BRIEF NOTE ON STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR BULLETIN OF 02.07.2015)

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 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 **02.07.2015**, live storage available in these reservoirs was **48.507 BCM** which is **31%** of total live storage capacity of these reservoirs. This storage is **129%** of the storage of corresponding period of last year and **145%** 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 **7.92** BCM which is **44%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **41%** and average storage of last ten years during corresponding period was **31%** 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 **5.58** BCM which is **30%** 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 **17%** 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 **7.07** BCM which is **26%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **22%** 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 better 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 12.85 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 15% 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 **15.09** BCM which is **29%** 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 **23%** 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, Tapi, Mahi, Sabarmati, Rivers of Kutch, Godavari, Krishna, Cauvery& neighbouring EFRs, Mahanadi & neighbouring East Flowing Rivers, and West Flowing Rivers of South.
- 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 58 and reservoirs having storage more than average of last ten years are 64. 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 10 and having storage less than 50% with reference to average of last ten years are 8.

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

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, West Bengal, Madhya Pradesh, Chhattisgarh, 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
 02.07.2015 is 48.507 BCM (31 percent of the live storage capacity at FRL). The current year's storage is nearly percent of last year's storage and 145 percent of the average of last ten years.

3 Region wise storage status:-

DEGION (Otataa)	Filling position of 91 reservoirs w.r.t. FRL											
REGION (States), (Monitoring No. of Reservoirs)	100%	91%- 99%	81%- 90%	71%- 80%	61%- 70%	51%- 60%	41%- 50%	40% & below	-	rom Normal rage		
NORTH (HP,Punjab & Rajasthan), (6 Resv.)	-	-	1	-	-	-	1	4	H.P. PUNJAB RAJASTHAN	48 % 75 % -11 %		
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	-	-	-	1	-	1	2	11	JHARKHAND ODISHA W. BENGAL TRIPURA	-3 % 110 % 8 % 19 %		
WEST (Guj.& Mah.), (27 Resv.)	-	1	-	-	-	4	4	18	GUJARAT MAH.	28 % -2 %		
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	2	2	-	8	U.P. UTTARAKHAND M.P. CHHATISGARH	34 % 120 % 141 % 40 %		
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	1	1	1	-	6	1	5	16	AP&TG A,P TG KARNATAKA KERALA T.N.	-96 % -46 % 40 % 107 % 53 % 22 %		
Status of 91 reservoirs	1	2	2	1	8	8	12	57				

4 Basin wise storage position:

Better than normal: Ganga, Indus, Narmada, Tapi, Mahi, Sabarmati, Rivers of Kutch, Godavari, Krishna, Cauvery &

neighbouring EFRS, Mahanadi & Neighbouring EFRS, and West Flowing rivers of south.

Close to normal: NIL
Deficient: NIL
Highly deficient: NIL

5 Out of 91 reservoirs, 74 reservoirs reported more than 80% of normal storage & 17 reservoirs reported 80% or below of normal storage. Out of these 17 reservoirs 8 having storage upto 50% of normal

storage.

Name of reservoir	%	Name of reservoir	%	Name of reservoir	%
SRISAILAM	0				
BHIMA(UJJANI)	0				
NAGARJUNA SAGAR	7				
JAYAKWADI(PAITHON)	10				
YELDARI	15				
VANIVILAS SAGAR	44				
RANA PRATAP SAGAR	48				
MAHANADI	50				

9 reservors									
having storage 51%									
to 80% of normal									
storage.									
51%	61%	71%							
to	to	to							
60%	70%	80%							
2	4	3							

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

reservoirs.

WEEKLY REPORT - BASINWISE

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING .	- 02 07 2015

NAME OF BASIN	LIVE CAP. AT FRL	CAP. AT FRL THIS YEAR'S LAST YEAR'S LAST 10 YEARS' AVG. STORAGE		% DEPARTURE W.R.T. AVE. OF 10 YEARS'				
GANGA	28.096	9.273	33.00%	11.129	39.61%	5.092	18.12%	82.11
INDUS	14.730	7.021	47.66%	5.963	40.48%	4.545	30.86%	54.48
NARMADA	17.414	3.563	20.46%	2.210	12.69%	1.968	11.30%	81.05
TAPI	7.394	1.568	21.21%	1.722	23.29%	1.477	19.98%	6.16
MAHI	4.012	1.755	43.74%	2.017	50.27%	1.329	33.13%	32.05
SABARMATI	0.735	0.172	23.40%	0.097	13.20%	0.128	17.41%	34.38
RIVERS OF KUTCH	0.887	0.321	36.19%	0.091	10.26%	0.098	11.05%	227.55
GODAVARI	15.394	3.887	25.25%	4.324	28.09%	2.339	15.19%	66.18
KRISHNA	32.831	7.944	24.20%	1.968	5.99%	7.400	22.54%	7.35
MAHANADI & NEIGHBOURING EFRS	13.181	4.128	31.32%	3.730	28.30%	2.878	21.83%	43.43
CAUVERY& NEIGHBOURING EFRS	8.359	3.869	46.29%	1.765	21.11%	2.583	30.90%	49.79
WEST FLOWING RIVERS OF SOUTH	14.766	5.006	33.90%	2.608	17.66%	3.619	24.51%	38.33
TOTAL	157.799	48.507		37.624		33.456		
PERCENTAGE								44.99

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

				WEE	K ENDING :-	02.07.2015					
			CURRENT	1075			STORAGE A	S % OF LIVE C FRL	CAPACITY AT	BENE	FITS
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			I.					I.	ı	
	HIMACHAL PRADESH	1									
*1	GOBIND SAGAR(BHAKRA)	512.06	488.27	6.229	2.723	01-07-2015	44	43	33	676	1200
*2	PONG DAM PUNJAB	423.67	406.12	6.157	2.339	02-07-2015	38	25	23	-	360
*3	THEIN	527.91	522.85	2.344	1.959	02-07-2015	84	75	48	348	600
	RAJASTHAN										
*4	MAHI BAJAJ SAGAR	280.75	269.65	1.711	0.567	01-07-2015	33	39	20	63	140
5	JHAKAM	359.50	343.20	0.132	0.024	01-07-2015	18	34	17	28	-
*6	RANA PRATAP SAGAR	352.81	346.09	1.436	0.308	02-07-2015	21	52	44	229	172
	EASTERN REGION										
	<u>JHARKHAND</u>	•									
7	TENUGHAT	269.14	256.06	0.821	0.283	02-07-2015	34	51	34	-	-
8	MAITHON	146.3	139.05	0.471	0.127	02-07-2015	27	38	38	342	-
*9	PANCHET HILL	124.97	123.96	0.184	0.137	02-07-2015	74	63	51	\$	80
10	KONAR	425.81	416.17	0.176	0.039	02-07-2015	22	54	34	\$	-
11	TILAIYA	368.81	365.93	0.142	0.051	02-07-2015	36	38	27	\$	4
	<u>ODISHA</u>										
*12	HIRAKUD	192.02	183.56	5.378	0.899	02-07-2015	17	12	13	153	307
*13	BALIMELA	462.08	453.45	2.676	1.362	01-07-2015	51	43	9	-	360
14	SALANADI	82.30	70.15	0.558	0.221	02-07-2015	40	76	27	42	-
*15	RENGALI	123.50	113.85	3.432	0.728	01-07-2015	21	5	11	3	200
*16	MACHKUND(JALPUT)	838.16	831.25	0.893	0.407	01-07-2015	46	35	32	-	115
*17	UPPER KOLAB	858.00	851.74	0.935	0.406	01-07-2015	43	18	15	89	320
*18	UPPER INDRAVATI	642.00	631.65	1.456	0.470	02-07-2015	32	14	15	128	600
	WEST BENGAL										
19	MAYURAKSHI	121.31	113.26	0.480	0.154	02-07-2015	32	36	26	227	-
20	KANGSABATI	134.14	123.15	0.914	0.197	02-07-2015	22	38	22	341	-
	TRIPURA										
	GUMTI	93.55	88.35	0.312	0.102	30-06-2015	33	24	28	-	15
	WESTERN REGION	·									
	<u>GUJARAT</u>										
*22	UKAI	105.16	92.06	6.615	1.467	02-07-2015	22	24	21	348	300
23	SABARMATI(DHAROI)	189.59	181.99	0.735	0.172	01-07-2015	23	13	17	95	1
*24	KADANA	127.7	123.72	1.472	0.813	01-07-2015	55	64	45	200	120
	SHETRUNJI	55.53	55.25			01-07-2015	92	14			-
	BHADAR	107.89	101.07			01-07-2015	9	20			-
	DAMANAGANGA	79.86	70.40			02-07-2015	27	9	15		1
	DANTIWADA	184.1	166.33			01-07-2015	7	3			-
	PANAM	127.41	124.05			01-07-2015	50	52			2
	SARDAR SAROVAR	121.92	116.37			02-07-2015	45	31	26		1450
31	KARJAN	115.25	99.92	0.523	0.170	02-07-2015	33	35	39	51	3

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNMENT OF INDIA			\//EE	K ENDING :-	02.07.2015		CENTRAL V	WATER COM	MISSIO	N
			OUDDENT		K LINDING	02.07.2013	STORAGE A	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	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	455.75	2.171	0.034	02-07-2015	2	4	16	227	
*33	KOYANA	657.90	642.67	2.652	1.158	01-07-2015	44	4	34	-	1920
34	BHIMA(UJJANI)	496.83	489.93	1.517	0.000	01-07-2015	0	0	7	125	12
35	ISAPUR	441.00	430.48	0.965	0.211	01-07-2015	22	45	23	104	
36	MULA	552.30	535.37	0.609	0.031	01-07-2015	5	3	8	139	
37	YELDARI	461.77	448.20	0.809	0.013	01-07-2015	2	40	10	78	
38	GIRNA	398.07	384.32	0.524	0.047	01-07-2015	9	8	11	79	
39	KHADAKVASLA	582.47	580.64	0.056	0.032	01-07-2015	57	41	39	78	8
*40	UPPER VAITARNA	603.50	594.91	0.331	0.089	01-07-2015	27	24	32	-	61
41	UPPER TAPI	214.00	209.75	0.255	0.054	01-07-2015	21	25	25	45	
*42	PENCH (TOTALADOH)	490.00	472.05	1.091	0.142	01-07-2015	13	41	19	127	160
43	UPPER WARDHA	342.50	339.01	0.564	0.294	02-07-2015	52	36	33	70	
44	BHATSA	142.07	112.73	0.942	0.331	01-07-2015	35	28	34	29.378	15
45	DHOM	747.70	734.72	0.331	0.144	01-07-2015	44	11	27	36.2	2
46	DUDHGANGA	646.00	630.87	0.664	0.256	01-07-2015	39	16	28	2.441	24
47	MANIKDOH (KUKADI)	711.25	685.00	0.288	0.027	01-07-2015	9	4	5	2.2	6
48	BHANDARDARA	342.50	339.01	0.304	0.294	02-07-2015	52	36	33	70	
	CENTRAL REGION	-									
	UTTAR PRADESH										
	MATATILA	308.46	305.84	0.707	0.373	01-07-2015	53	9	35	-	30
*50	RIHAND	268.22	255.03	5.649	0.564	02-07-2015	10	14	8	-	300
	UTTRAKHAND										
	RAMGANGA	365.30	353.45	2.196	1.368	02-07-2015	62	51	20	1897	198
*52	TEHRI	830.00	751.15	2.615	0.207	02-07-2015	8	7	11	2351	1000
	MADHYA PRADESH										
	GANDHI SAGAR	399.90	391.79	6.827	2.595		38	58	16		115
	TAWA	355.40	344.73		0.624		32				
	BARGI	422.76	409.90		0.664	02-07-2015	21	13			90
	BANSAGAR	341.64	335.77		2.768	24-06-2015	54	55			425
	INDIRA SAGAR	262.13	247.78	9.745	1.303	02-07-2015	13			2380	1000
58	BARNA	348.55	341.88	0.456	0.102	24-06-2015	22	33	16	546	
*50	CHHATTIS GARH	350.66	3EE 00	2.046	2.422	04 07 2045	70	75	44		100
	MINIMATA BANGOI MAHANADI	359.66 348.70	355.00 339.88	3.046 0.767	2.132	01-07-2015 01-07-2015	70 19	75 26			120
	SOUTHERN REGION	346.70	339.00	0.767	0.146	01-07-2015	19	20	30	319	10
		-									
	A.P & TG	000 75	044.50	0.000	0.000	00 07 001-	_	•	4.0	_	
	SRISAILAM	269.75	244.53		0.000	02-07-2015	0	0			770
62	NAGARJUNA SAGAR	179.83	156.24	6.841	0.126	02-07-2015	2	4	28	895	810
60	ANDHRA PRADESH	100 50	00.70	4.004	0.004	02.07.0045		07	00	400	,
63	SOMASILA TELANGANA	100.58	83.79	1.994	0.284	02-07-2015	14	27	26	168	C
61	SRIRAMSAGAR	332.54	322.42	2.300	0.204	02-07 2045	14	30	7	411	27
	LOWER MANAIR	280.42	322.42 269.60		0.321 0.120	02-07-2015 02-07-2015	19				27 60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

				WEE	K ENDING :-	02.07.2015					
			CHDDENT	LIVE			STORAGE A	S % OF LIVE C FRL	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	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	747.14	1.163	0.697	01-07-2015	60	17	20	79	-
*67	TUNGABHADRA	497.74	489.48	3.276	3.276	02-07-2015	100	12	15	529	72
68	GHATAPRABHA	662.95	641.77	1.391	0.271	01-07-2015	19	1	15	317	-
69	BHADRA	657.76	647.52	1.785	0.788	01-07-2015	44	28	32	106	39
70	LINGANAMAKKI	554.43	539.59	4.294	1.133	02-07-2015	26	11	21	-	55
71	NARAYANPUR	492.25	488.08	0.863	0.294	02-07-2015	34	33	46	425	-
72	MALAPRABHA(RENUKA)	633.83	624.64	0.972	0.175	01-07-2015	18	3	10	215	-
73	KABINI	696.16	695.92	0.444	0.429	01-07-2015	97	48	26	85	-
74	HEMAVATHY	890.63	885.32	0.927	0.607	01-07-2015	65	20	21	265	-
75	HARANGI	871.42	864.96	0.220	0.099	01-07-2015	45	34	43	53	-
76	SUPA	564.00	536.20	4.120	1.493	02-07-2015	36	19	22	-	-
77	VANIVILAS SAGAR	652.28	634.29	0.802	0.045	02-07-2015	6	3	13	123	-
*78	ALMATTI	519.60	514.65	3.105	1.352	02-07-2015	44	6	24	@	290
*79	GERUSOPPA	55.00	47.70	0.130	0.090	02-07-2015	69	79	83	83	240
	KERALA										
80	KALLADA(PARAPPAR)	115.82	94.88	0.507	0.127	01-07-2015	25	23	31	62	-
*81	IDAMALAYAR	169.00	141.68	1.018	0.342	01-07-2015	34	19	22	33	75
*82	IDUKKI	732.43	715.67	1.460	0.645	01-07-2015	44	18	21	-	780
*83	KAKKI	981.46	955.67	0.447	0.148	01-07-2015	33	15	27	23	300
*84	PERIYAR	867.41	864.34	0.173	0.116	01-07-2015	67	24	40	84	140
85	MALAPMUZHA	867.41	864.34	0.224	0.116	01-07-2015	67	24	40	84	140
	TAMIL NADU										
86	LOWER BHAWANI	278.89	274.09	0.792	0.511	01-07-2015	65	14	44	105	8
*87	METTUR(STANLEY)	240.79	228.68	2.647	1.195	01-07-2015	45	16	40	122	360
88	VAIGAI	279.20	271.95	0.172	0.047	01-07-2015	27	5	17	61	6
89	PARAMBIKULAM	556.26	540.27	0.380	0.083	01-07-2015	22	17	36	101	-
90	ALIYAR	320.04	317.25	0.095	0.078	01-07-2015	82	20	36	#	60
*91	SHOLAYAR	1002.79	993.28	0.143	0.098	01-07-2015	69	20	37	-	95
	TOTAL FOR 91 RESERVOIRS			157.799	48.746						

Sd/-

21

31

 $\$ TOTAL CCA 342 TH. HA OF DVC SYSTEM

PERCENTAGE

Director W. M. , CWC

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

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

^{@&#}x27;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