

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 02.02.2017)

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 157.799 BCM which is about 62% of the live storage capacity of 253.388 BCM which is estimated to have been created in the country. As per reservoir storage bulletin dated **02.02.2017**, live storage available in these reservoirs is **77.675 BCM**, which is **49%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **61.742 BCM** and the average of last 10 years live storage was **76.708 BCM**. Thus, the live storage available in 91 reservoirs **as per 02.02.2017 Bulletin** is **126%** of the live storage of corresponding period of last year and **101%** of storage of average of last ten years.

The overall storage position is **better than the** corresponding period of last year in the country as a whole and is also **better 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 **02.02.2017**, the total live storage available in these reservoirs is **6.70 BCM** which is **37%** 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 **44%** 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 **02.02.2017**, the total live storage available in these reservoirs is **13.38 BCM** which is **71%** 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 **58%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the corresponding period of last year and is also 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 27.07 BCM. As per Reservoir Storage Bulletin dated **02.02.2017**, the total live storage available in these reservoirs is **16.84 BCM** which is **62%** 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 **57%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the storage of last year and is also better 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 **02.02.2017**, the total live storage available in these reservoirs is **26.57 BCM** which is **63%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **50%** 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 storage of last year and is also better 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 (2 combined 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 **02.02.2017**, the total live storage available in these reservoirs is **14.19 BCM** which is **28%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **27%** and average storage of last ten years during corresponding period was **46%** 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 Narmada, Mahi, Ganga, Sabarmati, Godavari, Tapi and Mahanadi & neighbouring East Flowing Rivers. NIL in Close to Normal and Deficient in Indus, Rivers of Kutch, West Flowing Rivers of South, Cauvery & neighbouring EFR, and Krishna 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 **57** 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 **6** 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 **16**.

STORAGE STATUS OF IMPORTANT RESERVOIRS IN THE COUNTRY

AS ON 02.02.2017

- 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 02.02.2017 is 77.675 BCM (49 percent of the live storage capacity at FRL).The current year's storage is nearly 126 percent of last year's storage and 101 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.)	-	-	-	-	1	1	-	4	H.P.	-25 %
									PUNJAB	5 %
									RAJASTHAN	10 %
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	2	-	1	5	2	2	2	1	JHARKHAND	22 %
									ODISHA	23 %
									W. BENGAL	12 %
									TRIPURA	147 %
WEST (Guj.& Mah.), (27 Resv.)	-	-	1	7	7	5	1	6	GUJARAT	12 %
									MAH.	4 %
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	1	2	2	3	3	1	U.P.	72 %
									UTTARAKHAND	-23 %
									M.P.	56 %
									CHHATISGARH	17 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	1	1	2	2	4	21	AP&TG	-60 %
									A,P	-32 %
									TG	72 %
									KARNATAKA	-37 %
									KERALA	-33 %
									T.N.	-79 %
Status of 91 reservoirs	2	0	4	15	14	13	10	33		

4 Basin wise storage position:

Better than normal: Ganga,Sabarmati,Godavari,Mahi, Narmada ,Tapi and Mahanadi & Neighbouring EFRS.

Close to normal: NIL

Deficient: Indus ,Rivers of Kutch,West Flowing Rivers of South, Krishna and Cauvery & neighbouring EFRS..

Highly deficient: NIL

- 5 Out of 91 reservoirs, 58 reservoirs reported more than 80% of normal storage & 33 reservoirs reported 80% or below of normal storage. Out of these 33 reservoirs 16 having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0	PERIYAR	29
ALIYAR	4	BHADRA	36
DANTIWADA	5	HEMAVATHY	43
VAIGAI	10	KABINI	43
NAGARJUNA SAGAR	12		
BHADAR	14		
TUNGABHADRA	14		
PARAMBIKULAM	16		
VANIVILAS SAGAR	21		
LOWER BHAWANI	21		
METTUR(STANLEY)	24		
KRISHNARAJA SAGRA	24		

17 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
6	8	3

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

18 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 :- 02.02.2017

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	17.303	61.59%	13.435	47.82%	12.199	43.42%	41.84
INDUS	14.730	5.007	33.99%	6.193	42.04%	6.356	43.15%	-21.22
NARMADA	17.414	10.528	60.46%	8.160	46.86%	8.022	46.07%	31.24
TAPI	7.394	5.508	74.49%	3.329	45.02%	4.386	59.32%	25.58
MAHI	4.012	2.595	64.68%	2.001	49.88%	2.198	54.79%	18.06
SABARMATI	0.735	0.420	57.14%	0.361	49.12%	0.317	43.13%	32.49
RIVERS OF KUTCH	0.887	0.163	18.38%	0.503	56.71%	0.324	36.53%	-49.69
GODAVARI	15.394	9.395	61.03%	4.970	32.29%	7.504	48.75%	25.20
KRISHNA	32.831	8.589	26.16%	5.326	16.22%	14.600	44.47%	-41.17
MAHANADI & NEIGHBOURING EFRS	13.181	9.840	74.65%	6.719	50.97%	8.159	61.90%	20.60
CAUVERY & NEIGHBOURING EFRS	8.359	1.601	19.15%	3.569	42.70%	3.960	47.37%	-59.57
WEST FLOWING RIVERS OF SOUTH	14.766	6.726	45.55%	7.176	48.60%	8.683	58.80%	-22.54
TOTAL	157.799	77.675		61.742		76.708		
PERCENTAGE								1.26

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 02.02.2017

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	481.98	6.229	2.074	02-02-2017	33	57	50	676	1200
*2	PONG DAM	423.67	404.92	6.157	2.145	01-02-2017	35	36	40	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	503.51	2.344	0.788	02-02-2017	34	19	32	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	276.50	1.711	1.191	02-02-2017	70	69	51	63	140
5	JHAKAM	359.50	352.20	0.132	0.070	02-02-2017	53	30	36	28	-
*6	RANA PRATAP SAGAR	352.81	346.93	1.436	0.429	01-02-2017	30	32	44	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	260.06	0.821	0.420	02-02-2017	51	41	43	-	-
8	MAITHON	146.3	147.87	0.471	0.471	02-02-2017	100	34	80	342	-
*9	PANCHET HILL	124.97	126.96	0.184	0.184	02-02-2017	100	20	80	\$	80
10	KONAR	425.81	423.22	0.176	0.131	02-02-2017	74	59	69	\$	-
11	TILAIYA	368.81	367.39	0.142	0.094	02-02-2017	66	27	48	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	190.62	5.378	3.931	02-02-2017	73	63	68	153	307
*13	BALIMELA	462.08	457.47	2.676	1.894	02-02-2017	71	58	52	-	360
14	SALANADI	82.30	68.05	0.558	0.176	02-02-2017	32	5	36	42	-
*15	RENGALI	123.50	122.16	3.432	2.985	02-02-2017	87	49	56	3	200
*16	MACHKUND(JALPUT)	838.16	833.70	0.893	0.546	02-02-2017	61	72	72	-	115
*17	UPPER KOLAB	858.00	855.82	0.935	0.729	02-02-2017	78	69	53	89	320
*18	UPPER INDRAVATI	642.00	638.18	1.456	1.056	02-02-2017	73	49	61	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	114.88	0.480	0.204	02-02-2017	43	19	42	227	-
20	KANGSABATI	134.14	126.92	0.914	0.371	02-02-2017	41	25	34	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	90.65	0.312	0.185	31-01-2017	59	67	24	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	102.07	6.615	5.014	02-02-2017	76	48	61	348	300
23	SABARMATI(DHAROI)	189.59	186.06	0.735	0.420	02-02-2017	57	49	43	95	1
*24	KADANA	127.7	125.27	1.472	0.949	02-02-2017	64	38	60	200	120
25	SHETRUNJI	55.53	53.17	0.300	0.147	02-02-2017	49	52	55	36	-
26	BHADAR	107.89	100.40	0.188	0.012	02-02-2017	6	100	46	27	-
27	DAMANAGANGA	79.86	76.50	0.502	0.332	02-02-2017	66	62	73	51	1
28	DANTIWADA	184.1	163.27	0.399	0.004	02-02-2017	1	40	18	45	-
29	PANAM	127.41	124.70	0.697	0.385	02-02-2017	55	31	58	36	2
*30	SARDAR SAROVAR	121.92	120.11	1.566	1.238	02-02-2017	79	26	72	2120	1450
31	KARJAN	115.25	106.20	0.523	0.284	02-02-2017	54	41	74	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 02.02.2017

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	461.43	2.171	1.307	02-02-2017	60	5	36	227	-
*33	KOYANA	657.90	648.16	2.652	1.607	01-02-2017	61	46	73	-	1920
34	BHIMA(UJJANI)	496.83	495.23	1.517	1.015	01-02-2017	67	0	59	125	12
35	ISAPUR	441.00	433.13	0.965	0.345	01-02-2017	36	21	51	104	-
36	MULA	552.30	549.06	0.609	0.447	02-02-2017	73	18	54	139	-
37	YELDARI	461.77	452.48	0.809	0.152	02-02-2017	19	6	35	78	-
38	GIRNA	398.07	393.44	0.524	0.307	01-02-2017	59	3	32	79	-
39	KHADAKVASLA	582.47	580.98	0.056	0.037	01-02-2017	66	34	46	78	8
*40	UPPER VAITARNA	603.50	601.13	0.331	0.254	01-02-2017	77	44	74	-	61
41	UPPER TAPI	214.00	212.83	0.255	0.187	01-02-2017	73	61	77	45	-
*42	PENCH (TOTALADOH)	490.00	476.44	1.091	0.272	01-02-2017	25	31	46	127	160
43	UPPER WARDHA	342.50	339.73	0.564	0.343	02-02-2017	61	45	55	70	-
44	BHATSA	142.07	130.81	0.942	0.662	01-02-2017	70	58	66	29.378	15
45	DHOM	747.70	742.12	0.331	0.247	01-02-2017	75	38	48	36.2	2
46	DUDHGANGA	646.00	640.33	0.664	0.497	01-02-2017	75	41	72	2.441	24
47	MANIKDOH (KUKADI)	711.25	699.30	0.288	0.113	01-02-2017	39	10	33	2.2	6
48	BHANDARDARA	744.91	742.91	0.304	0.267	02-02-2017	88	28	67	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	305.53	0.707	0.346	31-01-2017	49	33	46	-	30
*50	RIHAND	268.22	262.49	5.649	3.220	02-02-2017	57	29	31	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	340.71	2.196	0.741	02-02-2017	34	100	61	1897	198
*52	TEHRI	830.00	794.30	2.615	1.306	02-02-2017	50	41	51	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	397.46	6.827	5.176	02-02-2017	76	62	40	220	115
54	TAWA	355.40	347.69	1.944	0.884	02-02-2017	45	38	43	247	-
*55	BARGI	422.76	417.75	3.180	1.898	02-02-2017	60	66	57	157	90
*56	BANSAGAR	341.64	339.08	5.166	4.025	02-02-2017	78	46	47	488	425
*57	INDIRA SAGAR	262.13	257.31	9.745	5.969	02-02-2017	61	47	38	2380	1000
58	BARNA	348.55	345.36	0.456	0.255	02-02-2017	56	30	37	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	354.64	3.046	2.079	01-02-2017	68	43	60	-	120
60	MAHANADI	348.70	347.68	0.767	0.669	31-01-2017	87	44	68	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	259.26	8.288	2.205	02-02-2017	27	17	49	0	770
*62	NAGARJUNA SAGAR	179.83	156.85	6.841	0.225	02-02-2017	3	0	28	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	91.47	1.994	0.836	02-02-2017	42	71	62	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	329.49	2.300	1.564	02-02-2017	68	7	36	411	27
65	LOWER MANAIR	280.42	277.57	0.621	0.473	02-02-2017	76	15	57	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	738.56	1.163	0.169	01-02-2017	15	45	61	79	-
*67	TUNGABHADRA	497.74	482.37	3.276	0.151	02-02-2017	5	9	32	529	72
68	GHATAPRABHA	662.95	649.67	1.391	0.582	02-02-2017	42	18	30	317	-
69	BHADRA	657.76	643.48	1.785	0.504	02-02-2017	28	49	78	106	39
70	LINGANAMAKKI	554.43	543.75	4.294	1.743	02-02-2017	41	44	59	-	55
71	NARAYANPUR	492.25	490.60	0.863	0.541	02-02-2017	63	36	80	425	-
72	MALAPRABHA(RENUKA)	633.83	624.06	0.972	0.148	02-02-2017	15	9	24	215	-
73	KABINI(Sancherla Tank)	696.16	688.09	0.444	0.073	01-02-2017	16	36	38	85	-
74	HEMAVATHY	890.63	873.11	0.927	0.102	01-02-2017	11	15	26	265	-
75	HARANGI	871.42	859.64	0.220	0.064	01-02-2017	29	6	13	53	-
76	SUPA	564.00	543.59	4.120	2.032	02-02-2017	49	41	54	-	-
77	VANIVILAS SAGAR	652.28	633.18	0.802	0.029	02-02-2017	4	12	18	123	-
*78	ALMATTI	519.60	511.27	3.105	0.688	02-02-2017	22	13	34	@	290
*79	GERUSOPPA	55.00	52.06	0.130	0.113	02-02-2017	87	93	79	83	240
KERALA											
80	KALLADA(PARAPPAR)	115.82	100.80	0.507	0.201	01-02-2017	40	89	75	62	-
*81	IDAMALAYAR	169.00	150.67	1.018	0.531	01-02-2017	52	52	60	33	75
*82	IDUKKI	732.43	712.80	1.460	0.531	01-02-2017	36	53	58	-	780
*83	KAKKI	981.46	965.13	0.447	0.227	01-02-2017	51	68	72	23	300
*84	PERIYAR	867.41	859.46	0.173	0.017	01-02-2017	10	50	34	84	140
85	MALAPMUZHA	115.06	103.65	0.224	0.040	02-02-2017	18	19	33	21	3
TAMIL NADU											
86	LOWER BHAWANI	278.89	261.65	0.792	0.086	01-02-2017	11	42	52	105	8
*87	METTUR(STANLEY)	240.79	214.68	2.647	0.265	01-02-2017	10	35	42	122	360
88	VAIGAI	279.20	265.20	0.172	0.006	01-02-2017	3	36	34	61	6
89	PARAMBIKULAM	556.26	537.46	0.380	0.041	01-02-2017	11	61	66	101	-
90	ALIYAR	320.04	301.46	0.095	0.002	01-02-2017	2	54	55	#	60
*91	SHOLAYAR	1002.79	955.05	0.143	0.000	01-02-2017	0	0	15	-	95
TOTAL FOR 91 RESERVOIRS				157.799	77.675						
PERCENTAGE							49	39	49		

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.

Sl. No. 30th The FRL of S.S.P. 138.38 M and Live capacity at FRL will be 5.760 BCM. However at present the lowest block of the dam is at the level of 121.92 M. and the live capacity at this level is 1.566 BCM