

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 12.04.2018)

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 **12.04.2018**, live storage available in these reservoirs is **40.857 BCM**, which is **25%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **48.437 BCM** and the average of last 10 years live storage was **45.533 BCM**. Thus, the live storage available in 91 reservoirs **as per 12.04.2018 Bulletin** is **84%** 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 **12.04.2018**, the total live storage available in these reservoirs is **3.62 BCM** which is **20%** 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 **27%** 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 **12.04.2018**, the total live storage available in these reservoirs is **7.83 BCM** which is **42%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **49%** and average storage of last ten years during corresponding period was **36%** 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 **12.04.2018**, the total live storage available in these reservoirs is **8.69 BCM** which is **28%** 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 **32%** 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 **12.04.2018**, the total live storage available in these reservoirs is **12.31 BCM** which is **29%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **43%** 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 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 **12.04.2018**, the total live storage available in these reservoirs is **8.41 BCM** which is **16%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **12%** and average storage of last ten years during corresponding period was **22%** 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, 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 **46** 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 **4** and having storage less than 20% with reference to average of last ten years is **8**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **13** 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 12.04.2018

- 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 **12.04.2018** is **40.857** BCM (**25** percent of the live storage capacity at FRL).The current year's storage is nearly **84** percent of last year's storage and **90** 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.)	-	-	-	-	-	-	-	6	H.P.	-36 %
									PUNJAB	-46 %
									RAJASTHAN	29 %
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	-	-	-	-	1	4	4	6	JHARKHAND	10 %
									ODISHA	10 %
									W. BENGAL	122 %
									TRIPURA	213 %
WEST (Guj.& Mah.), (27 Resv.)	-	-	-	1	-	3	7	16	GUJARAT	-36 %
									MAH.	15 %
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	-	2	2	8	U.P.	-24 %
									UTTARAKHAND	-35 %
									M.P.	7 %
									CHHATISGARH	5 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	1	1	-	1	1	27	AP&TG	-62 %
									A,P	-55 %
									TG	-23 %
									KARNATAKA	-6 %
									KERALA	23 %
									T.N.	-64 %
Status of 91 reservoirs	0	0	1	2	1	10	14	63		

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, Narmada, Sabarmati and Godavari, .

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

Highly deficient: NIL

- 5 Out of 91 reservoirs, **52** reservoirs reported more than 80% of normal storage & **39** reservoirs reported 80% or below of normal storage. Out of these **39** reservoirs **18** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0	PONG DAM	50
SARDAR SAROVAR	0		
ALIYAR	0		
YELDARI	0		
ISAPUR	3		
VANIVILAS SAGAR	8		
NAGARJUNA SAGAR	16		
PARAMBIKULAM	17		
METTUR(STANLEY)	32		
VAIGAI	33		
TAWA	39		
PENCH (TOTALADOH)	42		
BHADRA	44		
SOMASILA	45		
KRISHNARAJA SAGRA	45		
BALIMELA	47		
BARNA	48		

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

- 6 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 :- 12.04.2018

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	7.930	28.22%	12.697	45.19%	8.218	29.25%	-3.50
INDUS	14.730	2.426	16.47%	3.118	21.17%	3.940	26.75%	-38.43
NARMADA	21.608	4.735	21.91%	6.582	30.46%	4.997	23.13%	-5.24
TAPI	7.394	1.763	23.84%	3.714	50.23%	2.879	38.94%	-38.76
MAHI	4.012	1.665	41.50%	1.777	44.29%	1.570	39.13%	6.05
SABARMATI	0.735	0.134	18.23%	0.233	31.70%	0.166	22.59%	-19.28
RIVERS OF KUTCH	0.887	0.214	24.13%	0.068	7.67%	0.122	13.75%	75.41
GODAVARI	15.394	3.933	25.55%	5.102	33.14%	4.301	27.94%	-8.56
KRISHNA	32.831	4.992	15.21%	2.944	8.97%	6.395	19.48%	-21.94
MAHANADI & NEIGHBOURING EFRS	13.181	6.608	50.13%	7.410	56.22%	5.552	42.12%	19.02
CAUVERY& NEIGHBOURING EFRS	8.359	1.219	14.58%	0.765	9.15%	2.544	30.43%	-52.08
WEST FLOWING RIVERS OF SOUTH	14.766	5.238	35.47%	4.027	27.27%	4.849	32.84%	8.02
TOTAL	161.993	40.857		48.437		45.533		
PERCENTAGE								-10.27

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 12.04.2018

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	470.52	6.229	1.192	12-04-2018	19	14	25	676	1200
*2	PONG DAM	423.67	394.16	6.157	0.772	12-04-2018	13	17	25	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	495.81	2.344	0.462	12-04-2018	20	50	36	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	270.15	1.711	0.611	12-04-2018	36	36	27	63	140
5	JHAKAM	359.50	347.15	0.132	0.040	12-04-2018	30	29	17	28	-
*6	RANA PRATAP SAGAR	352.81	347.72	1.436	0.540	12-04-2018	38	30	31	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	258.27	0.821	0.352	12-04-2018	43	47	36	-	-
8	MAITHON	146.3	144.22	0.471	0.331	12-04-2018	70	80	49	342	-
*9	PANCHET HILL	124.97	121.88	0.184	0.058	12-04-2018	32	59	55	\$	80
10	KONAR	425.81	417.30	0.176	0.051	12-04-2018	29	31	46	\$	-
11	TILAIYA	368.81	364.42	0.142	0.018	12-04-2018	13	30	20	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	187.34	5.378	2.231	12-04-2018	41	43	40	153	307
*13	BALIMELA	462.08	444.00	2.676	0.379	12-04-2018	14	45	30	-	360
14	SALANADI	82.30	70.47	0.558	0.227	12-04-2018	41	30	20	42	-
*15	RENGALI	123.50	119.16	3.432	2.033	12-04-2018	59	75	37	3	200
*16	MACHKUND(JALPUT)	838.16	832.70	0.893	0.493	12-04-2018	55	33	48	-	115
*17	UPPER KOLAB	858.00	850.36	0.935	0.304	12-04-2018	33	51	34	89	320
*18	UPPER INDRAVATI	642.00	632.25	1.456	0.520	12-04-2018	36	46	36	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	115.95	0.480	0.243	12-04-2018	51	27	24	227	-
20	KANGSABATI	134.14	127.86	0.914	0.422	12-04-2018	46	31	20	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	90.35	0.312	0.172	10-04-2018	55	42	18	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	92.55	6.615	1.574	12-04-2018	24	52	40	348	300
23	SABARMATI(DHAROI)	189.59	181.07	0.735	0.134	12-04-2018	18	32	23	95	1
*24	KADANA	127.7	122.43	1.472	0.707	12-04-2018	48	57	53	200	120
25	SHETRUNJI	55.53	50.07	0.300	0.052	12-04-2018	17	19	21	36	-
26	BHADAR	107.89	103.09	0.188	0.043	12-04-2018	23	3	21	27	-
27	DAMANAGANGA	79.86	73.50	0.502	0.226	12-04-2018	45	33	46	51	1
28	DANTIWADA	184.1	174.57	0.399	0.119	12-04-2018	30	1	5	45	-
29	PANAM	127.41	123.15	0.697	0.307	12-04-2018	44	40	44	36	2
*30	SARDAR SAROVAR	138.68	105.10	5.760	0.000	12-04-2018	0	21	15	2120	1450
31	KARJAN	115.25	106.37	0.523	0.288	12-04-2018	55	40	51	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 12.04.2018

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	460.62	2.171	1.066	11-04-2018	49	37	20	227	-
*33	KOYANA	657.90	646.07	2.652	1.581	11-04-2018	60	31	48	-	1920
34	BHIMA(UJJANI)	496.83	493.30	1.517	0.497	09-04-2018	33	15	23	125	12
35	ISAPUR	441.00	425.92	0.965	0.010	11-04-2018	1	21	32	104	-
36	MULA	552.30	543.51	0.609	0.232	11-04-2018	38	34	32	139	-
37	YELDARI	461.77	447.66	0.809	0.000	11-04-2018	0	9	17	78	-
38	GIRNA	398.07	386.93	0.524	0.109	11-04-2018	21	34	18	79	-
39	KHADAKVASLA	582.47	581.44	0.056	0.042	11-04-2018	75	88	46	78	8
*40	UPPER VAITARNA	603.50	596.28	0.331	0.124	11-04-2018	37	44	50	-	61
41	UPPER TAPI	214.00	210.48	0.255	0.080	11-04-2018	31	43	48	45	-
*42	PENCH (TOTALADOH)	490.00	471.56	1.091	0.130	11-04-2018	12	12	28	127	160
43	UPPER WARDHA	342.50	338.10	0.564	0.239	12-04-2018	42	43	36	70	-
44	BHATSA	142.07	121.02	0.942	0.466	11-04-2018	49	51	45	29.378	15
45	DHOM	747.70	737.34	0.331	0.132	11-04-2018	40	33	32	36.2	2
46	DUDHGANGA	646.00	633.14	0.664	0.306	11-04-2018	46	41	42	2.441	24
47	MANIKDOH (KUKADI)	711.25	693.97	0.288	0.061	11-04-2018	21	7	9	2.2	6
48	BHANDARDARA	744.91	735.50	0.304	0.166	11-04-2018	55	47	39	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	303.28	0.707	0.178	11-04-2018	25	38	43	-	30
*50	RIHAND	268.22	256.70	5.649	1.054	12-04-2018	19	45	23	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	334.59	2.196	0.502	11-04-2018	23	19	38	1897	198
*52	TEHRI	830.00	758.85	2.615	0.374	12-04-2018	14	14	19	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	387.32	6.827	1.232	12-04-2018	18	58	25	220	115
54	TAWA	355.40	338.33	1.944	0.183	12-04-2018	9	24	24	247	-
*55	BARGI	422.76	417.75	3.180	1.898	12-04-2018	60	39	35	157	90
*56	BANSAGAR	341.64	334.65	5.166	2.403	12-04-2018	47	62	38	488	425
*57	INDIRA SAGAR	262.13	250.76	9.745	2.325	12-04-2018	24	34	22	2380	1000
58	BARNA	348.55	339.83	0.456	0.041	12-04-2018	9	32	19	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	352.35	3.046	1.754	12-04-2018	58	64	55	-	120
60	MAHANADI	348.70	343.69	0.767	0.363	11-04-2018	47	51	45	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	244.82	8.288	0.769	11-04-2018	9	9	17	0	770
*62	NAGARJUNA SAGAR	179.83	156.48	6.841	0.166	11-04-2018	2	0	16	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	85.56	1.994	0.383	11-04-2018	19	15	43	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	321.59	2.300	0.265	12-04-2018	12	21	15	411	27
65	LOWER MANAIR	280.42	269.93	0.621	0.129	12-04-2018	21	26	28	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 12.04.2018

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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
<u>KARNATAKA</u>											
66	KRISHNARAJA SAGRA	752.50	737.81	1.163	0.140	12-04-2018	12	11	27	79	-
*67	TUNGABHADRA	497.74	481.83	3.276	0.127	12-04-2018	4	3	7	529	72
68	GHATAPRABHA	662.95	643.35	1.391	0.323	12-04-2018	23	14	11	317	-
69	BHADRA	657.76	640.08	1.785	0.316	12-04-2018	18	9	41	106	39
70	LINGANAMAKKI	554.43	538.93	4.294	1.055	12-04-2018	25	17	30	-	55
71	NARAYANPUR	492.25	487.35	0.863	0.234	11-04-2018	27	19	34	425	-
72	MALAPRABHA(RENUKA)	633.83	622.05	0.972	0.072	12-04-2018	7	5	8	215	-
73	KABINI(Sancherla Tank)	696.16	688.37	0.444	0.082	12-04-2018	18	2	14	85	-
74	HEMAVATHY	890.63	873.90	0.927	0.119	12-04-2018	13	5	12	265	-
75	HARANGI	871.42	855.97	0.220	0.037	12-04-2018	17	16	15	53	-
76	SUPA	564.00	538.80	4.120	1.674	12-04-2018	41	35	29	-	-
77	VANIVILAS SAGAR	652.28	631.63	0.802	0.009	12-04-2018	1	3	14	123	-
*78	ALMATTI	519.60	508.88	3.105	0.357	11-04-2018	11	0	9	@	290
*79	GERUSOPPA	55.00	50.58	0.130	0.105	12-04-2018	81	92	83	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	110.70	0.507	0.376	12-04-2018	74	20	38	62	-
*81	IDAMALAYAR	169.00	141.52	1.018	0.339	12-04-2018	33	32	33	33	75
*82	IDUKKI	732.43	713.55	1.460	0.559	12-04-2018	38	22	33	-	780
*83	KAKKI	981.46	966.24	0.447	0.237	12-04-2018	53	31	43	23	300
*84	PERIYAR	867.41	859.86	0.173	0.023	12-04-2018	13	6	23	84	140
85	MALAPMUZHA	115.06	102.61	0.224	0.032	12-04-2018	14	12	21	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	264.88	0.792	0.155	12-04-2018	20	9	29	105	8
*87	METTUR(STANLEY)	240.79	215.26	2.647	0.289	12-04-2018	11	6	34	122	360
88	VAIGAI	279.20	267.64	0.172	0.014	12-04-2018	8	3	25	61	6
89	PARAMBIKULAM	556.26	536.08	0.380	0.022	12-04-2018	6	5	34	101	-
90	ALIYAR	320.04	300.29	0.095	0.000	12-04-2018	0	18	47	#	60
*91	SHOLAYAR	1002.79	958.85	0.143	0.000	12-04-2018	0	0	3	-	95
TOTAL FOR 91 RESERVOIRS				161.993	40.857						
PERCENTAGE							25	30	28		

* 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