BRIEF NOTE ON STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 10.03.2016)

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 these 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 storage bulletin dated 10.03.2016, live storage available in these reservoirs is 45.801 BCM, which is 29% of total live storage capacity of these reservoirs. This storage is 71% of the storage of corresponding period of last year and 74% of storage of average of last ten years.

As per Table-01, the overall storage position is **less than the** corresponding period of last year in the country as a whole and is also **less 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 under CWC monitoring having total live storage capacity of 18.01 BCM. As per Reservoir Storage Bulletin dated 10.03.2016, the total live storage available in these reservoirs is 4.89 BCM which is 27% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 32% and average storage of last ten years during corresponding period was 34% of live storage capacity of these reservoirs. Thus, storage during current year is less than the corresponding period of last year and is also less 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 reservoirsunder CWC monitoring having total live storage capacity of 18.83 BCM. As per Reservoir Storage Bulletin dated 10.03.2016, the total live storage available in these reservoirs is 8.27 BCM which is 44% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 56% and average storage of last ten years during corresponding period was 50% of live storage capacity of these reservoirs. Thus, storage during current year is less than the corresponding period of last year and is also less 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 under CWC monitoring having total live storage capacity of 27.07 BCM. As per Reservoir Storage Bulletin dated 10.03.2016, the total live storage available in these reservoirs is 6.97 BCM which is 26% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 45% and average storage of last ten years during corresponding period was 50% of live storage capacity of these reservoirs. Thus, storage during current year is less than the storage of last year and is also less than the average storage of last ten years during the corresponding period.

d) CENTRAL REGION

The Central region includes States of Uttar Pradesh, Uttarakhand, Madhya Pradesh and Chhattisgarh. There are 12 reservoirs under CWC monitoring having total live storage capacity of 42.30 BCM. As per Reservoir Storage Bulletin dated **10.03.2016**, the total live storage available in these reservoirs is **15.30 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 34% of live storage capacity of these reservoirs. Thus, storage during current year is less than the storage of last year but is better than the average storage of last ten years during the corresponding period.

e) SOUTHERN REGION

The Southern region includes States of Andhra Pradesh, Telangana, AP&TG(2combined projects in both states) Karnataka, Kerala and Tamil Nadu. There are 31 reservoirs under CWC monitoring having total live storage capacity of 51.59 BCM. As per Reservoir Storage Bulletin dated 10.03.2016, the total live storage available in these reservoirs is 10.37 BCM which is 20% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 32% and average storage of last ten years during corresponding period was 36% of live storage capacity of these reservoirs. Thus, storage during current year is less than the corresponding period of last year and is also less than the average storage of last ten years during the corresponding period.

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
 10.03.2016 is 45.801 BCM (29 percent of the live storage capacity at FRL). The current year's storage is nearly 71 percent of last year's storage and 74 percent of the average of last ten years.

3 Region wise storage status:-

		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	Departure fr stor	
NORTH (HP,Punjab & Rajasthan), (6 Resv.)	-	-	-	1	1	-	-	6	H.P. PUNJAB RAJASTHAN	-19 % -29 % -12 %
EAST (Jharkhand,Odisha, Tripura W.Bengal (15 Resv.)	& _	-	-	-	-	4	3	8	JHARKHAND ODISHA W. BENGAL TRIPURA	-36 % -10 % -21 % 320 %
WEST (Guj.& Mah.), (27 Resv.)	-	-	-	-	-	-	5	22	GUJARAT MAH.	-39 % -57 %
CENTRAL (MP,UP,Uttarakhand & Chh. (12 Resv)), -	-	-	-	-	2	2	8	U.P. UTTARAKHAND M.P. CHHATISGARH	-15 % -46 % 33 % -29 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	1	-	1	-	1	2	26	AP&TG A,P TG KARNATAKA KERALA T.N.	-81 % -1 % -74 % -34 % -4 %
Status of 91 reservoirs	0	1	0	1	0	7	12	70		

4 Basin wise storage position:

Better than normal: Ganga, Narmada and Rivers of Kutch.

Close to normal: Sabarmati, Mahanadi & Neighbouring EFRS and West Flowing rivers of south.

Deficient: Indus, Tapi, Mahi, Godavari and Cauvery & neighbouring EFRS

Highly deficient: Krishna.

5 Out of 91 reservoirs, 29 reservoirs reported more than 80% of normal storage & 62 reservoirs reported 80% or below of normal storage. Out of these 62 reservoirs 30 having storage upto 50% of normal

storage.

Name of reservoir	%	Name of reservoir	%	Name of reservoir	%
NAGARJUNA SAGAR	0	SRISAILAM	31	NARAYANPUR	42
BHIMA(UJJANI)	0	MULA	33	PANAM	43
JAYAKWADI(PAITHON)	3	MATATILA	35	BARNA	43
GIRNA	6	SARDAR SAROVAR	36	DUDHGANGA	44
SALANADI	13	VAIGAI	38	JHAKAM	44
YELDARI	21	TUNGABHADRA	39	ISAPUR	44
PANCHET HILL	23	BHANDARDARA	39	HARANGI	44
SRIRAMSAGAR	25	MAITHON	40	LOWER BHAWANI	45
LOWER MANAIR	28	ALIYAR	41	KARJAN	46
MANIKDOH	31	MALAPRABHA(RENUKA	42	RAMGANGA	49

32 reservors									
having storage 51%									
to 80% of normal									
storage.									
51%	61%	71%							
to	to	to							
60%	70%	80%							
12	8	12							

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

28 reservoirs.

WEEKLY REPORT - BASINWISE

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WFFK	ENDING :	10 (12 2	กาล

NAME OF BASIN	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	9.686	34.47%	12.194	43.40%	9.369	33.35%	3.38
INDUS	14.730	3.884	26.37%	4.514	30.64%	4.903	33.29%	-20.78
NARMADA	17.414	6.036	34.66%	7.285	41.83%	5.914	33.96%	2.06
TAPI	7.394	2.424	32.78%	3.324	44.96%	3.762	50.88%	-35.57
MAHI	4.012	1.202	29.96%	2.126	52.99%	1.880	46.86%	-36.06
SABARMATI	0.735	0.241	32.79%	0.155	21.09%	0.243	33.06%	-0.82
RIVERS OF KUTCH	0.887	0.227	25.59%	0.115	12.97%	0.214	24.13%	6.07
GODAVARI	15.394	3.942	25.61%	6.313	41.01%	6.309	40.98%	-37.52
KRISHNA	32.831	4.000	12.18%	9.622	29.31%	11.248	34.26%	-64.44
MAHANADI & NEIGHBOURING EFRS	13.181	5.860	44.46%	8.298	62.95%	7.289	55.30%	-19.60
CAUVERY& NEIGHBOURING EFRS	8.359	2.449	29.30%	2.911	34.82%	3.465	41.45%	-29.32
WEST FLOWING RIVERS OF SOUTH	14.766	5.850	39.62%	7.507	50.84%	7.132	48.30%	-17.98
TOTAL	157.799	45.801		64.364	·	61.728		
PERCENTAGE								-25.80

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNMENT OF INDIA			WEEK ENDING :- 10.03.2				VATER CO	COMMISSION			
			CURRENT	LIVE			STORAGE A	S % OF LIVE (CAPACITY AT	BENE	FITS	
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	ЗА	3B	
	NORTHERN REGION											
	HIMACHAL PRADESH											
*1	GOBIND SAGAR(BHAKRA)	512.06	483.80	6.229	2.256	10-03-2016	36	33	36	676	1200	
*2	PONG DAM PUNJAB	423.67	397.42	6.157	1.121	10-03-2016	18	26	32	-	360	
*3	THEIN	527.91	496.68	2.344	0.507	10-03-2016	22	37	30	348	600	
	RAJASTHAN											
*4	MAHI BAJAJ SAGAR	280.75	269.85	1.711	0.585	09-03-2016	34	45	35	63	140	
5	JHAKAM	359.50	338.40	0.132	0.011	09-03-2016	8	23	19	28	-	
*6	RANA PRATAP SAGAR	352.81	346.81	1.436	0.412	09-03-2016	29	27	36	229	172	
	EASTERN REGION	i										
	<u>JHARKHAND</u>											
7	TENUGHAT	269.14	257.16	0.821	0.315	10-03-2016	38	44	39	-	-	
8	MAITHON	146.3	139.07		0.128	10-03-2016	27	45	67	342	-	
*9	PANCHET HILL	124.97	120.80			10-03-2016	16	35	71	\$	80	
	KONAR	425.81				10-03-2016	50					
11	TILAIYA	368.81	365.19	0.142	0.033	10-03-2016	23	71	40	\$	4	
	<u>ODISHA</u>											
	HIRAKUD	192.02	188.49	5.378	2.773	10-03-2016	52	50	56	153	307	
	BALIMELA	462.08	452.81	2.676	1.278	08-03-2016	48	70	46	-	360	
	SALANADI	82.30	54.95	0.558	0.026	10-03-2016	5	43	36	42	-	
	RENGALI	123.50	117.22		1.490	08-03-2016	43	71	53	3		
	MACHKUND(JALPUT)	838.16	833.28	0.893	0.522	08-03-2016	58	60	62	-	115	
	UPPER KOLAB	858.00	853.26	0.935	0.521	08-03-2016	56	67	47	89	320	
18	UPPER INDRAVATI WEST BENGAL	642.00	633.06	1.456	0.586	08-03-2016	40	68	49	128	600	
10	MAYURAKSHI	121.31	110.46	0.480	0.089	10-03-2016	19	17	34	227		
		134.14	123.90	0.480		10-03-2016	25	26	26	341	_	
20	TRIPURA	104.14	123.30	0.514	0.223	10-03-2010	25	20	20	341		
21	GUMTI	93.55	90.25	0.312	0.168	09-03-2016	54	0	13	_	15	
	WESTERN REGION	00.00	00.20	0.012	0.100	00 00 2010	0.1	ŭ			10	
	GUJARAT	1										
*22	UKAI	105.16	95.55	6.615	2.308	10-03-2016	35	45	52	348	300	
23	SABARMATI(DHAROI)	189.59	183.39	0.735	0.241	09-03-2016	33	21	33	95	1	
*24	KADANA	127.7	118.54	1.472	0.440	09-03-2016	30	65	59	200	120	
25	SHETRUNJI	55.53	51.87	0.300	0.098	09-03-2016	33	18	41	36	-	
26	BHADAR	107.89	102.53	0.188	0.035	08-03-2016	19	24	29	27	-	
27	DAMANAGANGA	79.86	73.60	0.502	0.229	10-03-2016	46	47	62	51	1	
28	DANTIWADA	184.1	173.25	0.399	0.094	09-03-2016	24	4	10	45	-	
29	PANAM	127.41	119.35	0.697	0.166	09-03-2016	24	53	56	36	2	
*30	SARDAR SAROVAR	121.92	113.73	1.566	0.332	10-03-2016	21	71	59	2120	1450	
31	KARJAN	115.25	99.86	0.523	0.169	10-03-2016	32	59	70	51	3	

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNMENT OF INDIA		WEE	EK ENDING :-	10.03.2016		MMISSION				
			CUDDENT				STORAGE A	S % OF LIVE C	CAPACITY 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
	MAHARASHTRA										
32	JAYAKWADI(PAITHON)	463.91	455.66	2.171	0.020	10-03-2016	1	17	35	227	-
*33	KOYANA	657.90	640.64	2.652	0.978	09-03-2016	37	68	64	-	1920
34	BHIMA(UJJANI)	496.83	488.81	1.517	0.000	09-03-2016	0	37	50	125	12
35	ISAPUR	441.00	429.89	0.965	0.183	09-03-2016	19	36	43	104	-
36	MULA	552.30	538.54	0.609	0.090	09-03-2016	15	29	44	139	-
37	YELDARI	461.77	449.50	0.809	0.049	09-03-2016	6	21	29	78	-
38	GIRNA	398.07	382.30	0.524	0.008	09-03-2016	2	21	27	79	-
39	KHADAKVASLA	582.47	580.06	0.056	0.026	09-03-2016	46	71	43	78	8
*40	UPPER VAITARNA	603.50	596.92	0.331	0.139	09-03-2016	42	60	65	-	61
41	UPPER TAPI	214.00	211.12	0.255	0.108	09-03-2016	42	89	64	45	-
*42	PENCH (TOTALADOH)	490.00	474.53	1.091	0.210	09-03-2016	19	19	35	127	160
43	UPPER WARDHA	342.50	337.02	0.564	0.180	10-03-2016	32	39	44	70	-
44	BHATSA	142.07	121.10	0.942	0.468	09-03-2016	50	58	57	29.378	15
45	DHOM	747.70	733.30	0.331	0.125	09-03-2016	38	67	49	36.2	2
46	DUDHGANGA	646.00	626.75	0.664	0.179	09-03-2016	27	63	62	2.441	24
47	MANIKDOH (KUKADI)	711.25	684.34	0.288	0.025	09-03-2016	9	40	28	2.2	6
48	BHANDARDARA CENTRAL REGION	342.50	337.02	0.304	0.067	10-03-2016	32	39	44	70	-
	UTTAR PRADESH										
40	MATATILA	200.46	201.91	0.707	0.005	00 02 2016	40	24	20		20
49 *50	RIHAND	308.46 268.22	301.81 257.64	5.649	0.095 1.386	09-03-2016 07-03-2016	13 25	34 29	38 26	-	30 300
50	UTTRAKHAND	200.22	257.04	5.049	1.300	07-03-2016	25	29	20	-	300
*51	RAMGANGA	365.30	334.33	2.196	0.493	10-03-2016	22	63	46	1897	198
	TEHRI										
52	MADHYA PRADESH	830.00	766.40	2.615	0.546	10-03-2016	21	36	35	2351	1000
*50	GANDHI SAGAR	399.90	204.12	6.827	2.516	10-03-2016	52	41	28	220	115
	TAWA	355.40	394.12 341.71		3.516	07-03-2016			26 27		
	BARGI	422.76	417.35	1.944 3.180	0.366 1.814	07-03-2016	19 57	33 53	44	247 157	90
	BANSAGAR	341.64	333.82		2.162	10-03-2016	42	70	37	488	425
	INDIRA SAGAR	262.13	252.96	9.745	3.314	10-03-2016	34	35	27	2380	1000
	BARNA	348.55	339.83	0.456	0.041	10-03-2016	9	25	21	546	-
50	CHHATTIS GARH	340.33	339.03	0.430	0.041	10-03-2010	3	25	21	340	
*59	MINIMATA BANGOI	359.66	348.47	3.046	1.269	09-03-2016	42	82	57	_	120
	MAHANADI	348.70	342.71	0.767	0.302	10-03-2016	39	58	62	319	10
	SOUTHERN REGION	0 10.7 0	012.71	0.707	0.002	10 00 2010	00	00	02	010	10
	A.P & TG	ı									
*61		269.75	247.88	8.288	0.930	10-03-2016	11	30	36	0	770
	NAGARJUNA SAGAR	179.83	155.20		0.930	10-03-2016	0	10	27	895	810
UZ	ANDHRA PRADESH	113.03	100.20	0.041	0.000	10 00-2010	U	10	21	090	010
63	SOMASILA	100.58	92.83	1.994	0.979	10-03-2016	49	24	49	168	0
00	TELANGANA	100.00	92.03	1.334	0.919	10 00-2010	43	24	43	100	U
64	SRIRAMSAGAR	332.54	319.52	2.300	0.150	03-03-2016	7	18	26	411	27
	LOWER MANAIR	280.42	268.19		0.086	03-03-2016	, 14		50		60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

WEEK ENDING :- 10.03.2016

CENTRAL WATER COMMISSION

				WE	EK ENDING :-	10.03.2016					
			CURRENT	LIVE			STORAGE A	S % OF LIVE (FRL	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	ЗА	3B
	KARNATAKA										
66	KRISHNARAJA SAGRA	752.50	741.87	1.163	0.325	10-03-2016	28	56	43	79	-
*67	TUNGABHADRA	497.74	483.60	3.276	0.214	10-03-2016	7	17	17	529	72
68	GHATAPRABHA	662.95	638.68	1.391	0.176	09-03-2016	13	23	17	317	-
69	BHADRA	657.76	645.39	1.785	0.630	09-03-2016	35	63	62	106	39
70	LINGANAMAKKI	554.43	542.01	4.294	1.467	10-03-2016	34	44	46	-	55
71	NARAYANPUR	492.25	487.44	0.863	0.241	10-03-2016	28	61	66	425	-
72	MALAPRABHA(RENUKA)	633.83	621.28	0.972	0.049	09-03-2016	5	13	12	215	-
73	KABINI(Sancherla Tank)	696.16	689.03	0.444	0.105	10-03-2016	24	64	27	85	-
74	HEMAVATHY	890.63	873.99	0.927	0.122	10-03-2016	13	16	23	265	-
75	HARANGI	871.42	851.97	0.220	0.016	10-03-2016	7	9	16	53	-
76	SUPA	564.00	536.20	4.120	1.498	10-03-2016	36	53	46	-	-
77	VANIVILAS SAGAR	652.28	637.06	0.802	0.094	10-03-2016	12	7	15	123	-
*78	ALMATTI	519.60	508.67	3.105	0.333	10-03-2016	11	19	19	@	290
*79	GERUSOPPA	55.00	53.89	0.130	0.123	10-03-2016	95	77	85	83	240
	KERALA										
80	KALLADA(PARAPPAR)	115.82	111.92	0.507	0.401	10-03-2016	79	69	57	62	-
*81	IDAMALAYAR	169.00	145.24	1.018	0.412	10-03-2016	40	59	47	33	75
*82	IDUKKI	732.43	715.01	1.460	0.618	10-03-2016	42	58	47	-	780
*83	KAKKI	981.46	968.23	0.447	0.259	10-03-2016	58	64	61	23	300
*84	PERIYAR	867.41	859.98	0.173	0.030	10-03-2016	17	15	24	84	140
85	MALAPMUZHA	867.41	859.98	0.224	0.033	10-03-2016	17	15	24	84	140
	TAMIL NADU										
86	LOWER BHAWANI	278.89	265.45	0.792	0.170	10-03-2016	21	33	47	105	8
*87	METTUR(STANLEY)	240.79	222.74	2.647	0.715	10-03-2016	27	39	45	122	360
88	VAIGAI	279.20	268.22	0.172	0.017	10-03-2016	10	10	26	61	6
89	PARAMBIKULAM	556.26	543.37	0.380	0.133	10-03-2016	35	31	51	101	-
90	ALIYAR	320.04	306.16	0.095	0.018	10-03-2016	19	62	46	#	60
*91	SHOLAYAR	1002.79	964.06	0.143	0.022	10-03-2016	15	6	8		95
	TOTAL FOR 91 RESERVOIRS			157.799	45.801						
	PERCENTAGE						29	41	39		

Sd/-Director

\$ TOTAL CCA 342 TH. HA OF DVC SYSTEM

W. M. , CWC

@' TOTAL CCA 425 TH. HA. OF NARAYANPUR AND ALMATTI

SI. No. 30th 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

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

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

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