BRIEF NOTE ON STORAGE STATUS OF 91 IMPORTANT RESERVOIRS IN THE COUNTRY(WITH REFERENCE TO RESERVOIR BULLETIN OF 16.04.2015)

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 16.04.2015, live storage available in these reservoirs was 50.792 BCM which is 32% of total live storage capacity of these reservoirs. This storage is 87% of the storage of corresponding period of last year and 113% 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 **6.49** BCM which is **36%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **37%** 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 less than the corresponding period of last year but is 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 **8.49** BCM which is **45%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **55%** 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 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 **9.71** BCM which is **36%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **46%** and average storage of last ten years during corresponding period was **40%** 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 **16.59** BCM which is **39%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **46%** and average storage of last ten years during corresponding period was **24%** 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 **9.52** BCM which is **18%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **19%** and average storage of last ten years during corresponding period was **24%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the corresponding period of last year and also 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, Godavari, Mahanadi & neighbouring East Flowing Rivers, and West Flowing Rivers of South. Close to Normal in Tapi, Rivers of Kutch 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 33 and reservoirs having storage more than average of last ten years are 45. 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 14 and having storage less than 50% with reference to average of last ten years are 13.

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

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

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
 16.04.2015 is 50.792 BCM (32 percent of the storage capacity at FRL). The current year's storage is nearly percent of last year's storage and 113 percent of the average of last ten years.

3 Region wise storage status:-

			Filling	positio	n of 91	reserv	oirs w	r.t. FR	L			
REGION (S (Monitoring No. of Reservoirs)	tates),	100%	91%- 99%	81%- 90%	71%- 80%	61%- 70%	51%- 60%	41%- 50%	40% & below	Departure fi stor		
NORTH (HP, & Rajasthan), Resv.)	Punjab (6	-	-	-	-	1	-	-	5	H.P. PUNJAB RAJASTHAN	17 % 70 % -12 %	
EAST (Jharkhand,Odisha, Tri W.Bengal (15 Resv.)	pura &	-	-	-	-	2	3	3	7	JHARKHAND ODISHA W. BENGAL TRIPURA	2 % 41 % 20 % -100 %	
WEST (Guj.& Mah.), Resv.)	(27	-	-	2	1	3	1	4	16	GUJARAT MAH.	-5 % -15 %	
CENTRAL (MP,UP,Uttarakhand & (12 Resv)	Chh.),	-	-	-	1	2	-	1	8	U.P. UTTARAKHAND M.P. CHHATISGARH	13 % 59 % 86 % 41 %	
SOUTH (Karnataka,TN,AP&TG TG, & Kerala), (31 Resv.)	,AP,	-	1	-	1	-	1	6	22	AP&TG A,P TG KARNATAKA KERALA T.N.	-92 % -62 % 29 % 15 % 28 % -25 %	
Status of 91 reservoirs		0	1	2	3	8	5	14	58		20 /0	

4 Basin wise storage position:

Better than normal: Ganga,Indus,Narmada,Mahi,Godavari,Mahanadi & Neighbouring EFRS, and West Flowing rivers of

south.

Close to normal: Tapi,Rivers of Kutch and Cauvery & neighbouring EFRS.

Deficient: Sabarmati and Krishna.

Highly deficient: NIL

5 Out of 91 reservoirs, **62** reservoirs reported more than 80% of normal storage & **29** reservoirs reported 80% or below of normal storage.

reservoirs	13 having	storage	upto 50% of normal stor	age
%	Name of reservoir	%	Name of reservoir	%
0	PARAMBIKULAM	49		
0	BHIMA(UJJANI)	50		
17	MULA	50		
29				
32				
34				
38				
38				
43				
46				
	% 0 0 17 29 32 34 38 38	Name of reservoir	% Name of reservoir % 0 PARAMBIKULAM 49 0 BHIMA(UJJANI) 50 17 MULA 50 29 32 34 38 38 38 43 43	% Name of reservoir % Name of reservoir 0 PARAMBIKULAM 49 0 BHIMA(UJJANI) 50 17 MULA 50 29 32 34 38 38 38 43 43

16 reservors									
having storage 51%									
to 80% of normal									
storage.									
51%	61%	71%							
to	to	to							
60%	70%	80%							
2	10	4							

13 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

PERCENTAGE

CENTRAL WATER COMMISSION

13.11

GOVERNIVIENT OF INDIA	CENTRAL WATER COMMISSION								
WEEK ENDING :- 16.04.2015									
NAME OF BASIN	LIVE CAP. AT FRL		/EAR'S RAGE	LAST Y STOR		LAST 10 AVG. ST		% DEPARTURE W.R.T. AVE. OF 10 YEARS'	
GANGA	28.096	10.884	38.74%	14.709	52.35%	6.734	23.97%	61.63	
INDUS	14.730	5.568	37.80%	5.280	35.85%	4.367	29.65%	27.50	
NARMADA	17.414	5.717	32.83%	5.080	29.17%	3.929	22.56%	45.51	
TAPI	7.394	2.452	33.16%	4.079	55.17%	2.962	40.06%	-17.22	
MAHI	4.012	1.815	45.24%	2.310	57.58%	1.636	40.78%	10.94	
SABARMATI	0.735	0.116	15.78%	0.151	20.54%	0.180	24.49%	-35.56	
RIVERS OF KUTCH	0.887	0.105	11.84%	0.207	23.34%	0.119	13.42%	-11.76	
GODAVARI	15.394	4.957	32.20%	7.375	47.91%	4.365	28.36%	13.56	
KRISHNA	32.831	4.484	13.66%	3.822	11.64%	7.568	23.05%	-40.75	
MAHANADI & NEIGHBOURING EFRS	13.181	6.980	52.96%	8.002	60.71%	5.302	40.22%	31.65	
CAUVERY& NEIGHBOURING EFRS	8.359	2.208	26.41%	2.186	26.15%	2.753	32.93%	-19.80	
WEST FLOWING RIVERS OF SOUTH	14.766	5.506	37.29%	5.514	37.34%	4.988	33.78%	10.38	
TOTAL	157.799	50.792		58.715		44.903			

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA CENTRAL WATER COMMISSION

GOVERNMENT OF INDIA

				WEI	EK ENDING :-	16.04.2015					
			CURRENT	LIVE			STORAGE A	S % OF LIVE C	CAPACITY AT	BENE	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	481.82	6.229	2.057	4/15/2015	33	34	25	676	1200
*2	PONG DAM PUNJAB	423.67	403.97	6.157	2.004	4/16/2015	33	28	31	-	360
*3	THEIN	527.91	516.36	2.344	1.507	4/16/2015	64	62	38	348	600
	<u>RAJASTHAN</u>										
*4	MAHI BAJAJ SAGAR	280.75	269.15	1.711	0.528	4/16/2015	31	44	27	63	140
5	JHAKAM	359.50	343.75	0.132	0.025	4/16/2015	19	36	17	28	-
	RANA PRATAP SAGAR	352.81	346.50	1.436	0.368	4/16/2015	26	39	39	229	172
	EASTERN REGION										
	<u>JHARKHAND</u>										
7	TENUGHAT	269.14	257.92	0.821	0.340	4/16/2015	41	51	33	-	-
8	MAITHON	146.3	139.36	0.471	0.137	4/16/2015	29	65	46	342	-
*9	PANCHET HILL	124.97	121.16	0.184	0.039	4/16/2015	21	100	46	\$	80
10	KONAR	425.81	421.98	0.176	0.112	4/16/2015	64	66	45	\$	-
11	TILAIYA	368.81	366.43	0.142	0.064	4/16/2015	45	41	23	\$	4
	ODISHA										
*12	HIRAKUD	192.02	186.37	5.378	1.843	4/16/2015	34	44	39	153	307
*13	BALIMELA	462.08	454.49	2.676	1.498	4/16/2015	56	61	28	-	360
	SALANADI	82.30	70.15	0.558	0.221	4/16/2015	40	81	24	42	-
	RENGALI	123.50	119.81	3.432	2.249	4/16/2015	66	66	35	3	200
	MACHKUND(JALPUT)	838.16	831.30	0.893	0.409	4/16/2015	46	57	46		115
	UPPER KOLAB	858.00	853.17	0.935	0.514	4/16/2015	55	48	32	89	320
*18	UPPER INDRAVATI	642.00	635.40	1.456	0.785	4/16/2015	54	56	33	128	600
	WEST BENGAL										
	MAYURAKSHI	121.31	109.44	0.480	0.070	4/16/2015	15	37	23	227	-
20	KANGSABATI	134.14	123.37	0.914	0.205	4/16/2015	22	55	13	341	-
	TRIPURA					444040045					
	GUMTI WESTERN REGION	93.55	82.00	0.312	0.000	4/16/2015	0	0	10	-	15
_	GUJARAT										
*22	UKAI	105.16	95.11	6.615	2.159	4/13/2015	33	57	41	348	300
	SABARMATI(DHAROI)	189.59	180.63	0.735	0.116	4/16/2015	16	21			1
	KADANA	127.7	125.02	1.472		4/16/2015	63	72			
	SHETRUNJI	55.53	49.82	0.300	0.048	4/16/2015	16	35			
	BHADAR	107.89	102.66	0.188	0.036	4/16/2015	19	47			
	DAMANAGANGA	79.86	71.05	0.502	0.155	4/11/2015	31	39			
	DANTIWADA	184.1	162.69	0.399	0.021	4/16/2015	5	4			
	PANAM	127.41	123.75	0.697	0.336	4/16/2015	48	63			
	SARDAR SAROVAR	121.92		1.566	1.112		71	39			
	KARJAN	115.25	103.76	0.523		4/16/2015	45	61	61		3
					-7-						

	GOVERNMENT OF INDIA				WEEK ENDING :- 16.04.2015			CENTRAL WATER COM			
			CUDDENT	LIN/E			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
	MAHARASHTRA										
32	JAYAKWADI(PAITHON)	463.91	456.89	2.171	0.223	4/16/2015	10	14	30	227	-
*33	KOYANA	657.90	646.74	2.652	1.471	4/9/2015	55	30	51	-	1920
34	BHIMA(UJJANI)	496.83	492.02	1.517	0.204	4/16/2015	13	21	27	125	12
35	ISAPUR	441.00	431.45	0.965	0.259	4/16/2015	27	66	33	104	-
36	MULA	552.30	539.06	0.609	0.103	4/16/2015	17	41	34	139	-
37	YELDARI	461.77	450.91	0.809	0.089	4/16/2015	11	60	19	78	-
38	GIRNA	398.07	385.82	0.524	0.082	4/16/2015	16	16	22	79	-
39	KHADAKVASLA	582.47	581.41	0.056	0.049	4/16/2015	88	75	30	78	8
*40	UPPER VAITARNA	603.50	596.83	0.331	0.137	4/16/2015	41	67	48	-	61
41	UPPER TAPI	214.00	213.23	0.255	0.211	4/16/2015	83	83	44	45	-
*42	PENCH (TOTALADOH)	490.00	473.17	1.091	0.189	4/16/2015	17	55	26	127	160
43	UPPER WARDHA	342.50	337.40	0.564	0.200	4/16/2015	35	42	37	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
	MANIKDOH (KUKADI)	711.25	699.44	0.288	0.115	12/31/2014	40	66	49	2.2	6
	BHANDARDARA CENTRAL REGION	342.50	337.40	0.304	0.200	4/16/2015	35	42	37	70	-
_	UTTAR PRADESH										
40	MATATILA	308.46	305.35	0.707	0.330	4/15/2015	47	45	40		30
	RIHAND	268.22	256.89	5.649	1.116	4/16/2015	20	31	18		300
00	UTTRAKHAND	200.22	200.00	0.040	1.110	4/10/2010	20	01	10		000
*51	RAMGANGA	365.30	353.87	2.196	1.392	4/16/2015	63	71	35	1897	198
	TEHRI	830.00	767.85	2.615	0.580	4/15/2015	22	23	18	2351	1000
-	MADHYA PRADESH	000.00	707.00	2.010	0.000	17 10/2010		20		2001	.000
*53	GANDHI SAGAR	399.90	392.24	6.827	2.755	4/16/2015	40	65	21	220	115
	TAWA	355.40	345.03	1.944	0.647	4/16/2015	33	29	22	247	_
*55	BARGI	422.76	413.65	3.180	1.144	4/16/2015	36	37	28	157	90
*56	BANSAGAR	341.64	337.47	5.166	3.376	4/16/2015	65	71	25	488	425
*57	INDIRA SAGAR	262.13	251.16	9.745	2.467	4/16/2015	25	23	16	2380	1000
58	BARNA	348.55	342.15	0.456	0.111	4/16/2015	24	38	17	546	-
	CHHATTIS GARH										
*59	MINIMATA BANGOI	359.66	356.70	3.046	2.396	4/16/2015	79	81	49	-	120
60	MAHANADI	348.70	342.21	0.767	0.271	4/15/2015	35	53	51	319	10
_ 8	OUTHERN REGION										
	A.P & TG										
*61	SRISAILAM	269.75	245.98	8.288	0.000	4/16/2015	0	0	20	0	770
*62	NAGARJUNA SAGAR	179.83	157.15	6.841	0.275	4/16/2015	4	6	24	895	810
	ANDHRA PRADESH										
63	SOMASILA	100.58	84.23	1.994	0.309	4/16/2015	15	49	41	168	0
	<u>TELANGANA</u>										
64	SRIRAMSAGAR	332.54	322.97	2.300	0.373	4/16/2015	16	40	9	411	27
65	LOWER MANAIR	280.42	270.21	0.621	0.136	4/16/2015	22	53	29	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNMENT OF INDIA			WEEK ENDING :- 16.04.2015			CENTRAL WATER COMMISSION				
			CURRENT	STO		STORAGE A	STORAGE AS % OF LIVE CAPACITY AT FRL			EFITS	
S. NO	NAME OF RESERVOIR	FRL (m)	CURRENT 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	ЗА	3B
	KARNATAKA										
66	KRISHNARAJA SAGRA	752.50	743.35	1.163	0.413	4/15/2015	36	33	22	79	-
*67	TUNGABHADRA	497.74	480.27	3.276	0.073	4/16/2015	2	2	3	529	72
68	GHATAPRABHA	662.95	640.15	1.391	0.219	4/16/2015	16	6	9	317	-
69	BHADRA	657.76	647.95	1.785	0.822	4/16/2015	46	38	40	106	39
70	LINGANAMAKKI	554.43	540.03	4.294	1.191	4/16/2015	28	26	30	-	55
71	NARAYANPUR	492.25	486.74	0.863	0.189	4/16/2015	22	27	35	425	-
72	MALAPRABHA(RENUKA)	633.83	623.12	0.972	0.111	4/16/2015	11	5	8	215	-
73	KABINI	696.16	692.16	0.444	0.234	4/15/2015	53	41	8	85	-
74	HEMAVATHY	890.63	874.08	0.927	0.125	4/15/2015	13	13	14	265	-
75	HARANGI	871.42	853.15	0.220	0.022	4/15/2015	10	17	16	53	-
76	SUPA	564.00	539.95	4.120	1.757	4/16/2015	43	48	31	-	-
77	VANIVILAS SAGAR	652.28	633.81	0.802	0.038	4/16/2015	5	5	15	123	-
*78	ALMATTI	519.60	508.07	3.105	0.267	4/16/2015	9	9	8	@	290
*79	GERUSOPPA	55.00	53.26	0.130	0.120	4/16/2015	92	84	87	83	240
	KERALA										
80	KALLADA(PARAPPAR)	115.82	102.98	0.507	0.233	4/13/2015	46	31	36	62	-
*81	IDAMALAYAR	169.00	145.41	1.018	0.416	4/13/2015	41	38	32	33	75
*82	IDUKKI	732.43	716.54	1.460	0.680	4/13/2015	47	40	32	-	780
*83	KAKKI	981.46	960.74	0.447	0.189	4/16/2015	42	27	40	23	300
*84	PERIYAR	867.41	859.46	0.173	0.031	4/15/2015	18	15	28	84	140
85	MALAPMUZHA	867.41	859.46	0.224	0.031	4/15/2015	18	15	28	84	140
	TAMIL NADU										
86	LOWER BHAWANI	278.89	264.16	0.792	0.137	4/15/2015	17	10	40	105	8
*87	METTUR(STANLEY)	240.79	225.84	2.647	0.949	4/15/2015	36	15	42	122	360
88	VAIGAI	279.20	268.56	0.172	0.019	4/15/2015	11	4	29	61	6
89	PARAMBIKULAM	556.26	539.45	0.380	0.070	4/15/2015	18	19	38	101	-
90	ALIYAR	320.04	316.72	0.095	0.074	4/15/2015	78	26	44	#	60
*91	SHOLAYAR	1002.79	955.94	0.143	0.002	4/15/2015	1	1	5	-	95
	TOTAL FOR 91 RESERVOIRS			157.799	50.796						
	PERCENTAGE						32	37	28		

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