BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 12.10.2017)

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 12.10.2017, live storage available in these reservoirs is 107.28 BCM, which is 68% of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was 118.870 BCM and the average of last 10 years live storage was 118.348 BCM. Thus, the live storage available in 91 reservoirs as per 12.10.2017 Bulletin is 90% of the live storage of corresponding period of last year and 91% of storage of average of last ten years.

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 12.10.2017, the total live storage available in these reservoirs is 14.28 BCM which is 79% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 74% and average storage of last ten years during corresponding period was 79% of live storage capacity of these reservoirs. Thus, storage during current year is better than the corresponding period of last year but is equal to 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 12.10.2017, the total live storage available in these reservoirs is 14.85 BCM which is 79% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 86% and average storage of last ten years during corresponding period was 78% 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 under CWC monitoring having total live storage capacity of 27.07 BCM. As per Reservoir Storage Bulletin dated 12.10.2017, the total live storage available in these reservoirs is 20.69 BCM which is 76% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 86% and average storage of last ten years during corresponding period was 80% 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 12.10.2017, the total live storage available in these reservoirs is 27.23 BCM which is 64% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 92% and average storage of last ten years during corresponding period was 73% 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.

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 12.10.2017, the total live storage available in these reservoirs is 30.23 BCM which is 59% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 53% and average storage of last ten years during corresponding period was 72% 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 4, better than normal storage is available in Ganga, Mahi, Indus, Sabarmati, Rivers of Kutch and Cauvery & neighbouring EFRs. Close to Normal in Godavari, Krishna, Mahanadi & neighbouring East Flowing Rivers and West Flowing Rivers of South. Deficient in Narmada and Tapi basin and NIL in Highly Deficient.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are 44 and reservoirs having storage more than average of last ten years are 47. The numbers of reservoirs having storage less than 20% with respect to last year is 0 and having storage less than 20% with reference to average of last ten years is 2. The number of reservoirs having storage less than or equal to 50% with respect to last year are 8 and having storage less than or equal to 50% with reference to average of last ten years are 9.

Disclaimer: The Data contained in this Bulletin is as received from the State Government/Project Authorities.

STORAGE STATUS OF IMPORTANT RESERVOIRS IN THE COUNTRY

AS ON 12.10.2017

- 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

12.10.2017 107.280 BCM (68 percent of the live storage capacity at FRL). The current year's storage 90 **91** percent of the average of last ten years. is nearly percent of last year's storage and

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		
NORTH (HP,Punjab & Rajasthan), (6 Resv.)	2	ı	1	1	1	-	1		H.P. PUNJAB RAJASTHAN	1 % 7 % -6 %	
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	3	4	3	-	-	2	3	-	JHARKHAND ODISHA W. BENGAL TRIPURA	5 % -3 % 44 % 57 %	
WEST (Guj.& Mah.), (27 Resv.)	11	7	1	2	1	2	-	3	GUJARAT MAH.	-15 % 6 %	
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	1	2	2	4	1	-	2	U.P. UTTARAKHAND M.P. CHHATISGARH	20 % -2 % -18 % -16 %	
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	1	1	4	7	5	2	4	7	AP&TG A,P TG KARNATAKA KERALA T.N.	-34 % -20 % -30 % -14 % -5 % 16 %	
Status of 91 reservoirs	17	13	11	12	11	7	8	12		. 5 / 7	

4 Basin wise storage position:

Ganga, Mahi, Indus, Sabarmati, Rivers of Kutch and Cauvery & neighbouring EFRS. Better than normal:

Close to normal: Godavari ,Krishna, Mahanadi & Neighbouring EFRS and West Flowing Rivers of South

Deficient: Narmada and Tapi. .

Highly deficient: NIL

5 Out of 91 reservoirs, 66 reservoirs reported more than 80% of normal storage & 25 reservoirs reported 80% or below of normal storage. Out of these 25 reservoirs 9 having storage upto 50% of normal

storage.

Name of reservoir	%	Name of reservoir	%
VANIVILAS SAGAR	14		
NAGARJUNA SAGAR	20		
ISAPUR	23		
YELDARI	26		
MAHANADI	41		
HEMAVATHY	42		
ALIYAR	47		
PENCH (TOTALADOH)	48		
INDIRA SAGAR	49		

16 reservors									
having storage 51%									
to 80% of normal									
storage.									
51%	61%	71%							
to	to	to							
60%	70%	80%							
3	3	10							

WEEKLY REPORT - BASINWISE

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION WEEK ENDING :- 12.10.2017

WEER ENDING :- 12.10.2017											
NAME OF BASIN	LIVE CAP. AT	FRII	THIS YEAR'S STORAGE		LAST YEAR'S STORAGE		YEARS' ORAGE	% DEPARTURE W.R.T. AVE. OF 10 YEARS'			
GANGA	28.096	20.02	2 71.26%	24.725	88.00%	18.294	65.11%	9.45			
INDUS	14.730	11.72	79.60%	10.104	68.59%	11.571	78.55%	1.33			
NARMADA	17.414	10.45	60.06%	17.111	98.26%	14.961	85.91%	-30.10			
TAPI	7.394	3.99	5 54.03%	7.022	94.97%	6.156	83.26%	-35.10			
MAHI	4.012	3.51	5 87.61%	3.486	86.89%	3.165	78.89%	11.06			
SABARMATI	0.735	0.73	5 100.00%	0.719	97.82%	0.548	74.56%	34.12			
RIVERS OF KUTCH	0.887	0.74	1 83.54%	0.351	39.57%	0.538	60.65%	37.73			
GODAVARI	15.394	9.09	2 59.06%	12.579	81.71%	10.248	66.57%	-11.28			
KRISHNA	32.831	21.35	65.03%	20.018	60.97%	25.452	77.52%	-16.12			
MAHANADI & NEIGHBOURING EFRS	13.181	10.88	82.60%	11.353	86.13%	11.084	84.09%	-1.77			
CAUVERY& NEIGHBOURING EFRS	8.359	4.86	3 58.18%	2.702	32.32%	4.846	57.97%	0.35			
WEST FLOWING RIVERS OF SOUTH	14.766	9.89	67.02%	8.700	58.92%	11.485	77.78%	-13.84			
TOTAL	157.799	107.28	0	118.870		118.348					
PERCENTAGE								-9.35			

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNMENT OF INDIA			WEE	K ENDING :-	12.10.2017		CENTRALV	VATER COM	/IIVII55IU	IN
					-		STORAGE A	S % OF LIVE C	APACITY 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			•							
	HIMACHAL PRADESH										
*1	GOBIND SAGAR(BHAKRA)	512.06	507.80	6.229	5.291	12-10-2017	85	71	85	676	1200
*2	PONG DAM	423.67	419.30	6.157	4.896	12-10-2017	80	68	78	-	360
	<u>PUNJAB</u>										
*3	THEIN	527.91	517.08	2.344	1.538	12-10-2017	66	64	62	348	600
	RAJASTHAN										
*4	MAHI BAJAJ SAGAR	280.75	281.45	1.711	1.711	12-10-2017	100	100	87	63	140
5	JHAKAM	359.50	359.55	0.132	0.132	12-10-2017	100	100	85	28	-
*6	RANA PRATAP SAGAR	352.81	348.84	1.436	0.715	11-10-2017	50	100	78	229	172
	EASTERN REGION	•									
	<u>JHARKHAND</u>										
	TENUGHAT	269.14	259.63	0.821	0.402	12-10-2017	49	50	45		-
8	MAITHON	146.3	149.40		0.471	12-10-2017	100	100	93	342	-
*9	PANCHET HILL	124.97	127.67		0.184	12-10-2017	100	100	92	\$	80
	KONAR	425.81	424.23		0.148	12-10-2017	84	100	91	\$	-
11	TILAIYA ODISHA	368.81	368.15	0.142	0.119	12-10-2017	84	100	87	\$	4
*12	HIRAKUD	192.02	192.14	5.378	4.899	11-10-2017	91	90	93	153	307
	BALIMELA	462.08	452.38			12-10-2017	46	83	58	-	360
	SALANADI	82.30	70.50		0.227	11-10-2017	41	56	55		
	RENGALI	123.50	123.78			12-10-2017	100	93	87	3	200
	MACHKUND(JALPUT)	838.16	837.57		0.835	12-10-2017	94	95	88	-	115
	UPPER KOLAB	858.00	853.61	0.935	0.547	12-10-2017	59	88	65	89	320
	UPPER INDRAVATI	642.00	636.31	1.456		12-10-2017	60	83	77		600
	WEST BENGAL										
19	MAYURAKSHI	121.31	120.32	0.480	0.451	12-10-2017	94	87	64	227	_
20	KANGSABATI	134.14	131.87	0.914	0.741	12-10-2017	81	80	57	341	-
	TRIPURA										
21	GUMTI	93.55	93.20	0.312	0.296	10-10-2017	95	82	61	-	15
	WESTERN REGION										
	<u>GUJARAT</u>										
*22	UKAI	105.16	98.48	6.615	3.395	12-10-2017	51	96	85	348	300
23	SABARMATI(DHAROI)	189.59	189.53	0.735	0.735	12-10-2017	100	98	75	95	1
*24	KADANA	127.7	127.18	1.472	1.137	12-10-2017	77	81	71	200	120
25	SHETRUNJI	55.53	53.77	0.300	0.179	12-10-2017	60	62	77	36	-
26	BHADAR	107.89	107.59	0.188	0.175	12-10-2017	93	14	69	27	-
27	DAMANAGANGA	79.86	79.75	0.502	0.473	12-10-2017	94	97	98	51	1
28	DANTIWADA	184.1	184.05	0.399	0.387	12-10-2017	97	35	44	45	-
29	PANAM	127.41	127.15	0.697	0.535	12-10-2017	77	65	74	36	2
*30	SARDAR SAROVAR	121.92	129.97	1.566	1.566	12-10-2017	100	98	87	2120	1450
31	KARJAN	115.25	113.94	0.523	0.490	12-10-2017	94	63	92	51	3

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNIMENT OF INDIA			WEE	K ENDING :-	12.10.2017			VATER CON		
							STORAGE A	S % OF LIVE C FRL	APACITY 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	ЗА	3B
	MAHARASHTRA			•							
32	JAYAKWADI(PAITHON)	463.91	463.91	2.171	2.171	11-10-2017	100	82	51	227	-
*33	KOYANA	657.90	659.21	2.652	2.652	12-10-2017	100	100	96	-	1920
34	BHIMA(UJJANI)	496.83	497.33	1.517	1.517	12-10-2017	100	100	83	125	12
35	ISAPUR	441.00	429.02	0.965	0.145	12-10-2017	15	49	66	104	-
36	MULA	552.30	552.29	0.609	0.609	11-10-2017	100	100	84	139	-
37	YELDARI	461.77	451.27	0.809	0.102	12-10-2017	13	28	48	78	-
38	GIRNA	398.07	394.48	0.524	0.348	12-10-2017	66	89	49	79	-
39	KHADAKVASLA	582.47	582.47	0.056	0.056	12-10-2017	100	88	71	78	8
*40	UPPER VAITARNA	603.50	603.50	0.331	0.331	12-10-2017	100	100	93	-	61
41	UPPER TAPI	214.00	213.95	0.255	0.252	11-10-2017	99	93	98	45	-
*42	PENCH (TOTALADOH)	490.00	480.02	1.091	0.412	11-10-2017	38	56	78	127	160
43	UPPER WARDHA	342.50	342.50	0.564	0.564	12-10-2017	100	100	94	70	-
44	BHATSA	142.07	141.71	0.942	0.934	11-10-2017	99	100	95	29.378	15
45	DHOM	747.70	747.28	0.331	0.321	11-10-2017	97	99	89	36.2	2
46	DUDHGANGA	646.00	646.00	0.664	0.664	11-10-2017	100	100	97	2.441	24
	MANIKDOH (KUKADI)	711.25	708.26		0.236	11-10-2017	82	73	58	2.2	6
48	BHANDARDARA CENTRAL REGION	744.91	744.73	0.304	0.304	11-10-2017	100	100	97	63.74	46
	UTTAR PRADESH	•									
49	MATATILA	308.46	308.40	0.707	0.635	11-10-2017	90	91	88	_	30
	RIHAND	268.22	263.32		3.553	12-10-2017	63	80	51	-	300
	UTTRAKHAND										
*51	RAMGANGA	365.30	353.29	2.196	1.359	12-10-2017	62	55	73	1897	198
*52	TEHRI	830.00	824.70	2.615	2.398	10-10-2017	92	91	86	2351	1000
	MADHYA PRADESH										
*53	GANDHI SAGAR	399.90	396.64	6.827	4.730	12-10-2017	69	96	58	220	115
54	TAWA	355.40	352.44	1.944	1.518	12-10-2017	78	100	98	247	-
*55	BARGI	422.76	421.20	3.180	2.786	12-10-2017	88	100	92	157	90
*56	BANSAGAR	341.64	338.60	5.166	3.820	12-10-2017	74	100	69	488	425
*57	INDIRA SAGAR	262.13	254.10	9.745	3.865	12-10-2017	40	100	81	2380	1000
58	BARNA	348.55	344.98	0.456	0.233	12-10-2017	51	90	78	546	-
	CHHATTIS GARH										
*59	MINIMATA BANGOI	359.66	354.68	3.046	2.085	11-10-2017	68	74	71	-	120
60	MAHANADI	348.70	341.79	0.767	0.245	11-10-2017	32	99	78	319	10
	SOUTHERN REGION	•									
	A.P & TG										
*61	SRISAILAM	269.75	269.69	8.288	5.973	12-10-2017	72	68	70	0	770
*62	NAGARJUNA SAGAR	179.83	161.00	6.841	0.934	12-10-2017	14	23	68	895	810
	ANDHRA PRADESH										
63	SOMASILA	100.58	92.35	1.994	0.929	12-10-2017	47	49	58	168	0
	<u>TELANGANA</u>										
	SRIRAMSAGAR	332.54	327.54			12-10-2017	48	100	64	411	27
65	LOWER MANAIR	280.42	272.34	0.621	0.208	12-10-2017	33	100	64	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

				WEE	K ENDING :-	12.10.2017					
			OURDENT				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	3A	3B
	KARNATAKA										
66	KRISHNARAJA SAGRA	752.50	748.48	1.163	0.820	11-10-2017	71	19	78	79	-
*67	TUNGABHADRA	497.74	496.16	3.276	2.326	12-10-2017	71	35	79	529	72
68	GHATAPRABHA	662.95	660.52	1.391	1.211	11-10-2017	87	85	93	317	-
69	BHADRA	657.76	652.73	1.785	1.242	11-10-2017	70	50	91	106	39
70	LINGANAMAKKI	554.43	548.32	4.294	2.647	12-10-2017	62	58	84	-	55
71	NARAYANPUR	492.25	492.09	0.863	0.719	12-10-2017	83	78	88	425	-
72	MALAPRABHA(RENUKA)	633.83	627.95	0.972	0.378	11-10-2017	39	37	73	215	-
73	KABINI(Sancherla Tank)	696.16	695.08	0.444	0.381	11-10-2017	86	42	48	85	-
74	HEMAVATHY	890.63	879.36	0.927	0.294	11-10-2017	32	17	76	265	-
75	HARANGI	871.42	871.09	0.220	0.218	11-10-2017	99	49	74	53	-
76	SUPA	564.00	548.92	4.120	2.490	12-10-2017	60	57	69	-	-
77	VANIVILAS SAGAR	652.28	632.17	0.802	0.016	10-10-2017	2	5	14	123	-
*78	ALMATTI	519.60	519.60	3.105	3.105	12-10-2017	100	100	93	@	290
*79	GERUSOPPA	55.00	51.65	0.130	0.111	09-10-2017	85	71	77	83	240
	<u>KERALA</u>										
80	KALLADA(PARAPPAR)	115.82	111.18	0.507	0.385	11-10-2017	76	32	73	62	-
*81	IDAMALAYAR	169.00	159.60	1.018	0.749	11-10-2017	74	58	77	33	75
*82	IDUKKI	732.43	721.68	1.460	0.902	11-10-2017	62	45	67	-	780
*83	KAKKI	981.46	973.19	0.447	0.320	11-10-2017	72	61	77	23	300
*84	PERIYAR	867.41	862.97	0.173	0.076	11-10-2017	44	8	42	84	140
85	MALAPMUZHA	115.06	111.37	0.224	0.145	12-10-2017	65	42	81	21	3
	TAMIL NADU										
86	LOWER BHAWANI	278.89	273.01	0.792	0.455	11-10-2017	57	18	47	105	8
*87	METTUR(STANLEY)	240.79	233.60	2.647	1.706	11-10-2017	64	35	48	122	360
88	VAIGAI	279.20	273.06	0.172	0.060	11-10-2017	35	3	31	61	6
89	PARAMBIKULAM	556.26	546.60	0.380	0.190	11-10-2017	50	34	80	101	-
90	ALIYAR	320.04	309.77	0.095	0.035	11-10-2017	37	9	79	#	60
*91	SHOLAYAR	1002.79	998.73	0.143	0.108	11-10-2017	76	29	87	-	95
	TOTAL FOR 91 RESERVOIRS			157.799	107.280						
	PERCENTAGE						68	75	75		

Sd/-

\$ TOTAL CCA 342 TH. HA OF DVC SYSTEM

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. 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