

**BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY(WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 09.08.2018)**

**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 **09.08.2018**, live storage available in these reservoirs is **77.554 BCM**, which is **48%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **74.046BCM** and the average of last 10 years live storage was **79.007BCM**. Thus, the live storage available in 91 reservoirs as per **09.08.2018 Bulletin** is **105%** of the live storage of corresponding period of last year and **98%** 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 **09.08.2018**, the total live storage available in these reservoirs is **7.27BCM** which is **40%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **75%** and average storage of last ten years during corresponding period was **60%** 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 **09.08.2018**, the total live storage available in these reservoirs is **9.05 BCM** which is **48%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **45%** and average storage of last ten years during corresponding period was **40%** 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 **09.08.2018**, the total live storage available in these reservoirs is **10.81 BCM** which is **35%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **49%** and average storage of last ten years during corresponding period was **46%** 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 **09.08.2018**, the total live storage available in these reservoirs is **18.12BCM** which is **43%** 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 **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.

**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 **09.08.2018**, the total live storage available in these reservoirs is **32.31 BCM** which is **63%** 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 **48%** 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 South and Cauvery & neighbouring EFRs. Close to Normal in Ganga, Mahi and Rivers of Kutch and Deficient in Indus, Narmada, Tapi and Sabarmati and NIL in Highly Deficient.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **48** and reservoirs having storage more than average of last ten years are **55**. 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 **3**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **14** and having storage less than or equal to 50% with reference to average of last ten years are **11**.

**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 09.08.2018

- 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 **09.08.2018** is **77.554** BCM ( **48** percent of the live storage capacity at FRL ). The current year's storage is nearly **105** percent of last year's storage and **98** 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.)	-	-	-	-	-	2	1	3	H.P. PUNJAB RAJASTHAN	-42 % -8 % -16 %
EAST (Jharkhand, Odisha, Tripura & W Bengal) (15 Resv.)	-	1	-	1	2	4	4	3	JHARKHAND ODISHA W. BENGAL TRIPURA	-11 % 27 % -1 % 101 %
WEST (Guj. & Mah.), (27 Resv.)	1	2	4	-	1	3	4	12	GUJARAT MAH.	-53 % 4 %
CENTRAL (MP, UP, Uttarakhand & Chh.), (12 Resv.)	-	-	1	1	1	1	1	7	U.P. UTTARAKHAND M.P. CHHATISGARH	-10 % -17 % -19 % 5 %
SOUTH (Karnataka, TN, AP&TG, AP, TG, & Kerala), (31 Resv.)	3	14	3	3	-	1	2	5	AP&TG A.P TG KARNATAKA KERALA T.N.	-7 % -27 % -45 % 32 % 91 % 86 %
Status of 91 reservoirs	4	17	8	5	4	11	12	30		

### 4 Basin wise storage position:

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

**Close to normal:** Ganga, Mahi and rivers of Kutch.

**Deficient:** Indus, Narmada, Tapi and Sabarmati.

**Highly deficient:** NIL

- 5 Out of 91 reservoirs, **65** reservoirs reported more than 80% of normal storage & **26** reservoirs reported 80% or below of normal storage. Out of these **26** reservoirs **11** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
YELDARI	0		
VANIVILAS SAGAR	2		
SARDAR SAROVAR	3		
NAGARJUNA SAGAR	24		
UKAI	38		
KONAR	38		
PENCH (TOTALADOH)	42		
BARNA	42		
TILAIYA	46		
LOWER MANAIR	49		
MATATILA	49		

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

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

15 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



## GOVERNMENT OF INDIA

## WEEKLY REPORT - BASINWISE

## CENTRAL WATER COMMISSION

WEEK ENDING :- 09.08.2018

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	10.825	38.53%	17.590	62.61%	12.564	44.72%	-13.84
INDUS	14.730	5.650	38.36%	11.170	75.83%	8.945	60.73%	-36.84
NARMADA	21.608	7.553	34.95%	6.912	31.99%	10.806	50.01%	-30.10
TAPI	7.394	1.566	21.18%	2.948	39.87%	3.733	50.49%	-58.05
MAHI	4.012	1.905	47.48%	3.088	76.97%	2.055	51.22%	-7.30
SABARMATI	0.735	0.166	22.59%	0.673	91.56%	0.290	39.46%	-42.76
RIVERS OF KUTCH	0.887	0.308	34.72%	0.598	67.42%	0.318	35.85%	-3.14
GODAVARI	15.394	5.449	35.40%	4.779	31.04%	5.422	35.22%	0.50
KRISHNA	32.831	18.623	56.72%	11.347	34.56%	16.702	50.87%	11.50
MAHANADI & NEIGHBOURING EFRS	13.181	6.970	52.88%	6.426	48.75%	6.059	45.97%	15.04
CAUVERY& NEIGHBOURING EFRS	8.359	6.449	77.15%	1.982	23.71%	4.151	49.66%	55.36
WEST FLOWING RIVERS OF SOUTH	14.766	12.090	81.88%	6.533	44.24%	7.962	53.92%	51.85
TOTAL	161.993	77.554		74.046		79.007		
PERCENTAGE								-1.84



WEEK ENDING :- 09.08.2018

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	483.53	6.229	2.229	9 / 8 / 2018	36	73	65	676	1200
*2	PONG DAM	423.67	405.20	6.157	2.188	9 / 8 / 2018	36	75	57	-	360
<b><u>PUNJAB</u></b>											
*3	THEIN	527.91	512.04	2.344	1.233	9 / 8 / 2018	53	85	57	348	600
<b><u>RAJASTHAN</u></b>											
*4	MAHI BAJAJ SAGAR	280.75	274.10	1.711	0.960	8 / 8 / 2018	56	82	54	63	140
5	JHAKAM	359.50	349.60	0.132	0.052	8 / 8 / 2018	39	100	48	28	-
*6	RANA PRATAP SAGAR	352.81	348.22	1.436	0.611	9 / 8 / 2018	43	52	67	229	172
<b><u>EASTERN REGION</u></b>											
<b><u>JHARKHAND</u></b>											
7	TENUGHAT	269.14	257.80	0.821	0.336	9 / 8 / 2018	41	42	42	-	-
8	MAITHON	146.30	143.81	0.471	0.311	9 / 8 / 2018	66	79	62	342	-
*9	PANCHET HILL	124.97	123.90	0.184	0.134	9 / 8 / 2018	73	100	79	\$	80
10	KONAR	425.81	416.30	0.176	0.040	9 / 8 / 2018	23	56	59	\$	-
11	TILAIYA	368.81	365.30	0.142	0.036	9 / 8 / 2018	25	99	56	\$	4
<b><u>ODISHA</u></b>											
*12	HIRAKUD	192.02	187.26	5.378	2.202	9 / 8 / 2018	41	32	39	153	307
*13	BALIMELA	462.08	451.71	2.676	1.143	9 / 8 / 2018	43	31	27	-	360
14	SALANADI	82.30	75.49	0.558	0.350	9 / 8 / 2018	63	34	30	42	-
*15	RENGALI	123.50	118.66	3.432	1.872	9 / 8 / 2018	55	61	39	3	200
*16	MACHKUND(JALPUT)	838.16	832.56	0.893	0.536	9 / 8 / 2018	60	43	48	-	115
*17	UPPER KOLAB	858.00	851.08	0.935	0.358	9 / 8 / 2018	38	31	28	89	320
*18	UPPER INDRAVATI	642.00	636.21	1.456	0.766	9 / 8 / 2018	53	41	45	128	600
<b><u>WEST BENGAL</u></b>											
19	MAYURAKSHI	121.31	114.70	0.480	0.198	9 / 8 / 2018	41	80	49	227	-
20	KANGSABATI	134.14	128.50	0.914	0.467	9 / 8 / 2018	51	70	48	341	-
<b><u>TRIPURA</u></b>											
21	GUMTI	93.55	93.20	0.312	0.296	7 / 8 / 2018	95	85	47	-	15
<b><u>WESTERN REGION</u></b>											
<b><u>GUJARAT</u></b>											
*22	UKAI	105.16	91.54	6.615	1.356	9 / 8 / 2018	20	40	54	348	300
23	SABARMATI(DHAROI)	189.59	181.86	0.735	0.166	8 / 8 / 2018	23	92	39	95	1
*24	KADANA	127.70	120.32	1.472	0.552	8 / 8 / 2018	38	72	52	200	120
25	SHETRUNJI	55.53	52.87	0.300	0.133	8 / 8 / 2018	44	44	45	36	-
26	BHADAR	107.89	105.31	0.188	0.095	8 / 8 / 2018	51	54	45	27	-
27	DAMANAGANGA	79.86	74.40	0.502	0.256	9 / 8 / 2018	51	49	44	51	1
28	DANTIWADA	184.10	172.41	0.399	0.080	8 / 8 / 2018	20	92	25	45	-
29	PANAM	127.41	123.85	0.697	0.341	8 / 8 / 2018	49	71	45	36	2
*30	SARDAR SAROVAR	138.68	110.97	5.760	0.035	9 / 8 / 2018	1	28	24	2120	1450
31	KARJAN	115.25	108.55	0.523	0.338	9 / 8 / 2018	65	68	52	51	3
<b><u>MAHARASHTRA</u></b>											
32	JAYAKWADI(PAITHON)	463.91	459.21	2.171	0.700	1 / 8 / 2018	32	49	13	227	-
*33	KOYANA	657.90	656.41	2.652	2.474	7 / 8 / 2018	93	87	83	-	1920
34	BHIMA(UJJANI)	496.83	493.35	1.517	0.511	7 / 8 / 2018	34	49	38	125	12
35	ISAPUR	441.00	432.73	0.965	0.323	8 / 8 / 2018	33	6	45	104	-



36	MULA	552.30	546.14	0.609	0.325	8 / 8 / 2018	53	67	53	139	-
37	YELDARI	461.77	447.69	0.809	0.000	8 / 8 / 2018	0	3	20	78	-
38	GIRNA	398.07	388.45	0.524	0.151	8 / 8 / 2018	29	52	19	79	-
39	KHADAKVASLA	582.47	582.47	0.056	0.056	8 / 8 / 2018	100	98	86	78	8
*40	UPPER VAITARNA	603.50	601.69	0.331	0.272	8 / 8 / 2018	82	85	76	-	61
41	UPPER TAPI	214.00	209.90	0.255	0.059	8 / 8 / 2018	23	11	35	45	-
*42	PENCH (TOTALADOH)	490.00	474.86	1.091	0.220	8 / 8 / 2018	20	10	48	127	160
43	UPPER WARDHA	342.50	338.42	0.564	0.258	9 / 8 / 2018	46	43	66	70	-
44	BHATSA	142.07	136.53	0.942	0.797	8 / 8 / 2018	85	87	76	29.378	15
45	DHOM	747.70	745.46	0.331	0.281	8 / 8 / 2018	85	67	67	36.2	2
46	DUDHGANGA	646.00	644.69	0.664	0.635	8 / 8 / 2018	96	86	82	2.441	24
47	MANIKDOH (KUKADI)	711.25	700.44	0.288	0.126	8 / 8 / 2018	44	56	36	2.2	6
48	BHANDARDARA	744.91	742.98	0.304	0.269	8 / 8 / 2018	88	95	84	63.74	46

#### **CENTRAL REGION**

##### **UTTAR PRADESH**

49	MATATILA	308.46	303.58	0.707	0.197	3 / 8 / 2018	28	16	57	-	30
*50	RIHAND	268.22	258.65	5.649	1.733	9 / 8 / 2018	31	63	31	-	300

##### **UTTRAKHAND**

*51	RAMGANGA	365.30	333.96	2.196	0.593	9 / 8 / 2018	27	72	49	1897	198
*52	TEHRI	830.00	802.95	2.615	1.587	9 / 8 / 2018	61	66	60	2351	1000

##### **MADHYA PRADESH**

*53	GANDHI SAGAR	399.90	388.44	6.827	1.531	9 / 8 / 2018	22	60	33	220	115
54	TAWA	355.40	347.29	1.944	0.843	9 / 8 / 2018	43	46	78	247	-
*55	BARGI	422.76	421.15	3.180	2.772	9 / 8 / 2018	87	48	66	157	90
*56	BANSAGAR	341.64	335.73	5.166	2.755	9 / 8 / 2018	53	66	54	488	425
*57	INDIRA SAGAR	262.13	253.38	9.745	3.437	9 / 8 / 2018	35	24	54	2380	1000
58	BARNA	348.55	342.67	0.456	0.128	9 / 8 / 2018	28	49	66	546	-

##### **CHHATTIS GARH**

*59	MINIMATA BANGOI	359.66	355.94	3.046	2.276	9 / 8 / 2018	75	72	64	-	120
60	MAHANADI	348.70	342.18	0.767	0.270	8 / 8 / 2018	35	29	63	319	10

#### **SOUTHERN REGION**

##### **A.P. & TG**

*61	SRISAILAM	269.75	265.18	8.288	3.915	9 / 8 / 2018	47	6	36	0	770
*62	NAGARJUNA SAGAR	179.83	157.83	6.841	0.386	9 / 8 / 2018	6	0	24	895	810

##### **ANDHRA PRADESH**

63	SOMASILA	100.58	84.14	1.994	0.304	9 / 8 / 2018	15	10	21	168	0
----	----------	--------	-------	-------	-------	--------------	----	----	----	-----	---

##### **TELANGANA**

64	SRIRAMSAGAR	332.54	323.73	2.300	0.455	9 / 8 / 2018	20	12	35	411	27
65	LOWER MANAIR	280.42	268.62	0.621	0.096	9 / 8 / 2018	15	33	32	199	60

##### **KARNATAKA**

66	KRISHNARAJA SAGRA	752.50	752.18	1.163	1.163	8 / 8 / 2018	100	32	66	79	-
*67	TUNGABHADRA	497.74	497.54	3.276	2.784	9 / 8 / 2018	85	40	67	529	72
68	GHATAPRABHA	662.95	662.71	1.391	1.374	9 / 8 / 2018	99	60	73	317	-
69	BHADRA	657.76	657.50	1.785	1.755	9 / 8 / 2018	98	37	72	106	39
70	LINGANAMAKKI	554.43	551.67	4.294	3.481	9 / 8 / 2018	81	41	55	-	55
71	NARAYANPUR	492.25	492.24	0.863	0.739	9 / 8 / 2018	86	76	80	425	-
72	MALAPRABHA(RENUKA)	633.83	629.23	0.972	0.480	9 / 8 / 2018	49	27	42	215	-
73	KABINI(Sancherla Tank)	696.16	695.98	0.444	0.433	8 / 8 / 2018	98	52	62	85	-
74	HEMAVATHY	890.63	890.34	0.927	0.927	8 / 8 / 2018	100	50	78	265	-
75	HARANGI	871.42	871.09	0.220	0.218	8 / 8 / 2018	99	100	95	53	-
76	SUPA	564.00	554.00	4.120	2.989	9 / 8 / 2018	73	51	49	-	-
77	VANIVILAS SAGAR	652.28	631.23	0.802	0.002	7 / 8 / 2018	0	2	11	123	-
*78	ALMATTI	519.60	519.60	3.105	3.105	9 / 8 / 2018	100	100	87	@	290
*79	GERUSOPPA	55.00	50.00	0.130	0.102	9 / 8 / 2018	78	65	77	83	240

##### **KERALA**



80 KALLADA(PARAPPAR)	115.82	114.65	0.507	0.459	8 / 8 / 2018	91	32	50	62	-
*81 IDAMALAYAR	169.00	168.06	1.018	0.990	8 / 8 / 2018	97	35	51	33	75
*82 IDUKKI	732.43	730.49	1.460	1.351	8 / 8 / 2018	93	28	45	-	780
*83 KAKKI	981.46	980.82	0.447	0.435	8 / 8 / 2018	97	28	55	23	300
*84 PERIYAR	867.41	866.05	0.173	0.138	8 / 8 / 2018	80	12	47	84	140
85 MALAPMUZHA	115.06	115.00	0.224	0.219	8 / 8 / 2018	98	25	56	21	3
<b>TAMIL NADU</b>										
86 LOWER BHAWANI	278.89	277.95	0.792	0.747	8 / 8 / 2018	94	17	50	105	8
*87 METTUR(STANLEY)	240.79	240.23	2.647	2.563	8 / 8 / 2018	97	13	50	122	360
88 VAIGAI	279.20	275.41	0.172	0.094	8 / 8 / 2018	55	6	26	61	6
89 PARAMBIKULAM	556.26	556.17	0.380	0.378	7 / 8 / 2018	99	27	62	101	-
90 ALIYAR	320.04	319.58	0.095	0.092	7 / 8 / 2018	97	11	62	#	60
*91 SHOLAYAR	1002.79	1003.16	0.143	0.131	7 / 8 / 2018	92	15	73	-	95
TOTAL FOR 91 RESERVOIRS			161.993	77.554						
PERCENTAGE						48	46	49		

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.