

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 05.04.2018)

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 **05.04.2018**, live storage available in these reservoirs is **42.973 BCM**, which is **27%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **50.420 BCM** and the average of last 10 years live storage was **47.559 BCM**. Thus, the live storage available in 91 reservoirs **as per 05.04.2018 Bulletin** is **85%** of the live storage of corresponding period of last year and **90%** 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 **05.04.2018**, the total live storage available in these reservoirs is **3.71 BCM** which is **21%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **23%** and average storage of last ten years during corresponding period was **26%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the corresponding period of last year and is also 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 **05.04.2018**, the total live storage available in these reservoirs is **8.35 BCM** which is **44%** 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 **38%** 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 **05.04.2018**, the total live storage available in these reservoirs is **9.29 BCM** which is **30%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **35%** 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 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 **05.04.2018**, the total live storage available in these reservoirs is **12.59 BCM** which is **30%** 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 **30%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the storage of last year but is equal to 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 **05.04.2018**, the total live storage available in these reservoirs is **9.04 BCM** which is **18%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **13%** and average storage of last ten years during corresponding period was **24%** 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, Rivers of Kutch and West Flowing Rivers of South. Close to Normal in Narmada, Sabarmati and Godavari. Deficient in Indus, Tapi, Krishna 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 **48** and reservoirs having storage more than average of last ten years are **43**. The numbers of reservoirs having storage less than 20% with respect to last year is **4** and having storage less than 20% with reference to average of last ten years is **7**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **15** and having storage less than or equal to 50% with reference to average of last ten years are **15**.

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 05.04.2018

- 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 **05.04.2018** is **42.973** BCM (**27** percent of the live storage capacity at FRL).The current year's storage is nearly **85** percent of last year's storage and **90** 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.)	-	-	-	-	-	-	-	6	H.P.	-33	%
									PUNJAB	-39	%
									RAJASTHAN	32	%
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	-	-	1	-	2	2	4	6	JHARKHAND	19	%
									ODISHA	9	%
									W. BENGAL	146	%
									TRIPURA	220	%
WEST (Guj.& Mah.), (27 Resv.)	-	-	-	-	2	4	8	13	GUJARAT	-35	%
									MAH.	15	%
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	1	1	2	8	U.P.	-24	%
									UTTARAKHAND	-32	%
									M.P.	7	%
									CHHATISGARH	5	%
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	1	1	1	-	2	26	AP&TG	-61	%
									A,P	-55	%
									TG	-25	%
									KARNATAKA	-9	%
									KERALA	22	%
									T.N.	-64	%
Status of 91 reservoirs	0	0	2	1	6	7	16	59			

4 Basin wise storage position:

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

Close to normal: Narmada, Sabarmati and Godavari, .

Deficient: Indus, Tapi, Krishna and Cauvery & neighbouring EFRS.

Highly deficient: NIL

- Out of 91 reservoirs, **51** reservoirs reported more than 80% of normal storage & **40** reservoirs reported 80% or below of normal storage. Out of these **40** reservoirs **15** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0		
SARDAR SAROVAR	0		
ALIYAR	0		
YELDARI	0		
ISAPUR	9		
VANIVILAS SAGAR	9		
PARAMBIKULAM	18		
NAGARJUNA SAGAR	22		
VAIGAI	32		
METTUR(STANLEY)	33		
TAWA	38		
PENCH (TOTALADOH)	42		
BALIMELA	45		
SOMASILA	45		
BHADRA	48		

25 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
9	11	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 :- 05.04.2018

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	8.225	29.27%	13.049	46.44%	8.204	29.20%	0.26
INDUS	14.730	2.482	16.85%	2.914	19.78%	3.760	25.53%	-33.99
NARMADA	21.608	4.802	22.22%	6.691	30.97%	5.241	24.25%	-8.38
TAPI	7.394	1.944	26.29%	3.895	52.68%	3.075	41.59%	-36.78
MAHI	4.012	1.716	42.77%	1.882	46.91%	1.620	40.38%	5.93
SABARMATI	0.735	0.138	18.78%	0.241	32.79%	0.172	23.40%	-19.77
RIVERS OF KUTCH	0.887	0.227	25.59%	0.072	8.12%	0.161	18.15%	40.99
GODAVARI	15.394	4.192	27.23%	5.570	36.18%	4.588	29.80%	-8.63
KRISHNA	32.831	5.339	16.26%	3.172	9.66%	6.851	20.87%	-22.07
MAHANADI & NEIGHBOURING EFRS	13.181	6.973	52.90%	7.781	59.03%	5.907	44.81%	18.05
CAUVERY& NEIGHBOURING EFRS	8.359	1.318	15.77%	0.823	9.85%	2.670	31.94%	-50.64
WEST FLOWING RIVERS OF SOUTH	14.766	5.617	38.04%	4.330	29.32%	5.310	35.96%	5.78
TOTAL	161.993	42.973		50.420		47.559		
PERCENTAGE								-9.64

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 05.04.2018

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	471.58	6.229	1.263	05-04-2018	20	13	24	676	1200
*2	PONG DAM	423.67	394.07	6.157	0.762	04-04-2018	12	17	24	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	495.68	2.344	0.457	05-04-2018	19	44	32	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	270.50	1.711	0.640	05-04-2018	37	41	28	63	140
5	JHAKAM	359.50	347.20	0.132	0.040	05-04-2018	30	30	17	28	-
*6	RANA PRATAP SAGAR	352.81	347.76	1.436	0.547	05-04-2018	38	31	30	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	258.39	0.821	0.356	05-04-2018	43	47	35	-	-
8	MAITHON	146.3	145.50	0.471	0.397	05-04-2018	84	89	50	342	-
*9	PANCHET HILL	124.97	121.74	0.184	0.055	05-04-2018	30	71	54	\$	80
10	KONAR	425.81	417.49	0.176	0.053	05-04-2018	30	33	48	\$	-
11	TILAIYA	368.81	364.48	0.142	0.019	05-04-2018	13	31	22	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	187.77	5.378	2.450	04-04-2018	46	48	43	153	307
*13	BALIMELA	462.08	444.00	2.676	0.379	04-04-2018	14	47	32	-	360
14	SALANADI	82.30	70.46	0.558	0.227	05-04-2018	41	30	19	42	-
*15	RENGALI	123.50	119.54	3.432	2.158	04-04-2018	63	77	42	3	200
*16	MACHKUND(JALPUT)	838.16	833.66	0.893	0.543	04-04-2018	61	37	51	-	115
*17	UPPER KOLAB	858.00	850.63	0.935	0.323	04-04-2018	35	55	37	89	320
*18	UPPER INDRAVATI	642.00	632.56	1.456	0.545	04-04-2018	37	50	39	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	116.02	0.480	0.246	05-04-2018	51	28	23	227	-
20	KANGSABATI	134.14	127.86	0.914	0.422	05-04-2018	46	31	18	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	90.50	0.312	0.179	03-04-2018	57	47	18	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	93.31	6.615	1.727	04-04-2018	26	54	43	348	300
23	SABARMATI(DHAROI)	189.59	181.18	0.735	0.138	05-04-2018	19	33	23	95	1
*24	KADANA	127.7	122.56	1.472	0.717	05-04-2018	49	58	54	200	120
25	SHETRUNJI	55.53	50.12	0.300	0.053	05-04-2018	18	20	33	36	-
26	BHADAR	107.89	103.20	0.188	0.045	05-04-2018	24	4	22	27	-
27	DAMANAGANGA	79.86	74.30	0.502	0.253	04-04-2018	50	39	48	51	1
28	DANTIWADA	184.1	175.08	0.399	0.129	05-04-2018	32	1	5	45	-
29	PANAM	127.41	123.40	0.697	0.319	05-04-2018	46	42	45	36	2
*30	SARDAR SAROVAR	138.68	105.34	5.760	0.000	04-04-2018	0	19	15	2120	1450
31	KARJAN	115.25	107.07	0.523	0.303	04-04-2018	58	43	54	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 05.04.2018

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	460.81	2.171	1.122	04-04-2018	52	40	22	227	-
*33	KOYANA	657.90	647.17	2.652	1.670	04-04-2018	63	34	52	-	1920
34	BHIMA(UJJANI)	496.83	493.53	1.517	0.554	05-04-2018	37	16	25	125	12
35	ISAPUR	441.00	426.42	0.965	0.029	03-04-2018	3	23	33	104	-
36	MULA	552.30	544.25	0.609	0.257	05-04-2018	42	34	33	139	-
37	YELDARI	461.77	447.74	0.809	0.000	04-04-2018	0	9	17	78	-
38	GIRNA	398.07	387.89	0.524	0.132	04-04-2018	25	35	19	79	-
39	KHADAKVASLA	582.47	580.77	0.056	0.034	04-04-2018	61	91	45	78	8
*40	UPPER VAITARNA	603.50	596.81	0.331	0.136	04-04-2018	41	47	53	-	61
41	UPPER TAPI	214.00	210.59	0.255	0.085	04-04-2018	33	44	52	45	-
*42	PENCH (TOTALADOH)	490.00	471.75	1.091	0.135	04-04-2018	12	13	29	127	160
43	UPPER WARDHA	342.50	338.17	0.564	0.243	05-04-2018	43	44	36	70	-
44	BHATSA	142.07	122.10	0.942	0.486	04-04-2018	52	53	47	29.378	15
45	DHOM	747.70	738.14	0.331	0.145	04-04-2018	44	37	34	36.2	2
46	DUDHGANGA	646.00	634.13	0.664	0.329	04-04-2018	50	45	46	2.441	24
47	MANIKDOH (KUKADI)	711.25	695.44	0.288	0.065	04-04-2018	23	7	10	2.2	6
48	BHANDARDARA	744.91	736.91	0.304	0.181	04-04-2018	60	51	43	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	303.31	0.707	0.180	04-04-2018	25	39	40	-	30
*50	RIHAND	268.22	256.79	5.649	1.085	05-04-2018	19	46	25	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	334.67	2.196	0.504	03-04-2018	23	20	39	1897	198
*52	TEHRI	830.00	764.90	2.615	0.510	02-04-2018	20	17	24	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	387.37	6.827	1.243	05-04-2018	18	59	26	220	115
54	TAWA	355.40	338.33	1.944	0.183	05-04-2018	9	24	25	247	-
*55	BARGI	422.76	417.95	3.180	1.939	05-04-2018	61	41	38	157	90
*56	BANSAGAR	341.64	334.74	5.166	2.429	05-04-2018	47	63	35	488	425
*57	INDIRA SAGAR	262.13	250.81	9.745	2.335	05-04-2018	24	35	24	2380	1000
58	BARNA	348.55	339.89	0.456	0.042	05-04-2018	9	32	16	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	352.44	3.046	1.766	05-04-2018	58	65	56	-	120
60	MAHANADI	348.70	343.83	0.767	0.372	05-04-2018	49	56	45	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	245.39	8.288	0.797	05-04-2018	10	9	19	0	770
*62	NAGARJUNA SAGAR	179.83	156.97	6.841	0.245	05-04-2018	4	0	16	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	85.72	1.994	0.393	05-04-2018	20	16	44	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	322.05	2.300	0.296	05-04-2018	13	27	16	411	27
65	LOWER MANAIR	280.42	270.28	0.621	0.139	05-04-2018	22	32	32	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	738.87	1.163	0.182	03-04-2018	16	12	30	79	-
*67	TUNGABHADRA	497.74	481.95	3.276	0.133	05-04-2018	4	3	6	529	72
68	GHATAPRABHA	662.95	643.32	1.391	0.326	05-04-2018	23	17	12	317	-
69	BHADRA	657.76	641.30	1.785	0.376	05-04-2018	21	9	43	106	39
70	LINGANAMAKKI	554.43	539.72	4.294	1.151	05-04-2018	27	19	32	-	55
71	NARAYANPUR	492.25	487.36	0.863	0.235	05-04-2018	27	20	37	425	-
72	MALAPRABHA(RENUKA)	633.83	621.12	0.972	0.047	05-04-2018	5	6	9	215	-
73	KABINI(Sancherla Tank)	696.16	689.16	0.444	0.110	03-04-2018	25	2	18	85	-
74	HEMAVATHY	890.63	874.21	0.927	0.129	03-04-2018	14	6	14	265	-
75	HARANGI	871.42	855.92	0.220	0.037	03-04-2018	17	16	15	53	-
76	SUPA	564.00	539.70	4.120	1.739	05-04-2018	42	36	33	-	-
77	VANIVILAS SAGAR	652.28	631.69	0.802	0.010	05-04-2018	1	3	14	123	-
*78	ALMATTI	519.60	509.01	3.105	0.373	05-04-2018	12	0	10	@	290
*79	GERUSOPPA	55.00	52.74	0.130	0.117	04-04-2018	90	89	82	83	240
KERALA											
80	KALLADA(PARAPPAR)	115.82	111.31	0.507	0.373	03-04-2018	74	24	43	62	-
*81	IDAMALAYAR	169.00	143.89	1.018	0.384	03-04-2018	38	35	36	33	75
*82	IDUKKI	732.43	714.88	1.460	0.612	03-04-2018	42	25	36	-	780
*83	KAKKI	981.46	970.33	0.447	0.284	03-04-2018	64	36	47	23	300
*84	PERIYAR	867.41	859.92	0.173	0.024	03-04-2018	14	8	22	84	140
85	MALAPMUZHA	115.06	102.72	0.224	0.033	05-04-2018	15	12	21	21	3
TAMIL NADU											
86	LOWER BHAWANI	278.89	264.73	0.792	0.151	03-04-2018	19	9	32	105	8
*87	METTUR(STANLEY)	240.79	215.55	2.647	0.302	03-04-2018	11	7	34	122	360
88	VAIGAI	279.20	267.52	0.172	0.014	03-04-2018	8	4	26	61	6
89	PARAMBIKULAM	556.26	536.36	0.380	0.025	03-04-2018	7	5	36	101	-
90	ALIYAR	320.04	299.88	0.095	0.000	03-04-2018	0	13	45	#	60
*91	SHOLAYAR	1002.79	958.04	0.143	0.000	03-04-2018	0	0	3	-	95
TOTAL FOR 91 RESERVOIRS				161.993	42.973						
PERCENTAGE							27	31	29		

Sd/-

Director

* HYDEL POWER CAPACITY HAVING CAPACITY MORE THAN 60MW

\$ 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.