

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 04.01.2018)

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 **04.01.2018**, live storage available in these reservoirs is **84.241 BCM**, which is **52%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **89.201 BCM** and the average of last 10 years live storage was **89.798 BCM**. Thus, the live storage available in 91 reservoirs **as per 04.01.2018 Bulletin** is **94%** of the live storage of corresponding period of last year and **94%** 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 **04.01.2018**, the total live storage available in these reservoirs is **9.44 BCM** which is **52%** 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 **52%** 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 **04.01.2018**, the total live storage available in these reservoirs is **13.51 BCM** which is **72%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **78%** and average storage of last ten years during corresponding period was **67%** 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 **04.01.2018**, the total live storage available in these reservoirs is **16.69 BCM** which is **53%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **59%** and average storage of last ten years during corresponding period was **55%** 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 **04.01.2018**, the total live storage available in these reservoirs is **20.86 BCM** which is **49%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **72%** and average storage of last ten years during corresponding period was **55%** 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 **04.01.2018**, the total live storage available in these reservoirs is **23.74 BCM** which is **46%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **34%** and average storage of last ten years during corresponding period was **53%** 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 **51** and reservoirs having storage more than average of last ten years are **47**. 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 **4**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **4** and having storage less than or equal to 50% with reference to average of last ten years are **6**.

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 04.01.2018

- 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 **04.01.2018** is **84.241** BCM (**52** percent of the live storage capacity at FRL).The current year's storage is nearly **94** percent of last year's storage and **94** 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	-	1	2	H.P.	2 %
									PUNJAB	-17 %
									RAJASTHAN	2 %
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	2	2	3	2	-	3	2	1	JHARKHAND	9 %
									ODISHA	0 %
									W. BENGAL	118 %
									TRIPURA	100 %
WEST (Guj.& Mah.), (27 Resv.)	1	2	6	5	4	4	-	5	GUJARAT	-20 %
									MAH.	15 %
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	1	2	3	2	4	U.P.	8 %
									UTTARAKHAND	-9 %
									M.P.	-14 %
									CHHATISGARH	-8 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	2	1	1	6	5	2	14	AP&TG	-19 %
									A,P	-25 %
									TG	3 %
									KARNATAKA	-10 %
									KERALA	6 %
									T.N.	-46 %
Status of 91 reservoirs	3	6	10	10	14	15	7	26		

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

- 5 Out of 91 reservoirs, **61** reservoirs reported more than 80% of normal storage & **30** reservoirs reported 80% or below of normal storage. Out of these **30** reservoirs **6** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0		
VANIVILAS SAGAR	12		
YELDARI	15		
ISAPUR	20		
ALIYAR	28		
PENCH (TOTALADOH)	38		

24 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
7	6	11

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

19 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 :- 04.01.2018

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	15.353	54.64%	19.470	69.30%	14.381	51.19%	6.76
INDUS	14.730	7.625	51.77%	6.086	41.32%	7.662	52.02%	-0.48
NARMADA	21.608	7.680	35.54%	12.347	57.14%	10.463	48.42%	-26.60
TAPI	7.394	3.146	42.55%	5.765	77.97%	4.719	63.82%	-33.33
MAHI	4.012	2.817	70.21%	2.951	73.55%	2.467	61.49%	14.19
SABARMATI	0.735	0.375	51.02%	0.512	69.66%	0.376	51.16%	-0.27
RIVERS OF KUTCH	0.887	0.524	59.08%	0.215	24.24%	0.367	41.38%	42.78
GODAVARI	15.394	8.193	53.22%	10.843	70.44%	8.584	55.76%	-4.55
KRISHNA	32.831	16.616	50.61%	11.105	33.82%	17.173	52.31%	-3.24
MAHANADI & NEIGHBOURING EFRS	13.181	9.841	74.66%	10.631	80.65%	9.435	71.58%	4.30
CAUVERY & NEIGHBOURING EFRS	8.359	3.274	39.17%	1.874	22.42%	4.530	54.19%	-27.73
WEST FLOWING RIVERS OF SOUTH	14.766	8.797	59.58%	7.402	50.13%	9.641	65.29%	-8.75
TOTAL	161.993	84.241		89.201		89.798		
PERCENTAGE								-6.19

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 04.01.2018

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	498.07	6.229	3.897	04-01-2018	63	42	61	676	1200
*2	PONG DAM	423.67	409.57	6.157	2.940	04-01-2018	48	42	48	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	503.55	2.344	0.788	04-01-2018	34	36	40	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	277.90	1.711	1.345	04-01-2018	79	82	62	63	140
5	JHAKAM	359.50	354.45	0.132	0.087	04-01-2018	66	68	52	28	-
*6	RANA PRATAP SAGAR	352.81	346.60	1.436	0.383	03-01-2018	27	35	44	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	259.81	0.821	0.409	04-01-2018	50	52	46	-	-
8	MAITHON	146.3	148.76	0.471	0.471	04-01-2018	100	100	86	342	-
*9	PANCHET HILL	124.97	127.92	0.184	0.184	04-01-2018	100	100	84	\$	80
10	KONAR	425.81	422.93	0.176	0.126	04-01-2018	72	92	74	\$	-
11	TILAIYA	368.81	366.75	0.142	0.073	04-01-2018	51	96	67	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	191.00	5.378	4.176	03-01-2018	78	83	82	153	307
*13	BALIMELA	462.08	450.62	2.676	1.015	04-01-2018	38	75	57	-	360
14	SALANADI	82.30	71.11	0.558	0.240	04-01-2018	43	34	37	42	-
*15	RENGALI	123.50	122.48	3.432	3.095	04-01-2018	90	92	67	3	200
*16	MACHKUND(JALPUT)	838.16	837.36	0.893	0.815	04-01-2018	91	73	78	-	115
*17	UPPER KOLAB	858.00	853.76	0.935	0.558	04-01-2018	60	84	57	89	320
*18	UPPER INDRAVATI	642.00	635.90	1.456	0.833	03-01-2018	57	78	70	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	120.41	0.480	0.456	04-01-2018	95	45	43	227	-
20	KANGSABATI	134.14	132.53	0.914	0.805	04-01-2018	88	51	41	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	92.30	0.312	0.254	02-01-2018	81	68	41	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	96.55	6.615	2.661	02-01-2018	40	78	65	348	300
23	SABARMATI(DHAROI)	189.59	185.47	0.735	0.375	04-01-2018	51	70	51	95	1
*24	KADANA	127.7	125.05	1.472	0.928	04-01-2018	63	70	62	200	120
25	SHETRUNJI	55.53	53.27	0.300	0.152	04-01-2018	51	54	65	36	-
26	BHADAR	107.89	105.49	0.188	0.101	04-01-2018	54	8	46	27	-
27	DAMANAGANGA	79.86	78.80	0.502	0.429	02-01-2018	85	77	82	51	1
28	DANTIWADA	184.1	180.49	0.399	0.271	04-01-2018	68	9	22	45	-
29	PANAM	127.41	125.95	0.697	0.457	04-01-2018	66	60	61	36	2
*30	SARDAR SAROVAR	138.68	117.94	5.760	0.924	02-01-2018	16	18	21	2120	1450
31	KARJAN	115.25	111.62	0.523	0.414	02-01-2018	79	59	76	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 04.01.2018

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	462.88	2.171	1.791	03-01-2018	82	68	41	227	-
*33	KOYANA	657.90	656.54	2.652	2.489	03-01-2018	94	71	80	-	1920
34	BHIMA(UJJANI)	496.83	497.04	1.517	1.517	04-01-2018	100	79	66	125	12
35	ISAPUR	441.00	428.28	0.965	0.101	03-01-2018	10	41	52	104	-
36	MULA	552.30	550.77	0.609	0.529	03-01-2018	87	80	64	139	-
37	YELDARI	461.77	449.36	0.809	0.045	04-01-2018	6	27	36	78	-
38	GIRNA	398.07	392.52	0.524	0.275	03-01-2018	52	71	39	79	-
39	KHADAKVASLA	582.47	580.83	0.056	0.035	03-01-2018	63	54	59	78	8
*40	UPPER VAITARNA	603.50	602.50	0.331	0.299	03-01-2018	90	88	82	-	61
41	UPPER TAPI	214.00	213.23	0.255	0.210	03-01-2018	82	85	86	45	-
*42	PENCH (TOTALADOH)	490.00	474.61	1.091	0.213	03-01-2018	20	35	52	127	160
43	UPPER WARDHA	342.50	340.49	0.564	0.398	04-01-2018	71	73	67	70	-
44	BHATSA	142.07	134.29	0.942	0.742	03-01-2018	79	78	74	29.378	15
45	DHOM	747.70	744.12	0.331	0.253	03-01-2018	76	66	64	36.2	2
46	DUDHGANGA	646.00	642.63	0.664	0.568	03-01-2018	86	83	80	2.441	24
47	MANIKDOH (KUKADI)	711.25	707.09	0.288	0.217	03-01-2018	75	43	37	2.2	6
48	BHANDARDARA	744.91	744.45	0.304	0.297	03-01-2018	98	97	76	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	304.56	0.707	0.255	02-01-2018	36	51	55	-	30
*50	RIHAND	268.22	260.94	5.649	2.614	04-01-2018	46	62	40	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	350.40	2.196	1.199	04-01-2018	55	46	66	1897	198
*52	TEHRI	830.00	807.65	2.615	1.748	04-01-2018	67	66	68	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	393.51	6.827	3.262	04-01-2018	48	85	46	220	115
54	TAWA	355.40	345.83	1.944	0.718	04-01-2018	37	64	62	247	-
*55	BARGI	422.76	419.95	3.180	2.436	04-01-2018	77	70	67	157	90
*56	BANSAGAR	341.64	336.74	5.166	3.114	04-01-2018	60	82	55	488	425
*57	INDIRA SAGAR	262.13	252.56	9.745	3.036	04-01-2018	31	74	54	2380	1000
58	BARNA	348.55	343.32	0.456	0.152	04-01-2018	33	70	51	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	353.39	3.046	1.898	03-01-2018	62	69	63	-	120
60	MAHANADI	348.70	344.72	0.767	0.432	03-01-2018	56	98	77	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	265.08	8.288	3.876	03-01-2018	47	39	55	0	770
*62	NAGARJUNA SAGAR	179.83	164.74	6.841	1.634	03-01-2018	24	6	34	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	93.63	1.994	1.071	03-01-2018	54	52	71	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	327.97	2.300	1.195	04-01-2018	52	91	50	411	27
65	LOWER MANAIR	280.42	276.42	0.621	0.403	04-01-2018	65	84	63	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 04.01.2018

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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	745.90	1.163	0.594	03-01-2018	51	15	66	79	-
*67	TUNGABHADRA	497.74	491.59	3.276	1.160	04-01-2018	35	7	45	529	72
68	GHATAPRABHA	662.95	656.59	1.391	0.950	03-01-2018	68	53	48	317	-
69	BHADRA	657.76	652.97	1.785	1.266	03-01-2018	71	34	82	106	39
70	LINGANAMAKKI	554.43	545.91	4.294	2.137	04-01-2018	50	48	66	-	55
71	NARAYANPUR	492.25	490.97	0.863	0.582	03-01-2018	67	64	80	425	-
72	MALAPRABHA(RENUKA)	633.83	625.02	0.972	0.192	03-01-2018	20	19	37	215	-
73	KABINI(Sancherla Tank)	696.16	693.16	0.444	0.282	03-01-2018	64	23	32	85	-
74	HEMAVATHY	890.63	876.92	0.927	0.203	03-01-2018	22	11	30	265	-
75	HARANGI	871.42	859.20	0.220	0.061	03-01-2018	28	28	12	53	-
76	SUPA	564.00	545.93	4.120	2.225	04-01-2018	54	51	58	-	-
77	VANIVILAS SAGAR	652.28	632.32	0.802	0.018	04-01-2018	2	4	18	123	-
*78	ALMATTI	519.60	516.45	3.105	1.859	03-01-2018	60	37	49	@	290
*79	GERUSOPPA	55.00	53.01	0.130	0.118	04-01-2018	91	75	82	83	240
KERALA											
80	KALLADA(PARAPPAR)	115.82	115.56	0.507	0.481	03-01-2018	95	40	78	62	-
*81	IDAMALAYAR	169.00	158.18	1.018	0.710	03-01-2018	70	57	66	33	75
*82	IDUKKI	732.43	722.90	1.460	0.959	03-01-2018	66	38	62	-	780
*83	KAKKI	981.46	977.88	0.447	0.385	03-01-2018	86	53	76	23	300
*84	PERIYAR	867.41	862.36	0.173	0.064	03-01-2018	37	10	53	84	140
85	MALAPMUZHA	115.06	107.98	0.224	0.090	04-01-2018	40	27	54	21	3
TAMIL NADU											
86	LOWER BHAWANI	278.89	269.12	0.792	0.287	03-01-2018	36	12	53	105	8
*87	METTUR(STANLEY)	240.79	222.97	2.647	0.731	03-01-2018	28	11	52	122	360
88	VAIGAI	279.20	271.86	0.172	0.045	03-01-2018	26	3	48	61	6
89	PARAMBIKULAM	556.26	543.73	0.380	0.139	03-01-2018	37	17	70	101	-
90	ALIYAR	320.04	306.23	0.095	0.019	03-01-2018	20	4	72	#	60
*91	SHOLAYAR	1002.79	961.78	0.143	0.000	03-01-2018	0	0	41	-	95
TOTAL FOR 91 RESERVOIRS				161.993	84.241						
PERCENTAGE							52	55	55		

Sd/-

* HYDEL POWER CAPACITY HAVING CAPACITY MORE THAN 60MW

Director

\$ TOTAL CCA 342 TH. HA OF DVC SYSTEM

W. M. , CWC

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.