BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 29.06.2017)

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 29.06.2017, live storage available in these reservoirs is 29.665 BCM, which is 19% of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was 23.594 BCM and the average of last 10 years live storage was 32.646 BCM. Thus, the live storage available in 91 reservoirs as per 29.06.2017 Bulletin is 126% 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 **better than the** corresponding period of last year in the country as a whole but is **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 29.06.2017, the total live storage available in these reservoirs is 4.66 BCM which is 26% 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 31% 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.

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 **29.06.2017**, the total live storage available in these reservoirs is **2.86 BCM** which is **15%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **17%** 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 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 **29.06.2017**, the total live storage available in these reservoirs is **5.84 BCM** which is **22%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **9%** 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 better than the storage of last year and is also better 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 29.06.2017, the total live storage available in these reservoirs is 11.83 BCM which is 28% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 20% 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 storage of last year and is also 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 29.06.2017, the total live storage available in these reservoirs is 4.47 BCM which is 9 % of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 10% 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 less than the corresponding period of last year and is 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 4, better than normal storage is available in Narmada, Mahi, Ganga, Sabarmati, Tapi. Close to Normal in Godavari, Mahanadi & neighbouring East Flowing Rivers and West Flowing Rivers of South. Deficient in Indus and Rivers of Kutch and Highly Deficient in Cauvery & neighbouring EFR and Krishna basin.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **38** and reservoirs having storage more than average of last ten years are **35**. The numbers of reservoirs having storage less than 20% with respect to last year is **3** and having storage less than 20% with reference to average of last ten years is **13**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **17** and having storage less than or equal to 50% with reference to average of last ten years are **36**.

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 29.06.2017

- 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
 29.06.2017 is 29.665 BCM (19 percent of the live storage capacity at FRL). The current year's storage is nearly 126 percent of last year's storage and 91 percent of the average of last ten years.

3 Region wise storage status:-

		Filling	positio								
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	-	5	H.P. PUNJAB RAJASTHAN	-33 % 15 % -2 %	
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	-	-	-	-	1	-	-	14	JHARKHAND ODISHA W. BENGAL TRIPURA	-30 % -18 % 14 % 128 %	
WEST (Guj.& Mah.), (27 Resv.)	-	-	-	-	-	1	-	26	GUJARAT MAH.	28 % -20 %	
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	-	2	1	9	U.P. UTTARAKHAND M.P. CHHATISGARH	66 % -84 % 104 % 14 %	
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	1	-	-	-	-	30	AP&TG A,P TG KARNATAKA KERALA T.N.	-83 % -63 % 33 % -47 % -42 % -83 %	
Status of 91 reservoirs	0	0	1	0	1	4	1	84		55,75	

4 Basin wise storage position:

Better than normal: Ganga, Sabarmati, Mahi, Narmada and Tapi .

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

Deficient: Indus and Rivers of Kutch

Highly deficient: Cauvery & neighbouring EFRS and Krishna.

5 Out of 91 reservoirs, 40 reservoirs reported more than 80% of normal storage & 51 reservoirs reported 80% or below of normal storage. Out of these 51 reservoirs 36 having storage upto 50% of normal

storage.

Name of reservoir	%	Name of reservoir	%
NAGARJUNA SAGAR	0	KABINI	28
ALMATTI	0	YELDARI	28
BHIMA(UJJANI)	0	KRISHNARAJA SAGRA	28
RAMGANGA	0	SHOLAYAR	29
BHADAR	0	ALIYAR	31
TUNGABHADRA	7	BHADRA	31
MALAPRABHA(RENUKA)	10	DANTIWADA	33
VAIGAI	11	PANCHET HILL	35
METTUR(STANLEY)	14	SRISAILAM	35
VANIVILAS SAGAR	16	SOMASILA	37
PENCH (TOTALADOH)	17	HEMAVATHY	39
ISAPUR	19	NARAYANPUR	41
PERIYAR	19	MULA	42
RENGALI	21	MALAMPUZHA	44
LOWER BHAWANI	22	KHADAKVASLA	44
MATATILA	25	PONG DAM	46
PARAMBIKULAM	26	DHOM	47
	_	MAHANADI	47
		MACHKUND(JALPUT)	50

15 reservors									
having storage 51%									
to 80% of normal									
storage.									
51%	61%	71%							
to	to	to							
60%	70%	80%							
7	3	5							

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

22 reservoirs

WEEKLY REPORT - BASINWISE

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 29.06.2017											
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	8.887	31.63%	7.185	25.57%	5.886	20.95%	50.99			
INDUS	14.730	3.634	24.67%	3.150	21.38%	4.601	31.24%	-21.02			
NARMADA	17.414	3.280	18.84%	2.602	14.94%	2.151	12.35%	52.49			
TAPI	7.394	1.987	26.87%	0.508	6.87%	1.357	18.35%	46.43			
MAHI	4.012	1.564	38.98%	0.682	17.00%	1.278	31.85%	22.38			
SABARMATI	0.735	0.139	18.91%	0.133	18.10%	0.129	17.55%	7.75			
RIVERS OF KUTCH	0.887	0.040	4.51%	0.046	5.19%	0.061	6.88%	-34.43			
GODAVARI	15.394	2.258	14.67%	2.094	13.60%	2.492	16.19%	-9.39			
KRISHNA	32.831	1.555	4.74%	1.176	3.58%	6.345	19.33%	-75.49			
MAHANADI & NEIGHBOURING EFRS	13.181	2.654	20.14%	1.703	12.92%	2.677	20.31%	-0.86			
CAUVERY& NEIGHBOURING EFRS	8.359	0.630	7.54%	1.193	14.27%	2.402	28.74%	-73.77			
WEST FLOWING RIVERS OF SOUTH	14.766	3.037	20.57%	3.122	21.14%	3.267	22.13%	-7.04			
TOTAL	157.799	29.665		23.594		32.646					
PERCENTAGE								-9.13			

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNMENT OF INDIA		WEE		WIWIIOOION						
			CURRENT	LIVE			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	3A	3B
	NORTHERN REGION										
	HIMACHAL PRADESH	•									
*1	GOBIND SAGAR(BHAKRA)	512.06	477.08	6.229	1.659	29-06-2017	27	30	32	676	1200
*2	PONG DAM PUNJAB	423.67	393.02	6.157	0.657	26-06-2017	11	8	23	-	360
*3	THEIN	527.91	513.37	2.344	1.318	29-06-2017	56	34	49	348	600
	RAJASTHAN										
*4	MAHI BAJAJ SAGAR	280.75	269.45	1.711	0.550	29-06-2017	32	20	21	63	140
5	JHAKAM	359.50	346.45	0.132	0.037	29-06-2017	28	7	16	28	-
*6	RANA PRATAP SAGAR	352.81	346.98	1.436	0.437	28-06-2017	30	55	47	229	172
	EASTERN REGION	•									
	<u>JHARKHAND</u>										
7	TENUGHAT	269.14	254.87	0.821	0.251	29-06-2017	31	35	35	-	-
8	MAITHON	146.3	137.11	0.471	0.075	29-06-2017	16	16	30	342	-
*9	PANCHET HILL	124.97	120.91	0.184	0.033	29-06-2017	18	21	52	\$	80
10	KONAR	425.81	415.28	0.176	0.032	29-06-2017	18	24	31	\$	-
11	TILAIYA ODISHA	368.81	365.16	0.142	0.033	29-06-2017	23	12	20	\$	4
*12	HIRAKUD	192.02	182.41	5.378	0.582	27-06-2017	11	10	10	153	307
*13	BALIMELA	462.08	444.15	2.676	0.392	28-06-2017	15	36	17	-	360
14	SALANADI	82.30	67.27	0.558	0.162	28-06-2017	29	4	27	42	-
*15	RENGALI	123.50	110.28	3.432	0.080	28-06-2017	2	1	11	3	200
*16	MACHKUND(JALPUT)	838.16	825.14	0.893	0.154	28-06-2017	17	23	34	-	115
*17	UPPER KOLAB	858.00	848.49	0.935	0.203	28-06-2017	22	18	14	89	320
*18	UPPER INDRAVATI	642.00	629.04	1.456	0.271	29-06-2017	19	22	18	128	600
	WEST BENGAL										
19	MAYURAKSHI	121.31	112.17	0.480	0.126	29-06-2017	26	30	25	227	-
20	KANGSABATI	134.14	124.74	0.914	0.256	29-06-2017	28	20	24	341	-
	TRIPURA										
21	GUMTI WESTERN REGION	93.55	91.30	0.312	0.212	27-06-2017	68	50	30	-	15
*22	GUJARAT UKAI	105 16	02.90	6.615	1 010	20.06.2017	27	0	10	240	200
	SABARMATI(DHAROI)	105.16 189.59	93.80 181.21	6.615 0.735		29-06-2017 29-06-2017	27 19	18	19 18		300 1
	KADANA	127.7	123.14			29-06-2017	52	15	43		120
	SHETRUNJI	55.53	49.17			29-06-2017	13	10			-
	BHADAR	107.89	96.63			29-06-2017	0	4			
	DAMANAGANGA	79.86	70.20			29-06-2017	26	8	13		1
	DANTIWADA	184.1	162.52			29-06-2017	1	2	2		
	PANAM	127.41	120.80			29-06-2017	30	17			2
	SARDAR SAROVAR	121.92	115.20			29-06-2017	34	33	25	2120	1450
	KARJAN	115.25	100.29	0.523		29-06-2017	34	7		51	3

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNMENT OF INDIA		WEEK ENDING :- 29.06.2017				MMISSION				
			CURRENT		-		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			I.							
32	JAYAKWADI(PAITHON)	463.91	457.84	2.171	0.403	28-06-2017	19	0	10	227	_
	KOYANA	657.90	627.89	2.652	0.478	28-06-2017	18	2	28	-	1920
34	BHIMA(UJJANI)	496.83	488.68	1.517	0.000	28-06-2017	0	0	6	125	12
35	ISAPUR	441.00	426.84	0.965	0.045	28-06-2017	5	2	25	104	_
36	MULA	552.30	534.75	0.609	0.014	23-06-2017	2	5	5	139	-
37	YELDARI	461.77	448.58	0.809	0.023	28-06-2017	3	0	10	78	-
38	GIRNA	398.07	387.94	0.524	0.137	28-06-2017	26	0	7	79	-
39	KHADAKVASLA	582.47	578.18	0.056	0.007	28-06-2017	13	21	29	78	8
*40	UPPER VAITARNA	603.50	594.21	0.331	0.076	28-06-2017	23	24	27	-	61
41	UPPER TAPI	214.00	208.91	0.255	0.031	28-06-2017	12	0	21	45	-
*42	PENCH (TOTALADOH)	490.00	466.52	1.091	0.033	28-06-2017	3	7	18	127	160
43	UPPER WARDHA	342.50	337.31	0.564	0.195	29-06-2017	35	20	31	70	-
44	BHATSA	142.07	114.70	0.942	0.361	28-06-2017	38	31	30	29.378	15
45	DHOM	747.70	729.65	0.331	0.035	28-06-2017	11	24	23	36.2	2
46	DUDHGANGA	646.00	623.14	0.664	0.123	28-06-2017	19	0	23	2.441	24
47	MANIKDOH (KUKADI)	711.25	686.70	0.288	0.014	28-06-2017	5	6	5	2.2	6
48	BHANDARDARA	744.91	719.21	0.304	0.053	28-06-2017	17	1	12	63.74	46
	CENTRAL REGION										
	UTTAR PRADESH										
49	MATATILA	308.46	300.96	0.707	0.057	28-06-2017	8	9	32	-	30
*50	RIHAND	268.22	257.07	5.649	1.178	29-06-2017	21	13	9	-	300
	<u>UTTRAKHAND</u>										
*51	RAMGANGA	365.30	300.63	2.196	0.000	28-06-2017	0	7	25	1897	198
*52	TEHRI	830.00	746.95	2.615	0.125	29-06-2017	5	10	9	2351	1000
	MADHYA PRADESH										
*53	GANDHI SAGAR	399.90	394.38	6.827	3.637	28-06-2017	53	36	19	220	115
	TAWA	355.40	343.08	1.944	0.747	29-06-2017	38	7	23	247	-
*55	BARGI	422.76	409.50	3.180	0.618	29-06-2017	19	25	14	157	90
	BANSAGAR	341.64	334.76	5.166	2.435	28-06-2017	47	35	26	488	425
	INDIRA SAGAR	262.13	246.97		1.083	29-06-2017	11	11	7	2380	1000
58	BARNA	348.55	342.56	0.456	0.124	28-06-2017	27	5	15	546	-
	CHHATTIS GARH										
	MINIMATA BANGOI	359.66	352.20		1.733	28-06-2017	57	31	46	-	120
	MAHANADI	348.70	338.85	0.767	0.097	28-06-2017	13	22	27	319	10
	SOUTHERN REGION	•									
	<u>A.P & TG</u>										
	SRISAILAM	269.75	237.38		0.467	29-06-2017	6	6	16	0	770
*62	NAGARJUNA SAGAR	179.83	152.86	6.841	0.000	29-06-2017	0	0	21	895	810
	ANDHRA PRADESH										
63	SOMASILA	100.58	82.20	1.994	0.211	29-06-2017	11	23	29	168	0
	TELANGANA	0									
	SRIRAMSAGAR	332.54	321.53		0.261	29-06-2017	11	6	9	411	27
65	LOWER MANAIR	280.42	272.42	0.621	0.211	29-06-2017	34	11	22	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

				WEE	K ENDING :-	29.06.2017					
							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	3A	3B
	KARNATAKA										
66	KRISHNARAJA SAGRA	752.50	735.15	1.163	0.056	27-06-2017	5	6	17	79	-
*67	TUNGABHADRA	497.74	479.15	3.276	0.044	29-06-2017	1	3	20	529	72
68	GHATAPRABHA	662.95	662.94	1.391	0.063	28-06-2017	5	2	9	317	-
69	BHADRA	657.76	636.73	1.785	0.163	28-06-2017	9	9	30	106	39
70	LINGANAMAKKI	554.43	534.30	4.294	0.590	29-06-2017	14	17	17	-	55
71	NARAYANPUR	492.25	485.91	0.863	0.138	29-06-2017	16	17	39	425	-
72	MALAPRABHA(RENUKA)	633.83	619.70	0.972	0.008	28-06-2017	1	0	8	215	-
73	KABINI(Sancherla Tank)	696.16	686.72	0.444	0.031	27-06-2017	7	0	25	85	-
74	HEMAVATHY	890.63	871.62	0.927	0.072	27-06-2017	8	11	20	265	-
75	HARANGI	871.42	859.31	0.220	0.062	27-06-2017	28	45	35	53	-
76	SUPA	564.00	531.10	4.120	1.160	29-06-2017	28	20	21	-	-
77	VANIVILAS SAGAR	652.28	632.09	0.802	0.015	29-06-2017	2	6	12	123	-
*78	ALMATTI	519.60	504.74	3.105	0.000	29-06-2017	0	2	21	@	290
*79	GERUSOPPA	55.00	52.12	0.130	0.113	29-06-2017	87	85	76	83	240
	KERALA										
80	KALLADA(PARAPPAR)	115.82	90.38	0.507	0.083	23-06-2017	16	51	27	62	-
*81	IDAMALAYAR	169.00	131.18	1.018	0.164	27-06-2017	16	19	21	33	75
*82	IDUKKI	732.43	702.40	1.460	0.191	27-06-2017	13	23	23	-	780
*83	KAKKI	981.46	940.40	0.447	0.066	27-06-2017	15	32	27	23	300
*84	PERIYAR	867.41	859.16	0.173	0.013	27-06-2017	8	12	39	84	140
85	MALAPMUZHA	115.06	102.47	0.224	0.031	29-06-2017	14	13	32	21	3
	TAMIL NADU										
86	LOWER BHAWANI	278.89	260.24	0.792	0.064	27-06-2017	8	10	36	105	8
*87	METTUR(STANLEY)	240.79	210.84	2.647	0.131	27-06-2017	5	14	36	122	360
88	VAIGAI	279.20	263.77	0.172	0.003	27-06-2017	2	5	16	61	6
89	PARAMBIKULAM	556.26	536.59	0.380	0.029	27-06-2017	8	10	30	101	-
90	ALIYAR	320.04	304.51	0.095	0.012	27-06-2017	13	26	41	#	60
*91	SHOLAYAR	1002.79	972.16	0.143	0.015	27-06-2017	10	15	36	-	95
	TOTAL FOR 91 RESERVOIRS			157.799	29.665						
	PERCENTAGE						19	15	21		

Sd/-

\$ TOTAL CCA 342 TH. HA OF DVC SYSTEM

Director W. M. , CWC

 $^{^{\}star}$ 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