

BRIEF NOTE ON STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR BULLETIN OF 06.08.2015)

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 the 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 bulletin of **06.08.2015**, live storage available in these reservoirs is **78.366 BCM** which is **50%** of total live storage capacity of these reservoirs. This storage is **93%** of the storage of corresponding period of last year and **99%** 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 in this region having total live storage capacity of 18.01 BCM. The total live storage available in these reservoirs is **14.57 BCM** which is **81%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **64%** and average storage of last ten years during corresponding period was **56%** 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 **9.28 BCM** which is **49%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **60%** and average storage of last ten years during corresponding period was **37%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the corresponding period of last year and 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 **11.51 BCM** which is **43%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **52%** and average storage of last ten years during corresponding period was **53%** 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.

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 42.30 BCM. The total live storage available in these reservoirs is **26.53 BCM** which is **63%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **56%** 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 better than the storage of last year and is also 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 **16.48 BCM** which is **32%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **47%** and average storage of last ten years during corresponding period was **59%** 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 6, better than normal storage is available in Ganga, Indus, Narmada, Mahi, Sabarmati, Rivers of Kutch, Mahanadi & neighbouring East Flowing Rivers. Close to Normal in Cauvery& neighbouring EFRs, Deficient in Tapi, Godavari, Krishna and West Flowing rivers of South and NIL in Highly Deficient.
- Table on page 4: Normal, Close to normal, Deficient and Highly Deficient having the same meaning as given at Bullet No.1.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than or equal to last year are 39 and reservoirs having storage more than average of last ten years are 44. The numbers of reservoirs having storage less than 20% with respect to last year is 6 and having storage less than 20% with reference to average of last ten years is 6. The numbers of reservoirs having storage less than or equal to 50% with respect to last year are 14 and having storage less than or equal to 50% with reference to average of last ten years are 16.

States having better storage (in %) than last year for corresponding period:
Himachal Pradesh, Punjab, Rajasthan, Jharkhand, West Bengal, Tripura, Uttar Pradesh, Uttarakhand, Madhya Pradesh, and Tamil Nadu.

States having equal storage (in %) to last year for corresponding period: NIL

States having lesser storage (in %) than last year for corresponding period:
Odisha, Gujarat, Maharashtra, Chhattisgarh, AP&TG (2combined project in both states) , Andhra Pradesh, Telangana, Karnataka, Kerala.

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 **06.08.2015** is **78.366** BCM (**50** percent of the live storage capacity at FRL). The current year's storage is nearly **93** percent of last year's storage and **99** 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	1	1	2	-	-	-	-	H.P. PUNJAB RAJASTHAN	34 % 57 % 74 %
EAST (Jharkhand, Odisha, Tripura & W. Bengal (15 Resv.)	3	-	3	1	1	2	2	3	JHARKHAND ODISHA W. BENGAL TRIPURA	53 % 21 % 80 % 110 %
WEST (Guj. & Mah.), (27 Resv.)	1	1	4	2	2	3	3	11	GUJARAT MAH.	-3 % -34 %
CENTRAL (MP, UP, Uttarakhand & Chh.), (12 Resv)	-	1	1	3	2	3	-	2	U.P. UTTARAKHAND M.P. CHHATISGARH	40 % 52 % 69 % -2 %
SOUTH (Karnataka, TN, AP&TG, AP, TG, & Kerala), (31 Resv.)	-	2	3	1	4	3	8	10	AP&TG A.P TG KARNATAKA KERALA T.N.	-100 % -44 % -72 % -30 % -17 % -3 %
Status of 91 reservoirs	6	5	12	9	9	11	13	26		

4 Basin wise storage position:**Better than normal:**

Ganga, Indus, Narmada, Mahi, Sabarmati, Rivers of Kutch, Mahanadi & Neighbouring EFRS.

Close to normal:

Cauvery & neighbouring EFRS.

Deficient:

Tapi, Godavari, Krishna and West Flowing rivers of south.

Highly deficient:

NIL

- 5 Out of 91 reservoirs, **56** reservoirs reported more than 80% of normal storage & **35** reservoirs reported 80% or below of normal storage. Out of these **35** reservoirs **16** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%	Name of reservoir	%
SRISAILAM	0	MAHANADI	39		
BHIMA(UJJANI)	0	VANIVILAS SAGAR	43		
NAGARJUNA SAGAR	1	MALAPRABHA(RENUKA)	43		
YELDARI	5	KALLADA(PARAPPAR)	46		
PANAM	12	ISAPUR	47		
JAYAKWADI(PAITHON)	17	UPPER INDRAVATI	50		
SRIRAMSAGAR	22				
KHADAKVASLA	22				
GIRNA	34				
GHATAPRABHA	39				

19 reservoirs having storage 51% to 80% of normal storage.

51% to 60%	61% to 70%	71% to 80%
5	3	11

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

18 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 :- 06.08.2015

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	18.951	67.45%	14.211	50.58%	9.834	35.00%	92.71
INDUS	14.730	11.338	76.97%	9.182	62.34%	8.229	55.87%	37.78
NARMADA	17.414	11.242	64.56%	10.859	62.36%	8.837	50.75%	27.22
TAPI	7.394	2.206	29.84%	4.098	55.42%	3.764	50.91%	-41.39
MAHI	4.012	2.877	71.71%	2.286	56.98%	2.059	51.32%	39.73
SABARMATI	0.735	0.641	87.21%	0.173	23.54%	0.290	39.46%	121.03
RIVERS OF KUTCH	0.887	0.768	86.58%	0.168	18.94%	0.327	36.87%	134.86
GODAVARI	15.394	4.012	26.06%	6.922	44.97%	5.560	36.12%	-27.84
KRISHNA	32.831	8.360	25.46%	13.624	41.50%	20.420	62.20%	-59.06
MAHANADI & NEIGHBOURING EFRS	13.181	6.696	50.80%	9.492	72.01%	5.952	45.16%	12.50
CAUVERY & NEIGHBOURING EFRS	8.359	4.609	55.14%	4.901	58.63%	4.906	58.69%	-6.05
WEST FLOWING RIVERS OF SOUTH	14.766	6.666	45.14%	8.802	59.61%	8.860	60.00%	-24.76
TOTAL	157.799	78.366		84.718		79.038		
PERCENTAGE								-0.85

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 06.08.2015

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	504.50	6.229	4.795	06-08-2015	77	78	63	676	1200
*2	PONG DAM	423.67	417.54	6.157	4.504	06-08-2015	73	43	49	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	523.88	2.344	2.039	06-08-2015	87	73	55	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	281.25	1.711	1.711	06-08-2015	100	56	55	63	140
5	JHAKAM	359.50	360.05	0.132	0.132	06-08-2015	100	41	45	28	-
*6	RANA PRATAP SAGAR	352.81	352.53	1.436	1.389	06-08-2015	97	92	60	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	260.12	0.821	0.422	06-08-2015	51	51	39	-	-
8	MAITHON	146.3	148.28	0.471	0.471	06-08-2015	100	62	55	342	-
*9	PANCHET HILL	124.97	127.66	0.184	0.184	06-08-2015	100	62	77	\$	80
10	KONAR	425.81	424.56	0.176	0.154	06-08-2015	88	88	60	\$	-
11	TILAIYA	368.81	368.91	0.142	0.142	06-08-2015	100	88	50	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	185.86	5.378	1.643	05-08-2015	31	70	39	153	307
*13	BALIMELA	462.08	452.14	2.676	1.195	05-08-2015	45	56	20	-	360
14	SALANADI	82.30	73.30	0.558	0.293	06-08-2015	53	95	34	42	-
*15	RENGALI	123.50	120.10	3.432	2.347	05-08-2015	68	50	36	3	200
*16	MACHKUND(JALPUT)	838.16	830.50	0.893	0.367	05-08-2015	41	45	43	-	115
*17	UPPER KOLAB	858.00	850.62	0.935	0.323	05-08-2015	35	47	29	89	320
*18	UPPER INDRAVATI	642.00	629.98	1.456	0.334	06-08-2015	23	79	46	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	119.19	0.480	0.390	06-08-2015	81	60	50	227	-
20	KANGSABATI	134.14	132.19	0.914	0.772	06-08-2015	84	47	45	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	92.10	0.312	0.244	05-08-2015	78	28	37	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	94.77	6.615	2.042	06-08-2015	31	61	54	348	300
23	SABARMATI(DHAROI)	189.59	188.57	0.735	0.641	06-08-2015	87	24	39	95	1
*24	KADANA	127.7	125.76	1.472	0.994	06-08-2015	68	59	50	200	120
25	SHETRUNJI	55.53	55.25	0.300	0.277	06-08-2015	92	27	58	36	-
26	BHADAR	107.89	106.89	0.188	0.145	06-08-2015	77	25	54	27	-
27	DAMANAGANGA	79.86	73.50	0.502	0.226	06-08-2015	45	43	35	51	1
28	DANTIWADA	184.1	182.88	0.399	0.346	06-08-2015	87	10	13	45	-
29	PANAM	127.41	124.95	0.697	0.040	06-08-2015	6	58	46	36	2
*30	SARDAR SAROVAR	121.92	124.05	1.566	1.566	06-08-2015	100	89	69	2120	1450
31	KARJAN	115.25	109.00	0.523	0.347	06-08-2015	66	65	58	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 06.08.2015

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
MAHARASHTRA											
32	JAYAKWADI(PAITHON)	463.91	456.32	2.171	0.129	06-08-2015	6	11	34	227	-
*33	KOYANA	657.90	648.34	2.652	1.909	05-08-2015	72	75	83	-	1920
34	BHIMA(UJJANI)	496.83	490.40	1.517	0.000	06-08-2015	0	28	53	125	12
35	ISAPUR	441.00	429.56	0.965	0.169	30-07-2015	18	44	37	104	-
36	MULA	552.30	543.00	0.609	0.215	05-08-2015	35	47	55	139	-
37	YELDARI	461.77	448.05	0.809	0.008	30-07-2015	1	39	18	78	-
38	GIRNA	398.07	384.02	0.524	0.041	30-07-2015	8	6	23	79	-
39	KHADAKVASLA	582.47	578.45	0.056	0.010	06-08-2015	18	89	82	78	8
*40	UPPER VAITARNA	603.50	598.02	0.331	0.164	30-07-2015	50	55	65	-	61
41	UPPER TAPI	214.00	211.47	0.255	0.123	30-07-2015	48	15	31	45	-
*42	PENCH (TOTALADOH)	490.00	477.15	1.091	0.297	30-07-2015	27	55	43	127	160
43	UPPER WARDHA	342.50	341.32	0.564	0.462	06-08-2015	82	88	59	70	-
44	BHATSA	142.07	125.47	0.942	0.550	30-07-2015	58	54	64	29.378	15
45	DHOM	747.70	737.19	0.331	0.181	29-07-2015	55	44	58	36.2	2
46	DUDHGANGA	646.00	635.52	0.664	0.363	30-07-2015	55	61	73	2.441	24
47	MANIKDOH (KUKADI)	711.25	691.60	0.288	0.062	30-07-2015	22	28	28	2.2	6
48	BHANDARDARA	342.50	341.32	0.304	0.205	06-08-2015	82	88	59	70	-
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	307.42	0.707	0.531	05-08-2015	75	24	55	-	30
*50	RIHAND	268.22	258.99	5.649	1.858	06-08-2015	33	23	23	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	357.91	2.196	1.646	06-08-2015	75	62	36	1897	198
*52	TEHRI	830.00	799.25	2.615	1.461	06-08-2015	56	58	48	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	399.07	6.827	6.116	05-08-2015	90	51	27	220	115
54	TAWA	355.40	354.00	1.944	1.774	06-08-2015	91	65	77	247	-
*55	BARGI	422.76	416.60	3.180	1.660	06-08-2015	52	77	59	157	90
*56	BANSAGAR	341.64	336.90	5.166	3.171	05-08-2015	61	62	34	488	425
*57	INDIRA SAGAR	262.13	256.77	9.745	5.618	06-08-2015	58	51	39	2380	1000
58	BARNA	348.55	345.76	0.456	0.277	05-08-2015	61	86	51	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	355.45	3.046	2.201	05-08-2015	72	91	63	-	120
60	MAHANADI	348.70	341.22	0.767	0.212	06-08-2015	28	94	70	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	244.68	8.288	0.000	06-08-2015	0	18	53	0	770
*62	NAGARJUNA SAGAR	179.83	155.60	6.841	0.024	06-08-2015	0	4	48	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	83.32	1.994	0.260	06-08-2015	13	17	23	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	320.41	2.300	0.194	06-08-2015	8	29	39	411	27
65	LOWER MANAIR	280.42	269.38	0.621	0.114	06-08-2015	18	42	33	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
KARNATAKA											
66	KRISHNARAJA SAGRA	752.50	746.53	1.163	0.645	05-08-2015	55	99	79	79	-
*67	TUNGABHADRA	497.74	494.46	3.276	1.829	06-08-2015	56	77	78	529	72
68	GHATAPRABHA	662.95	646.46	1.391	0.443	05-08-2015	32	67	82	317	-
69	BHADRA	657.76	651.23	1.785	1.191	05-08-2015	67	98	82	106	39
70	LINGANAMAKKI	554.43	543.93	4.294	1.773	06-08-2015	41	75	69	-	55
71	NARAYANPUR	492.25	490.67	0.863	0.549	06-08-2015	64	69	77	425	-
72	MALAPRABHA(RENUKA)	633.83	625.60	0.972	0.224	05-08-2015	23	42	53	215	-
73	KABINI	696.16	695.25	0.444	0.391	05-08-2015	88	91	56	85	-
74	HEMAVATHY	890.63	887.81	0.927	0.778	05-08-2015	84	100	85	265	-
75	HARANGI	871.42	870.99	0.220	0.215	05-08-2015	98	93	94	53	-
76	SUPA	564.00	539.30	4.120	1.710	06-08-2015	42	54	53	-	-
77	VANIVILAS SAGAR	652.28	634.09	0.802	0.042	06-08-2015	5	3	12	123	-
*78	ALMATTI	519.60	515.35	3.105	1.533	06-08-2015	49	82	80	@	290
*79	GERUSOPPA	55.00	49.96	0.130	0.102	06-08-2015	78	87	87	83	240
KERALA											
80	KALLADA(PARAPPAR)	115.82	95.88	0.507	0.137	05-08-2015	27	47	59	62	-
*81	IDAMALAYAR	169.00	147.86	1.018	0.468	05-08-2015	46	61	57	33	75
*82	IDUKKI	732.43	719.08	1.460	0.783	05-08-2015	54	45	49	-	780
*83	KAKKI	981.46	960.84	0.447	0.190	05-08-2015	43	49	59	23	300
*84	PERIYAR	867.41	862.21	0.173	0.076	05-08-2015	44	52	60	84	140
85	MALAPMUZHA	867.41	862.21	0.224	0.116	05-08-2015	44	52	60	84	140
TAMIL NADU											
86	LOWER BHAWANI	278.89	274.77	0.792	0.549	05-08-2015	69	44	67	105	8
*87	METTUR(STANLEY)	240.79	233.60	2.647	1.707	05-08-2015	64	57	64	122	360
88	VAIGAI	279.20	273.38	0.172	0.064	05-08-2015	37	16	28	61	6
89	PARAMBIKULAM	556.26	545.19	0.380	0.165	05-08-2015	43	53	76	101	-
90	ALIYAR	320.04	318.73	0.095	0.087	05-08-2015	92	57	77	#	60
*91	SHOLAYAR	1002.79	997.93	0.143	0.119	05-08-2015	83	100	87	-	95
TOTAL FOR 91 RESERVOIRS				157.799	78.366						
PERCENTAGE							50	54	50		

Sd/-

* HYDEL POWER CAPACITY HAVING CAPACITY MORE THAN 60MW

Director

\$ TOTAL CCA 342 TH. HA OF DVC SYSTEM

W. M. , CWC

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