

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 01.03.2018)

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 **01.03.2018**, live storage available in these reservoirs is **57.684 BCM**, which is **36%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **64.907 BCM** and the average of last 10 years live storage was **63.473 BCM**. Thus, the live storage available in 91 reservoirs **as per 01.03.2018 Bulletin** is **89%** of the live storage of corresponding period of last year and **91%** of storage of average of last ten years.

As per Table-01, 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 **01.03.2018**, the total live storage available in these reservoirs is **5.64 BCM** which is **31%** 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 **34%** 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 **01.03.2018**, the total live storage available in these reservoirs is **10.83 BCM** which is **57%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **64%** 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 **01.03.2018**, the total live storage available in these reservoirs is **12.05 BCM** which is **39%** 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 **42%** 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 **01.03.2018**, the total live storage available in these reservoirs is **15.24 BCM** which is **36%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **54%** 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.

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 **01.03.2018**, the total live storage available in these reservoirs is **13.94 BCM** which is **27%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **20%** and average storage of last ten years during corresponding period was **34%** 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 and Rivers of Kutch. Close to Normal in Ganga, 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 **47** 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.

STORAGE STATUS OF IMPORTANT RESERVOIRS IN THE COUNTRY

AS ON 01.03.2018

- 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 01.03.2018 is 57.684 BCM (36 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 (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	-	5	H.P.	-9 %
									PUNJAB	-34 %
									RAJASTHAN	8 %
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	1	1	2	1	2	1	4	3	JHARKHAND	15 %
									ODISHA	6 %
									W. BENGAL	115 %
									TRIPURA	200 %
WEST (Guj.& Mah.), (27 Resv.)	-	-	1	3	7	4	3	9	GUJARAT	-37 %
									MAH.	21 %
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	1	3	-	8	U.P.	-17 %
									UTTARAKHAND	-29 %
									M.P.	-6 %
									CHHATISGARH	-3 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	2	1	-	2	4	22	AP&TG	-42 %
									A,P	-48 %
									TG	0 %
									KARNATAKA	-10 %
									KERALA	17 %
									T.N.	-62 %
Status of 91 reservoirs	1	1	5	5	10	11	11	47		

4 Basin wise storage position:

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

Close to normal: Ganga,Indus,Sabarmati,Godavari,Krishna and West Flowing Rivers of South .

Deficient: Narmada , Tapi 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	NAGARJUNA SAGAR	50
SARDAR SAROVAR	0		
VANIVILAS SAGAR	10		
ALIYAR	10		
ISAPUR	13		
YELDARI	19		
PARAMBIKULAM	28		
TAWA	33		
BALIMELA	37		
METTUR(STANLEY)	39		
VAIGAI	40		
BARNA	41		
PENCH (TOTALADOH)	42		
TILAIYA	43		
LOWER BHAWANI	44		
MATATILA	46		
TUNGABHADRA	48		

15 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
3	7	5

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

23 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 :- 01.03.2018

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	10.750	38.26%	15.349	54.63%	11.109	39.54%	-3.23
INDUS	14.730	4.343	29.48%	3.833	26.02%	4.980	33.81%	-12.79
NARMADA	21.608	5.273	24.40%	8.543	39.54%	6.844	31.67%	-22.95
TAPI	7.394	2.375	32.12%	4.914	66.46%	3.872	52.37%	-38.66
MAHI	4.012	1.990	49.60%	2.237	55.76%	1.877	46.78%	6.02
SABARMATI	0.735	0.192	26.12%	0.331	45.03%	0.239	32.52%	-19.67
RIVERS OF KUTCH	0.887	0.317	35.74%	0.123	13.87%	0.214	24.13%	48.13
GODAVARI	15.394	5.810	37.74%	7.831	50.87%	6.176	40.12%	-5.93
KRISHNA	32.831	9.317	28.38%	5.671	17.27%	10.450	31.83%	-10.84
MAHANADI & NEIGHBOURING EFRS	13.181	8.483	64.36%	9.084	68.92%	7.363	55.86%	15.21
CAUVERY& NEIGHBOURING EFRS	8.359	1.773	21.21%	1.187	14.20%	3.208	38.38%	-44.73
WEST FLOWING RIVERS OF SOUTH	14.766	7.061	47.82%	5.804	39.31%	7.141	48.36%	-1.12
TOTAL	161.993	57.684		64.907		63.473		
PERCENTAGE								-9.12

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 01.03.2018

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	484.11	6.229	2.287	01-03-2018	37	23	37	676	1200
*2	PONG DAM	423.67	401.09	6.157	1.587	28-02-2018	26	25	31	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	495.86	2.344	0.469	01-03-2018	20	37	30	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	273.15	1.711	0.865	01-03-2018	51	58	40	63	140
5	JHAKAM	359.50	347.90	0.132	0.044	01-03-2018	33	36	23	28	-
*6	RANA PRATAP SAGAR	352.81	346.62	1.436	0.385	28-02-2018	27	25	34	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	259.13	0.821	0.383	28-02-2018	47	50	43	-	-
8	MAITHON	146.3	147.96	0.471	0.471	28-02-2018	100	100	71	342	-
*9	PANCHET HILL	124.97	124.84	0.184	0.178	28-02-2018	97	100	71	\$	80
10	KONAR	425.81	419.10	0.176	0.071	28-02-2018	40	51	62	\$	-
11	TILAIYA	368.81	364.67	0.142	0.023	28-02-2018	16	35	38	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	189.31	5.378	3.190	28-02-2018	59	63	58	153	307
*13	BALIMELA	462.08	444.70	2.676	0.439	01-03-2018	16	64	44	-	360
14	SALANADI	82.30	70.69	0.558	0.231	22-02-2018	41	31	32	42	-
*15	RENGALI	123.50	121.67	3.432	2.833	01-03-2018	83	83	51	3	200
*16	MACHKUND(JALPUT)	838.16	836.48	0.893	0.744	01-03-2018	83	50	62	-	115
*17	UPPER KOLAB	858.00	852.03	0.935	0.428	01-03-2018	46	69	47	89	320
*18	UPPER INDRAVATI	642.00	634.12	1.456	0.674	28-02-2018	46	64	55	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	118.89	0.480	0.377	28-02-2018	79	38	35	227	-
20	KANGSABATI	134.14	129.86	0.914	0.570	28-02-2018	62	36	30	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	91.35	0.312	0.213	27-02-2018	68	48	23	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	94.88	6.615	2.080	27-02-2018	31	68	54	348	300
23	SABARMATI(DHAROI)	189.59	182.42	0.735	0.192	01-03-2018	26	45	33	95	1
*24	KADANA	127.7	122.35	1.472	0.701	01-03-2018	48	58	56	200	120
25	SHETRUNJI	55.53	51.67	0.300	0.091	01-03-2018	30	36	42	36	-
26	BHADAR	107.89	103.42	0.188	0.049	01-03-2018	26	5	27	27	-
27	DAMANAGANGA	79.86	76.40	0.502	0.328	27-02-2018	65	55	63	51	1
28	DANTIWADA	184.1	177.10	0.399	0.177	01-03-2018	44	1	9	45	-
29	PANAM	127.41	124.60	0.697	0.380	01-03-2018	55	49	51	36	2
*30	SARDAR SAROVAR	138.68	109.22	5.760	0.000	27-02-2018	0	22	18	2120	1450
31	KARJAN	115.25	109.22	0.523	0.345	27-02-2018	66	50	63	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 01.03.2018

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	461.77	2.171	1.408	01-03-2018	65	52	28	227	-
*33	KOYANA	657.90	651.35	2.652	2.030	28-02-2018	77	50	64	-	1920
34	BHIMA(UJJANI)	496.83	495.68	1.517	1.150	27-02-2018	76	57	45	125	12
35	ISAPUR	441.00	427.02	0.965	0.051	28-02-2018	5	33	40	104	-
36	MULA	552.30	548.57	0.609	0.426	28-02-2018	70	56	45	139	-
37	YELDARI	461.77	449.08	0.809	0.038	01-03-2018	5	18	25	78	-
38	GIRNA	398.07	388.62	0.524	0.156	28-02-2018	30	45	25	79	-
39	KHADAKVASLA	582.47	581.35	0.056	0.041	28-02-2018	73	61	48	78	8
*40	UPPER VAITARNA	603.50	599.30	0.331	0.201	28-02-2018	61	67	66	-	61
41	UPPER TAPI	214.00	211.81	0.255	0.139	28-02-2018	55	62	65	45	-
*42	PENCH (TOTALADOH)	490.00	472.86	1.091	0.163	28-02-2018	15	18	36	127	160
43	UPPER WARDHA	342.50	338.80	0.564	0.281	01-03-2018	50	51	43	70	-
44	BHATSA	142.07	127.28	0.942	0.587	28-02-2018	62	63	58	29.378	15
45	DHOM	747.70	740.40	0.331	0.183	28-02-2018	55	31	38	36.2	2
46	DUDHGANGA	646.00	638.52	0.664	0.443	28-02-2018	67	64	61	2.441	24
47	MANIKDOH (KUKADI)	711.25	703.05	0.288	0.159	28-02-2018	55	17	20	2.2	6
48	BHANDARDARA	744.91	741.80	0.304	0.247	28-02-2018	81	73	59	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	302.42	0.707	0.127	28-02-2018	18	38	39	-	30
*50	RIHAND	268.22	258.14	5.649	1.541	28-02-2018	27	52	31	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	338.65	2.196	0.659	28-02-2018	30	28	56	1897	198
*52	TEHRI	830.00	783.90	2.615	0.999	26-02-2018	38	36	42	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	390.08	6.827	2.081	01-03-2018	30	68	35	220	115
54	TAWA	355.40	338.36	1.944	0.184	01-03-2018	9	28	29	247	-
*55	BARGI	422.76	418.65	3.180	2.093	01-03-2018	66	51	50	157	90
*56	BANSAGAR	341.64	335.49	5.166	2.672	01-03-2018	52	71	46	488	425
*57	INDIRA SAGAR	262.13	251.49	9.745	2.603	01-03-2018	27	48	33	2380	1000
58	BARNA	348.55	340.10	0.456	0.048	01-03-2018	11	41	26	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	352.82	3.046	1.818	28-02-2018	60	68	59	-	120
60	MAHANADI	348.70	344.45	0.767	0.411	21-02-2018	54	82	65	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	256.37	8.288	1.700	01-03-2018	21	14	33	0	770
*62	NAGARJUNA SAGAR	179.83	159.47	6.841	0.666	01-03-2018	10	1	19	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	87.96	1.994	0.541	01-03-2018	27	27	52	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	325.25	2.300	0.673	01-03-2018	29	49	27	411	27
65	LOWER MANAIR	280.42	273.10	0.621	0.238	01-03-2018	38	57	46	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 01.03.2018

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
KARNATAKA											
66	KRISHNARAJA SAGRA	752.50	741.89	1.163	0.327	28-02-2018	28	17	45	79	-
*67	TUNGABHADRA	497.74	484.83	3.276	0.292	01-03-2018	9	4	19	529	72
68	GHATAPRABHA	662.95	646.47	1.391	0.442	28-02-2018	32	18	20	317	-
69	BHADRA	657.76	647.01	1.785	0.747	28-02-2018	42	20	60	106	39
70	LINGANAMAKKI	554.43	542.53	4.294	1.543	28-02-2018	36	32	47	-	55
71	NARAYANPUR	492.25	488.84	0.863	0.362	01-03-2018	42	58	63	425	-
72	MALAPRABHA(RENUKA)	633.83	623.24	0.972	0.115	28-02-2018	12	12	14	215	-
73	KABINI(Sancherla Tank)	696.16	690.99	0.444	0.182	28-02-2018	41	7	30	85	-
74	HEMAVATHY	890.63	875.62	0.927	0.163	28-02-2018	18	7	21	265	-
75	HARANGI	871.42	857.90	0.220	0.050	28-02-2018	23	17	15	53	-
76	SUPA	564.00	543.70	4.120	2.040	28-02-2018	50	45	45	-	-
77	VANIVILAS SAGAR	652.28	631.97	0.802	0.013	27-02-2018	2	3	16	123	-
*78	ALMATTI	519.60	512.88	3.105	0.974	01-03-2018	31	8	19	@	290
*79	GERUSOPPA	55.00	52.56	0.130	0.116	01-03-2018	89	84	77	83	240
KERALA											
80	KALLADA(PARAPPAR)	115.82	114.54	0.507	0.457	28-02-2018	90	33	61	62	-
*81	IDAMALAYAR	169.00	151.82	1.018	0.558	28-02-2018	55	45	49	33	75
*82	IDUKKI	732.43	718.81	1.460	0.771	28-02-2018	53	32	47	-	780
*83	KAKKI	981.46	974.80	0.447	0.341	28-02-2018	76	47	63	23	300
*84	PERIYAR	867.41	860.17	0.173	0.028	28-02-2018	16	5	21	84	140
85	MALAPMUZHA	115.06	103.08	0.224	0.035	28-02-2018	16	16	23	21	3
TAMIL NADU											
86	LOWER BHAWANI	278.89	263.76	0.792	0.128	28-02-2018	16	9	37	105	8
*87	METTUR(STANLEY)	240.79	216.89	2.647	0.366	28-02-2018	14	9	36	122	360
88	VAIGAI	279.20	268.01	0.172	0.016	28-02-2018	9	3	23	61	6
89	PARAMBIKULAM	556.26	538.22	0.380	0.052	28-02-2018	14	7	48	101	-
90	ALIYAR	320.04	302.19	0.095	0.004	28-02-2018	4	6	42	#	60
*91	SHOLAYAR	1002.79	955.03	0.143	0.000	28-02-2018	0	0	5	-	95
TOTAL FOR 91 RESERVOIRS				161.993	57.684						
PERCENTAGE							36	40	39		

* 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.

Sd/-

Director

W. M. , CWC