BRIEF NOTE ON STORAGE STATUS OF 91 IMPORTANT RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR BULLETIN OF 25.06.2015)

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 25.06.2015, live storage available in these reservoirs was 43.226 BCM which is 27% of total live storage capacity of these reservoirs. This storage is 111% of the storage of corresponding period of last year and 146% of storage of average of last ten years. The present storage position during current year is better than the storage position of last year and is also better than the storage of average of last ten years.

As per Table-01, the overall storage position is **better than the** corresponding period of last year in the country as a whole and is also **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 **7.76** BCM which is **43%** 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 **29%** 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 **5.41** BCM which is **29%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **26%** and average storage of last ten years during corresponding period was **15%** 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.

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 **5.91** BCM which is **22%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **24%** 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 and is better 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 12.67 BCM which is 30% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 31% and average storage of last ten years during corresponding period was 14% 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 11.48 BCM which is 22% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 13% and average storage of last ten years during corresponding period was 20% 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.

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, Cauvery& neighbouring EFRs, Mahanadi & neighbouring East Flowing Rivers, and West Flowing Rivers of South. Close to Normal in Tapi and Krishna and Deficient in Sabarmati.
- 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 49 and reservoirs having storage more than average of last ten years are 59. The numbers of reservoirs having storage less than 20% with respect to last year is 1 and having storage less than 20% with reference to average of last ten years is 5. The numbers of reservoirs having storage less than 50% with respect to last year are 14 and having storage less than 50% with reference to average of last ten years are 10.

States having better storage (in %) than last year for corresponding period: Himachal Pradesh, Punjab, Odisha, Tripura, Uttar Pradesh, Karnataka, Kerala and Tamil Nadu.

States having equal storage (in %) to last year for corresponding period: Maharashtra and Uttarakhand.

States having lesser storage (in %) than last year for corresponding period: Rajasthan, Jharkhand, West Bengal, Gujarat, Madhya Pradesh, Chhattisgarh, Andhra Pradesh, Telangana, AP&TG(2combined project in both states).

WEEKLY REPORT - BASINWISE

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 25.06.2015

WEEK EINDING : 25.00.2015									
NAME OF BASIN	LIVE CAP. AT FRL	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	8.772	31.22%	11.312	40.26%	4.802	17.09%	82.67	
INDUS	14.730	6.958	47.24%	5.992	40.68%	4.184	28.40%	66.30	
NARMADA	17.414	3.748	21.52%	2.309	13.26%	1.565	8.99%	139.49	
TAPI	7.394	1.264	17.09%	1.952	26.40%	1.410	19.07%	-10.35	
MAHI	4.012	1.662	41.43%	2.168	54.04%	1.327	33.08%	25.24	
SABARMATI	0.735	0.080	10.88%	0.104	14.15%	0.132	17.96%	-39.39	
RIVERS OF KUTCH	0.887	0.104	11.72%	0.095	10.71%	0.042	4.74%	147.62	
GODAVARI	15.394	3.773	24.51%	4.516	29.34%	2.185	14.19%	72.68	
KRISHNA	32.831	5.743	17.49%	1.963	5.98%	6.215	18.93%	-7.59	
MAHANADI & NEIGHBOURING EFRS	13.181	4.190	31.79%	3.929	29.81%	2.503	18.99%	67.40	
CAUVERY& NEIGHBOURING EFRS	8.359	2.750	32.90%	1.786	21.37%	2.329	27.86%	18.08	
WEST FLOWING RIVERS OF SOUTH	14.766	4.182	28.32%	2.806	19.00%	3.002	20.33%	39.31	
TOTAL	157.799	43.226		38.932		29.696			
PERCENTAGE								45.56	

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNMENT OF INDIA			\ <i>\/</i> ==	K ENDING :-	25.06.2015		CENTRAL V	VATER COM	MISSIO	N
				25.06.2015	STORAGE A	BENEFITS					
S. NO	NAME OF RESERVOIR	FRL (m)	CURRENT RESERVOIR LEVEL (m)	LIVE 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
	NORTHERN REGION										
	HIMACHAL PRADESH										
*1	GOBIND SAGAR(BHAKRA)	512.06	488.12	6.229	2.695	25-06-2015	43	41	28	676	1200
*2	PONG DAM PUNJAB	423.67	405.91	6.157	2.304	25-06-2015	37	27	22	-	360
*3	THEIN	527.91	522.90	2.344	1.959	25-06-2015	84	77	47	348	600
	RAJASTHAN										
*4	MAHI BAJAJ SAGAR	280.75	268.90	1.711	0.515	24-06-2015	30	45	21	63	140
5	JHAKAM	359.50	343.20	0.132	0.024	24-06-2015	18	34	17	28	-
*6	RANA PRATAP SAGAR	352.81	345.77	1.436	0.262	25-06-2015	18	49	44	229	172
	EASTERN REGION	-									
	JHARKHAND										
7	TENUGHAT	269.14	256.66	0.821	0.300	24-06-2015	37	51	33	-	-
8	MAITHON	146.3	136.43	0.471	0.062	24-06-2015	13	39	35		-
*9	PANCHET HILL	124.97	123.09		0.101	24-06-2015	55	100	53		80
	KONAR	425.81	415.70		0.035	24-06-2015	20	56	34		-
11	TILAIYA	368.81	365.45	0.142	0.039	24-06-2015	27	39	28	\$	4
	<u>ODISHA</u>										
	HIRAKUD	192.02	182.98		0.728	18-06-2015	14	15	10		307
	BALIMELA	462.08	453.24		1.335	24-06-2015	50	45	11	-	360
	SALANADI	82.30	69.75		0.212	25-06-2015	38	76	25	42	
	RENGALI	123.50	115.02		0.976	24-06-2015	28	6	7		
	MACHKUND(JALPUT) UPPER KOLAB	838.16 858.00	831.04 851.65		0.394	24-06-2015	44	36 18	29 10	89	115 320
	UPPER INDRAVATI	642.00	631.78		0.481	24-06-2015 25-06-2015	33	15	11	128	600
10	WEST BENGAL	042.00	031.70	1.450	0.401	25-00-2015	33	13	11	120	000
19	MAYURAKSHI	121.31	109.48	0.480	0.071	24-06-2015	15	34	22	227	-
20	KANGSABATI	134.14	123.00	0.914	0.191	24-06-2015	21	38	19	341	-
	TRIPURA										
	GUMTI	93.55	87.60	0.312	0.080	24-06-2015	26	24	25	-	15
	WESTERN REGION	•									
*00	GUJARAT UKAI	105.40	00.50	6 645	1 165	10-06 2015	40	20	20	240	200
	SABARMATI(DHAROI)	105.16 189.59	90.56 179.52		1.165 0.080	19-06-2015	18 11	28 14			300
	KADANA	189.59				24-06-2015 24-06-2015	55		47		120
	SHETRUNJI	55.53	49.22		0.039	23-06-2015	13		7		120
	BHADAR	107.89	102.96		0.039	23-06-2015	22		10		-
	DAMANAGANGA	79.86	67.55			19-06-2015	15		10		1
	DANTIWADA	184.1	162.82		0.024	24-06-2015	6		10	45	
	PANAM	127.41	123.30		0.314	24-06-2015	45	53	38		2
	SARDAR SAROVAR	121.92	117.47			25-06-2015	55		21	2120	1450
	KARJAN	115.25	96.68			19-06-2015	23		36		3
-				= -							-

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNMENT OF INDIA			WEEK ENDING :- 25.06.201				CENTRAL WATER COMMISSION					
				23.00.2013	STORAGE A	BENEFITS							
S. NO	NAME OF RESERVOIR	FRL (m)	CURRENT RESERVOIR LEVEL (m)	LIVE 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	ЗА	3B		
	MAHARASHTRA												
32	JAYAKWADI(PAITHON)	463.91	455.84	2.171	0.048	25-06-2015	2	4	15	227	-		
*33	KOYANA	657.90	638.03	2.652	0.846	24-06-2015	32	5	28	-	1920		
34	BHIMA(UJJANI)	496.83	489.17	1.517	0.000	24-06-2015	0	0	6	125	12		
35	ISAPUR	441.00	430.12	0.965	0.194	18-06-2015	20	49	23	104			
36	MULA	552.30	534.58	0.609	0.011	24-06-2015	2	3	5	139			
37	YELDARI	461.77	448.21	0.809	0.013	24-06-2015	2	44	11	78			
38	GIRNA	398.07	384.33	0.524	0.047	24-06-2015	9	8	9	79			
39	KHADAKVASLA	582.47	579.24	0.056	0.017	24-06-2015	30	38	21	78	8		
*40	UPPER VAITARNA	603.50	593.86	0.331	0.072	24-06-2015	22	25	27	-	61		
41	UPPER TAPI	214.00	209.71	0.255	0.052	24-06-2015	20	30	19	45	-		
*42	PENCH (TOTALADOH)	490.00	471.10	1.091	0.120	24-06-2015	11	44	17	127	160		
43	UPPER WARDHA	342.50	338.97	0.564	0.292	25-06-2015	52	36	31	70			
44	BHATSA	142.07	108.20	0.942	0.267	24-06-2015	28	30	29	29.378	15		
45	DHOM	747.70	733.20	0.331	0.124	24-06-2015	37	11	22	36.2	2		
46	DUDHGANGA	646.00	628.50	0.664	0.210	24-06-2015	32	17	22	2.441	24		
47	MANIKDOH (KUKADI)	711.25	684.30	0.288	0.025	24-06-2015	9	4	3	2.2	6		
48	BHANDARDARA	342.50	338.97	0.304	0.292	25-06-2015	52	36	31	70	-		
	CENTRAL REGION	=											
	UTTAR PRADESH												
	MATATILA	308.46	305.81	0.707	0.370	24-06-2015	52	10		-	30		
*50	RIHAND	268.22	255.21	5.649	0.616	24-06-2015	11	16	7	-	300		
	UTTRAKHAND												
	RAMGANGA	365.30	350.98	2.196	1.231	25-06-2015	56	53		1897	198		
*52	TEHRI	830.00	743.25	2.615	0.051	25-06-2015	2	6	8	2351	1000		
	MADHYA PRADESH												
	GANDHI SAGAR	399.90	391.79	6.827	2.595		38	58	16		115		
	TAWA	355.40	344.64	1.944		25-06-2015	32			247			
	BARGI	422.76	409.85		0.658	25-06-2015	21	14			90		
	BANSAGAR	341.64	335.77		2.768	24-06-2015	54	55			425		
	INDIRA SAGAR	262.13	248.04	9.745	1.393	25-06-2015	14				1000		
58	BARNA CHHATTIS GARH	348.55	341.88	0.456	0.102	24-06-2015	22	33	16	546	•		
*50	·	350.66	3EE 03	2.046	2 127	22.06.2045	70	75	42		100		
	MINIMATA BANGOI	359.66	355.03		2.137		70				120		
	MAHANADI SOUTHERN REGION	348.70	339.66	0.767	0.137	24-06-2015	18	27	35	319	10		
		-											
*04	A.P & TG	000 75	044.40	0.000	0.000	24.00.001=	_	•	4.0	_			
	SRISAILAM	269.75	244.43			24-06-2015	0	0			770		
62	NAGARJUNA SAGAR	179.83	156.45	6.841	0.161	24-06-2015	2	5	28	895	810		
00	ANDHRA PRADESH	400.50	00.00	4.001	0.000	04.00.004=		00	0-	400	-		
63	SOMASILA TELANGANA	100.58	83.86	1.994	0.288	24-06-2015	14	30	25	168	(
61		222 54	200.25	0.000	0.347	25.06.2015	4.4	20	7	111	0-		
	SRIRAMSAGAR	332.54	322.35		0.317	25-06-2015	14				27 60		
65	LOWER MANAIR	280.42	269.63	0.621	0.120	25-06-2015	19	44	23	199	(

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

				WEE	K ENDING :-	25.06.2015					
			CHDDENT	LIVE			STORAGE A	S % OF LIVE C FRL	APACITY AT	BENEFITS	
S. NO	NAME OF RESERVOIR	AME OF RESERVOIR FRL (m) CURRENT LIVE CAPACITY AT LEVEL (m) CURRENT LIVE STORAGE (BCM) DATE	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	ЗА	3B
	KARNATAKA									•	
66	KRISHNARAJA SAGRA	752.50	741.59	1.163	0.310	24-06-2015	27	15	13	79	-
*67	TUNGABHADRA	497.74	484.89	3.276	2.973	25-06-2015	91	8	9	529	72
68	GHATAPRABHA	662.95	634.32	1.391	0.078	23-06-2015	6	1	6	317	-
69	BHADRA	657.76	644.47	1.785	0.572	23-06-2015	32	26	26	106	39
70	LINGANAMAKKI	554.43	538.09	4.294	0.956	25-06-2015	22	13	16	-	55
71	NARAYANPUR	492.25	487.46	0.863	0.242	24-06-2015	28	33	47	425	-
72	MALAPRABHA(RENUKA)	633.83	621.79	0.972	0.065	24-06-2015	7	3	6	215	-
73	KABINI	696.16	693.12	0.444	0.280	24-06-2015	63	56	16	85	-
74	HEMAVATHY	890.63	880.87	0.927	0.360	24-06-2015	39	20	13	265	-
75	HARANGI	871.42	859.97	0.220	0.067	24-06-2015	30	30	26	53	-
76	SUPA	564.00	535.32	4.120	1.433	25-06-2015	35	22	19	-	-
77	VANIVILAS SAGAR	652.28	634.34	0.802	0.046	25-06-2015	6	4	13	123	-
*78	ALMATTI	519.60	509.10	3.105	0.384	24-06-2015	12	6	15	@	290
*79	GERUSOPPA	55.00	48.98	0.130	0.097	24-06-2015	75	74	78	83	240
	KERALA										
80	KALLADA(PARAPPAR)	115.82	92.40	0.507	0.100	24-06-2015	20	20	28	62	-
*81	IDAMALAYAR	169.00	135.69	1.018	0.230	24-06-2015	23	19	18	33	75
*82	IDUKKI	732.43	712.20	1.460	0.510	24-06-2015	35	19	19	-	780
*83	KAKKI	981.46	947.65	0.447	0.098	25-06-2015	22	14	23	23	300
*84	PERIYAR	867.41	862.39	0.173	0.079	24-06-2015	46	26	38	84	140
85	MALAPMUZHA	867.41	862.39	0.224	0.079	24-06-2015	46	26	38	84	140
	TAMIL NADU										
86	LOWER BHAWANI	278.89	271.16	0.792	0.368	24-06-2015	46	15	41	105	8
*87	METTUR(STANLEY)	240.79	226.93	2.647	1.039	24-06-2015	39	15	41	122	360
88	VAIGAI	279.20	271.09	0.172	0.038	24-06-2015	22	5	17	61	6
89	PARAMBIKULAM	556.26	538.96	0.380	0.063	24-06-2015	17	14	31	101	-
90	ALIYAR	320.04	315.77	0.095	0.068	24-06-2015	72	18	36	#	60
*91	SHOLAYAR	1002.79	981.79	0.143	0.055	24-06-2015	38	24	28	-	95
	TOTAL FOR 91 RESERVOIRS			157.799	43.471						

Sd/-

19

\$ TOTAL CCA 342 TH. HA OF DVC SYSTEM

PERCENTAGE

Director W. M. , CWC

^{*} HYDEL POWER CAPACITY HAVING CAPACITY MORE THAN 60MW

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

 $^{@^{\}scriptscriptstyle |}$ TOTAL CCA 425 TH. HA. OF NARAYANPUR AND ALMATTI

 $[\]dagger$ 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

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
 25.06.2015 is 43.226 BCM (27 percent of the storage capacity at FRL). The current year's storage is nearly 111 percent of last year's storage and 146 percent of the average of last ten years.

3 Region wise storage status:-

Region wise storage status:		Fillina	positio	n of 91	reserv	oirs w	.r.t. FR	L		
REGION (States), (Monitoring No. of Reservoirs)	100%	91%- 99%	81%- 90%	71%- 80%	61%- 70%	51%- 60%		40% & below	Departure from Norn storage	
NORTH (HP,Punjab & Rajasthan), (6 Resv.)	1	1	1	-	1	-	1	4	H.P. PUNJAB RAJASTHAN	62 % 78 % -21 %
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	ı	1	1	-	1	1	3	11	JHARKHAND ODISHA W. BENGAL TRIPURA	-15 % 158 % -6 % 3 %
WEST (Guj.& Mah.), (27 Resv.)	1	1	-	-	-	4	1	22	GUJARAT MAH.	17 % -7 %
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	1	3	-	8	U.P. UTTARAKHAND M.P. CHHATISGARH	72 % 104 % 169 % 45 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	1	-	2	1	-	3	24	AP&TG A,P TG KARNATAKA KERALA T.N.	-95 % -41 % 38 % 103 % 31 % 0 %
Status of 91 reservoirs	0	1	1	2	2	8	8	69		- / -

4 Basin wise storage position:

Better than normal: Ganga,Indus,Narmada,Mahi,,Rivers of Kutch,Godavari, Cauvery & neighbouring EFRS,Mahanadi &

Neighbouring EFRS, and West Flowing rivers of south.

Close to normal: Tapi and Krishna.

Deficient: Sabarmati

Highly deficient: NIL

5 Out of 91 reservoirs, 71 reservoirs reported more than 80% of normal storage & 20 reservoirs reported 80% or below of normal storage. Out of these 20 reservoirs 10 having storage upto 50% of normal

storage.

Name of reservoir	%	Name of reservoir	%	Name of reservoir	%
SRISAILAM	0				
BHIMA(UJJANI)	0				
NAGARJUNA SAGAR	8				
JAYAKWADI(PAITHON)	15				
YELDARI	15				
TEHRI	25				
MULA	35				
MAITHON	37				
RANA PRATAP SAGAR	41				
VANIVILAS SAGAR	44				

10	10 reservors							
having	having storage 51%							
to 80%	to 80% of normal							
storag	storage.							
51%	61%	71%						
to	to	to						
60%	70%	80%						
5	4	1						

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

11 reservoirs.