

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 05.10.2017)

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 **05.10.2017**, live storage available in these reservoirs is **105.851 BCM**, which is **67%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **118.122 BCM** and the average of last 10 years live storage was **118.977 BCM**. Thus, the live storage available in 91 reservoirs **as per 05.10.2017 Bulletin** is **90%** of the live storage of corresponding period of last year and **89%** 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 **05.10.2017**, the total live storage available in these reservoirs is **14.73 BCM** which is **82%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **75%** and average storage of last ten years during corresponding period was **81%** 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.

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 **05.10.2017**, the total live storage available in these reservoirs is **14.51 BCM** which is **77%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **85%** and average storage of last ten years during corresponding period was **78%** 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.

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 **05.10.2017**, the total live storage available in these reservoirs is **20.77 BCM** which is **77%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **83%** and average storage of last ten years during corresponding period was **80%** 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 **05.10.2017**, the total live storage available in these reservoirs is **27.38 BCM** which is **65%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **91%** and average storage of last ten years during corresponding period was **73%** 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 (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 **05.10.2017**, the total live storage available in these reservoirs is **28.46 BCM** which is **55%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **53%** and average storage of last ten years during corresponding period was **72%** 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 Indus, Sabarmati, Mahi, Rivers of Kutch and Ganga. Close to Normal in Godavari, Mahanadi & neighbouring East Flowing Rivers, Cauvery & neighbouring EFRs and West Flowing Rivers of South. Deficient in Narmada, Tapi 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 **41** and reservoirs having storage more than average of last ten years are **46**. The numbers of reservoirs having storage less than 20% with respect to last year is **0** and having storage less than 20% with reference to average of last ten years is **2**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **7** and having storage less than or equal to 50% with reference to average of last ten years are **8**.

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 05.10.2017

- 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 **05.10.2017** is **105.851** BCM (**67** percent of the live storage capacity at FRL).The current year's storage is nearly **90** percent of last year's storage and **89** 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.)	2	-	2	-	1	1	-	-	H.P.	1	%
									PUNJAB	11	%
									RAJASTHAN	-4	%
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	2	4	3	1	-	3	2	-	JHARKHAND	6	%
									ODISHA	-6	%
									W. BENGAL	29	%
									TRIPURA	61	%
WEST (Guj.& Mah.), (27 Resv.)	10	8	1	2	2	1	-	3	GUJARAT	-15	%
									MAH.	7	%
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	2	1	2	4	1	-	2	U.P.	25	%
									UTTARAKHAND	-3	%
									M.P.	-19	%
									CHHATISGARH	-16	%
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	1	1	4	3	9	2	4	7	AP&TG	-46	%
									A,P	-33	%
									TG	-33	%
									KARNATAKA	-15	%
									KERALA	-5	%
									T.N.	8	%
Status of 91 reservoirs	15	15	11	8	16	8	6	12			

4 Basin wise storage position:

Better than normal: Ganga,Mahi,Indus,Sabarmati, Rivers of Kutch .

Close to normal: Godavari ,Mahanadi & Neighbouring EFRS, Cauvery & neighbouring EFRS and West Flowing Rivers of Sout

Deficient: Narmada ,Tapi and Krishna .

Highly deficient: NIL

- Out of 91 reservoirs, **65** reservoirs reported more than 80% of normal storage & **26** reservoirs reported 80% or below of normal storage. Out of these **26** reservoirs **8** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
NAGARJUNA SAGAR	8		
VANIVILAS SAGAR	13		
ISAPUR	22		
YELDARI	25		
HEMAVATHY	43		
MAHANADI	43		
INDIRA SAGAR	47		
PENCH (TOTALADOH)	50		

18 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
3	5	10

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

19 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 :- 05.10.2017

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	20.266	72.13%	24.490	87.17%	18.498	65.84%	9.56
INDUS	14.730	12.098	82.13%	10.314	70.02%	11.796	80.08%	2.56
NARMADA	17.414	10.359	59.49%	17.152	98.50%	15.088	86.64%	-31.34
TAPI	7.394	4.010	54.23%	6.559	88.71%	6.123	82.81%	-34.51
MAHI	4.012	3.560	88.73%	3.520	87.74%	3.253	81.08%	9.44
SABARMATI	0.735	0.735	100.00%	0.714	97.14%	0.545	74.15%	34.86
RIVERS OF KUTCH	0.887	0.748	84.33%	0.307	34.61%	0.533	60.09%	40.34
GODAVARI	15.394	8.773	56.99%	12.105	78.63%	10.215	66.36%	-14.12
KRISHNA	32.831	19.995	60.90%	19.901	60.62%	25.389	77.33%	-21.25
MAHANADI & NEIGHBOURING EFRS	13.181	10.895	82.66%	11.239	85.27%	11.189	84.89%	-2.63
CAUVERY & NEIGHBOURING EFRS	8.359	4.546	54.38%	3.081	36.86%	4.910	58.74%	-7.41
WEST FLOWING RIVERS OF SOUTH	14.766	9.866	66.82%	8.740	59.19%	11.438	77.46%	-13.74
TOTAL	157.799	105.851		118.122		118.977		
PERCENTAGE								-11.03

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 05.10.2017

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	508.48	6.229	5.397	03-10-2017	87	73	87	676	1200
*2	PONG DAM	423.67	420.10	6.157	5.072	04-10-2017	82	69	80	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	518.37	2.344	1.629	05-10-2017	69	66	63	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	281.45	1.711	1.711	05-10-2017	100	100	87	63	140
5	JHAKAM	359.50	359.60	0.132	0.132	05-10-2017	100	100	85	28	-
*6	RANA PRATAP SAGAR	352.81	349.30	1.436	0.793	04-10-2017	55	98	81	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	260.36	0.821	0.431	05-10-2017	52	50	45	-	-
8	MAITHON	146.3	147.79	0.471	0.471	05-10-2017	100	100	95	342	-
*9	PANCHET HILL	124.97	127.07	0.184	0.184	05-10-2017	100	100	94	\$	80
10	KONAR	425.81	423.87	0.176	0.142	05-10-2017	81	100	90	\$	-
11	TILAIYA	368.81	368.16	0.142	0.120	05-10-2017	85	100	87	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	192.11	5.378	4.875	04-10-2017	91	90	96	153	307
*13	BALIMELA	462.08	451.29	2.676	1.092	04-10-2017	41	79	57	-	360
14	SALANADI	82.30	70.48	0.558	0.227	04-10-2017	41	56	58	42	-
*15	RENGALI	123.50	123.39	3.432	3.412	04-10-2017	99	90	83	3	200
*16	MACHKUND(JALPUT)	838.16	837.07	0.893	0.788	04-10-2017	88	92	87	-	115
*17	UPPER KOLAB	858.00	852.87	0.935	0.492	04-10-2017	53	84	67	89	320
*18	UPPER INDRAVATI	642.00	636.01	1.456	0.844	04-10-2017	58	80	79	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	120.31	0.480	0.450	05-10-2017	94	86	66	227	-
20	KANGSABATI	134.14	131.28	0.914	0.682	05-10-2017	75	83	61	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	93.35	0.312	0.303	03-10-2017	97	83	60	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	98.53	6.615	3.415	05-10-2017	52	89	85	348	300
23	SABARMATI(DHAROI)	189.59	189.58	0.735	0.735	05-10-2017	100	97	74	95	1
*24	KADANA	127.7	127.48	1.472	1.168	05-10-2017	79	85	77	200	120
25	SHETRANJI	55.53	53.82	0.300	0.182	05-10-2017	61	55	77	36	-
26	BHADAR	107.89	107.68	0.188	0.179	05-10-2017	95	7	69	27	-
27	DAMANAGANGA	79.86	79.95	0.502	0.481	05-10-2017	96	96	96	51	1
28	DANTIWADA	184.1	184.01	0.399	0.387	05-10-2017	97	32	44	45	-
29	PANAM	127.41	127.35	0.697	0.549	05-10-2017	79	62	74	36	2
*30	SARDAR SAROVAR	121.92	130.32	1.566	1.566	05-10-2017	100	100	90	2120	1450
31	KARJAN	115.25	113.91	0.523	0.489	05-10-2017	93	57	91	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 05.10.2017

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	463.91	2.171	2.171	03-10-2017	100	73	50	227	-
*33	KOYANA	657.90	659.16	2.652	2.652	04-10-2017	100	100	97	-	1920
34	BHIMA(UJJANI)	496.83	497.30	1.517	1.517	03-10-2017	100	100	78	125	12
35	ISAPUR	441.00	428.91	0.965	0.140	04-10-2017	15	45	65	104	-
36	MULA	552.30	552.29	0.609	0.609	04-10-2017	100	100	82	139	-
37	YELDARI	461.77	451.14	0.809	0.096	04-10-2017	12	21	48	78	-
38	GIRNA	398.07	394.33	0.524	0.342	04-10-2017	65	80	48	79	-
39	KHADAKVASLA	582.47	582.41	0.056	0.055	04-10-2017	98	93	75	78	8
*40	UPPER VAITARNA	603.50	603.50	0.331	0.331	04-10-2017	100	100	93	-	61
41	UPPER TAPI	214.00	213.97	0.255	0.253	04-10-2017	99	89	97	45	-
*42	PENCH (TOTALADOH)	490.00	480.55	1.091	0.436	04-10-2017	40	58	80	127	160
43	UPPER WARDHA	342.50	342.50	0.564	0.564	05-10-2017	100	100	94	70	-
44	BHATSA	142.07	141.74	0.942	0.934	04-10-2017	99	100	95	29.378	15
45	DHOM	747.70	746.98	0.331	0.314	04-10-2017	95	100	89	36.2	2
46	DUDHGANGA	646.00	646.00	0.664	0.664	04-10-2017	100	100	97	2.441	24
47	MANIKDOH (KUKADI)	711.25	708.04	0.288	0.233	04-10-2017	81	72	58	2.2	6
48	BHANDARDARA	744.91	744.73	0.304	0.304	04-10-2017	100	100	97	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	308.46	0.707	0.641	04-10-2017	91	91	88	-	30
*50	RIHAND	268.22	263.62	5.649	3.679	05-10-2017	65	77	50	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	352.82	2.196	1.333	05-10-2017	61	54	72	1897	198
*52	TEHRI	830.00	824.65	2.615	2.398	05-10-2017	92	92	87	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	396.66	6.827	4.739	05-10-2017	69	96	59	220	115
54	TAWA	355.40	352.26	1.944	1.490	05-10-2017	77	100	98	247	-
*55	BARGI	422.76	421.20	3.180	2.786	05-10-2017	88	100	93	157	90
*56	BANSAGAR	341.64	338.79	5.166	3.900	05-10-2017	75	100	71	488	425
*57	INDIRA SAGAR	262.13	253.98	9.745	3.766	05-10-2017	39	100	82	2380	1000
58	BARNA	348.55	345.49	0.456	0.262	05-10-2017	57	92	80	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	354.82	3.046	2.105	05-10-2017	69	73	72	-	120
60	MAHANADI	348.70	342.28	0.767	0.276	04-10-2017	36	100	84	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	268.53	8.288	5.380	05-10-2017	65	68	73	0	770
*62	NAGARJUNA SAGAR	179.83	157.79	6.841	0.381	05-10-2017	6	17	68	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	89.70	1.994	0.677	05-10-2017	34	46	51	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	327.23	2.300	1.034	05-10-2017	45	100	63	411	27
65	LOWER MANAIR	280.42	272.20	0.621	0.203	05-10-2017	33	100	64	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 05.10.2017

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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
KARNATAKA											
66	KRISHNARAJA SAGRA	752.50	747.96	1.163	0.771	04-10-2017	66	27	79	79	-
*67	TUNGABHADRA	497.74	495.77	3.276	2.206	05-10-2017	67	40	79	529	72
68	GHATAPRABHA	662.95	660.06	1.391	1.170	04-10-2017	84	84	89	317	-
69	BHADRA	657.76	652.43	1.785	1.214	04-10-2017	68	52	89	106	39
70	LINGANAMAKKI	554.43	548.18	4.294	2.614	04-10-2017	61	58	83	-	55
71	NARAYANPUR	492.25	492.16	0.863	0.728	05-10-2017	84	85	86	425	-
72	MALAPRABHA(RENUKA)	633.83	627.74	0.972	0.362	04-10-2017	37	36	67	215	-
73	KABINI(Sancherla Tank)	696.16	695.23	0.444	0.390	04-10-2017	88	55	51	85	-
74	HEMAVATHY	890.63	879.87	0.927	0.313	04-10-2017	34	22	79	265	-
75	HARANGI	871.42	871.02	0.220	0.216	04-10-2017	98	86	84	53	-
76	SUPA	564.00	548.84	4.120	2.483	04-10-2017	60	58	69	-	-
77	VANIVILAS SAGAR	652.28	631.99	0.802	0.014	04-10-2017	2	5	13	123	-
*78	ALMATTI	519.60	519.60	3.105	3.105	05-10-2017	100	100	92	@	290
*79	GERUSOPPA	55.00	51.47	0.130	0.110	04-10-2017	85	73	75	83	240
KERALA											
80	KALLADA(PARAPPAR)	115.82	111.03	0.507	0.382	04-10-2017	75	32	72	62	-
*81	IDAMALAYAR	169.00	159.80	1.018	0.754	04-10-2017	74	58	76	33	75
*82	IDUKKI	732.43	721.52	1.460	0.895	04-10-2017	61	46	67	-	780
*83	KAKKI	981.46	972.80	0.447	0.315	04-10-2017	70	62	77	23	300
*84	PERIYAR	867.41	863.52	0.173	0.086	04-10-2017	50	11	45	84	140
85	MALAPMUZHA	115.06	111.13	0.224	0.140	05-10-2017	63	41	80	21	3
TAMIL NADU											
86	LOWER BHAWANI	278.89	273.46	0.792	0.478	04-10-2017	60	18	48	105	8
*87	METTUR(STANLEY)	240.79	233.11	2.647	1.650	04-10-2017	62	40	53	122	360
88	VAIGAI	279.20	272.37	0.172	0.051	04-10-2017	30	3	35	61	6
89	PARAMBIKULAM	556.26	546.60	0.380	0.190	04-10-2017	50	35	81	101	-
90	ALIYAR	320.04	310.59	0.095	0.039	04-10-2017	41	12	80	#	60
*91	SHOLAYAR	1002.79	999.43	0.143	0.112	04-10-2017	78	38	89	-	95
TOTAL FOR 91 RESERVOIRS				157.799	105.851						
PERCENTAGE							67	75	75		

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