

BRIEF NOTE ON STORAGE STATUS OF 91 IMPORTANT RESERVOIRS IN THE COUNTRY(WITH REFERENCE TO RESERVOIR BULLETIN OF 28.05.2015)

1. ALL INDIA STATUS

Central Water Commission is monitoring live storage status of 91 important reservoirs of the country on weekly basis and is issuing weekly bulletin on every Thursday. These reservoirs include 37 reservoirs having hydropower benefit with installed capacity of more than 60 MW. The total live storage capacity of these 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 bulletin of 28.05.2015, live storage available in these reservoirs was **43.14 BCM** which is **27%** of total live storage capacity of these reservoirs. This storage is **97%** of the storage of corresponding period of last year and **136%** of storage of average of last ten years. The present storage position during current year is less than the storage position of last year but is better than the storage of average of last ten years.

As per Table-01, the overall storage position is **less than** corresponding period of last year in the country as a whole but is 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 in this region having total live storage capacity of 18.01 BCM. The total live storage available in these reservoirs is **7.63 BCM** which is **42%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **38%** 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 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 in this region having total live storage capacity of 18.83 BCM. The total live storage available in these reservoirs is **6.31 BCM** which is **34%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **37%** and average storage of last ten years during corresponding period was **19%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the corresponding period of last year but is 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 in this region having total live storage capacity of 27.07 BCM. The total live storage available in these reservoirs is **6.32 BCM** which is **23%** 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 **25%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the storage of last year and also less than the average storage of last ten years.

d) CENTRAL REGION

The Central region includes States of Uttar Pradesh, Uttarakhand, Madhya Pradesh and Chhattisgarh. There are 12 reservoirs in this region having total live

storage capacity of 42.30BCM. The total live storage available in these reservoirs is **14.14 BCM** which is **33%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **37%** and average storage of last ten years during corresponding period was **17%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the storage of last year but better than the average storage of last ten years.

e) SOUTHERN REGION

The Southern region includes States of Andhra Pradesh, Telangana, AP&TG(2combined project in both states) Karnataka, Kerala and Tamil Nadu. There are 31 reservoirs in this region having total live storage capacity of 51.59 BCM. The total live storage available in these reservoirs is **8.74 BCM** which is **17%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **14%** and average storage of last ten years during corresponding period was **18%** 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 6, better than normal storage is available in Ganga, Indus, Narmada, Mahi, Rivers of Kutch, Godavari, Mahanadi & neighbouring East Flowing Rivers, and West Flowing Rivers of South. Close to Normal in Tapi and Cauvery& neighbouring EFRs and Deficient in Sabarmati and Krishna.
- Table on page 5: IMD has divided India in 36 meteorological sub-divisions. The data in respect of reservoir storage as compared with observed rainfall is given in the table.
- Table on page 6: Normal, Close to normal, Deficient and Highly Deficient having the same meaning as given at Bullet No.1.
- Table on page 7-9 of the bulletin. The numbers of reservoirs having storage more than last year are 42 and reservoirs having storage more than average of last ten years are 55. The numbers of reservoirs having storage less than 20% with respect to last year is 1 and having storage less than 20% with reference to average of last ten years is 3. The numbers of reservoirs having storage less than 50% with respect to last year are 11 and having storage less than 50% with reference to average of last ten years are 10.

States having better storage than last year for corresponding period: Himachal Pradesh, Punjab, Uttarakhand, Karnataka, Kerala and Tamil Nadu.

States having equal storage to last year for corresponding period: NIL

States having lesser storage than last year for corresponding period: Rajasthan, Jharkhand, Odisha, West Bengal, Tripura, Gujarat, Maharashtra, Uttar Pradesh, Madhya Pradesh, Chattisgarh, Andhra Pradesh, Telangana, AP&TG(2combined project in both states).

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 **28.05.2015** is **43.140** BCM (**27** percent of the storage capacity at FRL). The current year's storage is nearly **97** percent of last year's storage and **136** 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	4	H.P. PUNJAB RAJASTHAN	67 % 70 % -17 %
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	-	-	-	-	-	-	4	11	JHARKHAND ODISHA W. BENGAL TRIPURA	15 % 90 % 61 % -56 %
WEST (Guj.& Mah.), (27 Resv.)	-	-	-	1	2	1	1	22	GUJARAT MAH.	5 % -20 %
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	1	3	-	-	8	U.P. UTTARAKHAND M.P. CHHATISGARH	80 % 159 % 119 % 44 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	1	1	-	-	1	28	AP&TG A,P TG KARNATAKA KERALA T.N.	-93 % -50 % 42 % 66 % 52 % -15 %
Status of 91 reservoirs	0	0	1	4	5	1	7	73		

4 Basin wise storage position:

Better than normal: Ganga,Indus,Narmada,Mahi,,Rivers of Kutch,Godavari,Mahanadi & Neighbouring EFRS, and West Flowing rivers of south.

Close to normal: Tapi and Cauvery & neighbouring EFRS. .

Deficient: Sabarmati and Krishna

Highly deficient: NIL

- 5 Out of 91 reservoirs, **69** reservoirs reported more than 80% of normal storage & **22** reservoirs reported 80% or below of normal storage.

Out of these 22 reservoirs		10 having storage upto 50% of normal storage	
Name of reservoir	%	Name of reservoir	%
SRISAILAM	0		
BHIMA(UJJANI)	0		
NAGARJUNA SAGAR	13		
JAYAKWADI(PAITHON)	22		
MAHANADI	26		
VANIVILAS SAGAR	38		
GUMTI	44		
YELDARI	44		
RANA PRATAP SAGAR	48		
SOMASILA	50		

12 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
4	7	1

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

10 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 :- 28.05.2015

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	10.014	35.64%	12.905	45.93%	4.967	17.68%	101.61
INDUS	14.730	6.795	46.13%	5.495	37.30%	4.045	27.46%	67.99
NARMADA	17.414	4.260	24.46%	3.063	17.59%	2.533	14.55%	68.18
TAPI	7.394	1.477	19.98%	2.540	34.35%	1.821	24.63%	-18.89
MAHI	4.012	1.705	42.50%	2.213	55.16%	1.389	34.62%	22.75
SABARMATI	0.735	0.090	12.24%	0.127	17.28%	0.147	20.00%	-38.78
RIVERS OF KUTCH	0.887	0.071	8.00%	0.134	15.11%	0.055	6.20%	29.09
GODAVARI	15.394	3.696	24.01%	5.407	35.12%	2.776	18.03%	33.14
KRISHNA	32.831	3.862	11.76%	2.095	6.38%	5.386	16.41%	-28.30
MAHANADI & NEIGHBOURING EFRS	13.181	5.190	39.37%	5.576	42.30%	3.232	24.52%	60.58
CAUVERY & NEIGHBOURING EFRS	8.359	2.054	24.57%	1.677	20.06%	2.301	27.53%	-10.73
WEST FLOWING RIVERS OF SOUTH	14.766	3.926	26.59%	3.361	22.76%	3.170	21.47%	23.85
TOTAL	157.799	43.140		44.593		31.822		
PERCENTAGE								35.57

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 28.05.2015											
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	487.69	6.229	2.645	5/25/2015	42	31	22	676	1200
*2	PONG DAM	423.67	405.71	6.157	2.270	5/28/2015	37	30	25	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	522.12	2.344	1.880	5/27/2015	80	75	47	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	268.85	1.711	0.512	5/27/2015	30	41	21	63	140
5	JHAKAM	359.50	343.35	0.132	0.024	5/27/2015	18	35	17	28	-
*6	RANA PRATAP SAGAR	352.81	346.05	1.436	0.302	5/25/2015	21	42	44	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	257.63	0.821	0.330	5/27/2015	40	47	29	-	-
8	MAITHON	146.3	137.18	0.471	0.077	5/27/2015	16	47	29	342	-
*9	PANCHET HILL	124.97	123.37	0.184	0.074	5/27/2015	40	75	30	\$	80
10	KONAR	425.81	419.19	0.176	0.072	5/27/2015	41	54	31	\$	-
11	TILAIYA	368.81	365.48	0.142	0.040	5/27/2015	28	35	20	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	184.38	5.378	1.140	5/25/2015	21	26	20	153	307
*13	BALIMELA	462.08	453.11	2.676	1.317	5/27/2015	49	51	19	-	360
14	SALANADI	82.30	69.75	0.558	0.212	5/28/2015	38	78	22	42	-
*15	RENGALI	123.50	117.64	3.432	1.546	5/27/2015	45	34	13	3	200
*16	MACHKUND(JALPUT)	838.16	828.55	0.893	0.279	5/27/2015	31	47	34	-	115
*17	UPPER KOLAB	858.00	851.59	0.935	0.396	5/27/2015	42	30	19	89	320
*18	UPPER INDRAVATI	642.00	631.61	1.456	0.549	5/27/2015	38	29	16	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	109.52	0.480	0.072	5/27/2015	15	25	17	227	-
20	KANGSABATI	134.14	123.00	0.914	0.191	5/27/2015	21	39	9	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	84.95	0.312	0.017	5/27/2015	5	7	13	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	91.12	6.615	1.272	5/28/2015	19	36	26	348	300
23	SABARMATI(DHAROI)	189.59	179.85	0.735	0.090	5/27/2015	12	17	20	95	1
*24	KADANA	127.7	124.16	1.472	0.850	5/27/2015	58	73	49	200	120
25	SHETRUNJI	55.53	48.32	0.300	0.033	5/25/2015	11	17	6	36	-
26	BHADAR	107.89	101.83	0.188	0.026	5/25/2015	14	38	17	27	-
27	DAMANAGANGA	79.86	67.45	0.502	0.074	5/27/2015	15	16	26	51	1
28	DANTIWADA	184.1	162.34	0.399	0.012	5/27/2015	3	3	1	45	-
29	PANAM	127.41	123.40	0.697	0.319	5/27/2015	46	55	39	36	2
*30	SARDAR SAROVAR	121.92	119.11	1.566	1.091	5/27/2015	70	33	31	2120	1450
31	KARJAN	115.25	99.45	0.523	0.163	5/26/2015	31	44	47	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA
GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 28.05.2015											
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>MAHARASHTRA</u>											
32	JAYAKWADI(PAITHON)	463.91	456.08	2.171	0.089	5/28/2015	4	7	19	227	-
*33	KOYANA	657.90	636.09	2.652	0.724	5/27/2015	27	8	29	-	1920
34	BHIMA(UJJANI)	496.83	489.11	1.517	0.000	5/27/2015	0	0	6	125	12
35	ISAPUR	441.00	429.40	0.965	0.162	5/27/2015	17	54	24	104	-
36	MULA	552.30	537.49	0.609	0.067	5/27/2015	11	12	11	139	-
37	YELDARI	461.77	449.11	0.809	0.038	5/27/2015	5	45	11	78	-
38	GIRNA	398.07	384.14	0.524	0.043	5/27/2015	8	10	16	79	-
39	KHADAKVASLA	582.47	581.38	0.056	0.041	5/27/2015	73	71	27	78	8
*40	UPPER VAITARNA	603.50	594.13	0.331	0.076	5/27/2015	23	41	33	-	61
41	UPPER TAPI	214.00	212.30	0.255	0.162	5/27/2015	64	52	19	45	-
*42	PENCH (TOTALADOH)	490.00	471.42	1.091	0.140	5/27/2015	13	48	20	127	160
43	UPPER WARDHA	342.50	336.91	0.564	0.175	5/28/2015	31	38	32	70	-
44	BHATSA	142.07	110.17	0.942	0.288	5/20/2015	31	39	36	29.378	15
45	DHOM	747.70	732.45	0.331	0.115	5/27/2015	35	18	27	36.2	2
46	DUDHGANGA	646.00	628.70	0.664	0.213	5/14/2015	32	28	31	2.441	24
47	MANIKDOH (KUKADI)	711.25	683.94	0.288	0.023	5/27/2015	8	5	4	2.2	6
48	BHANDARDARA	342.50	336.91	0.304	0.175	5/28/2015	31	38	32	70	-
<u>CENTRAL REGION</u>											
<u>UTTAR PRADESH</u>											
49	MATATILA	308.46	306.81	0.707	0.467	5/27/2015	66	40	24	-	30
*50	RIHAND	268.22	256.10	5.649	0.874	5/27/2015	15	22	10	-	300
<u>UTTRAKHAND</u>											
*51	RAMGANGA	365.30	353.13	2.196	1.350	5/27/2015	61	61	24	1897	198
*52	TEHRI	830.00	753.20	2.615	0.251	5/27/2015	10	2	4	2351	1000
<u>MADHYA PRADESH</u>											
*53	GANDHI SAGAR	399.90	392.24	6.827	2.755	5/27/2015	40	65	18	220	115
54	TAWA	355.40	344.18	1.944	0.578	5/27/2015	30	13	19	247	-
*55	BARGI	422.76	410.10	3.180	0.687	5/27/2015	22	21	14	157	90
*56	BANSAGAR	341.64	336.82	5.166	3.142	5/27/2015	61	69	20	488	425
*57	INDIRA SAGAR	262.13	248.65	9.745	1.637	5/23/2015	17	13	9	2380	1000
58	BARNA	348.55	341.94	0.456	0.104	5/27/2015	23	37	16	546	-
<u>CHHATTIS GARH</u>											
*59	MINIMATA BANGOI	359.66	355.56	3.046	2.218	5/26/2015	73	76	43	-	120
60	MAHANADI	348.70	338.33	0.767	0.074	5/28/2015	10	31	37	319	10
<u>SOUTHERN REGION</u>											
<u>A.P & TG</u>											
*61	SRISAILAM	269.75	244.00	8.288	0.000	5/27/2015	0	0	15	0	770
*62	NAGARJUNA SAGAR	179.83	156.82	6.841	0.220	5/27/2015	3	5	26	895	810
<u>ANDHRA PRADESH</u>											
63	SOMASILA	100.58	84.30	1.994	0.313	5/27/2015	16	40	31	168	0
<u>TELANGANA</u>											
64	SRIRAMSAGAR	332.54	322.48	2.300	0.326	5/28/2015	14	33	7	411	27
65	LOWER MANAIR	280.42	269.92	0.621	0.128	5/28/2015	21	46	24	199	60

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GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

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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	738.58	1.163	0.170	5/27/2015	15	10	9	79	-
*67	TUNGABHADRA	497.74	482.24	3.276	1.447	5/28/2015	44	7	4	529	72
68	GHATAPRABHA	662.95	634.39	1.391	0.080	5/21/2015	6	1	4	317	-
69	BHADRA	657.76	643.64	1.785	0.516	5/21/2015	29	24	24	106	39
70	LINGANAMAKKI	554.43	535.27	4.294	0.674	5/28/2015	16	13	16	-	55
71	NARAYANPUR	492.25	486.63	0.863	0.181	5/27/2015	21	33	34	425	-
72	MALAPRABHA(RENUKA)	633.83	622.13	0.972	0.076	5/21/2015	8	3	6	215	-
73	KABINI	696.16	690.87	0.444	0.177	5/27/2015	40	33	3	85	-
74	HEMAVATHY	890.63	874.78	0.927	0.143	5/27/2015	15	16	7	265	-
75	HARANGI	871.42	854.62	0.220	0.028	5/27/2015	13	20	15	53	-
76	SUPA	564.00	535.71	4.120	1.459	5/28/2015	35	31	22	-	-
77	VANIVILAS SAGAR	652.28	633.97	0.802	0.040	5/21/2015	5	4	13	123	-
*78	ALMATTI	519.60	507.24	3.105	0.186	5/27/2015	6	7	6	@	290
*79	GERUSOPPA	55.00	49.27	0.130	0.098	5/28/2015	75	78	89	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	95.37	0.507	0.132	5/27/2015	26	22	21	62	-
*81	IDAMALAYAR	169.00	135.39	1.018	0.226	5/27/2015	22	21	17	33	75
*82	IDUKKI	732.43	712.53	1.460	0.522	5/27/2015	36	23	17	-	780
*83	KAKKI	981.46	950.69	0.447	0.115	5/27/2015	26	5	21	23	300
*84	PERIYAR	867.41	861.23	0.173	0.059	5/27/2015	34	25	31	84	140
85	MALAPMUZHA	867.41	861.23	0.224	0.059	5/27/2015	34	25	31	84	140
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	267.31	0.792	0.224	5/27/2015	28	13	34	105	8
*87	METTUR(STANLEY)	240.79	225.93	2.647	0.956	5/27/2015	36	11	43	122	360
88	VAIGAI	279.20	271.55	0.172	0.043	5/27/2015	25	8	26	61	6
89	PARAMBIKULAM	556.26	538.95	0.380	0.063	5/27/2015	17	14	30	101	-
90	ALIYAR	320.04	317.28	0.095	0.078	5/27/2015	82	21	43	#	60
*91	SHOLAYAR	1002.79	965.24	0.143	0.015	5/27/2015	10	4	6	-	95
TOTAL FOR 91 RESERVOIRS				157.799	43.297						
PERCENTAGE							27	28	20		

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. 19th 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

(At sl. 30th) 0.444 BCM, Live storage at FRL of Kabini reservoir is intrim