

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 01.02.2018)

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 **01.02.2018**, live storage available in these reservoirs is **69.887 BCM**, which is **43%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **77.969 BCM** and the average of last 10 years live storage was **76.640 BCM**. Thus, the live storage available in 91 reservoirs **as per 01.02.2018 Bulletin** is **90%** of the live storage of corresponding period of last year and **91%** 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 **01.02.2018**, the total live storage available in these reservoirs is **7.47 BCM** which is **41%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **37%** 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 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 **01.02.2018**, the total live storage available in these reservoirs is **12.23 BCM** which is **65%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **71%** and average storage of last ten years during corresponding period was **60%** 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 **01.02.2018**, the total live storage available in these reservoirs is **14.20 BCM** which is **45%** 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 **49%** 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 **01.02.2018**, the total live storage available in these reservoirs is **17.59 BCM** which is **42%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **63%** 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 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 **01.02.2018**, the total live storage available in these reservoirs is **18.40 BCM** which is **36%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **28%** and average storage of last ten years during corresponding period was **44%** 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 **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 **10** and having storage less than or equal to 50% with reference to average of last ten years are **12**.

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 01.02.2018

- 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 **01.02.2018** is **69.887** BCM (**43** percent of the live storage capacity at FRL).The current year's storage is nearly **90** percent of last year's storage and **91** 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	3	H.P.	1	%
									PUNJAB	-37	%
									RAJASTHAN	7	%
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	2	1	2	2	1	3	2	2	JHARKHAND	9	%
									ODISHA	1	%
									W. BENGAL	117	%
									TRIPURA	173	%
WEST (Guj.& Mah.), (27 Resv.)	-	1	2	6	5	4	-	9	GUJARAT	-31	%
									MAH.	16	%
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	2	3	1	6	U.P.	-2	%
									UTTARAKHAND	-20	%
									M.P.	-12	%
									CHHATISGARH	-5	%
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	2	1	-	1	6	4	17	AP&TG	-30	%
									A,P	-33	%
									TG	-1	%
									KARNATAKA	-11	%
									KERALA	10	%
									T.N.	-61	%
Status of 91 reservoirs	2	4	5	8	10	17	8	37			

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, **56** reservoirs reported more than 80% of normal storage & **35** reservoirs reported 80% or below of normal storage. Out of these **35** reservoirs **12** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0		
ALIYAR	2		
VANIVILAS SAGAR	12		
ISAPUR	13		
YELDARI	17		
SARDAR SAROVAR	17		
TAWA	32		
PARAMBIKULAM	34		
PENCH (TOTALADOH)	38		
METTUR(STANLEY)	39		
LOWER BHAWANI	44		
BALIMELA	49		

23 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
4	12	7

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

22 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 :- 01.02.2018

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	12.859	45.77%	17.358	61.78%	12.678	45.12%	1.43
INDUS	14.730	5.906	40.10%	5.007	33.99%	6.123	41.57%	-3.54
NARMADA	21.608	5.955	27.56%	10.611	49.11%	8.556	39.60%	-30.40
TAPI	7.394	2.889	39.07%	5.517	74.61%	4.444	60.10%	-34.99
MAHI	4.012	2.426	60.47%	2.607	64.98%	2.184	54.44%	11.08
SABARMATI	0.735	0.269	36.60%	0.422	57.41%	0.312	42.45%	-13.78
RIVERS OF KUTCH	0.887	0.409	46.11%	0.166	18.71%	0.284	32.02%	44.01
GODAVARI	15.394	7.021	45.61%	9.485	61.61%	7.510	48.79%	-6.51
KRISHNA	32.831	12.678	38.62%	8.525	25.97%	13.815	42.08%	-8.23
MAHANADI & NEIGHBOURING EFRS	13.181	9.223	69.97%	9.900	75.11%	8.494	64.44%	8.58
CAUVERY & NEIGHBOURING EFRS	8.359	2.409	28.82%	1.614	19.31%	3.786	45.29%	-36.37
WEST FLOWING RIVERS OF SOUTH	14.766	7.843	53.12%	6.757	45.76%	8.454	57.25%	-7.23
TOTAL	161.993	69.887		77.969		76.640		
PERCENTAGE								-8.81

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 01.02.2018

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	491.78	6.229	3.113	01-02-2018	50	33	48	676	1200
*2	PONG DAM	423.67	405.91	6.157	2.305	01-02-2018	37	35	38	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	496.58	2.344	0.488	01-02-2018	21	34	33	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	275.70	1.711	1.117	01-02-2018	65	70	51	63	140
5	JHAKAM	359.50	351.80	0.132	0.067	01-02-2018	51	54	37	28	-
*6	RANA PRATAP SAGAR	352.81	346.59	1.436	0.380	01-02-2018	26	30	38	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	259.45	0.821	0.395	01-02-2018	48	51	44	-	-
8	MAITHON	146.3	148.34	0.471	0.471	01-02-2018	100	100	81	342	-
*9	PANCHET HILL	124.97	127.38	0.184	0.184	01-02-2018	100	100	81	\$	80
10	KONAR	425.81	420.69	0.176	0.092	01-02-2018	52	75	70	\$	-
11	TILAIYA	368.81	365.59	0.142	0.042	01-02-2018	30	68	49	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	190.22	5.378	3.697	30-01-2018	69	74	73	153	307
*13	BALIMELA	462.08	447.39	2.676	0.679	01-02-2018	25	71	52	-	360
14	SALANADI	82.30	70.84	0.558	0.234	01-02-2018	42	32	33	42	-
*15	RENGALI	123.50	122.25	3.432	3.019	01-02-2018	88	87	58	3	200
*16	MACHKUND(JALPUT)	838.16	836.97	0.893	0.780	01-02-2018	87	61	71	-	115
*17	UPPER KOLAB	858.00	853.05	0.935	0.505	01-02-2018	54	78	54	89	320
*18	UPPER INDRAVATI	642.00	635.20	1.456	0.765	01-02-2018	53	73	62	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	120.35	0.480	0.452	01-02-2018	94	43	41	227	-
20	KANGSABATI	134.14	131.25	0.914	0.679	01-02-2018	74	41	35	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	92.00	0.312	0.240	30-01-2018	77	59	28	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	96.17	6.615	2.523	01-02-2018	38	76	62	348	300
23	SABARMATI(DHAROI)	189.59	183.86	0.735	0.269	01-02-2018	37	57	42	95	1
*24	KADANA	127.7	123.75	1.472	0.815	01-02-2018	55	65	59	200	120
25	SHETRUNJI	55.53	52.37	0.300	0.114	01-02-2018	38	50	54	36	-
26	BHADAR	107.89	104.29	0.188	0.069	01-02-2018	37	6	36	27	-
27	DAMANAGANGA	79.86	77.65	0.502	0.379	01-02-2018	75	67	72	51	1
28	DANTIWADA	184.1	178.92	0.399	0.226	01-02-2018	57	1	14	45	-
29	PANAM	127.41	125.45	0.697	0.427	01-02-2018	61	55	56	36	2
*30	SARDAR SAROVAR	138.68	112.50	5.760	0.200	01-02-2018	3	21	20	2120	1450
31	KARJAN	115.25	109.77	0.523	0.366	01-02-2018	70	54	70	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 01.02.2018

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	462.59	2.171	1.690	24-01-2018	78	63	37	227	-
*33	KOYANA	657.90	654.51	2.652	2.277	31-01-2018	86	61	73	-	1920
34	BHIMA(UJJANI)	496.83	495.96	1.517	1.236	01-02-2018	81	67	58	125	12
35	ISAPUR	441.00	427.21	0.965	0.059	31-01-2018	6	36	47	104	-
36	MULA	552.30	549.32	0.609	0.459	30-01-2018	75	74	55	139	-
37	YELDARI	461.77	449.23	0.809	0.042	31-01-2018	5	19	31	78	-
38	GIRNA	398.07	390.11	0.524	0.198	31-01-2018	38	59	32	79	-
39	KHADAKVASLA	582.47	580.71	0.056	0.033	31-01-2018	59	66	50	78	8
*40	UPPER VAITARNA	603.50	601.10	0.331	0.253	31-01-2018	76	77	74	-	61
41	UPPER TAPI	214.00	212.42	0.255	0.168	31-01-2018	66	73	76	45	-
*42	PENCH (TOTALADOH)	490.00	473.57	1.091	0.182	31-01-2018	17	25	44	127	160
43	UPPER WARDHA	342.50	339.78	0.564	0.346	01-02-2018	61	61	55	70	-
44	BHATSA	142.07	130.95	0.942	0.665	31-01-2018	71	71	66	29.378	15
45	DHOM	747.70	742.81	0.331	0.227	31-01-2018	69	45	53	36.2	2
46	DUDHGANGA	646.00	641.09	0.664	0.520	31-01-2018	78	75	71	2.441	24
47	MANIKDOH (KUKADI)	711.25	704.18	0.288	0.174	31-01-2018	60	39	30	2.2	6
48	BHANDARDARA	744.91	743.63	0.304	0.279	31-01-2018	92	88	69	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	303.73	0.707	0.207	31-01-2018	29	49	47	-	30
*50	RIHAND	268.22	259.48	5.649	2.039	01-02-2018	36	57	35	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	344.42	2.196	0.899	01-02-2018	41	34	62	1897	198
*52	TEHRI	830.00	795.20	2.615	1.334	01-02-2018	51	51	55	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	391.72	6.827	2.569	01-02-2018	38	76	41	220	115
54	TAWA	355.40	340.13	1.944	0.274	01-02-2018	14	46	44	247	-
*55	BARGI	422.76	419.10	3.180	2.198	01-02-2018	69	60	59	157	90
*56	BANSAGAR	341.64	336.08	5.166	2.876	01-02-2018	56	78	49	488	425
*57	INDIRA SAGAR	262.13	252.14	9.745	2.819	01-02-2018	29	62	42	2380	1000
58	BARNA	348.55	341.78	0.456	0.098	01-02-2018	21	56	39	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	353.08	3.046	1.854	01-02-2018	61	68	61	-	120
60	MAHANADI	348.70	344.56	0.767	0.419	31-01-2018	55	87	69	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	261.95	8.288	2.845	01-02-2018	34	27	46	0	770
*62	NAGARJUNA SAGAR	179.83	161.12	6.841	0.956	01-02-2018	14	3	24	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	91.43	1.994	0.833	01-02-2018	42	42	63	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	326.62	2.300	0.914	01-02-2018	40	69	39	411	27
65	LOWER MANAIR	280.42	274.93	0.621	0.321	01-02-2018	52	77	57	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 01.02.2018

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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	744.23	1.163	0.471	31-01-2018	40	15	58	79	-
*67	TUNGABHADRA	497.74	488.64	3.276	0.675	01-02-2018	21	5	30	529	72
68	GHATAPRABHA	662.95	652.08	1.391	0.698	01-02-2018	50	42	31	317	-
69	BHADRA	657.76	649.95	1.785	0.985	01-02-2018	55	28	73	106	39
70	LINGANAMAKKI	554.43	544.19	4.294	1.818	01-02-2018	42	41	57	-	55
71	NARAYANPUR	492.25	490.23	0.863	0.501	01-02-2018	58	63	78	425	-
72	MALAPRABHA(RENUKA)	633.83	624.40	0.972	0.163	01-02-2018	17	15	23	215	-
73	KABINI(Sancherla Tank)	696.16	692.77	0.444	0.263	31-01-2018	59	17	38	85	-
74	HEMAVATHY	890.63	876.54	0.927	0.190	31-01-2018	20	11	25	265	-
75	HARANGI	871.42	859.54	0.220	0.064	31-01-2018	29	29	15	53	-
76	SUPA	564.00	544.40	4.120	2.097	01-02-2018	51	50	52	-	-
77	VANIVILAS SAGAR	652.28	632.17	0.802	0.016	01-02-2018	2	4	17	123	-
*78	ALMATTI	519.60	514.73	3.105	1.372	01-02-2018	44	22	33	@	290
*79	GERUSOPPA	55.00	52.91	0.130	0.118	31-01-2018	91	85	80	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	115.47	0.507	0.478	31-01-2018	94	40	72	62	-
*81	IDAMALAYAR	169.00	154.96	1.018	0.631	31-01-2018	62	52	59	33	75
*82	IDUKKI	732.43	721.13	1.460	0.876	31-01-2018	60	37	56	-	780
*83	KAKKI	981.46	976.45	0.447	0.364	31-01-2018	81	51	70	23	300
*84	PERIYAR	867.41	860.59	0.173	0.034	31-01-2018	20	10	32	84	140
85	MALAPMUZHA	115.06	104.70	0.224	0.050	01-02-2018	22	18	32	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	264.84	0.792	0.154	31-01-2018	19	11	45	105	8
*87	METTUR(STANLEY)	240.79	217.63	2.647	0.403	31-01-2018	15	10	39	122	360
88	VAIGAI	279.20	270.60	0.172	0.031	31-01-2018	18	3	33	61	6
89	PARAMBIKULAM	556.26	540.01	0.380	0.079	31-01-2018	21	11	61	101	-
90	ALIYAR	320.04	301.33	0.095	0.001	31-01-2018	1	1	51	#	60
*91	SHOLAYAR	1002.79	958.25	0.143	0.000	31-01-2018	0	0	15	-	95
TOTAL FOR 91 RESERVOIRS				161.993	69.887						
PERCENTAGE							43	48	47		

* 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