

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 08.03.2018)

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 **08.03.2018**, live storage available in these reservoirs is **54.394 BCM**, which is **34%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **61.208 BCM** and the average of last 10 years live storage was **60.052 BCM**. Thus, the live storage available in 91 reservoirs **as per 08.03.2018 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 **08.03.2018**, the total live storage available in these reservoirs is **5.16 BCM** which is **29%** 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 **32%** 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 **08.03.2018**, the total live storage available in these reservoirs is **10.39 BCM** which is **55%** 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 **51%** 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 **08.03.2018**, the total live storage available in these reservoirs is **11.51 BCM** which is **37%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **44%** 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 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 **08.03.2018**, the total live storage available in these reservoirs is **14.56 BCM** which is **34%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **52%** and average storage of last ten years during corresponding period was **37%** 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 **08.03.2018**, the total live storage available in these reservoirs is **12.77 BCM** which is **25%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **18%** and average storage of last ten years during corresponding period was **32%** 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 Mahi, Mahanadi & Neighbouring East Flowing Rivers, Rivers of Kutch and West Flowing Rivers of South. Close to Normal in Ganga, Indus, Narmada Godavari and Krishna. Deficient in, Tapi Sabarmati, 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 **50** 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 **2** 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 **18**.

Disclaimer: The Data contained in this Bulletin is as received from the State Government/Project Authorities.

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 08.03.2018

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	481.76	6.229	2.053	08-03-2018	33	20	34	676	1200
*2	PONG DAM	423.67	399.61	6.157	1.382	07-03-2018	22	22	29	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	495.75	2.344	0.469	08-03-2018	20	37	31	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	272.60	1.711	0.823	08-03-2018	48	55	36	63	140
5	JHAKAM	359.50	347.40	0.132	0.041	08-03-2018	31	32	20	28	-
*6	RANA PRATAP SAGAR	352.81	346.63	1.436	0.387	07-03-2018	27	23	32	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	258.99	0.821	0.377	08-03-2018	46	49	40	-	-
8	MAITHON	146.3	147.80	0.471	0.471	08-03-2018	100	100	71	342	-
*9	PANCHET HILL	124.97	123.92	0.184	0.135	08-03-2018	73	100	74	\$	80
10	KONAR	425.81	418.58	0.176	0.065	08-03-2018	37	47	57	\$	-
11	TILAIYA	368.81	364.63	0.142	0.022	08-03-2018	15	33	31	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	189.00	5.378	3.024	08-03-2018	56	59	56	153	307
*13	BALIMELA	462.08	444.46	2.676	0.418	08-03-2018	16	61	48	-	360
14	SALANADI	82.30	70.69	0.558	0.231	22-02-2018	41	31	32	42	-
*15	RENGALI	123.50	121.49	3.432	2.783	08-03-2018	81	82	55	3	200
*16	MACHKUND(JALPUT)	838.16	836.01	0.893	0.710	08-03-2018	80	47	61	-	115
*17	UPPER KOLAB	858.00	851.75	0.935	0.407	08-03-2018	44	66	49	89	320
*18	UPPER INDRAVATI	642.00	633.82	1.456	0.649	08-03-2018	45	61	49	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	117.97	0.480	0.328	08-03-2018	68	37	34	227	-
20	KANGSABATI	134.14	129.81	0.914	0.566	08-03-2018	62	31	28	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	91.15	0.312	0.205	06-03-2018	66	46	21	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	94.48	6.615	1.944	07-03-2018	29	65	52	348	300
23	SABARMATI(DHAROI)	189.59	181.99	0.735	0.172	08-03-2018	23	41	30	95	1
*24	KADANA	127.7	122.18	1.472	0.687	08-03-2018	47	56	55	200	120
25	SHETRUNJI	55.53	50.97	0.300	0.072	08-03-2018	24	36	39	36	-
26	BHADAR	107.89	103.60	0.188	0.053	08-03-2018	28	5	26	27	-
27	DAMANAGANGA	79.86	76.00	0.502	0.313	07-03-2018	62	52	60	51	1
28	DANTIWADA	184.1	176.81	0.399	0.170	08-03-2018	43	1	8	45	-
29	PANAM	127.41	124.40	0.697	0.369	08-03-2018	53	48	49	36	2
*30	SARDAR SAROVAR	138.68	107.42	5.760	0.000	07-03-2018	0	19	17	2120	1450
31	KARJAN	115.25	108.52	0.523	0.336	07-03-2018	64	48	61	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 08.03.2018

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	461.57	2.171	1.348	08-03-2018	62	49	27	227	-
*33	KOYANA	657.90	650.82	2.652	1.971	07-03-2018	74	47	62	-	1920
34	BHIMA(UJJANI)	496.83	495.55	1.517	1.110	08-03-2018	73	46	42	125	12
35	ISAPUR	441.00	426.95	0.965	0.049	07-03-2018	5	32	39	104	-
36	MULA	552.30	547.78	0.609	0.391	07-03-2018	64	50	42	139	-
37	YELDARI	461.77	449.05	0.809	0.037	08-03-2018	5	15	23	78	-
38	GIRNA	398.07	388.47	0.524	0.152	07-03-2018	29	40	23	79	-
39	KHADAKVASLA	582.47	581.68	0.056	0.045	07-03-2018	80	75	50	78	8
*40	UPPER VAITARNA	603.50	598.87	0.331	0.188	07-03-2018	57	64	63	-	61
41	UPPER TAPI	214.00	211.40	0.255	0.120	07-03-2018	47	61	63	45	-
*42	PENCH (TOTALADOH)	490.00	472.76	1.091	0.160	07-03-2018	15	17	34	127	160
43	UPPER WARDHA	342.50	338.72	0.564	0.276	08-03-2018	49	49	42	70	-
44	BHATSA	142.07	126.32	0.942	0.567	07-03-2018	60	61	55	29.378	15
45	DHOM	747.70	740.25	0.331	0.180	07-03-2018	54	32	40	36.2	2
46	DUDHGANGA	646.00	637.73	0.664	0.421	07-03-2018	63	61	58	2.441	24
47	MANIKDOH (KUKADI)	711.25	701.64	0.288	0.140	07-03-2018	49	13	18	2.2	6
48	BHANDARDARA	744.91	741.39	0.304	0.241	07-03-2018	79	68	56	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	302.67	0.707	0.141	07-03-2018	20	34	39	-	30
*50	RIHAND	268.22	257.71	5.649	1.396	08-03-2018	25	51	29	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	337.11	2.196	0.599	08-03-2018	27	24	46	1897	198
*52	TEHRI	830.00	779.80	2.615	0.886	06-03-2018	34	31	38	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	389.32	6.827	1.780	08-03-2018	26	66	32	220	115
54	TAWA	355.40	338.36	1.944	0.184	08-03-2018	9	25	27	247	-
*55	BARGI	422.76	418.60	3.180	2.082	08-03-2018	65	50	48	157	90
*56	BANSAGAR	341.64	335.49	5.166	2.672	08-03-2018	52	69	43	488	425
*57	INDIRA SAGAR	262.13	251.42	9.745	2.574	08-03-2018	26	45	32	2380	1000
58	BARNA	348.55	340.01	0.456	0.045	08-03-2018	10	36	23	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	352.73	3.046	1.806	08-03-2018	59	67	58	-	120
60	MAHANADI	348.70	344.27	0.767	0.399	08-03-2018	52	75	59	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	255.36	8.288	1.562	08-03-2018	19	13	30	0	770
*62	NAGARJUNA SAGAR	179.83	158.68	6.841	0.530	08-03-2018	8	2	19	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	87.29	1.994	0.493	08-03-2018	25	24	51	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	324.92	2.300	0.620	08-03-2018	27	44	25	411	27
65	LOWER MANAIR	280.42	273.03	0.621	0.235	08-03-2018	38	49	43	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 08.03.2018

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	741.51	1.163	0.306	08-03-2018	26	17	42	79	-
*67	TUNGABHADRA	497.74	483.86	3.276	0.229	08-03-2018	7	4	16	529	72
68	GHATAPRABHA	662.95	644.81	1.391	0.376	08-03-2018	27	18	18	317	-
69	BHADRA	657.76	646.01	1.785	0.674	08-03-2018	38	19	56	106	39
70	LINGANAMAKKI	554.43	541.90	4.294	1.451	08-03-2018	34	30	43	-	55
71	NARAYANPUR	492.25	488.60	0.863	0.340	08-03-2018	39	42	58	425	-
72	MALAPRABHA(RENUKA)	633.83	623.06	0.972	0.108	08-03-2018	11	9	13	215	-
73	KABINI(Sancherla Tank)	696.16	690.30	0.444	0.153	08-03-2018	34	4	26	85	-
74	HEMAVATHY	890.63	875.38	0.927	0.156	08-03-2018	17	7	19	265	-
75	HARANGI	871.42	857.83	0.220	0.049	08-03-2018	22	17	15	53	-
76	SUPA	564.00	542.98	4.120	1.984	08-03-2018	48	44	41	-	-
77	VANIVILAS SAGAR	652.28	631.91	0.802	0.013	08-03-2018	2	3	15	123	-
*78	ALMATTI	519.60	511.71	3.105	0.762	08-03-2018	25	6	17	@	290
*79	GERUSOPPA	55.00	51.37	0.130	0.109	08-03-2018	84	83	81	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	113.92	0.507	0.445	08-03-2018	88	30	57	62	-
*81	IDAMALAYAR	169.00	149.90	1.018	0.513	08-03-2018	50	43	46	33	75
*82	IDUKKI	732.43	717.75	1.460	0.729	08-03-2018	50	30	44	-	780
*83	KAKKI	981.46	973.63	0.447	0.326	08-03-2018	73	45	60	23	300
*84	PERIYAR	867.41	860.17	0.173	0.028	08-03-2018	16	5	19	84	140
85	MALAPMUZHA	115.06	102.98	0.224	0.035	08-03-2018	16	13	23	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	263.78	0.792	0.128	08-03-2018	16	9	34	105	8
*87	METTUR(STANLEY)	240.79	216.73	2.647	0.357	08-03-2018	13	8	35	122	360
88	VAIGAI	279.20	267.67	0.172	0.014	08-03-2018	8	3	22	61	6
89	PARAMBIKULAM	556.26	537.61	0.380	0.043	08-03-2018	11	7	44	101	-
90	ALIYAR	320.04	302.12	0.095	0.004	08-03-2018	4	7	42	#	60
*91	SHOLAYAR	1002.79	955.17	0.143	0.000	08-03-2018	0	0	5	-	95
TOTAL FOR 91 RESERVOIRS				161.993	54.394						
PERCENTAGE							34	38	37		

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.

WEEKLY REPORT - BASINWISE

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 08.03.2018

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	10.030	35.70%	14.680	52.25%	10.259	36.51%	-2.23
INDUS	14.730	3.904	26.50%	3.430	23.29%	4.644	31.53%	-15.93
NARMADA	21.608	5.221	24.16%	8.013	37.08%	6.508	30.12%	-19.78
TAPI	7.394	2.216	29.97%	4.675	63.23%	3.696	49.99%	-40.04
MAHI	4.012	1.920	47.86%	2.145	53.46%	1.804	44.97%	6.43
SABARMATI	0.735	0.172	23.40%	0.304	41.36%	0.219	29.80%	-21.46
RIVERS OF KUTCH	0.887	0.295	33.26%	0.120	13.53%	0.199	22.44%	48.24
GODAVARI	15.394	5.541	35.99%	7.358	47.80%	6.039	39.23%	-8.25
KRISHNA	32.831	8.461	25.77%	5.049	15.38%	9.662	29.43%	-12.43
MAHANADI & NEIGHBOURING EFRS	13.181	8.243	62.54%	8.795	66.72%	7.308	55.44%	12.79
CAUVERY& NEIGHBOURING EFRS	8.359	1.656	19.81%	1.091	13.05%	3.057	36.57%	-45.83
WEST FLOWING RIVERS OF SOUTH	14.766	6.735	45.61%	5.548	37.57%	6.657	45.08%	1.17
TOTAL	161.993	54.394		61.208		60.052		
PERCENTAGE								-9.42

STORAGE STATUS OF IMPORTANT RESERVOIRS IN THE COUNTRY

AS ON 08.03.2018

- 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 **08.03.2018** is **54.394** BCM (**34** 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	5	H.P.	-12 %	
									PUNJAB	-36 %	
									RAJASTHAN	13 %	
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	1	-	1	2	3	1	4	3	JHARKHAND	13 %	
									ODISHA	2 %	
									W. BENGAL	110 %	
									TRIPURA	215 %	
WEST (Guj.& Mah.), (27 Resv.)	-	-	-	4	5	4	5	9	GUJARAT	-38 %	
									MAH.	22 %	
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	1	3	-	8	U.P.	-20 %	
									UTTARAKHAND	-25 %	
									M.P.	-3 %	
									CHHATISGARH	-1 %	
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	2	1	-	-	3	25	AP&TG	-44 %	
									A,P	-51 %	
									TG	2 %	
									KARNATAKA	-11 %	
									KERALA	18 %	
									T.N.	-62 %	
Status of 91 reservoirs	1	0	3	7	9	8	13	50			

4 Basin wise storage position:

Better than normal: Mahi, Mahanadi & Neighbouring EFRS, Rivers of Kutch and West Flowing Rivers of South . . .

Close to normal: Ganga,Indus,Narmada,Godavari,Krishna

Deficient: Tapi , Sabarmati and Cauvery & neighbouring EFRS.

Highly deficient: NIL

- Out of 91 reservoirs, **58** reservoirs reported more than 80% of normal storage & **33** reservoirs reported 80% or below of normal storage. Out of these **33** reservoirs **18** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0	TILAIYA	50
SARDAR SAROVAR	0		
ALIYAR	10		
VANIVILAS SAGAR	11		
ISAPUR	13		
YELDARI	20		
PARAMBIKULAM	25		
BALIMELA	32		
TAWA	36		
VAIGAI	37		
METTUR(STANLEY)	38		
NAGARJUNA SAGAR	42		
PENCH (TOTALADOH)	43		
BARNA	43		
TUNGABHADRA	44		
LOWER BHAWANI	47		
SOMASILA	49		

15 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
3	8	4

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

24 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