

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 18.01.2018)

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 **18.01.2018**, live storage available in these reservoirs is **76.694 BCM**, which is **47%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **83.258 BCM** and the average of last 10 years live storage was **83.005 BCM**. Thus, the live storage available in 91 reservoirs **as per 18.01.2018 Bulletin** is **92%** of the live storage of corresponding period of last year and **92%** 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 **18.01.2018**, the total live storage available in these reservoirs is **8.39 BCM** which is **47%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **41%** and average storage of last ten years during corresponding period was **47%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the corresponding period of last year and is equal to 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 **18.01.2018**, the total live storage available in these reservoirs is **12.91 BCM** which is **69%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **74%** and average storage of last ten years during corresponding period was **62%** 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 **18.01.2018**, the total live storage available in these reservoirs is **15.39 BCM** which is **49%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **56%** 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 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 **18.01.2018**, the total live storage available in these reservoirs is **19.03 BCM** which is **45%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **68%** 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 **18.01.2018**, the total live storage available in these reservoirs is **20.98 BCM** which is **41%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **30%** 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 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 **49** and reservoirs having storage more than average of last ten years are **44**. The numbers of reservoirs having storage less than 20% with respect to last year is **1** and having storage less than 20% with reference to average of last ten years is **5**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **9** and having storage less than or equal to 50% with reference to average of last ten years are **10**.

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 18.01.2018

- 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 **18.01.2018** is **76.694** BCM (**47** percent of the live storage capacity at FRL).The current year's storage is nearly **92** percent of last year's storage and **92** 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	1	1	1	2	H.P.	1	%
									PUNJAB	-26	%
									RAJASTHAN	6	%
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	2	1	2	3	-	3	2	2	JHARKHAND	7	%
									ODISHA	4	%
									W. BENGAL	104	%
									TRIPURA	117	%
WEST (Guj.& Mah.), (27 Resv.)	-	2	2	8	5	1	4	5	GUJARAT	-28	%
									MAH.	16	%
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	1	1	3	3	4	U.P.	-2	%
									UTTARAKHAND	-12	%
									M.P.	-14	%
									CHHATISGARH	-8	%
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	1	2	-	5	3	6	14	AP&TG	-22	%
									A,P	-30	%
									TG	0	%
									KARNATAKA	-13	%
									KERALA	8	%
									T.N.	-48	%
Status of 91 reservoirs	2	4	6	13	12	11	16	27			

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, **62** reservoirs reported more than 80% of normal storage & **29** reservoirs reported 80% or below of normal storage. Out of these **29** reservoirs **10** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0		
VANIVILAS SAGAR	12		
ISAPUR	13		
ALIYAR	14		
YELDARI	16		
PENCH (TOTALADOH)	38		
MATATILA	41		
SARDAR SAROVAR	41		
PARAMBIKULAM	42		
TAWA	50		

19 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
5	8	6

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

21 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 :- 18.01.2018

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	13.896	49.46%	18.440	65.63%	13.448	47.86%	3.33
INDUS	14.730	6.712	45.57%	5.512	37.42%	6.875	46.67%	-2.37
NARMADA	21.608	6.759	31.28%	11.490	53.17%	9.529	44.10%	-29.07
TAPI	7.394	3.008	40.68%	5.651	76.43%	4.694	63.48%	-35.92
MAHI	4.012	2.607	64.98%	2.769	69.02%	2.325	57.95%	12.13
SABARMATI	0.735	0.300	40.82%	0.467	63.54%	0.345	46.94%	-13.04
RIVERS OF KUTCH	0.887	0.477	53.78%	0.184	20.74%	0.323	36.41%	47.68
GODAVARI	15.394	7.610	49.43%	10.112	65.69%	8.052	52.31%	-5.49
KRISHNA	32.831	14.546	44.31%	9.579	29.18%	15.481	47.15%	-6.04
MAHANADI & NEIGHBOURING EFRS	13.181	9.536	72.35%	10.231	77.62%	8.767	66.51%	8.77
CAUVERY & NEIGHBOURING EFRS	8.359	2.912	34.84%	1.743	20.85%	4.121	49.30%	-29.34
WEST FLOWING RIVERS OF SOUTH	14.766	8.331	56.42%	7.080	47.95%	9.045	61.26%	-7.89
TOTAL	161.993	76.694		83.258		83.005		
PERCENTAGE								-7.60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 18.01.2018

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	494.86	6.229	3.482	18-01-2018	56	38	55	676	1200
*2	PONG DAM	423.67	407.69	6.157	2.609	18-01-2018	42	38	42	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	499.98	2.344	0.621	18-01-2018	26	34	36	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	276.75	1.711	1.218	18-01-2018	71	75	56	63	140
5	JHAKAM	359.50	353.75	0.132	0.081	18-01-2018	61	64	45	28	-
*6	RANA PRATAP SAGAR	352.81	346.59	1.436	0.381	17-01-2018	27	33	39	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	259.67	0.821	0.404	18-01-2018	49	51	45	-	-
8	MAITHON	146.3	148.55	0.471	0.471	18-01-2018	100	100	86	342	-
*9	PANCHET HILL	124.97	127.78	0.184	0.184	18-01-2018	100	100	85	\$	80
10	KONAR	425.81	421.60	0.176	0.106	18-01-2018	60	87	72	\$	-
11	TILAIYA	368.81	366.17	0.142	0.057	18-01-2018	40	85	56	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	190.60	5.378	3.916	17-01-2018	73	78	75	153	307
*13	BALIMELA	462.08	449.49	2.676	0.890	18-01-2018	33	71	55	-	360
14	SALANADI	82.30	70.90	0.558	0.237	18-01-2018	42	33	29	42	-
*15	RENGALI	123.50	122.45	3.432	3.085	18-01-2018	90	88	61	3	200
*16	MACHKUND(JALPUT)	838.16	837.15	0.893	0.796	18-01-2018	89	67	75	-	115
*17	UPPER KOLAB	858.00	853.45	0.935	0.535	18-01-2018	57	81	57	89	320
*18	UPPER INDRAVATI	642.00	635.61	1.456	0.805	18-01-2018	55	76	65	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	120.38	0.480	0.454	18-01-2018	95	45	44	227	-
20	KANGSABATI	134.14	131.63	0.914	0.717	18-01-2018	78	50	40	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	92.20	0.312	0.249	17-01-2018	80	63	37	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	96.34	6.615	2.585	18-01-2018	39	77	65	348	300
23	SABARMATI(DHAROI)	189.59	184.37	0.735	0.300	18-01-2018	41	64	47	95	1
*24	KADANA	127.7	124.39	1.472	0.869	18-01-2018	59	68	61	200	120
25	SHETRUNJI	55.53	53.12	0.300	0.145	18-01-2018	48	52	60	36	-
26	BHADAR	107.89	104.99	0.188	0.086	18-01-2018	46	7	39	27	-
27	DAMANAGANGA	79.86	78.20	0.502	0.402	18-01-2018	80	73	76	51	1
28	DANTIWADA	184.1	179.53	0.399	0.246	18-01-2018	62	4	17	45	-
29	PANAM	127.41	125.65	0.697	0.439	18-01-2018	63	59	58	36	2
*30	SARDAR SAROVAR	138.68	115.01	5.760	0.505	18-01-2018	9	20	21	2120	1450
31	KARJAN	115.25	111.03	0.523	0.398	18-01-2018	76	57	73	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 18.01.2018

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	462.72	2.171	1.737	18-01-2018	80	65	38	227	-
*33	KOYANA	657.90	655.47	2.652	2.362	18-01-2018	89	66	77	-	1920
34	BHIMA(UJJANI)	496.83	496.79	1.517	1.502	18-01-2018	99	70	62	125	12
35	ISAPUR	441.00	427.37	0.965	0.065	18-01-2018	7	40	50	104	-
36	MULA	552.30	549.52	0.609	0.469	18-01-2018	77	76	59	139	-
37	YELDARI	461.77	449.29	0.809	0.043	18-01-2018	5	23	34	78	-
38	GIRNA	398.07	391.46	0.524	0.239	18-01-2018	46	68	36	79	-
39	KHADAKVASLA	582.47	581.41	0.056	0.042	18-01-2018	75	64	57	78	8
*40	UPPER VAITARNA	603.50	601.75	0.331	0.275	18-01-2018	83	84	77	-	61
41	UPPER TAPI	214.00	212.77	0.255	0.184	18-01-2018	72	77	81	45	-
*42	PENCH (TOTALADOH)	490.00	473.97	1.091	0.194	18-01-2018	18	28	47	127	160
43	UPPER WARDHA	342.50	340.10	0.564	0.369	18-01-2018	65	68	62	70	-
44	BHATSA	142.07	132.50	0.942	0.700	18-01-2018	74	74	70	29.378	15
45	DHOM	747.70	742.87	0.331	0.228	18-01-2018	69	64	59	36.2	2
46	DUDHGANGA	646.00	641.55	0.664	0.534	18-01-2018	80	77	75	2.441	24
47	MANIKDOH (KUKADI)	711.25	704.48	0.288	0.178	18-01-2018	62	40	34	2.2	6
48	BHANDARDARA	744.91	744.38	0.304	0.295	18-01-2018	97	92	72	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	302.72	0.707	0.145	17-01-2018	21	48	50	-	30
*50	RIHAND	268.22	260.12	5.649	2.288	18-01-2018	41	60	38	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	347.48	2.196	1.056	18-01-2018	48	39	59	1897	198
*52	TEHRI	830.00	800.95	2.615	1.517	18-01-2018	58	58	62	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	392.58	6.827	2.882	18-01-2018	42	80	44	220	115
54	TAWA	355.40	343.42	1.944	0.513	18-01-2018	26	56	53	247	-
*55	BARGI	422.76	419.50	3.180	2.310	18-01-2018	73	65	63	157	90
*56	BANSAGAR	341.64	336.37	5.166	2.985	18-01-2018	58	81	52	488	425
*57	INDIRA SAGAR	262.13	252.29	9.745	2.911	18-01-2018	30	68	48	2380	1000
58	BARNA	348.55	342.50	0.456	0.122	18-01-2018	27	63	45	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	353.23	3.046	1.875	18-01-2018	62	68	63	-	120
60	MAHANADI	348.70	344.61	0.767	0.423	18-01-2018	55	94	76	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	264.14	8.288	3.534	18-01-2018	43	32	51	0	770
*62	NAGARJUNA SAGAR	179.83	162.46	6.841	1.200	18-01-2018	18	4	28	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	92.52	1.994	0.947	18-01-2018	47	47	68	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	327.33	2.300	1.052	18-01-2018	46	80	45	411	27
65	LOWER MANAIR	280.42	275.68	0.621	0.360	18-01-2018	58	81	61	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 18.01.2018

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	745.22	1.163	0.542	18-01-2018	47	15	63	79	-
*67	TUNGABHADRA	497.74	489.86	3.276	0.852	18-01-2018	26	6	37	529	72
68	GHATAPRABHA	662.95	653.05	1.391	0.748	18-01-2018	54	42	39	317	-
69	BHADRA	657.76	651.86	1.785	1.158	18-01-2018	65	29	78	106	39
70	LINGANAMAKKI	554.43	545.18	4.294	1.998	18-01-2018	47	45	62	-	55
71	NARAYANPUR	492.25	490.71	0.863	0.553	18-01-2018	64	63	79	425	-
72	MALAPRABHA(RENUKA)	633.83	624.62	0.972	0.172	18-01-2018	18	16	30	215	-
73	KABINI(Sancherla Tank)	696.16	692.95	0.444	0.272	18-01-2018	61	20	37	85	-
74	HEMAVATHY	890.63	876.82	0.927	0.199	18-01-2018	21	11	26	265	-
75	HARANGI	871.42	859.43	0.220	0.063	18-01-2018	29	29	15	53	-
76	SUPA	564.00	545.22	4.120	2.165	18-01-2018	53	50	55	-	-
77	VANIVILAS SAGAR	652.28	632.23	0.802	0.017	18-01-2018	2	4	18	123	-
*78	ALMATTI	519.60	515.10	3.105	1.466	18-01-2018	47	30	42	@	290
*79	GERUSOPPA	55.00	52.28	0.130	0.114	18-01-2018	88	88	85	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	115.73	0.507	0.485	18-01-2018	96	40	75	62	-
*81	IDAMALAYAR	169.00	156.74	1.018	0.674	18-01-2018	66	56	62	33	75
*82	IDUKKI	732.43	722.00	1.460	0.917	18-01-2018	63	37	59	-	780
*83	KAKKI	981.46	977.10	0.447	0.374	18-01-2018	84	51	73	23	300
*84	PERIYAR	867.41	861.51	0.173	0.050	18-01-2018	29	6	40	84	140
85	MALAPMUZHA	115.06	106.09	0.224	0.065	18-01-2018	29	19	42	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	267.58	0.792	0.233	18-01-2018	29	11	47	105	8
*87	METTUR(STANLEY)	240.79	220.48	2.647	0.621	18-01-2018	23	10	43	122	360
88	VAIGAI	279.20	270.78	0.172	0.035	18-01-2018	20	4	40	61	6
89	PARAMBIKULAM	556.26	541.60	0.380	0.104	18-01-2018	27	13	66	101	-
90	ALIYAR	320.04	303.54	0.095	0.008	18-01-2018	8	1	60	#	60
*91	SHOLAYAR	1002.79	958.68	0.143	0.000	18-01-2018	0	0	24	-	95
TOTAL FOR 91 RESERVOIRS				161.993	76.694						
PERCENTAGE							47	51	51		

* 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