

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 05.05.2016)

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 **05.05.2016**, live storage available in these reservoirs is **30.709 BCM**, which is **19%** of total live storage capacity of these reservoirs. This storage is **63%** of the storage of corresponding period of last year and **77%** 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 **05.05.2016**, the total live storage available in these reservoirs is **3.70 BCM** which is **21%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **41%** 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 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 **05.05.2016**, the total live storage available in these reservoirs is **5.19 BCM** which is **28%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **40%** and average storage of last ten years during corresponding period was **28%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the corresponding period of last year and is equal to 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 **05.05.2016**, the total live storage available in these reservoirs is **4.56 BCM** which is **17%** 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 **32%** 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 **05.05.2016**, the total live storage available in these reservoirs is **11.13 BCM**

which is **26%** 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 **22%** 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(2combined 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 **05.05.2016**, the total live storage available in these reservoirs is **6.14 BCM** which is **12%** 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 **21%** 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 Ganga, Sabarmati and Narmada. Close to Normal in Rivers of Kutch, Mahanadi & neighbouring East Flowing Rivers and West Flowing rivers of South and Deficient in Indus, Tapi, Mahi, Godavari and Cauvery & neighbouring EFRs and Highly Deficient in Krishna basin.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **17** and reservoirs having storage more than average of last ten years are **16**. The numbers of reservoirs having storage less than 20% with respect to last year is **11** and having storage less than 20% with reference to average of last ten years is **11**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **37** and having storage less than or equal to 50% with reference to average of last ten years are **42**.

STORAGE STATUS OF IMPORTANT RESERVOIRS IN THE COUNTRY

- 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 **05.05.2016** is **30.712** BCM (**19** percent of the live storage capacity at FRL).The current year's storage is nearly **63** percent of last year's storage and **77** percent of the average of last ten years.

3 Region wise storage status:-

REGION (Monitoring No. of Reservoirs) (States),	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.)	-	-	-	-	-	-	-	6	H.P.	-35 %
									PUNJAB	-42 %
									RAJASTHAN	-12 %
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	-	-	-	-	-	-	1	14	JHARKHAND	-28 %
									ODISHA	-1 %
									W. BENGAL	32 %
									TRIPURA	706 %
WEST (Guj.& Mah.), (27 Resv.)	-	-	-	-	1	1	-	25	GUJARAT	-37 %
									MAH.	-61 %
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	-	-	1	11	U.P.	4 %
									UTTARAKHAND	-69 %
									M.P.	50 %
									CHHATISGARH	-31 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	1	-	-	1	-	29	AP&TG	-81 %
									A,P	0 %
									TG	-45 %
									KARNATAKA	-29 %
									KERALA	-4 %
									T.N.	-63 %
Status of 91 reservoirs	0	0	1	0	1	2	2	85		

4 Basin wise storage position:

Better than normal: Ganga, Sabarmati and Narmada.

Close to normal: Rivers of Kutch, Mahanadi & Neighbouring EFRS and West Flowing rivers of south.

Deficient: Indus, Tapi, Mahi, Godavari and Cauvery & neighbouring EFRS

Highly deficient: Krishna.

- 5 Out of 91 reservoirs, **34** reservoirs reported more than 80% of normal storage & **57** reservoirs reported 80% or below of normal storage. Out of these **57** reservoirs **42** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%	Name of reservoir	%
NAGARJUNA SAGAR	0	ALIYAR	22	MAITHON	38
BHIMA(UJJANI)	0	PERIYAR	23	MALAMPUZHA	38
JAYAKWADI(PAITHON)	0	VAIGAI	25	RAMGANGA	40
GIRNA	0	BHANDARDARA	26	GHATAPRABHA	40
YELDARI	0	ISAPUR	26	PONG DAM	40
KABINI	0	MALAPRABHA(RENUKA)	28	KOYANA	41
SHOLAYAR	0	UPPER TAPI	31	SRISAILAM	42
TEHRI	6	PARAMBIKULAM	31	PANAM	43
SALANADI	13	TAWA	34	BHADRA	44
LOWER BHAWANI	14	BARNA	35	METTUR(STANLEY)	44
PANCHET HILL	14	KARJAN	36	MATATILA	45
DUDHGANGA	22	MULA	37	LOWER MANAIR	45
				JHAKAM	45
				PENCH (TOTALADOH)	46
				KADANA	47
				HARANGI	47
				BHADAR	49
				UKAI	50

15 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
6	4	5

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

28 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 :- 05.05.2016

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	7.658	27.26%	10.224	36.39%	6.372	22.68%	20.18
INDUS	14.730	2.849	19.34%	6.509	44.19%	4.500	30.55%	-36.69
NARMADA	17.414	4.577	26.28%	5.348	30.71%	3.681	21.14%	24.34
TAPI	7.394	1.163	15.73%	1.957	26.47%	2.440	33.00%	-52.34
MAHI	4.012	0.861	21.46%	1.771	44.14%	1.512	37.69%	-43.06
SABARMATI	0.735	0.181	24.63%	0.104	14.15%	0.173	23.54%	4.62
RIVERS OF KUTCH	0.887	0.069	7.78%	0.086	9.70%	0.085	9.58%	-18.82
GODAVARI	15.394	2.672	17.36%	4.551	29.56%	3.731	24.24%	-28.38
KRISHNA	32.831	1.914	5.83%	5.685	17.32%	6.068	18.48%	-68.46
MAHANADI & NEIGHBOURING EFRS	13.181	3.561	27.02%	6.160	46.73%	4.423	33.56%	-19.49
CAUVERY & NEIGHBOURING EFRS	8.359	1.618	19.36%	1.929	23.08%	2.621	31.36%	-38.27
WEST FLOWING RIVERS OF SOUTH	14.766	3.589	24.31%	4.774	32.33%	4.272	28.93%	-15.99
TOTAL	157.799	30.712		49.098		39.878		
PERCENTAGE								-22.99

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 05.05.2016

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	474.69	6.229	1.472	04-05-2016	24	38	25	676	1200
*2	PONG DAM	423.67	394.02	6.157	0.756	05-05-2016	12	36	31	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	499.77	2.344	0.621	05-05-2016	26	82	46	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	266.55	1.711	0.356	05-05-2016	21	30	24	63	140
5	JHAKAM	359.50	337.80	0.132	0.010	05-05-2016	8	19	17	28	-
*6	RANA PRATAP SAGAR	352.81	347.30	1.436	0.481	05-05-2016	33	23	37	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	255.86	0.821	0.277	05-05-2016	34	42	32	-	-
8	MAITHON	146.3	136.14	0.471	0.056	05-05-2016	12	21	32	342	-
*9	PANCHET HILL	124.97	119.90	0.184	0.009	05-05-2016	5	23	34	\$	80
10	KONAR	425.81	417.58	0.176	0.054	05-05-2016	31	56	40	\$	-
11	TILAIYA	368.81	364.63	0.142	0.022	05-05-2016	15	41	25	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	185.57	5.378	1.543	04-05-2016	29	27	29	153	307
*13	BALIMELA	462.08	450.16	2.676	0.965	04-05-2016	36	54	25	-	360
14	SALANADI	82.30	53.05	0.558	0.019	04-05-2016	3	39	26	42	-
*15	RENGALI	123.50	114.12	3.432	0.783	04-05-2016	23	61	28	3	200
*16	MACHKUND(JALPUT)	838.16	830.18	0.893	0.352	04-05-2016	39	33	43	-	115
*17	UPPER KOLAB	858.00	849.34	0.935	0.244	04-05-2016	26	50	29	89	320
*18	UPPER INDRAVATI	642.00	631.68	1.456	0.473	05-05-2016	32	48	28	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	109.59	0.480	0.073	05-05-2016	15	15	17	227	-
20	KANGSABATI	134.14	122.70	0.914	0.180	05-05-2016	20	21	12	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	89.40	0.312	0.137	04-05-2016	44	3	5	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	90.39	6.615	1.132	05-05-2016	17	26	34	348	300
23	SABARMATI(DHAROI)	189.59	182.18	0.735	0.181	05-05-2016	25	14	24	95	1
*24	KADANA	127.7	117.22	1.472	0.367	05-05-2016	25	61	53	200	120
25	SHETRUNJI	55.53	49.27	0.300	0.039	05-05-2016	13	15	11	36	-
26	BHADAR	107.89	101.38	0.188	0.020	04-05-2016	11	16	22	27	-
27	DAMANAGANGA	79.86	68.75	0.502	0.100	05-05-2016	20	22	36	51	1
28	DANTIWADA	184.1	164.88	0.399	0.010	05-05-2016	3	2	3	45	-
29	PANAM	127.41	117.90	0.697	0.128	05-05-2016	18	47	43	36	2
*30	SARDAR SAROVAR	121.92	117.97	1.566	0.928	05-05-2016	59	81	47	2120	1450
31	KARJAN	115.25	94.78	0.523	0.103	05-05-2016	20	39	54	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 05.05.2016

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	454.34	2.171	0.000	05-05-2016	0	8	22	227	-
*33	KOYANA	657.90	629.97	2.652	0.422	04-05-2016	16	38	39	-	1920
34	BHIMA(UJJANI)	496.83	486.73	1.517	0.000	04-05-2016	0	0	16	125	12
35	ISAPUR	441.00	427.82	0.965	0.083	04-05-2016	9	21	30	104	-
36	MULA	552.30	536.78	0.609	0.052	04-05-2016	9	14	23	139	-
37	YELDARI	461.77	447.49	0.809	0.000	05-05-2016	0	10	14	78	-
38	GIRNA	398.07	379.85	0.524	0.000	04-05-2016	0	14	18	79	-
39	KHADAKVASLA	582.47	581.07	0.056	0.038	04-05-2016	68	75	32	78	8
*40	UPPER VAITARNA	603.50	595.43	0.331	0.103	04-05-2016	31	31	40	-	61
41	UPPER TAPI	214.00	208.89	0.255	0.031	04-05-2016	12	76	39	45	-
*42	PENCH (TOTALADOH)	490.00	471.44	1.091	0.127	04-05-2016	12	18	25	127	160
43	UPPER WARDHA	342.50	336.15	0.564	0.138	05-05-2016	24	34	36	70	-
44	BHATSA	142.07	114.23	0.942	0.354	04-05-2016	38	43	41	29.378	15
45	DHOM	747.70	731.53	0.331	0.105	04-05-2016	32	59	36	36.2	2
46	DUDHGANGA	646.00	616.83	0.664	0.053	05-05-2016	8	39	36	2.441	24
47	MANIKDOH (KUKADI)	711.25	683.14	0.288	0.020	04-05-2016	7	25	9	2.2	6
48	BHANDARDARA	342.50	336.15	0.304	0.028	05-05-2016	24	34	36	70	-
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	302.73	0.707	0.144	04-05-2016	20	86	45	-	30
*50	RIHAND	268.22	256.71	5.649	1.054	05-05-2016	19	17	15	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	328.17	2.196	0.287	05-05-2016	13	49	33	1897	198
*52	TEHRI	830.00	741.20	2.615	0.013	05-05-2016	0	16	9	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	392.64	6.827	2.908	05-05-2016	43	40	23	220	115
54	TAWA	355.40	337.90	1.944	0.161	05-05-2016	8	32	23	247	-
*55	BARGI	422.76	414.25	3.180	1.230	05-05-2016	39	30	23	157	90
*56	BANSAGAR	341.64	333.14	5.166	1.963	05-05-2016	38	62	26	488	425
*57	INDIRA SAGAR	262.13	249.84	9.745	2.127	05-05-2016	22	22	15	2380	1000
58	BARNA	348.55	339.32	0.456	0.028	05-05-2016	6	24	17	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	346.39	3.046	1.042	04-05-2016	34	75	48	-	120
60	MAHANADI	348.70	340.43	0.767	0.174	04-05-2016	23	17	37	319	10
SOUTHERN REGION											
A.P & TG											
*61	SRISAILAM	269.75	239.35	8.288	0.538	05-05-2016	6	30	15	0	770
*62	NAGARJUNA SAGAR	179.83	154.50	6.841	0.000	05-05-2016	0	3	23	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	90.77	1.994	0.772	05-05-2016	39	16	39	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	319.13	2.300	0.135	05-05-2016	6	14	9	411	27
65	LOWER MANAIR	280.42	267.60	0.621	0.075	05-05-2016	12	22	27	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	738.80	1.163	0.179	05-05-2016	15	21	19	79	-
*67	TUNGABHADRA	497.74	479.94	3.276	0.064	05-05-2016	2	2	3	529	72
68	GHATAPRABHA	662.95	632.16	1.391	0.041	05-05-2016	3	12	7	317	-
69	BHADRA	657.76	639.11	1.785	0.265	05-05-2016	15	37	34	106	39
70	LINGANAMAKKI	554.43	538.11	4.294	0.958	05-05-2016	22	21	24	-	55
71	NARAYANPUR	492.25	486.14	0.863	0.151	05-05-2016	17	22	33	425	-
72	MALAPRABHA(RENUKA)	633.83	620.28	0.972	0.022	05-05-2016	2	9	7	215	-
73	KABINI(Sancherla Tank)	696.16	685.49	0.444	0.000	05-05-2016	0	44	9	85	-
74	HEMAVATHY	890.63	872.87	0.927	0.097	05-05-2016	10	13	11	265	-
75	HARANGI	871.42	851.97	0.220	0.016	05-05-2016	7	11	15	53	-
76	SUPA	564.00	526.53	4.120	0.900	05-05-2016	22	40	29	-	-
77	VANIVILAS SAGAR	652.28	634.76	0.802	0.054	05-05-2016	7	4	13	123	-
*78	ALMATTI	519.60	506.73	3.105	0.141	05-05-2016	5	8	8	@	290
*79	GERUSOPPA	55.00	52.21	0.130	0.114	05-05-2016	88	89	88	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	104.75	0.507	0.259	05-05-2016	51	35	28	62	-
*81	IDAMALAYAR	169.00	134.94	1.018	0.219	05-05-2016	22	31	26	33	75
*82	IDUKKI	732.43	707.38	1.460	0.341	05-05-2016	23	44	27	-	780
*83	KAKKI	981.46	956.40	0.447	0.153	05-05-2016	34	33	32	23	300
*84	PERIYAR	867.41	859.16	0.173	0.013	05-05-2016	8	15	30	84	140
85	MALAPMUZHA	867.41	859.16	0.224	0.020	05-05-2016	8	15	30	84	140
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	257.90	0.792	0.036	05-05-2016	5	17	34	105	8
*87	METTUR(STANLEY)	240.79	219.49	2.647	0.506	05-05-2016	19	32	43	122	360
88	VAIGAI	279.20	267.02	0.172	0.012	05-05-2016	7	12	27	61	6
89	PARAMBIKULAM	556.26	537.59	0.380	0.043	05-05-2016	11	17	33	101	-
90	ALIYAR	320.04	304.65	0.095	0.012	05-05-2016	13	80	55	#	60
*91	SHOLAYAR	1002.79	955.32	0.143	0.000	05-05-2016	0	1	5	-	95
TOTAL FOR 91 RESERVOIRS				157.799	30.712						
PERCENTAGE							19	31	25		

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