BRIEF NOTE ON STORAGE STATUS OF 91 IMPORTANT RESERVOIRS IN THE COUNTRY(WITH REFERENCE TO RESERVOIR BULLETIN OF 07.05.2015)

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 07.05.2015, live storage available in these reservoirs was 46.874 BCM which is 30% of total live storage capacity of these reservoirs. This storage is 93% of the storage of corresponding period of last year and 124% 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 **7.39** BCM which is **41%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **39%** 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 **7.46** BCM which is **40%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **44%** and average storage of last ten years during corresponding period was **25%** 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 **8.42** BCM which is **31%** 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 **33%** 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 **15.47** BCM which is **37%** 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 **20%** 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 **8.13** BCM which is **16%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **15%** 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 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 storagemore than last year are 40 and reservoirs having storage more than average of last ten years are 48. 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 3. The numbers of reservoirs having storage less than 50% with respect to last year are 13 and having storage less than 50% with reference to average of last ten years are 10.

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
 07.05.2015 is 46.874 BCM (30 percent of the storage capacity at FRL). The current year's storage is nearly percent of last year's storage and 124 percent of the average of last ten years.

3 Region wise storage status:-

DE01011 (01.1)		Filling	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%	41%- 50%	40% & below	Departure fr stor		
NORTH (HP,Punjab & Rajasthan), (6 Resv.)	-	-	1	-	-	-	-	5	H.P. PUNJAB RAJASTHAN	42 % 89 % -15 %	
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	-	-	-	-	1	2	3	9	JHARKHAND ODISHA W. BENGAL TRIPURA	12 % 70 % 48 % -57 %	
WEST (Guj.& Mah.), (27 Resv.)	-	-	1	2	3	-	2	19	GUJARAT MAH.	5 % -17 %	
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	1	1	2	-	-	8	U.P. UTTARAKHAND M.P. CHHATISGARH	46 % 111 % 104 % 40 %	
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	2	-	-	-	2	27	AP&TG A,P TG KARNATAKA KERALA T.N.	-94 % -57 % 36 % 17 % 40 % -27 %	
Status of 91 reservoirs	0	0	5	3	6	2	7	68		=: / \$	

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, **61** reservoirs reported more than 80% of normal storage & **30** reservoirs reported 80% or below of normal storage.

Out of these 30	reservoirs	10 havir	ng storage	upto 50% of normal stor	rage
Name of reservoir	%	Name of reservoi	r %	Name of reservoir	%
SRISAILAM	0				
BHIMA(UJJANI)	0				
NAGARJUNA SAGAR	12				
VANIVILAS SAGAR	32				
JAYAKWADI(PAITHON)	33				
MAHANADI	40				
SHOLAYAR	43				
SOMASILA	43				
GUMTI	43				
VAIGAI	43				

20 reservors									
having storage 51%									
to 80% of normal									
storage.									
51%	51% 61%								
to	to	to							
60%	70%	80%							
6	6	8							

14 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

GOVERNMENT OF INDIA					CENTRAL WATER COMMISSION					
	WEEK EN	NDING :-	07.05.201	5						
NAME OF BASIN	LIVE CAP. AT FRL	THIS Y STOF	EAR'S RAGE	LAST Y STOR		LAST 10 AVG. ST	YEARS' ORAGE	% DEPARTURE W.R.T. AVE. OF 10 YEARS'		
GANGA	28.096	10.507	37.40%	13.587	48.36%	5.734	20.41%	83.24		
INDUS	14.730	6.521	44.27%	5.597	38.00%	4.252	28.87%	53.36		
NARMADA	17.414	5.342	30.68%	3.855	22.14%	3.172	18.22%	68.41		
TAPI	7.394	1.934	26.16%	3.060	41.38%	2.338	31.62%	-17.28		
MAHI	4.012	1.764	43.97%	2.309	57.55%	1.500	37.39%	17.60		
SABARMATI	0.735	0.103	14.01%	0.139	18.91%	0.161	21.90%	-36.02		
RIVERS OF KUTCH	0.887	0.096	10.82%	0.158	17.81%	0.077	8.68%	24.68		
GODAVARI	15.394	4.406	28.62%	6.350	41.25%	3.552	23.07%	24.04		
KRISHNA	32.831	3.411	10.39%	2.780	8.47%	6.462	19.68%	-47.21		
MAHANADI & NEIGHBOURING EFRS	13.181	6.100	46.28%	6.659	50.52%	4.071	30.89%	49.84		
CAUVERY& NEIGHBOURING EFRS	8.359	1.937	23.17%	1.786	21.37%	2.492	29.81%	-22.27		
WEST FLOWING RIVERS OF SOUTH	14.766	4.753	32.19%	4.351	29.47%	4.114	27.86%	15.53		
TOTAL	157.799	46.874		50.631		37.925				
PERCENTAGE		•						23.60		

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA CENTRAL WATER COMMISSION

GOVERNMENT OF INDIA

				WE	EK ENDING :-	07.05.2015					
			CURRENT	LNE			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
N	ORTHERN REGION										
	HIMACHAL PRADESH										
*1	GOBIND SAGAR(BHAKRA)	512.06	485.08	6.229	2.384	5/7/2015	38	33	23	676	1200
*2	PONG DAM PUNJAB	423.67	405.41	6.157	2.218	5/7/2015	36	30	30	-	360
*3	THEIN	527.91	522.40	2.344	1.919	5/6/2015	82	70	43	348	600
	<u>RAJASTHAN</u>										
*4	MAHI BAJAJ SAGAR	280.75	268.90	1.711	0.515	5/7/2015	30	42	24	63	140
5	JHAKAM	359.50	343.55	0.132	0.025	5/7/2015	19	36	17	28	-
	RANA PRATAP SAGAR	352.81	346.26	1.436	0.333	5/7/2015	23	40	42	229	172
	EASTERN REGION										
	<u>JHARKHAND</u>										
7	TENUGHAT	269.14	257.95	0.821	0.341	5/7/2015	42	49	30	-	-
8	MAITHON	146.3	137.91	0.471	0.094	5/7/2015	20	53	34	342	-
*9	PANCHET HILL	124.97	121.43	0.184	0.046	5/7/2015	25	82	33	\$	80
10	KONAR	425.81	420.93	0.176	0.096	5/7/2015	55	60	37	\$	-
11	TILAIYA	368.81	366.13	0.142	0.056	5/7/2015	39	38	22	\$	4
	<u>ODISHA</u>										
*12	HIRAKUD	192.02	185.17	5.378	1.405	5/7/2015	26	33	27	153	307
*13	BALIMELA	462.08	453.97	2.676	1.431	5/6/2015	53	56	21	-	360
14	SALANADI	82.30	69.90	0.558	0.215	5/7/2015	39	79	23	42	-
	RENGALI	123.50	119.30	3.432	2.079	5/6/2015	61	50	23	3	200
	MACHKUND(JALPUT)	838.16	828.69	0.893	0.285	5/6/2015	32	49	41	-	115
	UPPER KOLAB	858.00	852.43	0.935	0.459	5/6/2015	49	39	26	89	320
*18	UPPER INDRAVATI	642.00	634.23	1.456	0.683	5/6/2015	47	43	24	128	600
	WEST BENGAL										
	MAYURAKSHI	121.31	109.50	0.480	0.071	5/7/2015	15	25	18	227	-
20	KANGSABATI	134.14	123.00	0.914	0.191	5/7/2015	21	40	10	341	-
04	TRIPURA	00.55	04.40	0.040	0.040	E/0/004E			-		45
	GUMTI WESTERN REGION	93.55	84.40	0.312	0.010	5/6/2015	3	0	7	-	15
_	GUJARAT										
*22	UKAI	105.16	92.97	6.615	1.664	5/7/2015	25	42	33	348	300
	SABARMATI(DHAROI)	189.59	180.24	0.735	0.103	5/7/2015	14	19			
	KADANA	127.7	124.69	1.472		5/7/2015	61	77			
	SHETRUNJI	55.53	49.72		0.046	5/5/2015	15	21			
	BHADAR	107.89	102.26	0.188	0.031	5/5/2015	16	44			
	DAMANAGANGA	79.86	69.05	0.502		5/7/2015	21	25			
	DANTIWADA	184.1	162.61	0.399	0.019	5/7/2015	5				
	PANAM	127.41	123.60	0.697	0.328	5/7/2015	47	59			
	SARDAR SAROVAR	121.92		1.566	1.347		86	46			
	KARJAN	115.25	101.76			5/7/2015	38	53			
					-7-						

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNMENT OF INDIA		WEEK ENDING :-				IMMISSION				
			CURRENT	LIVE		07.05.2015	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	456.62	2.171	0.177	5/7/2015	8	11	24	227	-
*33	KOYANA	657.90	581.38	2.652	1.013	5/7/2015	38	15	37	-	1920
34	BHIMA(UJJANI)	496.83	490.59	1.517	0.000	5/7/2015	0	4	14	125	12
35	ISAPUR	441.00	430.33	0.965	0.203	5/7/2015	21	59	28	104	-
36	MULA	552.30	538.18	0.609	0.083	5/6/2015	14	29	23	139	-
37	YELDARI	461.77	450.67	0.809	0.082	5/7/2015	10	47	13	78	-
38	GIRNA	398.07	385.54	0.524	0.075	5/7/2015	14	15	19	79	-
39	KHADAKVASLA	582.47	581.38	0.056	0.041	5/7/2015	73	68	27	78	8
*40	UPPER VAITARNA	603.50	595.49	0.331	0.104	5/7/2015	31	54	40	-	61
41	UPPER TAPI	214.00	212.96	0.255	0.195	5/7/2015	76	68	32	45	-
*42	PENCH (TOTALADOH)	490.00	472.54	1.091	0.170	5/7/2015	16	51	23	127	160
43	UPPER WARDHA	342.50	337.19	0.564	0.189	5/7/2015	34	41	35	70	-
44	BHATSA	142.07	117.35	0.942	0.403	4/16/2015	43	49	45	29.378	15
	DHOM	747.70	742.53	0.331	0.222	1/31/2015	67	71	60	36.2	
	DUDHGANGA	646.00	638.02		0.429	2/28/2015	65	57	65	2.441	24
	MANIKDOH (KUKADI) BHANDARDARA	711.25 342.50	699.44 337.19	0.288 0.304	0.115 0.189	12/31/2014	40 34	66 41	49 35	2.2 70	
	CENTRAL REGION	342.30	337.19	0.304	0.109	5/7/2015	34	41	33	70	-
	UTTAR PRADESH	•									
49	MATATILA	308.46	308.15	0.707	0.609	5/6/2015	86	47	38	_	30
*50	RIHAND	268.22	256.25	5.649	0.918	5/7/2015	16	27	14	-	300
	<u>UTTRAKHAND</u>										
*51	RAMGANGA	365.30	353.57	2.196	1.375	5/7/2015	63	69	29	1897	198
*52	TEHRI	830.00	760.90	2.615	0.419	5/4/2015	16	12	8	2351	1000
	MADHYA PRADESH										
*53	GANDHI SAGAR	399.90	392.24	6.827	2.755	5/7/2015	40	65	19	220	115
54	TAWA	355.40	344.61	1.944	0.614	5/7/2015	32	18	21	247	-
*55	BARGI	422.76	412.10	3.180	0.934	5/7/2015	29	27	20	157	90
	BANSAGAR	341.64	336.96	5.166	3.193	5/7/2015	62	66	22	488	425
	INDIRA SAGAR	262.13	249.87	9.745	2.140	5/7/2015	22	15	12	2380	1000
58	BARNA	348.55	342.04	0.456	0.107	5/7/2015	23	37	16	546	-
	CHHATTIS GARH										
	MINIMATA BANGOI	359.66	355.92		2.273	5/5/2015	75	80	46	-	120
	MAHANADI SOUTHERN REGION	348.70	339.47	0.767	0.128	5/6/2015	17	40	41	319	10
_		•									
*04	A.P & TG	000 75	0.45.00	0.000	0.000	E 17/004 E			47	•	770
	SRISAILAM	269.75	245.20		0.000	5/7/2015	0	0	17	0	
62	NAGARJUNA SAGAR ANDHRA PRADESH	179.83	156.67	6.841	0.195	5/7/2015	3	5	25	895	810
63	SOMASILA	100.58	84.35	1.994	0.315	5/7/2015	16	46	37	168	0
03	TELANGANA	100.08	04.33	1.994	0.315	3/1/2013	10	40	37	108	U
64	SRIRAMSAGAR	332.54	322.54	2.300	0.331	5/7/2015	14	34	8	411	27
	LOWER MANAIR	280.42	270.11		0.134	5/7/2015	22		25	199	
- 55	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	250.72	270.11	0.021	0.104	5,172010		-71	20	100	- 00

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

				WEI	EK ENDING :-	07.05.2015						
				CUDDENT	L N/E			STORAGE AS	S % OF LIVE C FRL	APACITY AT	BENI	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	
	KARNATAKA											
66	KRISHNARAJA SAGRA	752.50	740.39	1.163	0.249	5/6/2015	21	20	17	79	-	
*67	TUNGABHADRA	497.74	479.72	3.276	0.077	5/7/2015	2	3	3	529	72	
68	GHATAPRABHA	662.95	637.37	1.391	0.143	5/7/2015	10	2	6	317	-	
69	BHADRA	657.76	645.47	1.785	0.638	5/7/2015	36	28	30	106	39	
70	LINGANAMAKKI	554.43	537.44	4.294	0.886	5/6/2015	21	19	23	-	55	
71	NARAYANPUR	492.25	486.75	0.863	0.190	5/7/2015	22	27	34	425	-	
72	MALAPRABHA(RENUKA)	633.83	622.34	0.972	0.083	5/7/2015	9	3	7	215	-	
73	KABINI	696.16	691.29	0.444	0.195	5/6/2015	44	35	4	85	-	
74	HEMAVATHY	890.63	874.09	0.927	0.126	5/6/2015	14	12	9	265	-	
75	HARANGI	871.42	853.71	0.220	0.024	5/6/2015	11	18	16	53	-	
76	SUPA	564.00	538.18	4.120	1.631	5/6/2015	40	39	27	-	-	
77	VANIVILAS SAGAR	652.28	633.65	0.802	0.035	5/7/2015	4	4	13	123	-	
*78	ALMATTI	519.60	507.71	3.105	0.230	5/7/2015	7	7	7	@	290	
*79	GERUSOPPA	55.00	51.32	0.130	0.109	5/7/2015	84	75	88	83	240	
	KERALA											
80	KALLADA(PARAPPAR)	115.82	98.78	0.507	0.176	5/6/2015	35	21	27	62	-	
*81	IDAMALAYAR	169.00	140.24	1.018	0.314	5/6/2015	31	28	24	33	75	
*82	IDUKKI	732.43	715.46	1.460	0.636	5/6/2015	44	31	25	-	780	
*83	KAKKI	981.46	955.92	0.447	0.150	5/6/2015	34	14	31	23	300	
*84	PERIYAR	867.41	860.50	0.173	0.047	5/6/2015	27	16	30	84	140	
85	MALAPMUZHA	867.41	860.50	0.224	0.047	5/6/2015	27	16	30	84	140	
	TAMIL NADU											
86	LOWER BHAWANI	278.89	264.34	0.792	0.148	5/6/2015	19	10	34	105	8	
*87	METTUR(STANLEY)	240.79	224.71	2.647	0.860	5/6/2015	32	9	42	122	360	
88	VAIGAI	279.20	268.69	0.172	0.020	5/6/2015	12	2	27	61	6	
89	PARAMBIKULAM	556.26	539.05	0.380	0.064	5/6/2015	17	17	32	101	-	
90	ALIYAR	320.04	317.14	0.095	0.077	5/6/2015	81	25	47	#	60	
*91	SHOLAYAR	1002.79	956.65	0.143	0.003	5/6/2015	2	1	5		95	
	TOTAL FOR 91 RESERVOIRS			157.799	46.884							
	PERCENTAGE						30	32	24			

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