BRIEF NOTE ON STORAGE STATUS OF 91 IMPORTANT RESERVOIRS IN THE COUNTRY(WITH REFERENCE TO RESERVOIR BULLETIN OF 04.06.2015)

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. 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 04.06.2015, live storage available in these reservoirs was 39.905 BCM which is 25% of total live storage capacity of these reservoirs. This storage is 92% of the storage of corresponding period of last year and 131% 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 **7.56** 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 **5.96** BCM which is **32%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **35%** and average storage of last ten years during corresponding period was **16%** 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 **5.64** BCM which is **21%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **27%** and average storage of last ten years during corresponding period was **23%** 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 **13.59** BCM which is **32%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **36%** and average storage of last ten years during corresponding period was **16%** 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 **7.16** BCM which is **14%** 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 equal to 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 storagemore 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 2 and having storage less than 20% with reference to average of last ten years is 4. The numbers of reservoirs having storage less than 50% with respect to last year are 16 and having storage less than 50% with reference to average of last ten years are 9.

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

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

States having lesser storage than last year for corresponding period: Rajasthan, Jharkhand, West Bengal, 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 **04.06.2015** is **39.905** BCM (**25** percent of the storage capacity at FRL). The current year's storage is nearly **92** percent of last year's storage and **131** percent of the average of last ten years.

3 Region wise storage status:-

		Filling	positio								
REGION (States), (Monitoring No. of Reservoirs)	100%	91%- 99%	81%- 90%	71%- 80%	61%- 70%	51%- 60%	41%- 50%	40% & below	Departure fr stor		
NORTH									H.P.	67 %	
(HP,Punjab & Rajasthan), (6 Resv.)	-	-	-	1	-	-	1	4	PUNJAB RAJASTHAN	63 % -18 %	
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	-	-	-	-	-	-	3	12	JHARKHAND ODISHA W. BENGAL TRIPURA	7 % 118 % 46 % 22 %	
WEST (Guj.& Mah.), (27 Resv.)	-	-	-	1	-	3	1	22	GUJARAT MAH.	2 % -24 %	
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	1	1	2	-	8	U.P. UTTARAKHAND M.P. CHHATISGARH	80 % 174 % 124 % 44 %	
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	1	1	-	-	-	29	AP&TG A,P TG KARNATAKA KERALA T.N.	-93 % -48 % 27 % 22 % 45 % -14 %	
Status of 91 reservoirs	0	0	1	4	1	5	5	75			

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 9 having storage upto 50% of normal

storage.

Name of reservoir	%	Name of reservoir	%	Name of reservoir	%
SRISAILAM	0				
BHIMA(UJJANI)	0				
NAGARJUNA SAGAR	12				
JAYAKWADI(PAITHON)	17				
MAHANADI	25				
VANIVILAS SAGAR	38				
YELDARI	43				
RANA PRATAP SAGAR	46				
MAITHON	48				

13	13 reservors									
having	having storage 51%									
to 80%	to 80% of normal									
storage	storage.									
51%	61%	71%								
to	to	to								
60%	70%	80%								
7	5	1								

11 reservoirs.

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

WEEKLY REPORT - BASINWISE

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	WEEK EN	NDING :-	04.06.201	5				
NAME OF BASIN	LIVE CAP. AT FRL	THIS Y STOR	EAR'S RAGE	LAST Y		LAST 10 AVG. ST		% DEPARTURE W.R.T. AVE. OF 10 YEARS'
GANGA	28.096	9.780	34.81%	12.732	45.32%	4.802	17.09%	103.67
INDUS	14.730	6.736	45.73%	5.435	36.90%	4.063	27.58%	65.79
NARMADA	17.414	3.760	21.59%	2.768	15.90%	2.315	13.29%	62.42
TAPI	7.394	1.327	17.95%	2.328	31.48%	1.645	22.25%	-19.33
MAHI	4.012	1.682	41.92%	2.183	54.41%	1.368	34.10%	22.95
SABARMATI	0.735	0.085	11.56%	0.122	16.60%	0.143	19.46%	-40.56
RIVERS OF KUTCH	0.887	0.063	7.10%	0.117	13.19%	0.047	5.30%	34.04
GODAVARI	15.394	3.411	22.16%	5.511	35.80%	2.530	16.43%	34.82
KRISHNA	32.831	2.400	7.31%	2.237	6.81%	5.293	16.12%	-54.66
MAHANADI & NEIGHBOURING EFRS	13.181	4.932	37.42%	5.219	39.59%	2.875	21.81%	71.55
CAUVERY& NEIGHBOURING EFRS	8.359	2.048	24.50%	1.638	19.60%	2.295	27.46%	-10.76
WEST FLOWING RIVERS OF SOUTH	14.766	3.681	24.93%	3.113	21.08%	2.974	20.14%	23.77
TOTAL	157.799	39.905		43.403		30.350		
PERCENTAGE					•			31.48

	GOVERNMENT OF INDIA	WEE	KLY REPOR	T OF 91 IM	PORTANT RI	ESERVOIRS			WATER CON	AN AICCIC	NA.
	GOVERNMENT OF INDIA			WEI	EK ENDING :-	04.06.2015		CENTRAL V	VATER COM	VIIVIISSIC	N
							STORAGE AS	S % OF LIVE C	APACITY AT	BENE	EFITS
S. NO	NAME OF RESERVOIR	FRL (m)	CURRENT RESERVOIR LEVEL (m)	LIVE CAPACITY AT FRL (BCM)	CURRENT LIVE STORAGE (BCM)	DATE	CURRENT YEAR	FRL 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
1	IORTHERN REGION		<u> </u>			-	-				l I
_	HIMACHAL PRADESH										
*1	GOBIND SAGAR(BHAKRA)	512.06	487.53	6.229	2.630	6/4/2015	42	31	24	676	1200
	PONG DAM PUNJAB	423.67	405.68	6.157	2.265	6/4/2015	37	29	23	-	360
*3	THEIN	527.91	521.73	2.344	1.841	6/4/2015	79	76	48	348	600
	RAJASTHAN										
*4	MAHI BAJAJ SAGAR	280.75	268.85	1.711	0.512	6/4/2015	30	41	21	63	140
5	JHAKAM	359.50	343.25	0.132	0.024	6/4/2015	18	35	17	28	_
*6	RANA PRATAP SAGAR	352.81	345.94	1.436	0.286	6/3/2015	20	43	43	229	172
	EASTERN REGION										
	JHARKHAND										
7	TENUGHAT	269.14	257.10	0.821	0.314	6/2/2015	38	51	29	-	-
8	MAITHON	146.3	136.81	0.471	0.069	6/2/2015	15	60	31	342	-
*9	PANCHET HILL	124.97	123.75	0.184	0.088	6/2/2015	48	97	33	\$	80
10	KONAR	425.81	418.37	0.176	0.062	6/2/2015	35	52	31	\$	-
11	TILAIYA	368.81	365.42	0.142	0.038	6/2/2015	27	41	21	\$	4
	<u>ODISHA</u>										
*12	HIRAKUD	192.02	184.02	5.378	1.031	6/4/2015	19	23	16	153	307
*13	BALIMELA	462.08	452.48	2.676	1.236	6/2/2015	46	51	15	-	360
14	SALANADI	82.30	69.70	0.558	0.211	6/4/2015	38	79	22	42	-
*15	RENGALI	123.50	117.07	3.432	1.451	6/2/2015	42	30	10	3	200
*16	MACHKUND(JALPUT)	838.16	828.55	0.893	0.279	6/1/2015	31	44	33	-	115
*17	UPPER KOLAB	858.00	851.18	0.935	0.365	6/2/2015	39	28	14	89	320
*18	UPPER INDRAVATI	642.00	631.96	1.456	0.496	6/4/2015	34	22	13	128	600
	WEST BENGAL										
19	MAYURAKSHI	121.31	109.45	0.480	0.071	6/2/2015	15	30	18	227	-
20	KANGSABATI	134.14	123.00	0.914	0.191	6/2/2015	21	38	10	341	-
	TRIPURA										
	GUMTI	93.55	86.90	0.312	0.060	6/3/2015	19	9	16	-	15
	WESTERN REGION										
+00	GUJARAT	405 45				011100:=	<i>_</i> =	a-	-		225
	UKAI	105.16		6.615	1.136	6/4/2015	17	33	23	348	
	SABARMATI(DHAROI)	189.59			0.085	6/4/2015	12	17	19	95	
	KADANA SHETRUNJI	127.7			0.832	6/4/2015 6/4/2015	57 10	72 16	49	200	120
	BHADAR	55.53			0.031		10	16	6 13	36	
	DAMANAGANGA	107.89 79.86			0.023 0.062	6/4/2015	12 12	31 15	13	27 51	
	DANTIWADA	184.1			0.062	6/4/2015 6/4/2015	2	15 3	14	45	
	PANAM	127.41	162.23 123.30		0.009		45	55	39	36	
	SARDAR SAROVAR	121.92			0.868	6/4/2015	55	24	28	2120	
	KARJAN	115.25					28	41	42	51	3
51		110.20	30.19	0.525	-7-	5/4/2013	20	71	72	51	3
					•						

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

_	GOVERNMENT OF INDIA			WEI	EK ENDING :-		IVIIVIISSIUIV				
			CURRENT	LIVE		04.06.2015	STORAGE A	S % OF LIVE C FRL	APACITY AT	BENI	EFITS
S. NO	NAME OF RESERVOIR	FRL (m)	RESERVOIR LEVEL (m)	CAPACITY AT FRL (BCM)	CURRENT LIVE STORAGE (BCM)	DATE	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	455.93	2.171	0.064	6/3/2015	3	6	18	227	-
*33	KOYANA	657.90	634.19	2.652	0.622	6/4/2015	23	6	27	-	1920
34	BHIMA(UJJANI)	496.83	488.96	1.517	0.000	6/4/2015	0	0	4	125	12
35	ISAPUR	441.00	428.87	0.965	0.138	6/3/2015	14	52	23	104	-
36	MULA	552.30	535.79	0.609	0.033	6/3/2015	5	7	8	139	-
37	YELDARI	461.77	449.08	0.809	0.037	6/3/2015	5	45	11	78	-
38	GIRNA	398.07	384.05	0.524	0.041	6/3/2015	8	10	14	79	-
39	KHADAKVASLA	582.47	581.44	0.056	0.042	6/3/2015	75	54	21	78	8
*40	UPPER VAITARNA	603.50	593.19	0.331	0.064	6/3/2015	19	37	31	-	61
41	UPPER TAPI	214.00	212.06	0.255	0.150	6/3/2015	59	47	14	45	-
*42	PENCH (TOTALADOH)	490.00	470.98	1.091	0.129	6/3/2015	12	46	20	127	160
43	UPPER WARDHA	342.50	336.80	0.564	0.169	6/4/2015	30	37	31	70	-
44	BHATSA	142.07	110.17	0.942	0.288	5/20/2015	31	39	36	29.378	15
45	DHOM	747.70	731.56	0.331	0.105	6/4/2015	32	16	24	36.2	2
46	DUDHGANGA	646.00	628.70	0.664	0.213	5/14/2015	32	28	31	2.441	24
	MANIKDOH (KUKADI)	711.25	683.80	0.288	0.023	6/3/2015	8	5	4	2.2	
	BHANDARDARA CENTRAL REGION	342.50	336.80	0.304	0.169	6/4/2015	30	37	31	70	-
	UTTAR PRADESH	•									
40	MATATILA	308.46	305.99	0.707	0.383	6/3/2015	54	31	22		30
	RIHAND	268.22	255.85	5.649	0.803	6/4/2015	14	19	9	_	300
30	UTTRAKHAND	200.22	200.00	3.043	0.003	0/4/2013		13	3		300
*51	RAMGANGA	365.30	252.49	2.196	1.315	6/4/2015	60	57	22	1897	198
	TEHRI	830.00	750.95	2.615	0.203	6/4/2015	8	1	3	2351	1000
02	MADHYA PRADESH	000.00	700.00	2.010	0.200	0/4/2010	Ü		Ü	2001	1000
*53	GANDHI SAGAR	399.90	392.24	6.827	2.755	6/4/2015	40	65	18	220	115
	TAWA	355.40	343.97	1.944	0.559	6/4/2015	29	12	20	247	-
	BARGI	422.76	409.20	3.180	0.583	6/4/2015	18	18	12	157	90
*56	BANSAGAR	341.64	336.82	5.166	3.142	6/4/2015	61	69	19	488	425
*57	INDIRA SAGAR	262.13	248.31	9.745	1.501	5/28/2015	15	12	8	2380	1000
58	BARNA	348.55	341.94	0.456	0.104	6/4/2015	23	37	15	546	-
	CHHATTIS GARH										
*59	MINIMATA BANGOI	359.66	355.25	3.046	2.170	6/3/2015	71	76	42	-	120
60	MAHANADI	348.70	338.18	0.767	0.069	6/3/2015	9	30	36	319	10
S	OUTHERN REGION										
	<u>A.P & TG</u>										
*61	SRISAILAM	269.75	243.85	8.288	0.000	6/4/2015	0	0	14	0	770
*62	NAGARJUNA SAGAR	179.83	156.73	6.841	0.205	6/4/2015	3	6	26	895	
	ANDHRA PRADESH										
63	SOMASILA	100.58	84.06	1.994	0.299	6/4/2015	15	37	29	168	0
	<u>TELANGANA</u>										
64	SRIRAMSAGAR	332.54	322.48	2.300	0.326	6/4/2015	14	33	7	411	27
65	LOWER MANAIR	280.42	269.67	0.621	0.121	6/4/2015	19	100	29	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNMENT OF INDIA	RNMENT OF INDIA CENTRAL WATER COMMIS WEEK ENDING :- 04.06.2015						MMISSIC)N		
			CURRENT	LIVE			STORAGE A	S % OF LIVE C FRL	APACITY AT	BEN	EFITS
S. NO	NAME OF RESERVOIR	FRL (m)	RESERVOIR LEVEL (m)	CAPACITY AT FRL (BCM)	CURRENT LIVE STORAGE (BCM)	DATE	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	737.71	1.163	0.137	6/1/2015	12	8	9	79	-
*67	TUNGABHADRA	497.74	482.64	3.276	0.164	6/4/2015	5	7	5	529	72
68	GHATAPRABHA	662.95	634.27	1.391	0.077	5/29/2015	6	1	3	317	-
69	BHADRA	657.76	642.98	1.785	0.475	5/28/2015	27	22	22	106	39
70	LINGANAMAKKI	554.43	534.73	4.294	0.625	6/4/2015	15	12	15	-	55
71	NARAYANPUR	492.25	486.72	0.863	0.188	6/4/2015	22	57	39	425	-
72	MALAPRABHA(RENUKA)	633.83	622.01	0.972	0.072	5/28/2015	7	3	5	215	-
73	KABINI	696.16	690.67	0.444	0.169	6/3/2015	38	31	6	85	-
74	HEMAVATHY	890.63	874.93	0.927	0.146	6/3/2015	16	15	7	265	-
75	HARANGI	871.42	854.85	0.220	0.030	6/3/2015	14	20	16	53	-
76	SUPA	564.00	534.60	4.120	1.383	6/4/2015	34	29	21	-	-
77	VANIVILAS SAGAR	652.28	633.89	0.802	0.039	5/28/2015	5	4	13	123	-
*78	ALMATTI	519.60	507.13	3.105	0.175	6/4/2015	6	6	6	@	290
*79	GERUSOPPA	55.00	50.58	0.130	0.105	6/4/2015	81	77	85	83	240
	KERALA										
80	KALLADA(PARAPPAR)	115.82	94.28	0.507	0.120	6/3/2015	24	20	21	62	-
*81	IDAMALAYAR	169.00	133.40	1.018	0.196	6/3/2015	19	18	16	33	75
*82	IDUKKI	732.43	711.34	1.460	0.480	6/3/2015	33	20	16	-	780
*83	KAKKI	981.46	946.70	0.447	0.093	6/3/2015	21	5	20	23	300
*84	PERIYAR	867.41	861.20	0.173	0.059	6/3/2015	34	25	31	84	140
85	MALAPMUZHA	867.41	861.20	0.224	0.059	6/3/2015	34	25	31	84	140
	TAMIL NADU										
86	LOWER BHAWANI	278.89	267.94	0.792	0.245	6/3/2015	31	14	36	105	8
*87	METTUR(STANLEY)	240.79	226.22	2.647	0.980	6/3/2015	37	13	44	122	360
88	VAIGAI	279.20	271.53	0.172	0.042	6/3/2015	24	8	24	61	6
89	PARAMBIKULAM	556.26	538.93	0.380	0.062	6/3/2015	16	14	30	101	-
90	ALIYAR	320.04	317.07	0.095	0.076	6/3/2015	80	21	40	#	60
*91	SHOLAYAR	1002.79	966.03	0.143	0.016	6/3/2015	11	6	8		95
	TOTAL FOR 91 RESERVOIRS			157.799	40.063						
	PERCENTAGE						25	28	19		

Sd/-

Director W. M., CWC

 $^{^{\}star}$ HYDEL POWER CAPACITY HAVING CAPACITY MORE THAN 60MW

^{\$} TOTAL CCA 342 TH. HA OF DVC SYSTEM

[#] TOTAL CCA 101 TH. HA OF PARAMBIKULAM & ALIYAR

^{@&#}x27; TOTAL CCA 425 TH. HA. OF NARAYANPUR AND ALMATTI

[†] SABARMATI RESERVOIR IS SUPPLEMENTED WITH NARMADA WATER THROUGH PIPELINE.

SI. 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