BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 18.10.2018)

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 161.993 BCM which is about 63% of the live storage capacity of 257.812 BCM which is estimated to have been created in the country. As per reservoir storage bulletin dated 18.10.2018, live storage available in these reservoirs is 115.668 BCM, which is 71% of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was 111.500 BCM and the average of last 10 years live storage was 115.573 BCM. Thus, the live storage available in 91 reservoirs as per 18.10.2018 Bulletin is 104% of the live storage of corresponding period of last year and 100% 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 and is **equal to 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 18.10.2018, the total live storage available in these reservoirs is 16.31 BCM which is 91% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 78% 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 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 under CWC monitoring having total live storage capacity of 18.83 BCM. As per Reservoir Storage Bulletin dated 18.10.2018, the total live storage available in these reservoirs is 14.76 BCM which is 78% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 79% and average storage of last ten years during corresponding period was 76% 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 31.26 BCM. As per Reservoir Storage Bulletin dated 18.10.2018, the total live storage available in these reservoirs is 17.66 BCM which is 56% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 72% and average storage of last ten years during corresponding period was 68% 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 18.10.2018, the total live storage available in these reservoirs is 32.27 BCM which is 76% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 64% 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 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 18.10.2018, the total live storage available in these reservoirs is 34.68 BCM which is 67% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 65% and average storage of last ten years during corresponding period was 68% 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 Indus, Ganga, Narmada, Mahi, and West Flowing Rivers of South and Cauvery & neighbouring EFRs. Close to Normal in Godavari, Krishna and Mahanadi & Neighbouring East Flowing Rivers, Deficient in Tapi and Rivers of Kutch and Highly Deficient in Sabarmati.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are 42 and reservoirs having storage more than average of last ten years are 49. 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 1. The number of reservoirs having storage less than or equal to 50% with respect to last year are 9 and having storage less than or equal to 50% with reference to average of last ten years are 6.

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 18.10.2018

- 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
 18.10.2018 is 115.668 BCM (71 percent of the live storage capacity at FRL). The current year's storage is nearly 104 percent of last year's storage and 100 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 (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.)	2	2	1	1	1	-	-	-	H.P. PUNJAB RAJASTHAN	11 % 53 % 3 %	
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	1	3	5	3	1	-	1	2	JHARKHAND ODISHA W. BENGAL TRIPURA	-9 % 6 % -35 % 50 %	
WEST (Guj.& Mah.), (27 Resv.)	1	5	3	5	2	-	4	7	GUJARAT MAH.	-21 % -12 %	
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	3	3	1	2	1	2	-	U.P. UTTARAKHAND M.P. CHHATISGARH	15 % 2 % 5 % -2 %	
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	2	5	8	6	5	2	-	3	AP&TG A,P TG KARNATAKA KERALA T.N.	-30 % 2 % -21 % 6 % 14 % 72 %	
Status of 91 reservoirs	5	18	20	15	11	3	7	12			

4 Basin wise storage position:

Better than normal: Indus, Ganga, Narmada ,Mahi, West Flowing Rivers of South and Cauvery & neighbouring EFRS.

Close to normal: Godavari, Krishna and Mahanadi & Neighbouring EFRS

Deficient: Tapi, and Rivers of Kutch.

Highly deficient: sabarmati

5 Out of 91 reservoirs, 70 reservoirs reported more than 80% of normal storage & 21 reservoirs reported 80% or below of normal storage. Out of these 21 reservoirs 6 having storage upto 50% of normal

storage.

otorago.			
Name of reservoir	%	Name of reservoir	%
VANIVILAS SAGAR	20		
YELDARI	21		
PENCH (TOTALADOH)	24		
SABARMATI(DHAROI)	36		
DANTIWADA	38		
SRISAII AM	44	1	

15 reservors having storage 51% to 80% of normal storage. 51% 61% 71% to to to 80% 60% 70% 6 3 6

WEEKLY REPORT - BASINWISE

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 18.10.2018

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	18.762	66.78%	19.637	69.89%	18.550	66.02%	1.14
INDUS	14.730	13.535	91.89%	11.514	78.17%	11.681	79.30%	15.87
NARMADA	21.608	16.800	77.75%	12.104	56.02%	14.762	68.32%	13.81
TAPI	7.394	3.197	43.24%	4.147	56.09%	5.771	78.05%	-44.60
MAHI	4.012	3.451	86.02%	3.499	87.21%	3.128	77.97%	10.33
SABARMATI	0.735	0.196	26.67%	0.722	98.23%	0.548	74.56%	-64.23
RIVERS OF KUTCH	0.887	0.262	29.54%	0.737	83.09%	0.528	59.53%	-50.38
GODAVARI	15.394	9.596	62.34%	9.598	62.35%	10.000	64.96%	-4.04
KRISHNA	32.831	20.432	62.23%	23.504	71.59%	24.233	73.81%	-15.69
MAHANADI & NEIGHBOURING EFRS	13.181	9.963	75.59%	10.684	81.06%	10.773	81.73%	-7.52
CAUVERY& NEIGHBOURING EFRS	8.359	6.570	78.60%	5.378	64.34%	4.588	54.89%	43.20
WEST FLOWING RIVERS OF SOUTH	14.766	12.904	87.39%	9.976	67.56%	11.011	74.57%	17.19
TOTAL	161.993	115.668		111.500		115.573		
PERCENTAGE								0.08

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNMENT OF INDIA			WEE	K ENDING :-	18.10.2018		CENTRAL	VATER CON	MISSIO	N
							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	508.79	6.229	5.446	18-10-2018	87	84	84	676	1200
*2	PONG DAM PUNJAB	423.67	423.40	6.157	5.852	17-10-2018	95	77	81	-	360
*3	THEIN	527.91	526.56	2.344	2.237	16-10-2018	95	64	62	348	600
	RAJASTHAN										
*4	MAHI BAJAJ SAGAR	280.75	280.95	1.711	1.711	18-10-2018	100	100	87	63	140
5	JHAKAM	359.50	359.55	0.132	0.132	18-10-2018	100	100	86	28	-
*6	RANA PRATAP SAGAR	352.81	350.13	1.436	0.936	18-10-2018	65	45	76	229	172
	EASTERN REGION										
	<u>JHARKHAND</u>										
7	TENUGHAT	269.14	259.87	0.821	0.411	18-10-2018	50	51	47	-	-
8	MAITHON	146.3	144.40	0.471	0.340	18-10-2018	72	100	93	342	-
*9	PANCHET HILL	124.97	123.82	0.184	0.131	18-10-2018	71	100	93	\$	80
10	KONAR	425.81	424.05	0.176	0.145	18-10-2018	82	84	90	\$	-
11	TILAIYA	368.81	368.49	0.142	0.130	18-10-2018	92	80	87	\$	4
	ODISHA										
*12	HIRAKUD	192.02	191.52	5.378	4.511	17-10-2018	84	91	92	153	307
	BALIMELA	462.08	461.56	2.676	2.575	18-10-2018	96	48	59	-	360
	SALANADI	82.30	78.09		0.424	11-10-2018	76	41	50	42	
	RENGALI	123.50	120.22			18-10-2018	70	96	83	3	200
	MACHKUND(JALPUT)	838.16	837.59		0.836	18-10-2018	94	95	89	-	115
	UPPER KOLAB	858.00	856.69	0.935	0.811	18-10-2018	87	61	64	89	320
*18	WEST BENGAL	642.00	640.41	1.456	1.279	18-10-2018	88	60	73	128	600
19	MAYURAKSHI	121.31	114.04	0.480	0.177	18-10-2018	37	95	59	227	-
20	KANGSABATI	134.14	126.16	0.914	0.329	18-10-2018	36	80	54	341	-
	TRIPURA										
21	GUMTI	93.55	92.65	0.312	0.270	09-10-2018	87	97	58	-	15
	WESTERN REGION	-									
	<u>GUJARAT</u>										
	UKAI	105.16	96.64			18-10-2018	41	53	80	348	300
	SABARMATI(DHAROI)	189.59	182.53			18-10-2018	27		75	95	1
	KADANA	127.7	126.44			18-10-2018	72		70	200	120
	SHETRUNJI	55.53	52.52			18-10-2018	40	60	73		-
	BHADAR	107.89	104.48			18-10-2018	39	92	68	27	-
	DANTIWADA	79.86	78.10			18-10-2018	79	95 oe	98		1
	DANTIWADA	184.1	171.69			18-10-2018	18	96 76	46 71	45 36	-
	PANAM SARDAR SAROVAR	127.41	127.30			18-10-2018	78 46	76 55	71	36	1450
	SARDAR SAROVAR	138.68	127.43			18-10-2018	46 85	55	27	2120	1450
31	KARJAN	115.25	112.83	0.523	0.445	18-10-2018	85	94	92	51	3

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

				VV CC	K ENDING :-	18.10.2018					
			CURRENT	LIVE			STORAGE A	S % OF LIVE C FRL	APACITY AT	BENEFITS	
S. NO		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	l		I.							
32	JAYAKWADI(PAITHON)	463.91	459.51	2.171	0.774	17-10-2018	36	100	51	227	-
*33	KOYANA	657.90	656.49	2.652	2.483	17-10-2018	94	100	96	-	1920
34	BHIMA(UJJANI)	496.83	496.65	1.517	1.457	17-10-2018	96	100	83	125	12
35	ISAPUR	441.00	437.52	0.965	0.634	17-10-2018	66	16	58	104	-
36	MULA	552.30	548.09	0.609	0.404	17-10-2018	66	100	84	139	-
37	YELDARI	461.77	450.41	0.809	0.075	18-10-2018	9	13	45	78	-
38	GIRNA	398.07	391.71	0.524	0.248	17-10-2018	47	71	47	79	-
39	KHADAKVASLA	582.47	581.22	0.056	0.040	15-10-2018	71	100	73	78	8
*40	UPPER VAITARNA	603.50	603.21	0.331	0.323	17-10-2018	98	100	92	-	61
41	UPPER TAPI	214.00	214.00	0.255	0.255	17-10-2018	100	100	100	45	-
*42	PENCH (TOTALADOH)	490.00	473.56	1.091	0.182	17-10-2018	17	35	70	127	160
43	UPPER WARDHA	342.50	338.85	0.564	0.284	18-10-2018	50	100	93	70	-
44	BHATSA	142.07	138.48	0.942	0.846	17-10-2018	90	100	94	29.378	15
45	DHOM	747.70	745.54	0.331	0.282	17-10-2018	85	98	89	36.2	2
46	DUDHGANGA	646.00	645.09	0.664	0.648	17-10-2018	98	100	97	2.441	24
47	MANIKDOH (KUKADI)	711.25	707.01	0.288	0.216	17-10-2018	75	83	60	2.2	
48	BHANDARDARA CENTRAL REGION	744.91	743.64	0.304	0.279	17-10-2018	92	100	96	63.74	46
40	MATATILA	200.46	309.00	0.707	0.600	16 10 2018	95	99	90		20
	RIHAND	308.46 268.22	308.09 263.32	0.707 5.649	0.602 3.553	16-10-2018 18-10-2018	85 63	82 61	89 53	-	30 300
50	UTTRAKHAND	200.22	203.32	5.049	3.333	16-10-2016	03	01	55	-	300
*51	RAMGANGA	365.30	354.59	2.196	1.434	17-10-2018	65	62	71	1897	198
	TEHRI	830.00	827.25	2.615	2.508	18-10-2018	96	91	88	2351	1000
32	MADHYA PRADESH	030.00	021.23	2.013	2.300	10-10-2010	90	31	00	2331	1000
*53	GANDHI SAGAR	399.90	392.65	6.827	2.911	18-10-2018	43	68	58	220	115
	TAWA	355.40	352.84			18-10-2018	81	79	96	247	
	BARGI	422.76	421.10	3.180		18-10-2018	87	88	91	157	
	BANSAGAR	341.64	341.00	5.166		18-10-2018	95	72	73	488	
	INDIRA SAGAR	262.13	261.52			16-10-2018	94	40	78	2380	1000
	BARNA	348.55	344.44			18-10-2018	45	51	79	546	
	CHHATTIS GARH										
*59	MINIMATA BANGOI	359.66	355.60	3.046	2.224	15-10-2018	73	68	72	-	120
60	MAHANADI	348.70	344.54	0.767	0.418	10-10-2018	54	31	67	319	10
;	SOUTHERN REGION										
	A.P & TG	•									
*61	SRISAILAM	269.75	260.21	8.288	2.409	18-10-2018	29	70	66	0	770
	NAGARJUNA SAGAR	179.83	177.21	6.841	4.400	18-10-2018	64	43	63	895	
	ANDHRA PRADESH										
63	SOMASILA	100.58	94.52	1.994	1.174	18-10-2018	59	67	58	168	0
	<u>TELANGANA</u>										
64	SRIRAMSAGAR	332.54	328.18	2.300	1.245	18-10-2018	54	66	64	411	27
65	LOWER MANAIR	280.42	272.60	0.621	0.218	18-10-2018	35	34	59	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNMENT OF INDIA			WEE	K ENDING :-	18.10.2018		CENTRAL \	WATER COM	VIIVII55IU	VIN.
			OUDDEN'S				STORAGE A	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	752.50	1.163	1.163	16-10-2018	100	75	77	79	
*67	TUNGABHADRA	497.74	495.60	3.276	2.153	17-10-2018	66	77	76	529	72
68	GHATAPRABHA	662.95	660.41	1.391	1.203	17-10-2018	86	89	86	317	
69	BHADRA	657.76	657.20	1.785	1.720	17-10-2018	96	72	84	106	39
70	LINGANAMAKKI	554.43	553.17	4.294	3.907	17-10-2018	91	62	80	-	55
71	NARAYANPUR	492.25	491.02	0.863	0.588	18-10-2018	68	80	85	425	
72	MALAPRABHA(RENUKA)	633.83	631.00	0.972	0.644	17-10-2018	66	41	62	215	
73	KABINI(Sancherla Tank)	696.16	695.92	0.444	0.429	16-10-2018	97	91	49	85	
74	HEMAVATHY	890.63	887.28	0.927	0.740	16-10-2018	80	31	68	265	
75	HARANGI	871.42	869.42	0.220	0.171	16-10-2018	78	99	72	53	
76	SUPA	564.00	560.94	4.120	3.751	17-10-2018	91	61	66	-	
77	VANIVILAS SAGAR	652.28	632.91	0.802	0.026	17-10-2018	3	3	16	123	
*78	ALMATTI	519.60	517.33	3.105	2.163	18-10-2018	70	100	93	@	290
*79	GERUSOPPA	55.00	52.53	0.130	0.116	17-10-2018	89	83	78	83	240
	KERALA										
80	KALLADA(PARAPPAR)	115.82	112.10	0.507	0.405	16-10-2018	80	77	72	62	
*81	IDAMALAYAR	169.00	158.86	1.018	0.728	11-10-2018	72	74	74	33	75
*82	IDUKKI	732.43	727.56	1.460	1.192	15-10-2018	82	63	64	-	780
*83	KAKKI	981.46	974.86	0.447	0.342	15-10-2018	77	74	75	23	300
*84	PERIYAR	867.41	866.14	0.173	0.140	16-10-2018	81	42	39	84	140
85	MALAPMUZHA	115.06	113.68	0.224	0.191	18-10-2018	85	67	79	21	3
	TAMIL NADU										
86	LOWER BHAWANI	278.89	279.50	0.792	0.792	16-10-2018	100	55	42	105	8
*87	METTUR(STANLEY)	240.79	235.72	2.647	1.961	16-10-2018	74	67	44	122	360
88	VAIGAI	279.20	277.78	0.172	0.140	16-10-2018	81	40	33	61	6
89	PARAMBIKULAM	556.26	555.36	0.380	0.361	16-10-2018	95	51	75	101	
90	ALIYAR	320.04	317.34	0.095	0.078	16-10-2018	82	36	72	#	60
*91	SHOLAYAR	1002.79	1002.16	0.143	0.126	16-10-2018	88	76	83	-	95
	TOTAL FOR 91 RESERVOIRS			161.993	115.668						

Sd/-

69

71

71

\$ TOTAL CCA 342 TH. HA OF DVC SYSTEM

PERCENTAGE

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.