

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 14.07.2016)

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 **14.07.2016**, live storage available in these reservoirs is **45.492 BCM**, which is **29%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **54.929 BCM** and the average of last 10 years live storage was **45.071 BCM**. Thus, the live storage available in 91 reservoirs **as per 14.07.2016 Bulletin** is **83%** 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 **less than the** corresponding period of last year in the country as a whole but 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 **14.07.2016**, the total live storage available in these reservoirs is **5.08 BCM** which is **28%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **51%** and average storage of last ten years during corresponding period was **38%** 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 **14.07.2016**, the total live storage available in these reservoirs is **4.02 BCM** which is **21%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **43%** and average storage of last ten years during corresponding period was **22%** 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 **14.07.2016**, the total live storage available in these reservoirs is **6.55 BCM** which is **24%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **25%** and average storage of last ten years during corresponding period was **30%** 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

14.07.2016, the total live storage available in these reservoirs is **18.71 BCM** which is **44%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **36%** and average storage of last ten years during corresponding period was **21%** 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 **14.07.2016**, the total live storage available in these reservoirs is **11.41 BCM** which is **22%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **31%** and average storage of last ten years during corresponding period was **33%** 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 8, better than normal storage is available in Ganga, Narmada, Godavari and West flowing rivers of South. Close to Normal in Sabarmati. Deficient in Indus, Tapi, Mahi, Krishna, Rivers of Kutch, Mahanadi & neighbouring East Flowing Rivers and Cauvery & neighbouring EFRs and Nil in Highly Deficient.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **32** and reservoirs having storage more than average of last ten years are **37**. The numbers of reservoirs having storage less than 20% with respect to last year is **9** 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 **27** and having storage less than or equal to 50% with reference to average of last ten years are **27**.

STORAGE STATUS OF IMPORTANT RESERVOIRS IN THE COUNTRY

AS ON 14.07.2016

- 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 **14.07.2016** is **45.492** BCM (**29** percent of the live storage capacity at FRL).The current year's storage is nearly **83** 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	-	-	5	H.P.	-34 %
									PUNJAB	-32 %
									RAJASTHAN	13 %
EAST (Jharkhand, Odisha, Tripura & W. Bengal (15 Resv.)	-	-	-	-	-	2	2	11	JHARKHAND	-14 %
									ODISHA	1 %
									W. BENGAL	-34 %
									TRIPURA	53 %
WEST (Guj.& Mah.), (27 Resv.)	-	1	-	-	1	3	1	21	GUJARAT	-27 %
									MAH.	-13 %
CENTRAL (MP, UP, Uttarakhand & Chh.), (12 Resv)	-	-	-	2	2	-	2	6	U.P.	29 %
									UTTARAKHAND	-24 %
									M.P.	199 %
									CHHATISGARH	-29 %
SOUTH (Karnataka, TN, AP&TG, AP, TG, & Kerala), (31 Resv.)	-	1	-	1	-	2	3	24	AP&TG	-86 %
									A,P	-24 %
									TG	14 %
									KARNATAKA	-13 %
									KERALA	9 %
									T.N.	-58 %
Status of 91 reservoirs	0	2	0	3	4	7	8	67		

4 Basin wise storage position:

Better than normal: Ganga, Narmada, Godavari and West Flowing rivers of south.

Close to normal: Sabarmati

Deficient: Indus, Tapi, Mahi, Krishna, Rivers of Kutch, Mahanadi & Neighbouring EFRS and Cauvery & neighbouring EFRS

Highly deficient:

- 5 Out of 91 reservoirs, **46** reservoirs reported more than 80% of normal storage & **45** reservoirs reported 80% or below of normal storage. Out of these **45** reservoirs **27** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%	Name of reservoir	%
NAGARJUNA SAGAR	0	JHAKAM	29	PARAMBIKULAM	49
BHIMA(UJJANI)	0	DANTIWADA	32	ALIYAR	49
JAYAKWADI(PAITHON)	0	MALAPRABHA(RENUKA)	32	PANAM	49
GIRNA	0	NARAYANPUR	33		
YELDARI	0	METTUR(STANLEY)	36		
BHADAR	11	RAMGANGA	38		
RENGALI	12	LOWER BHAWANI	43		
KARJAN	19	VANIVILAS SAGAR	43		
ISAPUR	19	KADANA	45		
VAIGAI	22	LOWER MANAIR	46		
SALANADI	23	PONG DAM	47		
SRISAILAM	29	HEMAVATHY	48		

18 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
5	6	7

- 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 :- 14.07.2016

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	9.248	32.92%	11.217	39.92%	6.515	23.19%	41.95
INDUS	14.730	3.767	25.57%	8.220	55.80%	5.663	38.45%	-33.48
NARMADA	17.414	10.886	62.51%	3.962	22.75%	3.477	19.97%	213.09
TAPI	7.394	1.652	22.34%	1.432	19.37%	2.111	28.55%	-21.74
MAHI	4.012	0.887	22.11%	1.647	41.05%	1.540	38.38%	-42.40
SABARMATI	0.735	0.166	22.59%	0.167	22.72%	0.184	25.03%	-9.78
RIVERS OF KUTCH	0.887	0.074	8.34%	0.438	49.38%	0.189	21.31%	-60.85
GODAVARI	15.394	3.738	24.28%	3.747	24.34%	3.076	19.98%	21.52
KRISHNA	32.831	5.826	17.75%	8.220	25.04%	10.595	32.27%	-45.01
MAHANADI & NEIGHBOURING EFRS	13.181	1.948	14.78%	6.544	49.65%	3.395	25.76%	-42.62
CAUVERY & NEIGHBOURING EFRS	8.359	2.085	24.94%	4.197	50.21%	3.451	41.28%	-39.58
WEST FLOWING RIVERS OF SOUTH	14.766	5.215	35.32%	5.138	34.80%	4.875	33.02%	6.97
TOTAL	157.799	45.492		54.929		45.071		
PERCENTAGE								0.93

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 14.07.2016

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	481.89	6.229	2.064	14-07-2016	33	58	42	676	1200
*2	PONG DAM	423.67	395.28	6.157	0.886	13-07-2016	14	43	30	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	504.26	2.344	0.817	14-07-2016	35	85	51	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	267.55	1.711	0.425	12-07-2016	25	33	32	63	140
5	JHAKAM	359.50	337.45	0.132	0.009	12-07-2016	7	17	21	28	-
*6	RANA PRATAP SAGAR	352.81	349.84	1.436	0.883	12-07-2016	61	24	41	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	258.88	0.821	0.373	14-07-2016	45	39	38	-	-
8	MAITHON	146.3	139.14	0.471	0.130	14-07-2016	28	45	52	342	-
*9	PANCHET HILL	124.97	123.35	0.184	0.111	14-07-2016	60	80	67	\$	80
10	KONAR	425.81	417.44	0.176	0.052	14-07-2016	30	32	43	\$	-
11	TILAIYA	368.81	365.16	0.142	0.033	14-07-2016	23	35	41	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	182.22	5.378	0.535	13-07-2016	10	44	16	153	307
*13	BALIMELA	462.08	451.53	2.676	1.122	13-07-2016	42	49	13	-	360
14	SALANADI	82.30	57.15	0.558	0.039	13-07-2016	7	42	30	42	-
*15	RENGALI	123.50	111.20	3.432	0.066	13-07-2016	2	40	16	3	200
*16	MACHKUND(JALPUT)	838.16	828.78	0.893	0.288	13-07-2016	32	44	37	-	115
*17	UPPER KOLAB	858.00	849.64	0.935	0.259	13-07-2016	28	41	20	89	320
*18	UPPER INDRAVATI	642.00	631.86	1.456	0.488	14-07-2016	34	29	22	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	113.45	0.480	0.160	13-07-2016	33	55	42	227	-
20	KANGSABATI	134.14	123.14	0.914	0.196	14-07-2016	21	41	37	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	90.15	0.312	0.164	13-07-2016	53	45	34	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	92.48	6.615	1.558	14-07-2016	24	20	30	348	300
23	SABARMATI(DHAROI)	189.59	181.87	0.735	0.166	12-07-2016	23	23	25	95	1
*24	KADANA	127.7	115.90	1.472	0.301	12-07-2016	20	48	45	200	120
25	SHETRUNJI	55.53	50.42	0.300	0.059	12-07-2016	20	90	35	36	-
26	BHADAR	107.89	99.49	0.188	0.006	12-07-2016	3	81	30	27	-
27	DAMANAGANGA	79.86	72.10	0.502	0.184	14-07-2016	37	25	21	51	1
28	DANTIWADA	184.1	164.79	0.399	0.009	12-07-2016	2	4	7	45	-
29	PANAM	127.41	118.85	0.697	0.152	12-07-2016	22	49	44	36	2
*30	SARDAR SAROVAR	121.92	115.65	1.566	0.597	14-07-2016	38	40	36	2120	1450
31	KARJAN	115.25	86.80	0.523	0.038	14-07-2016	7	32	39	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 14.07.2016

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	454.61	2.171	0.000	14-07-2016	0	0	15	227	-
*33	KOYANA	657.90	639.57	2.652	1.064	13-07-2016	40	44	47	-	1920
34	BHIMA(UJJANI)	496.83	486.96	1.517	0.000	13-07-2016	0	0	17	125	12
35	ISAPUR	441.00	427.14	0.965	0.056	13-07-2016	6	22	31	104	-
36	MULA	552.30	540.10	0.609	0.130	11-07-2016	21	5	15	139	-
37	YELDARI	461.77	446.75	0.809	0.000	13-07-2016	0	1	12	78	-
38	GIRNA	398.07	380.33	0.524	0.000	13-07-2016	0	9	12	79	-
39	KHADAKVASLA	582.47	582.29	0.056	0.053	13-07-2016	95	21	39	78	8
*40	UPPER VAITARNA	603.50	598.17	0.331	0.168	13-07-2016	51	27	37	-	61
41	UPPER TAPI	214.00	210.83	0.255	0.094	13-07-2016	37	24	30	45	-
*42	PENCH (TOTALADOH)	490.00	480.60	1.091	0.439	13-07-2016	40	18	25	127	160
43	UPPER WARDHA	342.50	338.99	0.564	0.293	13-07-2016	52	51	40	70	-
44	BHATSA	142.07	125.27	0.942	0.580	13-07-2016	62	36	41	29.378	15
45	DHOM	747.70	735.08	0.331	0.149	13-07-2016	45	44	34	36.2	2
46	DUDHGANGA	646.00	629.50	0.664	0.229	13-07-2016	34	41	42	2.441	24
47	MANIKDOH (KUKADI)	711.25	694.17	0.288	0.083	13-07-2016	29	9	10	2.2	6
48	BHANDARDARA	342.50	338.99	0.304	0.143	13-07-2016	52	51	40	70	-
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	306.63	0.707	0.449	13-07-2016	64	51	39	-	30
*50	RIHAND	268.22	255.55	5.649	0.714	13-07-2016	13	24	11	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	327.61	2.196	0.270	14-07-2016	12	69	29	1897	198
*52	TEHRI	830.00	768.05	2.615	0.587	14-07-2016	22	22	19	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	392.05	6.827	2.688	13-07-2016	39	40	18	220	115
54	TAWA	355.40	352.56	1.944	1.536	14-07-2016	79	34	38	247	-
*55	BARGI	422.76	416.25	3.180	1.590	14-07-2016	50	31	19	157	90
*56	BANSAGAR	341.64	334.77	5.166	2.438	13-07-2016	47	54	23	488	425
*57	INDIRA SAGAR	262.13	258.53	9.745	6.770	14-07-2016	69	15	13	2380	1000
58	BARNA	348.55	347.00	0.456	0.355	13-07-2016	78	23	24	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	346.10	3.046	1.011	13-07-2016	33	75	50	-	120
60	MAHANADI	348.70	342.62	0.767	0.297	13-07-2016	39	36	42	319	10
SOUTHERN REGION											
A.P & TG											
*61	SRISAILAM	269.75	240.30	8.288	0.575	14-07-2016	7	30	24	0	770
*62	NAGARJUNA SAGAR	179.83	153.59	6.841	0.000	14-07-2016	0	1	31	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	85.72	1.994	0.393	14-07-2016	20	14	26	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	323.70	2.300	0.451	14-07-2016	20	13	13	411	27
65	LOWER MANAIR	280.42	267.28	0.621	0.069	14-07-2016	11	19	24	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	743.29	1.163	0.410	13-07-2016	35	64	45	79	-
*67	TUNGABHADRA	497.74	490.32	3.276	0.927	14-07-2016	28	32	38	529	72
68	GHATAPRABHA	662.95	644.31	1.391	0.358	13-07-2016	26	22	32	317	-
69	BHADRA	657.76	644.04	1.785	0.540	13-07-2016	30	48	48	106	39
70	LINGANAMAKKI	554.43	541.48	4.294	1.388	14-07-2016	32	28	32	-	55
71	NARAYANPUR	492.25	486.09	0.863	0.148	14-07-2016	17	34	48	425	-
72	MALAPRABHA(RENUKA)	633.83	621.85	0.972	0.066	13-07-2016	7	19	21	215	-
73	KABINI(Sancherla Tank)	696.16	691.69	0.444	0.213	13-07-2016	48	95	47	85	-
74	HEMAVATHY	890.63	871.04	0.927	0.217	13-07-2016	23	73	48	265	-
75	HARANGI	871.42	871.04	0.220	0.217	13-07-2016	99	70	63	53	-
76	SUPA	564.00	531.85	4.120	1.206	14-07-2016	29	36	28	-	-
77	VANIVILAS SAGAR	652.28	634.31	0.802	0.045	14-07-2016	6	5	12	123	-
*78	ALMATTI	519.60	515.55	3.105	1.589	14-07-2016	51	42	42	@	290
*79	GERUSOPPA	55.00	48.40	0.130	0.094	14-07-2016	72	77	81	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	106.37	0.507	0.290	13-07-2016	57	24	37	62	-
*81	IDAMALAYAR	169.00	141.26	1.018	0.334	13-07-2016	33	35	32	33	75
*82	IDUKKI	732.43	711.31	1.460	0.479	13-07-2016	33	45	31	-	780
*83	KAKKI	981.46	962.67	0.447	0.205	13-07-2016	46	33	36	23	300
*84	PERIYAR	867.41	861.59	0.173	0.054	13-07-2016	31	66	46	84	140
85	MALAPMUZHA	867.41	861.59	0.224	0.056	13-07-2016	31	66	46	84	140
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	265.65	0.792	0.176	13-07-2016	22	67	52	105	8
*87	METTUR(STANLEY)	240.79	218.52	2.647	0.451	13-07-2016	17	50	44	122	360
88	VAIGAI	279.20	266.11	0.172	0.008	13-07-2016	5	34	22	61	6
89	PARAMBIKULAM	556.26	540.44	0.380	0.086	13-07-2016	23	26	47	101	-
90	ALIYAR	320.04	307.28	0.095	0.023	13-07-2016	24	84	49	#	60
*91	SHOLAYAR	1002.79	989.35	0.143	0.068	13-07-2016	48	74	58	-	95
TOTAL FOR 91 RESERVOIRS				157.799	45.492						
PERCENTAGE							29	35	29		

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.

SI. 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