BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 11.10.2018)

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 **11.10.2018**, live storage available in these reservoirs is **118.304 BCM,** which is **73%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **108.515 BCM** and the average of last 10 years live storage was **115.738 BCM**. Thus, the live storage available in 91 reservoirs **as per 11.10.2018 Bulletin** is **109%** of the live storage of corresponding period of last year and **102%** 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 also **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 under CWC monitoring having total live storage capacity of 18.01 BCM. As per Reservoir Storage Bulletin dated **11.10.2018**, the total live storage available in these reservoirs is **16.49 BCM** which is **92%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **80%** and average storage of last ten years during corresponding period was **81%** 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 **11.10.2018**, the total live storage available in these reservoirs is **14.90 BCM** which is **79%** 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 **75%** of live storage capacity of these reservoirs. Thus, storage during current year is equal to the corresponding period of last year and 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 **11.10.2018**, the total live storage available in these reservoirs is **18.12 BCM** which is **58%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **71%** 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 **11.10.2018**, the total live storage available in these reservoirs is **32.78 BCM** which is **77%** 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 **11.10.2018**, the total live storage available in these reservoirs is **36.01 BCM** which is **70%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **58%** 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 and is also better 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, Godavari, and West Flowing Rivers of South and Cauvery & neighbouring EFRs. Close to Normal in 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 **44** and reservoirs having storage more than average of last ten years are **48.** 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 **6** and having storage less than or equal to 50% with reference to average of last ten years are **5.**

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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 11.10.2018**

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 **11.10.2018** is **118.304** BCM (**73** percent of the live storage capacity at FRL).The current year's storage is nearly **109** percent of last year's storage and **102** percent of the average of last ten years.

3 Region wise storage status:-

REGION (States), (Monitoring No. of Reservoirs)	**Filling position of 91 reservoirs w.r.t. FRL**								**Departure from Normal storage**	
	100%	**91%-99%**	**81%-90%**	**71%-80%**	**61%-70%**	**51%-60%**	**41%-50%**	**40% & below**		
NORTH (HP,Punjab & Rajasthan), (6 Resv.)	2	2	1	-	1	-	-	-	H.P.	9 %
									PUNJAB	51 %
									RAJASTHAN	5 %
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	-	3	5	3	1	-	3	-	JHARKHAND	-5 %
									ODISHA	9 %
									W. BENGAL	-32 %
									TRIPURA	50 %
WEST (Guj.& Mah.), (27 Resv.)	1	5	3	5	2	1	5	5	GUJARAT	-18 %
									MAH.	-12 %
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	4	2	1	2	1	2	-	U.P.	17 %
									UTTARAKHAND	1 %
									M.P.	8 %
									CHHATISGARH	-1 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	2	5	8	6	6	1	-	3	AP&TG	-23 %
									A,P	7 %
									TG	-14 %
									KARNATAKA	8 %
									KERALA	15 %
									T.N.	65 %
Status of 91 reservoirs	5	19	19	15	12	3	10	8		

4 Basin wise storage position:

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

Close to normal: Krishna and Mahanadi & Neighbouring EFRS

Deficient: Tapi, and Rivers of Kutch.

Highly deficient: sabarmati

5 Out of 91 reservoirs, **74** reservoirs reported more than 80% of normal storage & **17** reservoirs reported 80% or below of normal storage. Out of these **17** reservoirs **5** having storage upto 50% of normal storage.

Name of reservoir	**%**	**Name of reservoir**	**%**
VANIVILAS SAGAR	20		
YELDARI	21		
PENCH (TOTALADOH)	27		
SABARMATI(DHAROI)	37		
DANTIWADA	41		

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

6 Out of **37** reservoirs with significant(*) hydropower generation, the storage build up is less than or equal to normal in **15** reservoirs.

NOTE : **Normal:** Average of previous ten years, **Close to normal:** Where shortfall is up to 20% of the normal, **Deficient:** Where shortfall is more than 20% of the normal and up to 60% of the normal, **Highly deficient :** Where shortfall is more than 60% of the normal

WEEKLY REPORT - BASINWISE

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 11.10.2018

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	19.197	68.33%	20.074	71.45%	18.246	64.94%	**5.21**
INDUS	14.730	13.668	92.79%	11.788	80.03%	11.924	80.95%	**14.63**
NARMADA	21.608	17.067	78.98%	12.094	55.97%	14.860	68.77%	**14.85**
TAPI	7.394	3.369	45.56%	3.983	53.87%	5.830	78.85%	**-42.21**
MAHI	4.012	3.502	87.29%	3.527	87.91%	3.167	78.94%	**10.58**
SABARMATI	0.735	0.201	27.35%	0.735	100.00%	0.548	74.56%	**-63.32**
RIVERS OF KUTCH	0.887	0.282	31.79%	0.742	83.65%	0.531	59.86%	**-46.89**
GODAVARI	15.394	9.837	63.90%	8.971	58.28%	9.697	62.99%	**1.44**
KRISHNA	32.831	21.393	65.16%	21.066	64.16%	24.266	73.91%	**-11.84**
MAHANADI & NEIGHBOURING EFRS	13.181	10.147	76.98%	10.878	82.53%	10.954	83.10%	**-7.37**
CAUVERY& NEIGHBOURING EFRS	8.359	6.606	79.03%	4.770	57.06%	4.636	55.46%	**42.49**
WEST FLOWING RIVERS OF SOUTH	14.766	13.035	88.28%	9.887	66.96%	11.079	75.03%	**17.66**
TOTAL	**161.993**	**118.304**		**108.515**		**115.738**		
PERCENTAGE								**2.22**

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA — CENTRAL WATER COMMISSION

WEEK ENDING :- 11.10.2018

S. NO	NAME OF RESERVOIR	FRL (m)	CURRENT RESERVOIR LEVEL (m)	LIVE CAPACITY AT FRL (BCM)	CURRENT LIVE STORAGE (BCM)	DATE	STORAGE AS % OF LIVE CAPACITY AT FRL			BENEFITS	
							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	508.54	6.229	5.407	11-10-2018	87	85	86	676	1200
*2	PONG DAM	423.67	424.09	6.157	6.024	09-10-2018	98	80	83	-	360
	PUNJAB										
*3	THEIN	527.91	526.40	2.344	2.237	11-10-2018	95	66	63	348	600
	RAJASTHAN										
*4	MAHI BAJAJ SAGAR	280.75	280.90	1.711	1.711	10-10-2018	100	100	87	63	140
5	JHAKAM	359.50	359.65	0.132	0.132	10-10-2018	100	100	86	28	-
*6	RANA PRATAP SAGAR	352.81	350.40	1.436	0.983	11-10-2018	68	50	76	229	172
EASTERN REGION											
	JHARKHAND										
7	TENUGHAT	269.14	259.83	0.821	0.410	11-10-2018	50	48	47	-	-
8	MAITHON	146.3	145.42	0.471	0.392	11-10-2018	83	100	93	342	-
*9	PANCHET HILL	124.97	123.86	0.184	0.132	11-10-2018	72	100	91	$	80
10	KONAR	425.81	424.08	0.176	0.145	11-10-2018	82	84	90	$	-
11	TILAIYA	368.81	368.48	0.142	0.130	11-10-2018	92	85	85	$	4
	ODISHA										
*12	HIRAKUD	192.02	191.66	5.378	4.600	11-10-2018	86	91	92	153	307
*13	BALIMELA	462.08	461.68	2.676	2.599	11-10-2018	97	45	46	-	360
14	SALANADI	82.30	78.09	0.558	0.424	11-10-2018	76	41	50	42	-
*15	RENGALI	123.50	120.28	3.432	2.407	11-10-2018	70	100	87	3	200
*16	MACHKUND(JALPUT)	838.16	837.59	0.893	0.836	11-10-2018	94	94	87	-	115
*17	UPPER KOLAB	858.00	856.70	0.935	0.812	11-10-2018	87	58	57	89	320
*18	UPPER INDRAVATI	642.00	640.37	1.456	1.172	11-10-2018	80	60	74	128	600
	WEST BENGAL										
19	MAYURAKSHI	121.31	114.62	0.480	0.195	11-10-2018	41	99	65	227	-
20	KANGSABATI	134.14	126.95	0.914	0.373	11-10-2018	41	81	58	341	-
	TRIPURA										
21	GUMTI	93.55	92.65	0.312	0.270	09-10-2018	87	97	58	-	15
WESTERN REGION											
	GUJARAT										
*22	UKAI	105.16	97.11	6.615	2.866	11-10-2018	43	51	81	348	300
23	SABARMATI(DHAROI)	189.59	182.62	0.735	0.201	10-10-2018	27	100	75	95	1
*24	KADANA	127.7	126.87	1.472	1.106	10-10-2018	75	78	72	200	120
25	SHETRUNJI	55.53	52.62	0.300	0.123	10-10-2018	41	60	73	36	-
26	BHADAR	107.89	104.94	0.188	0.084	10-10-2018	45	94	69	27	-
27	DAMANAGANGA	79.86	78.15	0.502	0.400	11-10-2018	80	96	98	51	1
28	DANTIWADA	184.1	172.15	0.399	0.075	10-10-2018	19	97	46	45	-
29	PANAM	127.41	127.41	0.697	0.553	10-10-2018	79	77	72	36	2
*30	SARDAR SAROVAR	138.68	127.82	5.760	2.722	11-10-2018	47	56	27	2120	1450
31	KARJAN	115.25	113.11	0.523	0.453	11-10-2018	87	93	92	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA — CENTRAL WATER COMMISSION

WEEK ENDING :- 11.10.2018

S. NO	NAME OF RESERVOIR	FRL (m)	CURRENT RESERVOIR LEVEL (m)	LIVE CAPACITY AT FRL (BCM)	CURRENT LIVE STORAGE (BCM)	DATE	STORAGE AS % OF LIVE CAPACITY AT FRL			BENEFITS	
							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	459.77	2.171	0.837	11-10-2018	39	100	51	227	-
*33	KOYANA	657.90	657.00	2.652	2.398	10-10-2018	90	100	96	-	1920
34	BHIMA(UJJANI)	496.83	496.77	1.517	1.497	09-10-2018	99	100	82	125	12
35	ISAPUR	441.00	437.58	0.965	0.639	11-10-2018	66	15	58	104	-
36	MULA	552.30	548.22	0.609	0.410	11-10-2018	67	100	84	139	-
37	YELDARI	461.77	450.46	0.809	0.076	08-10-2018	9	12	44	78	-
38	GIRNA	398.07	391.74	0.524	0.248	11-10-2018	47	66	46	79	-
39	KHADAKVASLA	582.47	581.35	0.056	0.041	11-10-2018	73	96	75	78	8
*40	UPPER VAITARNA	603.50	603.24	0.331	0.324	10-10-2018	98	100	92	-	61
41	UPPER TAPI	214.00	214.00	0.255	0.255	11-10-2018	100	99	98	45	-
*42	PENCH (TOTALADOH)	490.00	474.71	1.091	0.216	11-10-2018	20	38	73	127	160
43	UPPER WARDHA	342.50	338.93	0.564	0.289	11-10-2018	51	100	94	70	-
44	BHATSA	142.07	139.20	0.942	0.864	10-10-2018	92	99	95	29.378	15
45	DHOM	747.70	745.67	0.331	0.285	09-10-2018	86	96	89	36.2	2
46	DUDHGANGA	646.00	645.20	0.664	0.652	11-10-2018	98	100	97	2.441	24
47	MANIKDOH (KUKADI)	711.25	707.05	0.288	0.216	11-10-2018	75	82	60	2.2	6
48	BHANDARDARA	744.91	744.33	0.304	0.294	11-10-2018	97	100	97	63.74	46
	CENTRAL REGION										
	UTTAR PRADESH										
49	MATATILA	308.46	308.46	0.707	0.641	10-10-2018	91	91	92	-	30
*50	RIHAND	268.22	263.56	5.649	3.654	11-10-2018	65	63	53	-	300
	UTTRAKHAND										
*51	RAMGANGA	365.30	354.36	2.196	1.420	11-10-2018	65	62	71	1897	198
*52	TEHRI	830.00	827.00	2.615	2.495	11-10-2018	95	92	89	2351	1000
	MADHYA PRADESH										
*53	GANDHI SAGAR	399.90	392.65	6.827	2.911	11-10-2018	43	69	53	220	115
54	TAWA	355.40	352.84	1.944	1.579	11-10-2018	81	78	95	247	-
*55	BARGI	422.76	421.40	3.180	2.842	11-10-2018	89	88	92	157	90
*56	BANSAGAR	341.64	341.19	5.166	5.046	11-10-2018	98	74	72	488	425
*57	INDIRA SAGAR	262.13	261.58	9.745	9.264	11-10-2018	95	39	79	2380	1000
58	BARNA	348.55	344.49	0.456	0.207	11-10-2018	45	51	79	546	-
	CHHATTIS GARH										
*59	MINIMATA BANGOI	359.66	356.08	3.046	2.298	11-10-2018	75	68	73	-	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	262.25	8.288	2.931	11-10-2018	35	70	68	0	770
*62	NAGARJUNA SAGAR	179.83	177.27	6.841	4.417	11-10-2018	65	12	58	895	810
	ANDHRA PRADESH										
63	SOMASILA	100.58	94.49	1.994	1.171	11-10-2018	59	43	55	168	0
	TELANGANA										
64	SRIRAMSAGAR	332.54	329.12	2.300	1.469	11-10-2018	64	44	68	411	27
65	LOWER MANAIR	280.42	271.81	0.621	0.188	11-10-2018	30	33	60	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA — CENTRAL WATER COMMISSION

WEEK ENDING :- 11.10.2018

S. NO	NAME OF RESERVOIR	FRL (m)	CURRENT RESERVOIR LEVEL (m)	LIVE CAPACITY AT FRL (BCM)	CURRENT LIVE STORAGE (BCM)	DATE	STORAGE AS % OF LIVE CAPACITY AT FRL			BENEFITS	
							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	10-10-2018	100	70	75	79	-
*67	TUNGABHADRA	497.74	496.14	3.276	2.319	11-10-2018	71	71	77	529	72
68	GHATAPRABHA	662.95	660.47	1.391	1.207	10-10-2018	87	87	92	317	-
69	BHADRA	657.76	657.40	1.785	1.743	10-10-2018	98	69	87	106	39
70	LINGANAMAKKI	554.43	553.41	4.294	3.981	11-10-2018	93	62	82	-	55
71	NARAYANPUR	492.25	491.17	0.863	0.605	11-10-2018	70	84	87	425	-
72	MALAPRABHA(RENUKA)	633.83	631.01	0.972	0.644	10-10-2018	66	39	66	215	-
73	KABINI(Sancherla Tank)	696.16	695.98	0.444	0.433	10-10-2018	98	86	51	85	-
74	HEMAVATHY	890.63	887.91	0.927	0.786	10-10-2018	85	32	70	265	-
75	HARANGI	871.42	869.77	0.220	0.178	10-10-2018	81	98	76	53	-
76	SUPA	564.00	561.33	4.120	3.796	11-10-2018	92	60	65	-	-
77	VANIVILAS SAGAR	652.28	632.60	0.802	0.022	10-10-2018	3	2	14	123	-
*78	ALMATTI	519.60	517.99	3.105	2.416	11-10-2018	78	100	92	@	290
*79	GERUSOPPA	55.00	46.95	0.130	0.087	11-10-2018	67	85	79	83	240
	KERALA										
80	KALLADA(PARAPPAR)	115.82	112.03	0.507	0.404	10-10-2018	80	76	71	62	-
*81	IDAMALAYAR	169.00	158.94	1.018	0.730	10-10-2018	72	73	74	33	75
*82	IDUKKI	732.43	727.62	1.460	1.196	10-10-2018	82	62	64	-	780
*83	KAKKI	981.46	975.12	0.447	0.346	10-10-2018	77	72	75	23	300
*84	PERIYAR	867.41	866.41	0.173	0.143	10-10-2018	83	43	40	84	140
85	MALAPMUZHA	115.06	113.64	0.224	0.190	11-10-2018	85	65	77	21	3
	TAMIL NADU										
86	LOWER BHAWANI	278.89	279.50	0.792	0.792	10-10-2018	100	58	43	105	8
*87	METTUR(STANLEY)	240.79	235.73	2.647	1.962	10-10-2018	74	64	46	122	360
88	VAIGAI	279.20	276.89	0.172	0.121	10-10-2018	70	35	33	61	6
89	PARAMBIKULAM	556.26	555.59	0.380	0.365	10-10-2018	96	50	75	101	-
90	ALIYAR	320.04	317.94	0.095	0.082	10-10-2018	86	37	73	#	60
*91	SHOLAYAR	1002.79	1002.52	0.143	0.127	10-10-2018	89	76	85	-	95
	TOTAL FOR 91 RESERVOIRS			**161.993**	**118.304**						
	PERCENTAGE						**73**	**67**	**71**		

Sd/-

Director

W. M. , CWC

* HYDEL POWER CAPACITY HAVING CAPACITY MORE THAN 60MW

$ TOTAL CCA 342 TH. HA OF DVC SYSTEM

TOTAL CCA 101 TH. HA OF PARAMBIKULAM & ALIYAR

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

† SABARMATI RESERVOIR IS SUPPLEMENTED WITH NARMADA WATER THROUGH PIPELINE.