

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 04.05.2017)

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 **04.05.2017**, live storage available in these reservoirs is **41.066 BCM**, which is **26%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **32.133 BCM** and the average of last 10 years live storage was **38.588 BCM**. Thus, the live storage available in 91 reservoirs **as per 04.05.2017 Bulletin** is **128%** of the live storage of corresponding period of last year and **106%** 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 **04.05.2017**, the total live storage available in these reservoirs is **4.57 BCM** which is **25%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **21%** and average storage of last ten years during corresponding period was **29%** 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 **04.05.2017**, the total live storage available in these reservoirs is **7.54 BCM** which is **40%** 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 **26%** 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 **04.05.2017**, the total live storage available in these reservoirs is **8.27 BCM** which is **31%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **17%** and average storage of last ten years during corresponding period was **31%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the storage of last year and is equal to 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 **04.05.2017**, the total live storage available in these reservoirs is **16.00 BCM** which is **38%** 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 **23%** 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 **04.05.2017**, the total live storage available in these reservoirs is **4.68 BCM** which is **9 %** 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 **20%** 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.

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. Close to Normal in Indus and West Flowing Rivers of South. Deficient in Rivers of Kutch and Highly Deficient in Cauvery & neighbouring EFR and Krishna basin.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **56** and reservoirs having storage more than average of last ten years are **40**. The numbers of reservoirs having storage less than 20% with respect to last year is **5** and having storage less than 20% with reference to average of last ten years is **15**. 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 **28**.

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 04.05.2017

- 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 **04.05.2017** is **41.066** BCM (**26** percent of the live storage capacity at FRL).The current year's storage is nearly **128** percent of last year's storage and **106** 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	-	-	5	H.P.	-36 %
									PUNJAB	49 %
									RAJASTHAN	0 %
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	-	-	-	-	1	1	3	10	JHARKHAND	39 %
									ODISHA	53 %
									W. BENGAL	121 %
									TRIPURA	319 %
WEST (Guj.& Mah.), (27 Resv.)	-	-	-	1	1	1	2	22	GUJARAT	14 %
									MAH.	-22 %
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	-	3	-	9	U.P.	110 %
									UTTARAKHAND	-70 %
									M.P.	93 %
									CHHATISGARH	17 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	-	1	-	-	-	30	AP&TG	-78 %
									A,P	-69 %
									TG	30 %
									KARNATAKA	-41 %
									KERALA	-34 %
									T.N.	-81 %
Status of 91 reservoirs	0	0	0	2	3	5	5	76		

4 Basin wise storage position:

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

Close to normal: Indus and West Flowing Rivers of South.

Deficient: Rivers of Kutch

Highly deficient: Cauvery & neighbouring EFRS and Krishna.

- 5 Out of 91 reservoirs, **49** reservoirs reported more than 80% of normal storage & **42** reservoirs reported 80% or below of normal storage. Out of these **42** reservoirs **28** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0	PERIYAR	20
NAGARJUNA SAGAR	0	SOMASILA	31
ALMATTI	0	LOWER BHAWANI	33
BHIMA(UJJANI)	0	PENCH (TOTALADOH)	37
KABINI	8	YELDARI	39
BHADAR	10	KRISHNARAJA SAGRA	40
VAIGAI	11	SRISAILAM	44
DANTIWADA	13	ISAPUR	44
RAMGANGA	14	HEMAVATHY	45
METTUR(STANLEY)	14	NARAYANPUR	46
PARAMBIKULAM	16	KOYANA	47
BHADRA	17	MALAMPUZHA	48
TUNGABHADRA	18	LINGANAMAKKI	49
VANIVILAS SAGAR	19	KALLADA(PARAPPAR)	50

14 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
7	5	2

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

20 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 :- 04.05.2017

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	11.275	40.13%	8.333	29.66%	6.555	23.33%	72.01
INDUS	14.730	3.568	24.22%	2.851	19.36%	4.271	29.00%	-16.46
NARMADA	17.414	5.541	31.82%	4.566	26.22%	3.929	22.56%	41.03
TAPI	7.394	2.995	40.51%	1.184	16.01%	2.311	31.26%	29.60
MAHI	4.012	1.655	41.25%	0.862	21.49%	1.456	36.29%	13.67
SABARMATI	0.735	0.188	25.58%	0.181	24.63%	0.157	21.36%	19.75
RIVERS OF KUTCH	0.887	0.055	6.20%	0.170	19.17%	0.096	10.82%	-42.71
GODAVARI	15.394	3.954	25.69%	2.677	17.39%	3.572	23.20%	10.69
KRISHNA	32.831	1.711	5.21%	2.495	7.60%	5.597	17.05%	-69.43
MAHANADI & NEIGHBOURING EFRS	13.181	6.189	46.95%	3.575	27.12%	4.148	31.47%	49.20
CAUVERY & NEIGHBOURING EFRS	8.359	0.630	7.54%	1.632	19.52%	2.396	28.66%	-73.71
WEST FLOWING RIVERS OF SOUTH	14.766	3.305	22.38%	3.607	24.43%	4.100	27.77%	-19.39
TOTAL	157.799	41.066		32.133		38.588		
PERCENTAGE								6.42

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 04.05.2017

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	469.66	6.229	1.134	04-05-2017	18	24	24	676	1200
*2	PONG DAM	423.67	396.27	6.157	0.988	03-05-2017	16	13	29	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	515.46	2.344	1.446	04-05-2017	62	26	41	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	269.65	1.711	0.567	04-05-2017	33	21	23	63	140
5	JHAKAM	359.50	346.65	0.132	0.038	04-05-2017	29	8	17	28	-
*6	RANA PRATAP SAGAR	352.81	346.72	1.436	0.399	03-05-2017	28	33	41	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	258.68	0.821	0.366	04-05-2017	45	34	31	-	-
8	MAITHON	146.3	141.27	0.471	0.205	04-05-2017	44	12	29	342	-
*9	PANCHET HILL	124.97	123.15	0.184	0.103	04-05-2017	56	5	30	\$	80
10	KONAR	425.81	416.65	0.176	0.044	04-05-2017	25	31	39	\$	-
11	TILAIYA	368.81	365.47	0.142	0.040	04-05-2017	28	15	18	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	186.20	5.378	1.774	04-05-2017	33	29	29	153	307
*13	BALIMELA	462.08	450.40	2.676	0.991	03-05-2017	37	36	24	-	360
14	SALANADI	82.30	67.26	0.558	0.162	03-05-2017	29	3	22	42	-
*15	RENGALI	123.50	119.77	3.432	2.236	03-05-2017	65	23	22	3	200
*16	MACHKUND(JALPUT)	838.16	827.23	0.893	0.228	03-05-2017	26	39	43	-	115
*17	UPPER KOLAB	858.00	851.29	0.935	0.373	03-05-2017	40	26	25	89	320
*18	UPPER INDRAVATI	642.00	632.03	1.456	0.501	04-05-2017	34	32	28	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	111.25	0.480	0.104	04-05-2017	22	15	16	227	-
20	KANGSABATI	134.14	125.29	0.914	0.282	04-05-2017	31	20	11	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	89.30	0.312	0.134	02-05-2017	43	44	10	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	96.88	6.615	2.779	04-05-2017	42	17	32	348	300
23	SABARMATI(DHAROI)	189.59	182.35	0.735	0.188	04-05-2017	26	25	21	95	1
*24	KADANA	127.7	123.70	1.472	0.811	04-05-2017	55	25	51	200	120
25	SHETRUNJI	55.53	49.82	0.300	0.048	04-05-2017	16	13	11	36	-
26	BHADAR	107.89	99.12	0.188	0.004	04-05-2017	2	11	21	27	-
27	DAMANAGANGA	79.86	69.30	0.502	0.112	04-05-2017	22	20	34	51	1
28	DANTIWADA	184.1	163.20	0.399	0.003	04-05-2017	1	28	6	45	-
29	PANAM	127.41	121.55	0.697	0.239	03-05-2017	34	18	42	36	2
*30	SARDAR SAROVAR	121.92	118.37	1.566	0.985	03-05-2017	63	56	52	2120	1450
31	KARJAN	115.25	100.25	0.523	0.175	03-05-2017	33	20	50	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 04.05.2017

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	458.79	2.171	0.598	04-05-2017	28	0	17	227	-
*33	KOYANA	657.90	631.01	2.652	0.467	03-05-2017	18	16	38	-	1920
34	BHIMA(UJJANI)	496.83	490.56	1.517	0.000	04-05-2017	0	0	13	125	12
35	ISAPUR	441.00	428.79	0.965	0.133	03-05-2017	14	9	31	104	-
36	MULA	552.30	540.97	0.609	0.153	02-05-2017	25	9	24	139	-
37	YELDARI	461.77	449.40	0.809	0.046	03-05-2017	6	0	14	78	-
38	GIRNA	398.07	388.24	0.524	0.146	03-05-2017	28	0	16	79	-
39	KHADAKVASLA	582.47	581.59	0.056	0.045	03-05-2017	80	64	34	78	8
*40	UPPER VAITARNA	603.50	596.51	0.331	0.129	03-05-2017	39	31	40	-	61
41	UPPER TAPI	214.00	210.19	0.255	0.070	03-05-2017	27	12	34	45	-
*42	PENCH (TOTALADOH)	490.00	470.51	1.091	0.106	03-05-2017	10	12	26	127	160
43	UPPER WARDHA	342.50	337.80	0.564	0.222	04-05-2017	39	24	33	70	-
44	BHATSA	142.07	118.23	0.942	0.418	03-05-2017	44	38	40	29.378	15
45	DHOM	747.70	734.65	0.331	0.091	03-05-2017	27	26	31	36.2	2
46	DUDHGANGA	646.00	627.04	0.664	0.184	03-05-2017	28	8	33	2.441	24
47	MANIKDOH (KUKADI)	711.25	687.20	0.288	0.017	03-05-2017	6	6	7	2.2	6
48	BHANDARDARA	744.91	728.18	0.304	0.102	03-05-2017	34	10	30	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	303.40	0.707	0.186	03-05-2017	26	20	44	-	30
*50	RIHAND	268.22	259.91	5.649	2.203	04-05-2017	39	19	15	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	321.95	2.196	0.115	04-05-2017	5	42	37	1897	198
*52	TEHRI	830.00	751.15	2.615	0.209	04-05-2017	8	0	10	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	395.01	6.827	3.927	02-05-2017	58	43	21	220	115
54	TAWA	355.40	342.78	1.944	0.458	04-05-2017	24	9	22	247	-
*55	BARGI	422.76	412.85	3.180	1.037	04-05-2017	33	39	25	157	90
*56	BANSAGAR	341.64	336.31	5.166	2.958	02-05-2017	57	38	30	488	425
*57	INDIRA SAGAR	262.13	251.94	9.745	2.749	04-05-2017	28	22	16	2380	1000
58	BARNA	348.55	342.93	0.456	0.137	02-05-2017	30	6	16	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	352.86	3.046	1.823	04-05-2017	60	34	48	-	120
60	MAHANADI	348.70	340.85	0.767	0.194	03-05-2017	25	23	35	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	239.33	8.288	0.536	04-05-2017	6	6	15	0	770
*62	NAGARJUNA SAGAR	179.83	153.86	6.841	0.000	04-05-2017	0	0	18	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	82.99	1.994	0.247	04-05-2017	12	39	40	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	322.24	2.300	0.309	04-05-2017	13	6	10	411	27
65	LOWER MANAIR	280.42	271.91	0.621	0.192	04-05-2017	31	12	25	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 04.05.2017

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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	736.38	1.163	0.092	03-05-2017	8	16	20	79	-
*67	TUNGABHADRA	497.74	478.98	3.276	0.041	04-05-2017	1	20	7	529	72
68	GHATAPRABHA	662.95	633.07	1.391	0.056	04-05-2017	4	3	7	317	-
69	BHADRA	657.76	634.96	1.785	0.099	04-05-2017	6	15	32	106	39
70	LINGANAMAKKI	554.43	533.14	4.294	0.497	04-05-2017	12	22	24	-	55
71	NARAYANPUR	492.25	485.61	0.863	0.123	04-05-2017	14	17	31	425	-
72	MALAPRABHA(RENUKA)	633.83	620.74	0.972	0.033	04-05-2017	3	2	7	215	-
73	KABINI(Sancherla Tank)	696.16	685.61	0.444	0.003	03-05-2017	1	1	9	85	-
74	HEMAVATHY	890.63	869.77	0.927	0.041	03-05-2017	4	11	10	265	-
75	HARANGI	871.42	855.45	0.220	0.034	03-05-2017	15	7	14	53	-
76	SUPA	564.00	533.60	4.120	1.317	04-05-2017	32	22	26	-	-
77	VANIVILAS SAGAR	652.28	632.41	0.802	0.019	04-05-2017	2	7	12	123	-
*78	ALMATTI	519.60	504.09	3.105	0.000	04-05-2017	0	5	8	@	290
*79	GERUSOPPA	55.00	48.83	0.130	0.096	04-05-2017	74	84	88	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	89.48	0.507	0.076	04-05-2017	15	51	30	62	-
*81	IDAMALAYAR	169.00	136.80	1.018	0.249	04-05-2017	24	22	25	33	75
*82	IDUKKI	732.43	703.98	1.460	0.238	04-05-2017	16	24	28	-	780
*83	KAKKI	981.46	947.49	0.447	0.097	04-05-2017	22	35	32	23	300
*84	PERIYAR	867.41	858.92	0.173	0.009	04-05-2017	5	8	27	84	140
85	MALAPMUZHA	115.06	101.33	0.224	0.023	04-05-2017	10	9	21	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	260.68	0.792	0.071	04-05-2017	9	4	27	105	8
*87	METTUR(STANLEY)	240.79	211.08	2.647	0.138	04-05-2017	5	19	36	122	360
88	VAIGAI	279.20	264.48	0.172	0.004	04-05-2017	2	7	22	61	6
89	PARAMBIKULAM	556.26	535.86	0.380	0.019	04-05-2017	5	11	31	101	-
90	ALIYAR	320.04	307.71	0.095	0.025	04-05-2017	26	13	52	#	60
*91	SHOLAYAR	1002.79	958.75	0.143	0.000	04-05-2017	0	0	4	-	95
TOTAL FOR 91 RESERVOIRS				157.799	41.066						
PERCENTAGE							26	20	24		

Sd/-

Director

W. M. , CWC

* 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.

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