

BRIEF NOTE ON STORAGE STATUS OF 91 IMPORTANT RESERVOIRS IN THE COUNTRY(WITH REFERENCE TO RESERVOIR BULLETIN OF 30.04.2015)

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 30.04.2015, live storage available in these reservoirs was **48.622 BCM** which is **31%** of total live storage capacity of these reservoirs. This storage is **91%** of the storage of corresponding period of last year and **120%** 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 **7.21 BCM** which is **40%** 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 **30%** 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 **7.80 BCM** which is **41%** 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 **28%** 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 **8.79 BCM** which is **32%** 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 **35%** 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 **15.79 BCM** which is **37%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **42%** 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 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 **9.04 BCM** which is **18%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **17%** 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 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 Deficient in Sabarmati, Krishna and Cauvery & neighbouring EFRs.
- 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 39 and reservoirs having storage more than average of last ten years are 49. The numbers of reservoirs having storage less than 20% with respect to last year is 2 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 15 and having storage less than 50% with reference to average of last ten years are 11.

States having better storage than last year for corresponding period: Himachal Pradesh, Punjab, Tripura, 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, , Gujarat, Maharashtra, Uttar Pradesh, Uttarakhand, 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 **30.04.2015** is **48.622** BCM (**31** percent of the storage capacity at FRL). The current year's storage is nearly **91** percent of last year's storage and **120** 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.)	-	-	-	1	-	-	-	5	H.P. PUNJAB RAJASTHAN	34 % 86 % -14 %
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.))	-	-	-	-	1	3	3	8	JHARKHAND ODISHA W. BENGAL TRIPURA	9 % 54 % 49 % -64 %
WEST (Guj.& Mah.), (27 Resv.)	-	-	1	2	3	-	3	18	GUJARAT MAH.	-3 % -14 %
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	1	1	1	1	-	8	U.P. UTTARAKHAND M.P. CHHATISGARH	38 % 75 % 97 % 38 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	2	-	-	-	3	26	AP&TG A,P TG KARNATAKA KERALA T.N.	-94 % -59 % 35 % 25 % 37 % -25 %
Status of 91 reservoirs	0	0	4	4	5	4	9	65		

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 .

Deficient: Sabarmati, Krishna and Cauvery & neighbouring EFRS.

Highly deficient: NIL

- 5 Out of 91 reservoirs, **66** reservoirs reported more than 80% of normal storage & **25** reservoirs reported 80% or below of normal storage.

Out of these 25 reservoirs		11 having storage upto 50% of normal storage	
Name of reservoir	%	Name of reservoir	%
SRISAILAM	0	MAHANADI	50
BHIMA(UJJANI)	7		
NAGARJUNA SAGAR	11		
SHOLAYAR	25		
VANIVILAS SAGAR	32		
JAYAKWADI(PAITHON)	34		
GUMTI	36		
KARJAN	40		
SOMASILA	41		
LOWER BHAWANI	48		

14 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
6	5	3

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

13 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 :- 30.04.2015

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	10.594	37.71%	13.952	49.66%	6.076	21.63%	74.36
INDUS	14.730	6.317	42.89%	5.490	37.27%	4.339	29.46%	45.59
NARMADA	17.414	5.330	30.61%	4.251	24.41%	3.458	19.86%	54.14
TAPI	7.394	2.090	28.27%	3.154	42.66%	2.538	34.33%	-17.65
MAHI	4.012	1.793	44.69%	2.343	58.40%	1.552	38.68%	15.53
SABARMATI	0.735	0.108	14.69%	0.144	19.59%	0.168	22.86%	-35.71
RIVERS OF KUTCH	0.887	0.102	11.50%	0.177	19.95%	0.092	10.37%	10.87
GODAVARI	15.394	4.602	29.89%	6.660	43.26%	3.854	25.04%	19.41
KRISHNA	32.831	4.305	13.11%	3.624	11.04%	6.851	20.87%	-37.16
MAHANADI & NEIGHBOURING EFRS	13.181	6.369	48.32%	7.031	53.34%	4.578	34.73%	39.12
CAUVERY & NEIGHBOURING EFRS	8.359	1.998	23.90%	1.846	22.08%	2.571	30.76%	-22.29
WEST FLOWING RIVERS OF SOUTH	14.766	5.014	33.96%	4.689	31.76%	4.411	29.87%	13.67
TOTAL	157.799	48.622		53.361		40.488		
PERCENTAGE								20.09

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 30.04.2015											
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	484.54	6.229	2.330	4/30/2015	37	35	24	676	1200
*2	PONG DAM	423.67	405.20	6.157	2.187	4/30/2015	36	29	30	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	521.16	2.344	1.800	4/30/2015	77	64	41	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	269.00	1.711	0.520	4/29/2015	30	43	25	63	140
5	JHAKAM	359.50	343.60	0.132	0.025	4/29/2015	19	36	17	28	-
*6	RANA PRATAP SAGAR	352.81	346.34	1.436	0.344	4/30/2015	24	40	41	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	257.94	0.821	0.340	4/29/2015	41	50	31	-	-
8	MAITHON	146.3	138.27	0.471	0.104	4/29/2015	22	57	37	342	-
*9	PANCHET HILL	124.97	121.01	0.184	0.035	4/29/2015	19	85	35	\$	80
10	KONAR	425.81	421.60	0.176	0.106	4/29/2015	60	62	40	\$	-
11	TILAIYA	368.81	366.35	0.142	0.062	4/29/2015	44	39	22	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	185.61	5.378	1.555	4/30/2015	29	37	31	153	307
*13	BALIMELA	462.08	454.06	2.676	1.443	4/30/2015	54	57	24	-	360
14	SALANADI	82.30	70.00	0.558	0.218	4/23/2015	39	80	24	42	-
*15	RENGALI	123.50	119.49	3.432	2.141	4/30/2015	62	53	29	3	200
*16	MACHKUND(JALPUT)	838.16	829.54	0.893	0.322	4/30/2015	36	52	42	-	115
*17	UPPER KOLAB	858.00	852.71	0.935	0.481	4/30/2015	51	41	28	89	320
*18	UPPER INDRAVATI	642.00	634.73	1.456	0.724	4/30/2015	50	46	27	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	109.42	0.480	0.070	4/29/2015	15	26	17	227	-
20	KANGSABATI	134.14	122.94	0.914	0.189	4/29/2015	21	41	10	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	84.30	0.312	0.009	4/30/2015	3	0	8	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	93.74	6.615	1.806	4/28/2015	27	44	35	348	300
23	SABARMATI(DHAROI)	189.59	180.40	0.735	0.108	4/29/2015	15	20	23	95	1
*24	KADANA	127.7	124.92	1.472	0.917	4/29/2015	62	77	53	200	120
25	SHETRUNJI	55.53	49.77	0.300	0.047	4/27/2015	16	26	13	36	-
26	BHADAR	107.89	102.41	0.188	0.033	4/27/2015	18	46	21	27	-
27	DAMANAGANGA	79.86	69.65	0.502	0.120	4/28/2015	24	30	44	51	1
28	DANTIWADA	184.1	162.73	0.399	0.022	4/29/2015	6	3	4	45	-
29	PANAM	127.41	123.65	0.697	0.331	4/29/2015	47	61	45	36	2
*30	SARDAR SAROVAR	121.92	119.94	1.566	1.209	4/27/2015	77	40	40	2120	1450
31	KARJAN	115.25	102.69	0.523	0.121	4/27/2015	23	58	58	51	3

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

WEEK ENDING :- 30.04.2015											
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	456.72	2.171	0.195	4/30/2015	9	12	26	227	-
*33	KOYANA	657.90	642.49	2.652	1.288	4/29/2015	49	18	41	-	1920
34	BHIMA(UJJANI)	496.83	491.13	1.517	0.020	4/29/2015	1	8	19	125	12
35	ISAPUR	441.00	431.00	0.965	0.235	4/29/2015	24	61	29	104	-
36	MULA	552.30	538.36	0.609	0.087	4/29/2015	14	35	28	139	-
37	YELDARI	461.77	450.92	0.809	0.089	4/29/2015	11	53	15	78	-
38	GIRNA	398.07	385.66	0.524	0.078	4/29/2015	15	16	20	79	-
39	KHADAKVASLA	582.47	581.38	0.056	0.041	4/29/2015	73	70	29	78	8
*40	UPPER VAITARNA	603.50	596.01	0.331	0.117	4/29/2015	35	59	44	-	61
41	UPPER TAPI	214.00	213.15	0.255	0.206	4/29/2015	81	75	37	45	-
*42	PENCH (TOTALADOH)	490.00	472.78	1.091	0.178	4/29/2015	16	53	24	127	160
43	UPPER WARDHA	342.50	337.31	0.564	0.195	4/28/2015	35	41	36	70	-
44	BHATSA	142.07	117.35	0.942	0.403	4/16/2015	43	49	45	29.378	15
45	DHOM	747.70	742.53	0.331	0.222	1/31/2015	67	71	60	36.2	2
46	DUDHGANGA	646.00	638.02	0.664	0.429	2/28/2015	65	57	65	2.441	24
47	MANIKDOH (KUKADI)	711.25	699.44	0.288	0.115	12/31/2014	40	66	49	2.2	6
48	BHANDARDARA	342.50	337.31	0.304	0.195	4/28/2015	35	41	36	70	-
<u>CENTRAL REGION</u>											
<u>UTTAR PRADESH</u>											
49	MATATILA	308.46	308.18	0.707	0.612	4/29/2015	87	46	39	-	30
*50	RIHAND	268.22	256.34	5.649	0.945	4/30/2015	17	29	15	-	300
<u>UTTRAKHAND</u>											
*51	RAMGANGA	365.30	353.82	2.196	1.313	4/27/2015	60	71	32	1897	198
*52	TEHRI	830.00	762.40	2.615	0.453	4/30/2015	17	14	11	2351	1000
<u>MADHYA PRADESH</u>											
*53	GANDHI SAGAR	399.90	392.24	6.827	2.755	4/30/2015	40	65	20	220	115
54	TAWA	355.40	344.79	1.944	0.629	4/29/2015	32	23	21	247	-
*55	BARGI	422.76	412.75	3.180	1.023	4/29/2015	32	31	23	157	90
*56	BANSAGAR	341.64	337.14	5.166	3.257	4/30/2015	63	69	23	488	425
*57	INDIRA SAGAR	262.13	250.35	9.745	2.240	4/30/2015	23	18	13	2380	1000
58	BARNA	348.55	342.08	0.456	0.108	4/30/2015	24	37	16	546	-
<u>CHHATTIS GARH</u>											
*59	MINIMATA BANGOI	359.66	356.00	3.046	2.285	4/29/2015	75	80	47	-	120
60	MAHANADI	348.70	340.34	0.767	0.170	4/30/2015	22	43	44	319	10
<u>SOUTHERN REGION</u>											
<u>A.P & TG</u>											
*61	SRISAILAM	269.75	245.55	8.288	0.000	4/30/2015	0	0	18	0	770
*62	NAGARJUNA SAGAR	179.83	156.61	6.841	0.185	4/30/2015	3	6	24	895	810
<u>ANDHRA PRADESH</u>											
63	SOMASILA	100.58	84.33	1.994	0.314	4/30/2015	16	47	38	168	0
<u>TELANGANA</u>											
64	SRIRAMSAGAR	332.54	322.63	2.300	0.340	4/30/2015	15	35	8	411	27
65	LOWER MANAIR	280.42	270.11	0.621	0.134	4/30/2015	22	47	26	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	740.85	1.163	0.272	4/29/2015	23	21	18	79	-
*67	TUNGABHADRA	497.74	479.66	3.276	0.562	4/30/2015	17	21	5	529	72
68	GHATAPRABHA	662.95	638.25	1.391	0.165	4/29/2015	12	2	7	317	-
69	BHADRA	657.76	646.55	1.785	0.715	4/29/2015	40	31	34	106	39
70	LINGANAMAKKI	554.43	538.22	4.294	0.970	4/29/2015	23	21	26	-	55
71	NARAYANPUR	492.25	486.78	0.863	0.192	4/30/2015	22	27	34	425	-
72	MALAPRABHA(RENUKA)	633.83	622.49	0.972	0.088	4/29/2015	9	4	7	215	-
73	KABINI	696.16	691.63	0.444	0.210	4/29/2015	47	36	5	85	-
74	HEMAVATHY	890.63	873.87	0.927	0.118	4/29/2015	13	12	11	265	-
75	HARANGI	871.42	853.50	0.220	0.023	4/29/2015	10	18	16	53	-
76	SUPA	564.00	539.00	4.120	1.672	4/30/2015	41	41	28	-	-
77	VANIVILAS SAGAR	652.28	633.74	0.802	0.036	4/29/2015	4	4	14	123	-
*78	ALMATTI	519.60	507.87	3.105	0.247	4/30/2015	8	8	7	@	290
*79	GERUSOPPA	55.00	52.66	0.130	0.116	4/30/2015	89	74	89	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	100.34	0.507	0.196	4/29/2015	39	22	29	62	-
*81	IDAMALAYAR	169.00	142.54	1.018	0.358	4/27/2015	35	32	27	33	75
*82	IDUKKI	732.43	716.07	1.460	0.661	4/29/2015	45	34	27	-	780
*83	KAKKI	981.46	957.49	0.447	0.162	4/30/2015	36	17	33	23	300
*84	PERIYAR	867.41	860.38	0.173	0.045	4/29/2015	26	14	29	84	140
85	MALAPMUZHA	867.41	860.38	0.224	0.045	4/29/2015	26	14	29	84	140
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	263.93	0.792	0.132	4/29/2015	17	10	35	105	8
*87	METTUR(STANLEY)	240.79	225.22	2.647	0.900	4/29/2015	34	10	42	122	360
88	VAIGAI	279.20	270.03	0.172	0.029	4/29/2015	17	2	27	61	6
89	PARAMBIKULAM	556.26	539.26	0.380	0.067	4/29/2015	18	18	34	101	-
90	ALIYAR	320.04	317.33	0.095	0.078	4/29/2015	82	29	47	#	60
*91	SHOLAYAR	1002.79	956.11	0.143	0.002	4/29/2015	1	1	6	-	95
TOTAL FOR 91 RESERVOIRS				157.799	48.636						
PERCENTAGE							31	34	26		

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