

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 27.07.2017)

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 **27.07.2017**, live storage available in these reservoirs is **60.906 BCM**, which is **39%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **58.567 BCM** and the average of last 10 years live storage was **60.667 BCM**. Thus, the live storage available in 91 reservoirs **as per 27.07.2017 Bulletin** is **104%** of the live storage of corresponding period of last year and **100%** 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 **27.07.2017**, the total live storage available in these reservoirs is **9.24 BCM** which is **51%** 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 **44%** 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 **27.07.2017**, the total live storage available in these reservoirs is **8.20 BCM** which is **44%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **32%** 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 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 **27.07.2017**, the total live storage available in these reservoirs is **11.91 BCM** which is **44%** 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 **39%** 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 **27.07.2017**, the total live storage available in these reservoirs is **18.43 BCM** which is **44%** 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 **35%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the storage of last year but is 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 **27.07.2017**, the total live storage available in these reservoirs is **13.12 BCM** which is **25 %** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **30%** and average storage of last ten years during corresponding period was **41%** 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 Indus, Sabarmati, Godavari, Mahi, Mahanadi & neighbouring East Flowing Rivers, Rivers of Kutch and Ganga. Close to Normal in Tapi, Narmada, and West Flowing Rivers of South. Deficient in Cauvery & neighbouring EFRs 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 **45** and reservoirs having storage more than average of last ten years are **51**. The numbers of reservoirs having storage less than 20% with respect to last year is **3** and having storage less than 20% with reference to average of last ten years is **9**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **12** and having storage less than or equal to 50% with reference to average of last ten years are **22**.

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 27.07.2017

- 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 **27.07.2017** is **60.906** BCM (**39** percent of the live storage capacity at FRL).The current year's storage is nearly **104** percent of last year's storage and **100** 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	3	1	H.P.	7 %
									PUNJAB	66 %
									RAJASTHAN	10 %
EAST (Jharkhand, Odisha, Tripura & W. Bengal (15 Resv.)	1	2	2	1	2	-	2	5	JHARKHAND	69 %
									ODISHA	25 %
									W. BENGAL	75 %
									TRIPURA	97 %
WEST (Guj.& Mah.), (27 Resv.)	1	1	2	2	4	3	3	11	GUJARAT	10 %
									MAH.	19 %
CENTRAL (MP, UP, Uttarakhand & Chh.), (12 Resv)	-	-	-	1	1	2	4	4	U.P.	65 %
									UTTARAKHAND	68 %
									M.P.	12 %
									CHHATISGARH	13 %
SOUTH (Karnataka, TN, AP&TG, AP, TG, & Kerala), (31 Resv.)	1	-	1	1	2	1	2	23	AP&TG	-88 %
									A,P	-59 %
									TG	-38 %
									KARNATAKA	-13 %
									KERALA	-47 %
									T.N.	-79 %
Status of 91 reservoirs	3	3	5	6	9	7	14	44		

4 Basin wise storage position:

Better than normal: Ganga, Mahi, Indus, Sabarmati, Mahanadi & Neighbouring EFRS, Rivers of Kutch and Godavari .

Close to normal: Tapi, Narmada, and West Flowing Rivers of South.

Deficient: Cauvery & neighbouring EFRS and Krishna

Highly deficient: NIL

- 5 Out of 91 reservoirs, **57** reservoirs reported more than 80% of normal storage & **34** reservoirs reported 80% or below of normal storage. Out of these **34** reservoirs **22** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
NAGARJUNA SAGAR	0	MALAMPUZHA	42
BHIMA(UJJANI)	12	SRIRAMSAGAR	44
UPPER TAPI	13	KAKKI	44
VANIVILAS SAGAR	14	KRISHNARAJA SAGRA	45
METTUR(STANLEY)	16	BHADRA	46
ISAPUR	17		
PERIYAR	19		
MATATILA	20		
ALIYAR	20		
SRISAILAM	21		
YELDARI	22		
SHOLAYAR	23		
VAIGAI	28		
PENCH (TOTALADOH)	28		
LOWER BHAWANI	32		
PARAMBIKULAM	36		
SOMASILA	41		

12 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
4	5	3

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

15 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 :- 27.07.2017

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	15.273	54.36%	11.098	39.50%	9.361	33.32%	63.16
INDUS	14.730	7.739	52.54%	4.694	31.87%	6.642	45.09%	16.52
NARMADA	17.414	5.664	32.53%	12.118	69.59%	7.054	40.51%	-19.71
TAPI	7.394	2.356	31.86%	2.532	34.24%	2.702	36.54%	-12.81
MAHI	4.012	2.213	55.16%	1.295	32.28%	1.603	39.96%	38.05
SABARMATI	0.735	0.371	50.48%	0.182	24.76%	0.188	25.58%	97.34
RIVERS OF KUTCH	0.887	0.361	40.70%	0.072	8.12%	0.201	22.66%	79.60
GODAVARI	15.394	4.505	29.26%	4.937	32.07%	4.106	26.67%	9.72
KRISHNA	32.831	9.240	28.14%	9.327	28.41%	13.254	40.37%	-30.29
MAHANADI & NEIGHBOURING EFRS	13.181	5.585	42.37%	3.659	27.76%	4.866	36.92%	14.78
CAUVERY & NEIGHBOURING EFRS	8.359	1.753	20.97%	2.619	31.33%	4.051	48.46%	-56.73
WEST FLOWING RIVERS OF SOUTH	14.766	5.846	39.59%	6.034	40.86%	6.639	44.96%	-11.94
TOTAL	157.799	60.906		58.567		60.667		
PERCENTAGE								0.39

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 27.07.2017

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
<u>NORTHERN REGION</u>											
<u>HIMACHAL PRADESH</u>											
*1	GOBIND SAGAR(BHAKRA)	512.06	492.82	6.229	3.232	27-07-2017	52	38	51	676	1200
*2	PONG DAM	423.67	408.02	6.157	2.666	27-07-2017	43	22	38	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	521.33	2.344	1.841	26-07-2017	79	39	47	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	272.35	1.711	0.801	22-07-2017	47	36	36	63	140
5	JHAKAM	359.50	349.60	0.132	0.052	22-07-2017	39	8	23	28	-
*6	RANA PRATAP SAGAR	352.81	348.45	1.436	0.649	26-07-2017	45	67	51	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	263.32	0.821	0.563	27-07-2017	69	45	39	-	-
8	MAITHON	146.3	146.24	0.471	0.438	27-07-2017	93	51	51	342	-
*9	PANCHET HILL	124.97	131.24	0.184	0.184	27-07-2017	100	79	78	\$	80
10	KONAR	425.81	423.22	0.176	0.131	27-07-2017	74	45	51	\$	-
11	TILAIYA	368.81	368.49	0.142	0.130	27-07-2017	92	25	42	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	185.38	5.378	1.476	27-07-2017	27	24	34	153	307
*13	BALIMELA	462.08	449.18	2.676	0.858	26-07-2017	32	45	20	-	360
14	SALANADI	82.30	68.92	0.558	0.195	26-07-2017	35	12	28	42	-
*15	RENGALI	123.50	117.58	3.432	1.581	26-07-2017	46	24	24	3	200
*16	MACHKUND(JALPUT)	838.16	830.72	0.893	0.432	26-07-2017	48	48	43	-	115
*17	UPPER KOLAB	858.00	850.31	0.935	0.300	26-07-2017	32	33	22	89	320
*18	UPPER INDRAVATI	642.00	632.88	1.456	0.571	25-07-2017	39	37	29	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	117.35	0.480	0.301	27-07-2017	63	45	50	227	-
20	KANGSABATI	134.14	132.34	0.914	0.787	27-07-2017	86	24	42	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	92.30	0.312	0.254	25-07-2017	81	53	41	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	95.05	6.615	2.137	27-07-2017	32	37	39	348	300
23	SABARMATI(DHAROI)	189.59	185.40	0.735	0.371	24-07-2017	50	25	26	95	1
*24	KADANA	127.7	125.60	1.472	0.980	27-07-2017	67	33	44	200	120
25	SHETRUNJI	55.53	50.67	0.300	0.064	22-07-2017	21	19	36	36	-
26	BHADAR	107.89	103.69	0.188	0.054	22-07-2017	29	3	32	27	-
27	DAMANAGANGA	79.86	71.90	0.502	0.178	27-07-2017	35	47	33	51	1
28	DANTIWADA	184.1	179.53	0.399	0.243	24-07-2017	61	2	8	45	-
29	PANAM	127.41	124.60	0.697	0.380	27-07-2017	55	27	46	36	2
*30	SARDAR SAROVAR	121.92	118.89	1.566	1.059	27-07-2017	68	71	62	2120	1450
31	KARJAN	115.25	108.97	0.523	0.346	27-07-2017	66	11	44	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 27.07.2017

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	459.56	2.171	0.787	25-07-2017	36	0	12	227	-
*33	KOYANA	657.90	651.94	2.652	2.064	26-07-2017	78	55	60	-	1920
34	BHIMA(UJJANI)	496.83	493.44	1.517	0.035	27-07-2017	2	0	19	125	12
35	ISAPUR	441.00	427.19	0.965	0.058	26-07-2017	6	11	36	104	-
36	MULA	552.30	546.82	0.609	0.352	27-07-2017	58	48	32	139	-
37	YELDARI	461.77	448.71	0.809	0.027	27-07-2017	3	0	15	78	-
38	GIRNA	398.07	390.47	0.524	0.208	26-07-2017	40	6	10	79	-
39	KHADAKVASLA	582.47	582.47	0.056	0.056	26-07-2017	100	82	61	78	8
*40	UPPER VAITARNA	603.50	601.80	0.331	0.276	26-07-2017	83	61	50	-	61
41	UPPER TAPI	214.00	208.15	0.255	0.011	26-07-2017	4	23	34	45	-
*42	PENCH (TOTALADOH)	490.00	470.70	1.091	0.111	26-07-2017	10	58	36	127	160
43	UPPER WARDHA	342.50	338.10	0.564	0.239	27-07-2017	42	76	56	70	-
44	BHATSA	142.07	136.18	0.942	0.788	26-07-2017	84	71	54	29.378	15
45	DHOM	747.70	739.73	0.331	0.171	26-07-2017	52	53	48	36.2	2
46	DUDHGANGA	646.00	639.99	0.664	0.486	26-07-2017	73	50	61	2.441	24
47	MANIKDOH (KUKADI)	711.25	701.75	0.288	0.142	26-07-2017	49	36	21	2.2	6
48	BHANDARDARA	744.91	744.12	0.304	0.289	26-07-2017	95	59	53	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	301.26	0.707	0.070	26-07-2017	10	68	50	-	30
*50	RIHAND	268.22	259.66	5.649	2.107	27-07-2017	37	17	17	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	324.15	2.196	1.720	27-07-2017	78	24	36	1897	198
*52	TEHRI	830.00	791.75	2.615	1.230	27-07-2017	47	40	37	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	394.42	6.827	3.657	26-07-2017	54	41	30	220	115
54	TAWA	355.40	347.02	1.944	0.820	27-07-2017	42	85	62	247	-
*55	BARGI	422.76	415.00	3.180	1.350	27-07-2017	42	68	42	157	90
*56	BANSAGAR	341.64	336.57	5.166	3.052	26-07-2017	59	56	36	488	425
*57	INDIRA SAGAR	262.13	249.42	9.745	1.949	27-07-2017	20	69	32	2380	1000
58	BARNA	348.55	343.03	0.456	0.140	26-07-2017	31	86	44	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	354.20	3.046	2.014	26-07-2017	66	36	55	-	120
60	MAHANADI	348.70	342.98	0.767	0.319	26-07-2017	42	51	49	319	10
SOUTHERN REGION											
A.P & TG											
*61	SRISAILAM	269.75	237.07	8.288	0.456	27-07-2017	6	9	27	0	770
*62	NAGARJUNA SAGAR	179.83	152.67	6.841	0.000	27-07-2017	0	0	25	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	82.03	1.994	0.205	27-07-2017	10	16	25	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	321.69	2.300	0.271	27-07-2017	12	32	27	411	27
65	LOWER MANAIR	280.42	272.40	0.621	0.210	27-07-2017	34	11	26	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
<u>KARNATAKA</u>											
66	KRISHNARAJA SAGRA	752.50	741.71	1.163	0.317	27-07-2017	27	44	61	79	-
*67	TUNGABHADRA	497.74	490.57	3.276	0.970	27-07-2017	30	35	57	529	72
68	GHATAPRABHA	662.95	653.19	1.391	0.744	27-07-2017	53	44	53	317	-
69	BHADRA	657.76	643.89	1.785	0.530	27-07-2017	30	38	65	106	39
70	LINGANAMAKKI	554.43	542.24	4.294	1.500	27-07-2017	35	36	47	-	55
71	NARAYANPUR	492.25	491.60	0.863	0.656	27-07-2017	76	81	65	425	-
72	MALAPRABHA(RENUKA)	633.83	625.62	0.972	0.223	27-07-2017	23	15	31	215	-
73	KABINI(Sancherla Tank)	696.16	692.93	0.444	0.271	27-07-2017	61	64	56	85	-
74	HEMAVATHY	890.63	881.30	0.927	0.393	27-07-2017	42	47	68	265	-
75	HARANGI	871.42	871.18	0.220	0.220	27-07-2017	100	99	84	53	-
76	SUPA	564.00	542.70	4.120	1.962	27-07-2017	48	34	37	-	-
77	VANIVILAS SAGAR	652.28	631.91	0.802	0.013	27-07-2017	2	5	12	123	-
*78	ALMATTI	519.60	518.65	3.105	2.694	27-07-2017	87	100	67	@	290
*79	GERUSOPPA	55.00	46.68	0.130	0.086	27-07-2017	66	75	82	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	96.74	0.507	0.148	27-07-2017	29	57	49	62	-
*81	IDAMALAYAR	169.00	139.44	1.018	0.298	27-07-2017	29	43	45	33	75
*82	IDUKKI	732.43	706.86	1.460	0.324	27-07-2017	22	39	42	-	780
*83	KAKKI	981.46	947.96	0.447	0.100	27-07-2017	22	54	51	23	300
*84	PERIYAR	867.41	859.46	0.173	0.017	27-07-2017	10	35	53	84	140
85	MALAPMUZHA	115.06	104.64	0.224	0.049	27-07-2017	22	31	53	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	263.87	0.792	0.130	27-07-2017	16	26	52	105	8
*87	METTUR(STANLEY)	240.79	213.19	2.647	0.206	27-07-2017	8	24	50	122	360
88	VAIGAI	279.20	266.77	0.172	0.011	27-07-2017	6	4	23	61	6
89	PARAMBIKULAM	556.26	540.37	0.380	0.084	27-07-2017	22	34	62	101	-
90	ALIYAR	320.04	304.13	0.095	0.012	27-07-2017	13	23	62	#	60
*91	SHOLAYAR	1002.79	975.88	0.143	0.024	27-07-2017	17	55	74	-	95
TOTAL FOR 91 RESERVOIRS				157.799	60.906						
PERCENTAGE							39	37	38		

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