

BRIEF NOTE ON STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 21.10.2015)

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 **21.10.2015**, live storage available in these reservoirs is **91.667 BCM**, which is **58%** of total live storage capacity of these reservoirs. This storage is **77%** of the storage of corresponding period of last year and **76%** 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 **21.10.2015**, the total live storage available in these reservoirs is **14.66 BCM** which is **81%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **76%** and average storage of last ten years during corresponding period was **80%** 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 under CWC monitoring having total live storage capacity of 18.83 BCM. As per Reservoir Storage Bulletin dated **21.10.2015**, the total live storage available in these reservoirs is **12.79 BCM** which is **68%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **78%** 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 **21.10.2015**, the total live storage available in these reservoirs is **16.12 BCM** which is **60%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **79%** 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 **15.10.2015**, the total live storage available in these reservoirs is **30.37 BCM** which

is **72%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **82%** and average storage of last ten years during corresponding period was **68%** 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 **21.10.2015**, the total live storage available in these reservoirs is **17.73 BCM** which is **34%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **68%** and average storage of last ten years during corresponding period was **80%** 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, Indus, Narmada, Sabarmati and Rivers of Kutch. Close to Normal in 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.
- IMD has divided India in 36 meteorological sub-divisions. The data in respect of reservoir storage as compared with observed rainfall in sub-divisions having rainfall less than 80% of normal is given in the table.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **18** and reservoirs having storage more than average of last ten years are **21**. The numbers of reservoirs having storage less than 20% with respect to last year is **4** and having storage less than 20% with reference to average of last ten years is **6**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **19** and having storage less than or equal to 50% with reference to average of last ten years are **21**.

States having better storage (in %) than last year for corresponding period:
Himachal Pradesh, Punjab 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:
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 **21.10.2015** is **91.667** BCM (**58** percent of the live storage capacity at FRL). The current year's storage is nearly **77** percent of last year's storage and **76** 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	3 % -14 % 3 %
EAST (Jharkhand, Odisha, Tripura & W. Bengal (15 Resv.))	-	3	3	1	-	3	-	5	JHARKHAND ODISHA W. BENGAL TRIPURA	-26 % -10 % -51 % 83 %
WEST (Guj. & Mah.), (27 Resv.)	1	4	5	5	1	3	1	7	GUJARAT MAH.	-10 % -43 %
CENTRAL (MP, UP, Uttarakhand & Chh.), (12 Resv)	1	1	3	-	3	1	2	1	U.P. UTTARAKHAND M.P. CHHATISGARH	-26 % -3 % 19 % -31 %
SOUTH (Karnataka, TN, AP & TG, AP, TG, & Kerala), (31 Resv.))	-	-	1	1	4	7	3	15	AP & TG A.P TG KARNATAKA KERALA T.N.	-83 % -67 % -84 % -43 % -32 % -41 %
Status of 91 reservoirs	2	11	13	7	9	15	6	28		

4 Basin wise storage position:

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

Close to normal: Tapi, Mahi.

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

Highly deficient: Krishna

- 5 Out of 91 reservoirs, **35** reservoirs reported more than 80% of normal storage & **56** reservoirs reported 80% or below of normal storage. Out of these **56** reservoirs **21** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%	Name of reservoir	%
NAGARJUNA SAGAR	0	SOMASILA	33	HARANGI	49
JAYAKWADI (PAITHON)	9	HEMAVATHY	35		
SRIRAMSAGAR	13	MALAPRABHA (RENUKA)	36		
BHIMA (UJJANI)	16	SALANADI	36		
GIRNA	18	MANIKDOH	39		
PANCHET HILL	20	GHATAPRABHA	41		
YELDARI	26	MAITHON	43		
LOWER MANAIR	26	LOWER BHAWANI	43		
KHADAKVASLA	28	MAYURAKSHI	47		
SRISAILAM	32	ALMATTI	49		

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

51% to 60%	61% to 70%	71% to 80%
10	13	12

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

27 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 :- 21.10.2015

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	17.906	63.73%	19.973	71.09%	16.980	60.44%	5.45
INDUS	14.730	11.897	80.77%	10.672	72.45%	11.790	80.04%	0.91
NARMADA	17.414	14.809	85.04%	16.129	92.62%	13.894	79.79%	6.59
TAPI	7.394	5.061	68.45%	5.917	80.02%	6.244	84.45%	-18.95
MAHI	4.012	2.934	73.13%	3.512	87.54%	3.152	78.56%	-6.92
SABARMATI	0.735	0.647	88.03%	0.507	68.98%	0.564	76.73%	14.72
RIVERS OF KUTCH	0.887	0.781	88.05%	0.310	34.95%	0.566	63.81%	37.99
GODAVARI	15.394	7.111	46.19%	10.786	70.07%	11.054	71.81%	-35.67
KRISHNA	32.831	10.909	33.23%	22.956	69.92%	28.028	85.37%	-61.08
MAHANADI & NEIGHBOURING EFRS	13.181	8.703	66.03%	10.526	79.86%	10.882	82.56%	-20.02
CAUVERY & NEIGHBOURING EFRS	8.359	2.749	32.89%	5.748	68.76%	5.388	64.46%	-48.98
WEST FLOWING RIVERS OF SOUTH	14.766	8.160	55.26%	12.645	85.64%	12.470	84.45%	-34.56
TOTAL	157.799	91.667		119.681		121.012		
PERCENTAGE								-24.25

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 21.10.2015

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	510.14	6.229	5.657	19-10-15	91	87	87	676	1200
*2	PONG DAM	423.67	419.67	6.157	4.977	19-10-15	81	66	80	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	512.47	2.344	1.263	20-10-15	54	50	63	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	280.55	1.711	1.692	20-10-15	99	100	86	63	140
5	JHAKAM	359.50	358.40	0.132	0.121	20-10-15	92	95	83	28	-
*6	RANA PRATAP SAGAR	352.81	350.21	1.436	0.950	19-10-15	66	86	78	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	260.16	0.821	0.423	20-10-15	52	50	43	-	-
8	MAITHON	146.3	140.88	0.471	0.190	20-10-15	40	92	94	342	-
*9	PANCHET HILL	124.97	121.04	0.184	0.036	20-10-15	20	99	96	\$	80
10	KONAR	425.81	423.92	0.176	0.142	20-10-15	81	100	89	\$	-
11	TILAIYA	368.81	368.57	0.142	0.132	20-10-15	93	100	84	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	191.77	5.378	4.662	19-10-15	87	86	93	153	307
*13	BALIMELA	462.08	457.66	2.676	1.919	19-10-15	72	98	63	-	360
14	SALANADI	82.30	65.10	0.558	0.125	19-10-15	22	64	62	42	-
*15	RENGALI	123.50	119.23	3.432	2.055	19-10-15	60	65	82	3	200
*16	MACHKUND(JALPUT)	838.16	837.71	0.893	0.848	19-10-15	95	96	87	-	115
*17	UPPER KOLAB	858.00	856.28	0.935	0.772	19-10-15	83	87	67	89	320
*18	UPPER INDRAVATI	642.00	635.80	1.456	0.824	19-10-15	57	90	79	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	112.14	0.480	0.125	20-10-15	26	23	56	227	-
20	KANGSABATI	134.14	124.01	0.914	0.229	20-10-15	25	29	49	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	93.35	0.312	0.303	14-10-15	97	47	53	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	101.53	6.615	4.750	19-10-15	72	82	86	348	300
23	SABARMATI(DHAROI)	189.59	188.63	0.735	0.647	20-10-15	88	69	77	95	1
*24	KADANA	127.7	123.37	1.472	0.783	20-10-15	53	79	70	200	120
25	SHETRUNJI	55.53	55.42	0.300	0.291	20-10-15	97	47	78	36	-
26	BHADAR	107.89	107.13	0.188	0.155	19-10-15	82	45	79	27	-
27	DAMANAGANGA	79.86	80.05	0.502	0.486	19-10-15	97	94	98	51	1
28	DANTIWADA	184.1	182.54	0.399	0.335	20-10-15	84	22	46	45	-
29	PANAM	127.41	123.80	0.697	0.338	20-10-15	48	74	78	36	2
*30	SARDAR SAROVAR	121.92	120.57	1.566	1.321	19-10-15	84	71	74	2120	1450
31	KARJAN	115.25	109.29	0.523	0.354	19-10-15	68	97	99	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 21.10.2015

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	456.25	2.171	0.117	21-10-15	5	41	62	227	-
*33	KOYANA	657.90	651.82	2.652	1.908	19-10-15	72	97	98	-	1920
34	BHIMA(UJJANI)	496.83	492.10	1.517	0.223	19-10-15	15	100	91	125	12
35	ISAPUR	441.00	433.22	0.965	0.350	21-10-15	36	78	71	104	-
36	MULA	552.30	545.79	0.609	0.312	21-10-15	51	94	89	139	-
37	YELDARI	461.77	451.79	0.809	0.123	19-10-15	15	60	59	78	-
38	GIRNA	398.07	384.72	0.524	0.056	19-10-15	11	47	59	79	-
39	KHADAKVASLA	582.47	578.54	0.056	0.011	19-10-15	20	59	71	78	8
*40	UPPER VAITARNA	603.50	600.67	0.331	0.238	15-10-15	72	97	96	-	61
41	UPPER TAPI	214.00	214.00	0.255	0.255	19-10-15	100	100	100	45	-
*42	PENCH (TOTALADOH)	490.00	486.64	1.091	0.774	15-10-15	71	69	78	127	160
43	UPPER WARDHA	342.50	342.27	0.564	0.543	21-10-15	96	95	93	70	-
44	BHATSA	142.07	135.98	0.942	0.793	21-10-15	84	94	95	29.378	15
45	DHOM	747.70	737.06	0.331	0.178	21-10-15	54	98	93	36.2	2
46	DUDHGANGA	646.00	640.55	0.664	0.503	21-10-15	76	102	102	2.441	24
47	MANIKDOH (KUKADI)	711.25	693.34	0.288	0.076	21-10-15	26	66	68	2.2	6
48	BHANDARDARA	342.50	342.27	0.304	0.203	21-10-15	96	95	93	70	-
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	306.48	0.707	0.434	19-10-15	61	69	87	-	30
*50	RIHAND	268.22	259.51	5.649	2.050	21-10-15	36	43	49	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	354.45	2.196	1.425	21-10-15	65	87	72	1897	198
*52	TEHRI	830.00	819.10	2.615	2.170	21-10-15	83	91	81	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	399.18	6.827	6.183	19-10-15	91	73	51	220	115
54	TAWA	355.40	355.24	1.944	1.944	21-10-15	100	100	98	247	-
*55	BARGI	422.76	421.15	3.180	2.772	21-10-15	87	100	92	157	90
*56	BANSAGAR	341.64	336.74	5.166	3.114	19-10-15	60	90	61	488	425
*57	INDIRA SAGAR	262.13	260.11	9.745	8.099	21-10-15	83	93	72	2380	1000
58	BARNA	348.55	346.44	0.456	0.319	19-10-15	70	74	76	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	350.59	3.046	1.524	21-10-15	50	87	70	-	120
60	MAHANADI	348.70	343.27	0.767	0.337	19-10-15	44	88	74	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	258.63	8.288	2.079	21-10-15	25	29	78	0	770
*62	NAGARJUNA SAGAR	179.83	155.39	6.841	0.000	21-10-15	0	72	86	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	85.96	1.994	0.407	21-10-15	20	64	61	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	320.83	2.300	0.216	21-10-15	9	31	72	411	27
65	LOWER MANAIR	280.42	269.23	0.621	0.110	21-10-15	18	33	68	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	747.27	1.163	0.709	20-10-15	61	100	90	79	-
*67	TUNGABHADRA	497.74	494.93	3.276	1.958	20-10-15	60	87	85	529	72
68	GHATAPRABHA	662.95	648.65	1.391	0.535	20-10-15	38	93	93	317	-
69	BHADRA	657.76	650.57	1.785	1.152	20-10-15	65	99	95	106	39
70	LINGANAMAKKI	554.43	546.50	4.294	2.260	21-10-15	53	93	91	-	55
71	NARAYANPUR	492.25	489.96	0.863	0.472	21-10-15	55	81	92	425	-
72	MALAPRABHA(RENUKA)	633.83	626.48	0.972	0.275	20-10-15	28	74	80	215	-
73	KABINI(Sancherla Tank)	696.16	692.46	0.444	0.248	20-10-15	56	92	46	85	-
74	HEMAVATHY	890.63	878.87	0.927	0.275	20-10-15	30	98	86	265	-
75	HARANGI	871.42	861.83	0.220	0.079	20-10-15	36	82	73	53	-
76	SUPA	564.00	540.62	4.120	1.801	21-10-15	44	77	77	-	-
77	VANIVILAS SAGAR	652.28	636.65	0.802	0.087	14-10-15	11	6	16	123	-
*78	ALMATTI	519.60	515.05	3.105	1.452	21-10-15	47	93	96	@	290
*79	GERUSOPPA	55.00	46.83	0.130	0.086	21-10-15	66	90	84	83	240
KERALA											
80	KALLADA(PARAPPAR)	115.82	103.85	0.507	0.246	20-10-15	49	91	85	62	-
*81	IDAMALAYAR	169.00	151.05	1.018	0.540	20-10-15	53	89	84	33	75
*82	IDUKKI	732.43	720.04	1.460	0.825	20-10-15	57	72	73	-	780
*83	KAKKI	981.46	965.61	0.447	0.231	20-10-15	52	70	84	23	300
*84	PERIYAR	867.41	861.66	0.173	0.066	20-10-15	38	65	51	84	140
85	MALAPMUZHA	867.41	861.66	0.224	0.142	20-10-15	38	65	51	84	140
TAMIL NADU											
86	LOWER BHAWANI	278.89	266.68	0.792	0.205	20-10-15	26	43	60	105	8
*87	METTUR(STANLEY)	240.79	223.66	2.647	0.781	20-10-15	30	55	54	122	360
88	VAIGAI	279.20	271.81	0.172	0.045	20-10-15	26	22	38	61	6
89	PARAMBIKULAM	556.26	551.10	0.380	0.274	20-10-15	72	100	90	101	-
90	ALIYAR	320.04	318.21	0.095	0.084	20-10-15	88	97	88	#	60
*91	SHOLAYAR	1002.79	990.97	0.143	0.088	20-10-15	62	96	94	-	95
TOTAL FOR 91 RESERVOIRS				157.799	91.667						
PERCENTAGE								58	76	77	

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