

BRIEF NOTE ON STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 23.09.2015)

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 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 **23.09.2015**, live storage available in these reservoirs is **95.313 BCM**, which is **60%** of total live storage capacity of these reservoirs. This storage is **75%** 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 **23.09.2015**, the total live storage available in these reservoirs is **15.21 BCM** which is **84%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **83%** and average storage of last ten years during corresponding period was **84%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the corresponding period of last year and is slightly 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 **23.09.2015**, the total live storage available in these reservoirs is **12.55 BCM** which is **67%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **81%** and average storage of last ten years during corresponding period was **77%** 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 **23.09.2015**, the total live storage available in these reservoirs is **16.94 BCM** which is **63%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **84%** and average storage of last ten years during corresponding period was **82%** 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 **23.09.2015**, the total live storage available in these reservoirs is **32.74 BCM** which

is **77%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **85%** and average storage of last ten years during corresponding period was **70%** 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 **23.09.2015**, the total live storage available in these reservoirs is **17.87 BCM** which is **35%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **72%** and average storage of last ten years during corresponding period was **81%** 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, Narmada, Sabarmati and Rivers of Kutch. Close to Normal in Indus, Tapi and Mahi. Deficient in Godavari, Mahanadi & neighbouring East Flowing Rivers, Cauvery & neighbouring EFRs and West Flowing rivers of South 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 **13** and reservoirs having storage more than average of last ten years are **24**. 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 **5**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **17** and having storage less than or equal to 50% with reference to average of last ten years are **19**.

States having better storage (in %) than last year for corresponding period:
Himachal Pradesh and Tripura.

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

States having lesser storage (in %) than last year for corresponding period:
Punjab, Rajasthan, Jharkhand, Odisha, West Bengal, Gujarat, Maharashtra, Uttar Pradesh, Uttarakhand, Madhya Pradesh, Chhattisgarh, AP&TG (2 combined project in both states), Andhra Pradesh, Telangana, Karnataka, Kerala and Tamil Nadu.

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 **23.09.2015** is **95.313** BCM (**60** percent of the live storage capacity at FRL). The current year's storage is nearly **75** 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)	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.)	-	3	1	1	-	-	1	-	H.P. PUNJAB RAJASTHAN	2 % -27 % 9 %
EAST (Jharkhand, Odisha, Tripura & W. Bengal (15 Resv.))	1	2	2	1	1	4	2	2	JHARKHAND ODISHA W. BENGAL TRIPURA	-18 % -13 % -40 % 93 %
WEST (Guj.& Mah.), (27 Resv.)	3	1	5	5	3	3	-	7	GUJARAT MAH.	-5 % -42 %
CENTRAL (MP, UP, Uttarakhand & Chh.), (12 Resv)	1	2	2	3	3	-	-	1	U.P. UTTARAKHAND M.P. CHHATISGARH	-24 % 13 % 21 % -20 %
SOUTH (Karnataka, TN, AP&TG, AP, TG, & Kerala), (31 Resv.)	-	-	1	1	7	5	3	14	AP&TG A,P TG KARNATAKA KERALA T.N.	-86 % -72 % -81 % -41 % -37 % -45 %
Status of 91 reservoirs	5	8	11	11	14	12	6	24		

4 Basin wise storage position:

Better than normal: Ganga, Narmada, Sabarmati, Rivers of Kutch.

Close to normal: Indus, Tapi, Mahi.

Deficient: Godavari, Mahanadi & Neighbouring EFRS, Cauvery & neighbouring EFRS and West Flowing rivers of south.

Highly deficient: Krishna

- 5 Out of 91 reservoirs, **40** reservoirs reported more than 80% of normal storage & **51** reservoirs reported 80% or below of normal storage. Out of these **51** reservoirs **19** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%	Name of reservoir	%
NAGARJUNA SAGAR	1	LOWER MANAIR	30		
BHIMA(UJJANI)	2	MALAPRABHA(RENUKA)	35		
JAYAKWADI(PAITHON)	7	KALLADA(PARAPPAR)	37		
SRIRAMSAGAR	16	VAIGAI	38		
GIRNA	20	GHATAPRABHA	39		
PANCHET HILL	23	MANIKDOH	40		
SRISAILAM	23	VANIVILAS SAGAR	46		
YELDARI	24	KANGSABATI	47		
KHADAKVASLA	27	METTUR(STANLEY)	49		
SOMASILA	28				

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

51% to 60%	61% to 70%	71% to 80%
12	9	11

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

25 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 :- 23.09.2015

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	19.348	68.86%	20.745	73.84%	17.451	62.11%	10.87
INDUS	14.730	12.267	83.28%	11.791	80.05%	12.451	84.53%	-1.48
NARMADA	17.414	15.589	89.52%	17.150	98.48%	14.376	82.55%	8.44
TAPI	7.394	5.442	73.60%	6.414	86.75%	6.191	83.73%	-12.10
MAHI	4.012	3.132	78.07%	3.543	88.31%	3.241	80.78%	-3.36
SABARMATI	0.735	0.662	90.07%	0.499	67.89%	0.521	70.88%	27.06
RIVERS OF KUTCH	0.887	0.807	90.98%	0.319	35.96%	0.539	60.77%	49.72
GODAVARI	15.394	7.121	46.26%	10.654	69.21%	10.538	68.46%	-32.43
KRISHNA	32.831	11.082	33.75%	24.574	74.85%	28.512	86.84%	-61.13
MAHANADI & NEIGHBOURING EFRS	13.181	9.024	68.46%	11.827	89.73%	11.410	86.56%	-20.91
CAUVERY & NEIGHBOURING EFRS	8.359	3.035	36.31%	5.610	67.11%	5.776	69.10%	-47.45
WEST FLOWING RIVERS OF SOUTH	14.766	7.804	52.85%	13.166	89.16%	12.411	84.05%	-37.12
TOTAL	157.799	95.313		126.292		123.417		
PERCENTAGE								-22.77

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 23.09.2015

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	511.31	6.229	5.840	23-09-2015	94	94	90	676	1200
*2	PONG DAM	423.67	420.90	6.157	5.255	23-09-2015	85	71	85	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	510.82	2.344	1.172	22-09-2015	50	67	69	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	280.55	1.711	1.697	23-09-2015	99	100	86	63	140
5	JHAKAM	359.50	358.50	0.132	0.122	23-09-2015	92	93	83	28	-
*6	RANA PRATAP SAGAR	352.81	351.21	1.436	1.127	21-09-2015	78	97	78	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	260.47	0.821	0.436	23-09-2015	53	51	43	-	-
8	MAITHON	146.3	142.38	0.471	0.249	23-09-2015	53	97	94	342	-
*9	PANCHET HILL	124.97	121.28	0.184	0.042	23-09-2015	23	99	100	\$	80
10	KONAR	425.81	424.19	0.176	0.147	23-09-2015	84	100	88	\$	-
11	TILAIYA	368.81	369.15	0.142	0.142	23-09-2015	100	100	79	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	191.20	5.378	4.301	22-09-2015	80	87	95	153	307
*13	BALIMELA	462.08	456.38	2.676	1.744	23-09-2015	65	76	57	-	360
14	SALANADI	82.30	71.80	0.558	0.256	22-09-2015	46	69	59	42	-
*15	RENGALI	123.50	119.07	3.432	2.004	23-09-2015	58	92	85	3	200
*16	MACHKUND(JALPUT)	838.16	837.70	0.893	0.847	23-09-2015	95	77	81	-	115
*17	UPPER KOLAB	858.00	856.16	0.935	0.761	23-09-2015	81	75	64	89	320
*18	UPPER INDRAVATI	642.00	635.71	1.456	0.816	23-09-2015	56	99	81	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	115.87	0.480	0.240	23-09-2015	50	54	59	227	-
20	KANGSABATI	134.14	124.86	0.914	0.261	23-09-2015	29	49	61	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	93.40	0.312	0.305	23-09-2015	98	43	51	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	102.44	6.615	5.205	23-09-2015	79	90	86	348	300
23	SABARMATI(DHAROI)	189.59	188.79	0.735	0.662	23-09-2015	90	68	71	95	1
*24	KADANA	127.7	125.27	1.472	0.949	23-09-2015	64	80	74	200	120
25	SHETRUNJI	55.53	55.53	0.300	0.300	22-09-2015	100	47	77	36	-
26	BHADAR	107.89	107.32	0.188	0.163	22-09-2015	87	49	74	27	-
27	DAMANAGANGA	79.86	79.85	0.502	0.491	23-09-2015	98	87	81	51	1
28	DANTIWADA	184.1	182.82	0.399	0.344	23-09-2015	86	22	43	45	-
29	PANAM	127.41	124.30	0.697	0.364	23-09-2015	52	77	81	36	2
*30	SARDAR SAROVAR	121.92	120.78	1.566	1.359	22-09-2015	87	100	86	2120	1450
31	KARJAN	115.25	109.25	0.523	0.353	23-09-2015	67	97	97	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 23.09.2015

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	456.47	2.171	0.089	23-09-2015	4	46	61	227	-
*33	KOYANA	657.90	652.81	2.652	2.134	22-09-2015	80	100	100	-	1920
34	BHIMA(UJJANI)	496.83	491.15	1.517	0.020	22-09-2015	1	100	87	125	12
35	ISAPUR	441.00	433.03	0.965	0.340	22-09-2015	35	80	68	104	-
36	MULA	552.30	545.68	0.609	0.308	22-09-2015	51	96	86	139	-
37	YELDARI	461.77	451.48	0.809	0.110	22-09-2015	14	64	56	78	-
38	GIRNA	398.07	384.81	0.524	0.058	22-09-2015	11	47	56	79	-
39	KHADAKVASLA	582.47	578.72	0.056	0.013	22-09-2015	23	100	86	78	8
*40	UPPER VAITARNA	603.50	600.52	0.331	0.234	22-09-2015	71	100	95	-	61
41	UPPER TAPI	214.00	212.67	0.255	0.179	22-09-2015	70	73	76	45	-
*42	PENCH (TOTALADOH)	490.00	489.23	1.091	0.957	22-09-2015	88	83	83	127	160
43	UPPER WARDHA	342.50	342.50	0.564	0.564	23-09-2015	100	100	91	70	-
44	BHATSA	142.07	134.50	0.942	0.747	22-09-2015	79	99	97	29.378	15
45	DHOM	747.70	736.98	0.331	0.177	22-09-2015	53	99	92	36.2	2
46	DUDHGANGA	646.00	640.82	0.664	0.512	22-09-2015	77	102	101	2.441	24
47	MANIKDOH (KUKADI)	711.25	693.50	0.288	0.077	22-09-2015	27	68	67	2.2	6
48	BHANDARDARA	342.50	342.50	0.304	0.234	23-09-2015	100	100	91	70	-
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	307.51	0.707	0.541	23-09-2015	77	91	92	-	30
*50	RIHAND	268.22	259.60	5.649	2.084	22-09-2015	37	49	50	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	358.50	2.196	1.689	23-09-2015	77	84	65	1897	198
*52	TEHRI	830.00	822.75	2.615	2.315	23-09-2015	89	89	81	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	399.28	6.827	6.243	23-09-2015	91	74	56	220	115
54	TAWA	355.40	355.43	1.944	1.944	23-09-2015	100	100	98	247	-
*55	BARGI	422.76	421.75	3.180	2.940	23-09-2015	92	100	93	157	90
*56	BANSAGAR	341.64	337.89	5.166	3.527	23-09-2015	68	88	63	488	425
*57	INDIRA SAGAR	262.13	260.80	9.745	8.626	23-09-2015	89	98	75	2380	1000
58	BARNA	348.55	347.20	0.456	0.367	23-09-2015	80	91	84	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	353.88	3.046	1.967	22-09-2015	65	93	79	-	120
60	MAHANADI	348.70	345.53	0.767	0.496	22-09-2015	65	97	91	319	10
SOUTHERN REGION											
A.P & TG											
*61	SRISAILAM	269.75	256.18	8.288	1.675	23-09-2015	20	42	87	0	770
*62	NAGARJUNA SAGAR	179.83	155.78	6.841	0.053	23-09-2015	1	75	79	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	83.19	1.994	0.256	23-09-2015	13	50	46	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	321.17	2.300	0.236	22-09-2015	10	38	63	411	27
65	LOWER MANAIR	280.42	269.43	0.621	0.115	22-09-2015	19	42	62	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
KARNATAKA											
66	KRISHNARAJA SAGRA	752.50	746.51	1.163	0.643	21-09-2015	55	100	92	79	-
*67	TUNGABHADRA	497.74	495.36	3.276	2.084	23-09-2015	64	87	89	529	72
68	GHATAPRABHA	662.95	648.53	1.391	0.530	22-09-2015	38	100	98	317	-
69	BHADRA	657.76	652.26	1.785	1.196	22-09-2015	67	100	97	106	39
70	LINGANAMAKKI	554.43	546.05	4.294	2.165	23-09-2015	50	99	93	-	55
71	NARAYANPUR	492.25	491.59	0.863	0.655	23-09-2015	76	83	89	425	-
72	MALAPRABHA(RENUKA)	633.83	626.31	0.972	0.264	22-09-2015	27	74	78	215	-
73	KABINI	696.16	693.31	0.444	0.290	21-09-2015	65	98	57	85	-
74	HEMAVATHY	890.63	883.10	0.927	0.477	21-09-2015	51	100	95	265	-
75	HARANGI	871.42	867.90	0.220	0.139	21-09-2015	63	100	96	53	-
76	SUPA	564.00	540.35	4.120	1.786	23-09-2015	43	81	77	-	-
77	VANIVILAS SAGAR	652.28	634.63	0.802	0.046	16-09-2015	6	4	13	123	-
*78	ALMATTI	519.60	515.75	3.105	1.646	23-09-2015	53	100	98	@	290
*79	GERUSOPPA	55.00	47.04	0.130	0.087	23-09-2015	67	72	80	83	240
KERALA											
80	KALLADA(PARAPPAR)	115.82	96.73	0.507	0.147	19-09-2015	29	94	79	62	-
*81	IDAMALAYAR	169.00	150.18	1.018	0.520	21-09-2015	51	91	82	33	75
*82	IDUKKI	732.43	719.33	1.460	0.792	21-09-2015	54	73	72	-	780
*83	KAKKI	981.46	963.94	0.447	0.216	22-09-2015	48	77	82	23	300
*84	PERIYAR	867.41	860.93	0.173	0.054	21-09-2015	31	83	56	84	140
85	MALAPMUZHA	867.41	860.93	0.224	0.134	21-09-2015	31	83	56	84	140
TAMIL NADU											
86	LOWER BHAWANI	278.89	269.52	0.792	0.301	21-09-2015	38	38	66	105	8
*87	METTUR(STANLEY)	240.79	225.24	2.647	0.901	21-09-2015	34	58	70	122	360
88	VAIGAI	279.20	269.91	0.172	0.028	21-09-2015	16	22	43	61	6
89	PARAMBIKULAM	556.26	550.26	0.380	0.258	21-09-2015	68	100	89	101	-
90	ALIYAR	320.04	317.46	0.095	0.079	21-09-2015	83	100	88	#	60
*91	SHOLAYAR	1002.79	992.32	0.143	0.094	21-09-2015	66	100	99	-	95
TOTAL FOR 91 RESERVOIRS				157.799	95.313						
PERCENTAGE							60	80	78		

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