP&TG A,P TG KARNATAKA KERALA T.N.	-11 % -28 % -42 % 26 % 85 % 82 %	
Status of 91 reservoirs	8	17	5	6	9	7	15	24			

**4 Basin wise storage position:**

**Better than normal:** Krishna, West Flowing Rivers of South, Mahanadi & Neighbouring EFRS and Cauvery & neighbouring EFRS.

**Close to normal:** Ganga , Godavari

**Deficient:** Indus, Narmada, Rivers of Kutch and sabarmati.

**Highly deficient:** Tapi

5 Out of 91 reservoirs, 64 reservoirs reported more than 80% of normal storage & 27 reservoirs reported 80% or below of normal storage. Out of these 27 reservoirs 13 having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
YELDARI	0		
SARDAR SAROVAR	3		
VANIVILAS SAGAR	4		
SHETRUNJI	9		
NAGARJUNA SAGAR	31		
PENCH (TOTALADOH)	34		
UKAI	35		
KONAR	37		
BARNA	39		
LOWER MANAIR	43		
SABARMATI(DHAROI)	45		
TILAIYA	45		
MATATILA	46		

14 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
5	6	3

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

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

16 reservoirs.

**GOVERNMENT OF INDIA**

WEEKLY REPORT - BASINWISE

## CENTRAL WATER COMMISSION

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	12,037	42.84%	17,245	61.38%	14,464 51.48%
INDUS	14,730	8,074	54.81%	11,904	80.81%	10,161 68.98%
NARMADA	21,608	8,449	39.10%	7,373	34.12%	11,814 54.67%
TAPI	7,394	1,621	21.92%	2,957	39.99%	4,095 55.38%
MAHI	4,012	1,820	45.36%	3,141	78.29%	2,540 63.31%
SABARMATI	0.735	0.165	22.45%	0.682	92.79%	0.370 50.34%
RIVERS OF KUTCH	0.887	0.183	20.63%	0.601	67.76%	0.335 37.77%
GODAVARI	15,394	5,972	38.79%	4,759	30.91%	6,179 40.14%
KRISHNA	32,831	19,034	57.98%	11,455	34.89%	18,300 55.74%
MAHANADI & NEIGHBOURING EFRS	13,181	7,579	57.50%	6,769	51.35%	6,599 50.06%
CAUVERY & NEIGHBOURING EFRS	8,359	6,490	77.64%	1,954	23.38%	4,323 51.72%
WEST FLOWING RIVERS OF SOUTH	14,766	13,319	90.20%	6,759	45.77%	8,755 59.29%
<b>TOTAL</b>	<b>161,993</b>	<b>84,743</b>		<b>75,599</b>		<b>87,935</b>
<b>PERCENTAGE</b>						<b>-3.63</b>

GOVERNMENT OF INDIA

## WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

CENTRAL WATER COMMISSION

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****HIMACHAL PRADESH**

*1	GOBIND SAGAR(BHAKRA)	512.06	492.28	6.229	3.170	16-08-2018	51	79	73	676	1200
*2	PONG DAM	423.67	412.23	6.157	3.427	16-08-2018	56	82	67	-	360
*3	THEIN	527.91	516.28	2.344	1.477	16-08-2018	63	82	63	348	600
*4	MAHI BAJAJ SAGAR	280.75	274.35	1.711	0.986	16-08-2018	58	85	71	63	140
5	JHAKAM	359.50	350.40	0.132	0.057	16-08-2018	43	100	75	28	-
*6	RANA PRATAP SAGAR	352.81	348.22	1.436	0.644	16-08-2018	45	54	70	229	172

**EASTERN REGION****JHARKHAND**

7	TENUGHAT	269.14	259.08	0.821	0.381	15-08-2018	46	44	43	-	-
8	MAITHON	146.30	143.85	0.471	0.313	15-08-2018	66	79	72	342	-
*9	PANCHET HILL	124.97	123.95	0.184	0.136	15-08-2018	74	96	83	\$	80
10	KONAR	425.81	416.57	0.176	0.043	15-08-2018	24	58	66	\$	-
11	TILAIYA	368.81	365.48	0.142	0.040	15-08-2018	28	99	62	\$	4

**ODISHA**

*12	HIRAKUD	192.02	187.69	5.378	2.394	16-08-2018	45	39	42	153	307
*13	BALIMELA	462.08	453.24	2.676	1.335	16-08-2018	50	30	29	-	360
14	SALANADI	82.30	76.48	0.558	0.379	16-08-2018	68	35	34	42	-
*15	RENGALI	123.50	118.73	3.432	1.896	16-08-2018	55	61	45	3	200
*16	MACHKUND(JALPUT)	838.16	833.81	0.893	0.552	16-08-2018	62	43	54	-	115

**WEST BENGAL**

*17	UPPER KOLAB	858.00	852.01	0.935	0.427	16-08-2018	46	30	33	89	320
*18	UPPER INDRAVATI	642.00	637.74	1.456	1.013	16-08-2018	70	41	51	128	600
19	MAYURAKSHI	121.31	114.16	0.480	0.181	15-08-2018	38	82	54	227	-
20	KANGSABATI	134.14	128.82	0.914	0.492	15-08-2018	54	67	51	341	-
21	GUMTI	93.55	93.10	0.312	0.291	16-08-2018	93	97	52	-	15

**WESTERN REGION****GUJARAT**

*22	UKAI	105.16	91.55	6.615	1.358	16-08-2018	21	39	59	348	300
23	SABARMATI(DHAROI)	189.59	181.82	0.735	0.165	16-08-2018	22	93	50	95	1
*24	KADANA	127.70	118.67	1.472	0.449	16-08-2018	31	72	56	200	120
25	SHETRUNJI	55.53	52.82	0.300	0.013	16-08-2018	4	44	47	36	-
26	BHADAR	107.89	105.28	0.188	0.094	16-08-2018	50	56	46	27	-
27	DAMANAGANGA	79.86	75.85	0.502	0.307	16-08-2018	61	57	49	51	1
28	DANTIWADA	184.10	172.35	0.399	0.076	16-08-2018	19	91	27	45	-
29	PANAM	127.41	123.60	0.697	0.328	16-08-2018	47	70	58	36	2
*30	SARDAR SAROVAR	138.68	110.98	5.760	0.037	16-08-2018	1	28	26	2120	1450
31	KARJAN	115.25	108.68	0.523	0.341	16-08-2018	65	70	60	51	3

**MAHARASHTRA**

32	JAYAKWADI(PAITHON)	463.91	458.79	2.171	0.597	16-08-2018	27	50	26	227	-
*33	KOYANA	657.90	658.67	2.652	2.652	16-08-2018	100	89	91	-	1920
34	BHIMA(UJJANI)	496.83	493.84	1.517	0.633	16-08-2018	42	44	49	125	12
35	ISAPUR	441.00	432.87	0.965	0.331	16-08-2018	34	6	45	104	-



80	KALLADA(PARAPPAR)	115.82	115.72	0.507	0.485	16-08-2018	96	35	52	62	-
*81	IDAMALAYAR	169.00	168.71	1.018	1.009	14-08-2018	99	37	54	33	75
*82	IDUKKI	732.43	730.57	1.460	1.356	14-08-2018	93	30	48	-	780
*83	KAKKI	981.46	980.91	0.447	0.436	14-08-2018	98	30	57	23	300
*84	PERIYAR	867.41	868.91	0.173	0.173	16-08-2018	100	14	46	84	140
85	MALAPMUZHA	115.06	114.60	0.224	0.210	15-08-2018	94	29	60	21	3
<b>TAMIL NADU</b>											
86	LOWER BHAWANI	278.89	279.43	0.792	0.792	16-08-2018	100	19	51	105	8
*87	METTUR(STANLEY)	240.79	240.89	2.647	2.647	16-08-2018	100	16	54	122	360
88	VAIGAI	279.20	276.99	0.172	0.123	16-08-2018	72	6	28	61	6
89	PARAMBIKULAM	556.26	556.15	0.380	0.377	16-08-2018	99	27	66	101	-
90	ALIYAR	320.04	319.67	0.095	0.093	16-08-2018	98	9	65	#	60
*91	SHOLAYAR	1002.79	1003.78	0.143	0.134	16-08-2018	94	12	74	-	95
TOTAL FOR 91 RESERVOIRS				161.993	84.743						
PERCENTAGE							52	47	54		

\* HYDEL POWER CAPACITY HAVING CAPACITY MORE THAN 60MW

Sd/-

\$ TOTAL CCA 342 TH. HA OF DVC SYSTEM

Director

# TOTAL CCA 101 TH. HA OF PARAMBIKULAM & ALIYAR

W. M. , CWC

@ TOTAL CCA 425 TH. HA. OF NARAYANPUR AND ALMATTI

† SABARMATI RESERVOIR IS SUPPLEMENTED WITH NARMADA WATER THROUGH PIPELINE.