

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 08.02.2018)

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 **08.02.2018**, live storage available in these reservoirs is **66.731 BCM**, which is **41%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **75.278 BCM** and the average of last 10 years live storage was **73.320 BCM**. Thus, the live storage available in 91 reservoirs **as per 08.02.2018 Bulletin** is **89%** of the live storage of corresponding period of last year and **91%** 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 **08.02.2018**, the total live storage available in these reservoirs is **7.05 BCM** which is **39%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **36%** 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 but 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 **08.02.2018**, the total live storage available in these reservoirs is **11.93 BCM** which is **63%** 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 **57%** 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 **08.02.2018**, the total live storage available in these reservoirs is **13.60 BCM** which is **44%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **53%** 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 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 **08.02.2018**, the total live storage available in these reservoirs is **16.85 BCM** which is **40%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **61%** and average storage of last ten years during corresponding period was **45%** 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 **08.02.2018**, the total live storage available in these reservoirs is **17.30 BCM** which is **34%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **26%** and average storage of last ten years during corresponding period was **41%** 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 **44** and reservoirs having storage more than average of last ten years are **42**. 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 **11** and having storage less than or equal to 50% with reference to average of last ten years are **12**.

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 08.02.2018

- 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 **08.02.2018** is **66.731** BCM (**41** percent of the live storage capacity at FRL).The current year's storage is nearly **89** percent of last year's storage and **91** 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.)	-	-	-	-	1	-	2	3	H.P.	-2	%
									PUNJAB	-34	%
									RAJASTHAN	7	%
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	2	1	2	2	1	2	3	2	JHARKHAND	10	%
									ODISHA	3	%
									W. BENGAL	121	%
									TRIPURA	209	%
WEST (Guj.& Mah.), (27 Resv.)	-	-	2	6	4	6	-	9	GUJARAT	-33	%
									MAH.	16	%
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	2	2	1	7	U.P.	-3	%
									UTTARAKHAND	-23	%
									M.P.	-11	%
									CHHATISGARH	-4	%
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	1	2	-	1	1	5	3	18	AP&TG	-34	%
									A,P	-38	%
									TG	4	%
									KARNATAKA	-12	%
									KERALA	12	%
									T.N.	-53	%
Status of 91 reservoirs	3	3	4	9	9	15	9	39			

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, **57** reservoirs reported more than 80% of normal storage & **34** reservoirs reported 80% or below of normal storage. Out of these **34** reservoirs **12** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0		
ALIYAR	0		
SARDAR SAROVAR	9		
VANIVILAS SAGAR	11		
ISAPUR	13		
YELDARI	18		
TAWA	24		
PARAMBIKULAM	32		
PENCH (TOTALADOH)	38		
LOWER BHAWANI	38		
METTUR(STANLEY)	41		
BALIMELA	45		

22 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
4	10	8

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

22 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 :- 08.02.2018

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	12.304	43.79%	16.854	59.99%	12.213	43.47%	0.75
INDUS	14.730	5.567	37.79%	4.825	32.76%	5.898	40.04%	-5.61
NARMADA	21.608	5.636	26.08%	10.227	47.33%	8.092	37.45%	-30.35
TAPI	7.394	2.829	38.26%	5.425	73.37%	4.290	58.02%	-34.06
MAHI	4.012	2.309	57.55%	2.514	62.66%	2.091	52.12%	10.43
SABARMATI	0.735	0.247	33.61%	0.406	55.24%	0.301	40.95%	-17.94
RIVERS OF KUTCH	0.887	0.382	43.07%	0.181	20.41%	0.270	30.44%	41.48
GODAVARI	15.394	6.707	43.57%	9.028	58.65%	7.168	46.56%	-6.43
KRISHNA	32.831	11.652	35.49%	8.110	24.70%	13.061	39.78%	-10.79
MAHANADI & NEIGHBOURING EFRS	13.181	9.069	68.80%	9.699	73.58%	8.204	62.24%	10.54
CAUVERY & NEIGHBOURING EFRS	8.359	2.389	28.58%	1.519	18.17%	3.640	43.55%	-34.37
WEST FLOWING RIVERS OF SOUTH	14.766	7.640	51.74%	6.490	43.95%	8.092	54.80%	-5.59
TOTAL	161.993	66.731		75.278		73.320		
PERCENTAGE								-8.99

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 08.02.2018

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	490.08	6.229	2.919	08-02-2018	47	31	45	676	1200
*2	PONG DAM	423.67	405.15	6.157	2.179	06-02-2018	35	33	38	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	495.81	2.344	0.469	08-02-2018	20	35	30	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	275.05	1.711	1.052	08-02-2018	61	68	47	63	140
5	JHAKAM	359.50	350.85	0.132	0.060	08-02-2018	45	47	33	28	-
*6	RANA PRATAP SAGAR	352.81	346.54	1.436	0.374	07-02-2018	26	29	37	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	259.35	0.821	0.391	08-02-2018	48	51	44	-	-
8	MAITHON	146.3	148.27	0.471	0.471	08-02-2018	100	100	78	342	-
*9	PANCHET HILL	124.97	126.69	0.184	0.184	08-02-2018	100	100	78	\$	80
10	KONAR	425.81	420.29	0.176	0.086	08-02-2018	49	69	68	\$	-
11	TILAIYA	368.81	365.28	0.142	0.035	08-02-2018	25	60	46	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	190.03	5.378	3.593	06-02-2018	67	72	68	153	307
*13	BALIMELA	462.08	446.59	2.676	0.604	07-02-2018	23	69	50	-	360
14	SALANADI	82.30	70.84	0.558	0.234	07-02-2018	42	31	34	42	-
*15	RENGALI	123.50	122.16	3.432	2.985	07-02-2018	87	86	58	3	200
*16	MACHKUND(JALPUT)	838.16	836.84	0.893	0.769	07-02-2018	86	58	70	-	115
*17	UPPER KOLAB	858.00	852.86	0.935	0.492	07-02-2018	53	76	52	89	320
*18	UPPER INDRAVATI	642.00	634.95	1.456	0.742	08-02-2018	51	71	61	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	120.06	0.480	0.436	08-02-2018	91	41	39	227	-
20	KANGSABATI	134.14	131.22	0.914	0.676	08-02-2018	74	41	35	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	91.80	0.312	0.232	06-02-2018	74	56	24	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	96.09	6.615	2.492	08-02-2018	38	75	60	348	300
23	SABARMATI(DHAROI)	189.59	183.49	0.735	0.247	08-02-2018	34	55	41	95	1
*24	KADANA	127.7	123.34	1.472	0.781	08-02-2018	53	63	58	200	120
25	SHETRUNJI	55.53	52.12	0.300	0.106	08-02-2018	35	44	51	36	-
26	BHADAR	107.89	104.03	0.188	0.063	08-02-2018	34	6	34	27	-
27	DAMANAGANGA	79.86	77.20	0.502	0.361	08-02-2018	72	65	70	51	1
28	DANTIWADA	184.1	178.43	0.399	0.213	08-02-2018	53	9	14	45	-
29	PANAM	127.41	125.25	0.697	0.416	08-02-2018	60	54	55	36	2
*30	SARDAR SAROVAR	138.68	111.64	5.760	0.107	08-02-2018	2	23	20	2120	1450
31	KARJAN	115.25	109.54	0.523	0.360	08-02-2018	69	54	68	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 08.02.2018

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	462.26	2.171	1.576	07-02-2018	73	59	34	227	-
*33	KOYANA	657.90	653.82	2.652	2.220	08-02-2018	84	58	70	-	1920
34	BHIMA(UJJANI)	496.83	495.88	1.517	1.211	08-02-2018	80	66	55	125	12
35	ISAPUR	441.00	427.16	0.965	0.057	08-02-2018	6	34	45	104	-
36	MULA	552.30	549.26	0.609	0.456	07-02-2018	75	72	53	139	-
37	YELDARI	461.77	449.19	0.809	0.041	08-02-2018	5	19	28	78	-
38	GIRNA	398.07	389.21	0.524	0.173	08-02-2018	33	55	30	79	-
39	KHADAKVASLA	582.47	580.46	0.056	0.030	08-02-2018	54	63	55	78	8
*40	UPPER VAITARNA	603.50	600.67	0.331	0.238	08-02-2018	72	73	72	-	61
41	UPPER TAPI	214.00	212.34	0.255	0.164	08-02-2018	64	72	73	45	-
*42	PENCH (TOTALADOH)	490.00	473.31	1.091	0.175	08-02-2018	16	22	42	127	160
43	UPPER WARDHA	342.50	339.51	0.564	0.327	08-02-2018	58	60	53	70	-
44	BHATSA	142.07	129.89	0.942	0.642	08-02-2018	68	68	63	29.378	15
45	DHOM	747.70	742.38	0.331	0.219	08-02-2018	66	71	47	36.2	2
46	DUDHGANGA	646.00	640.19	0.664	0.492	08-02-2018	74	73	69	2.441	24
47	MANIKDOH (KUKADI)	711.25	704.13	0.288	0.173	08-02-2018	60	36	27	2.2	6
48	BHANDARDARA	744.91	742.68	0.304	0.263	08-02-2018	87	88	68	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	304.04	0.707	0.228	07-02-2018	32	48	44	-	30
*50	RIHAND	268.22	259.11	5.649	1.906	08-02-2018	34	56	34	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	342.64	2.196	0.822	08-02-2018	37	34	60	1897	198
*52	TEHRI	830.00	792.15	2.615	1.244	08-02-2018	48	47	51	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	391.28	6.827	2.409	08-02-2018	35	74	39	220	115
54	TAWA	355.40	338.33	1.944	0.183	08-02-2018	9	42	39	247	-
*55	BARGI	422.76	418.90	3.180	2.148	08-02-2018	68	58	57	157	90
*56	BANSAGAR	341.64	335.89	5.166	2.810	08-02-2018	54	76	48	488	425
*57	INDIRA SAGAR	262.13	251.97	9.745	2.755	08-02-2018	28	59	39	2380	1000
58	BARNA	348.55	341.29	0.456	0.083	08-02-2018	18	53	36	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	353.00	3.046	1.843	07-02-2018	61	68	60	-	120
60	MAHANADI	348.70	344.49	0.767	0.414	07-02-2018	54	85	67	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	260.70	8.288	2.522	08-02-2018	30	24	43	0	770
*62	NAGARJUNA SAGAR	179.83	160.60	6.841	0.863	08-02-2018	13	4	23	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	90.47	1.994	0.746	08-02-2018	37	39	60	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	326.56	2.300	0.902	08-02-2018	39	63	36	411	27
65	LOWER MANAIR	280.42	274.58	0.621	0.303	08-02-2018	49	69	54	199	60

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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
KARNATAKA											
66	KRISHNARAJA SAGRA	752.50	743.95	1.163	0.452	07-02-2018	39	14	56	79	-
*67	TUNGABHADRA	497.74	487.79	3.276	0.569	08-02-2018	17	4	27	529	72
68	GHATAPRABHA	662.95	651.64	1.391	0.676	08-02-2018	49	37	28	317	-
69	BHADRA	657.76	649.23	1.785	0.923	08-02-2018	52	27	71	106	39
70	LINGANAMAKKI	554.43	543.81	4.294	1.753	08-02-2018	41	39	54	-	55
71	NARAYANPUR	492.25	490.26	0.863	0.504	08-02-2018	58	65	75	425	-
72	MALAPRABHA(RENUKA)	633.83	624.25	0.972	0.156	08-02-2018	16	15	20	215	-
73	KABINI(Sancherla Tank)	696.16	692.37	0.444	0.244	08-02-2018	55	14	37	85	-
74	HEMAVATHY	890.63	876.25	0.927	0.181	08-02-2018	20	11	24	265	-
75	HARANGI	871.42	859.57	0.220	0.064	08-02-2018	29	30	15	53	-
76	SUPA	564.00	544.31	4.120	2.090	08-02-2018	51	48	51	-	-
77	VANIVILAS SAGAR	652.28	632.12	0.802	0.015	08-02-2018	2	4	16	123	-
*78	ALMATTI	519.60	513.41	3.105	1.079	08-02-2018	35	19	31	@	290
*79	GERUSOPPA	55.00	52.98	0.130	0.118	08-02-2018	91	83	81	83	240
KERALA											
80	KALLADA(PARAPPAR)	115.82	115.20	0.507	0.471	08-02-2018	93	39	69	62	-
*81	IDAMALAYAR	169.00	154.34	1.018	0.617	08-02-2018	61	50	56	33	75
*82	IDUKKI	732.43	720.65	1.460	0.854	08-02-2018	58	34	53	-	780
*83	KAKKI	981.46	976.10	0.447	0.359	08-02-2018	80	50	68	23	300
*84	PERIYAR	867.41	860.35	0.173	0.031	08-02-2018	18	10	29	84	140
85	MALAPMUZHA	115.06	103.31	0.224	0.037	08-02-2018	17	17	28	21	3
TAMIL NADU											
86	LOWER BHAWANI	278.89	263.74	0.792	0.127	08-02-2018	16	10	42	105	8
*87	METTUR(STANLEY)	240.79	217.43	2.647	0.403	08-02-2018	15	10	38	122	360
88	VAIGAI	279.20	269.51	0.172	0.172	08-02-2018	100	3	28	61	6
89	PARAMBIKULAM	556.26	539.37	0.380	0.069	08-02-2018	18	10	57	101	-
90	ALIYAR	320.04	299.86	0.095	0.000	08-02-2018	0	3	46	#	60
*91	SHOLAYAR	1002.79	959.67	0.143	0.000	08-02-2018	0	0	10	-	95
TOTAL FOR 91 RESERVOIRS				161.993	66.731						
PERCENTAGE							41	46	45		

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.