

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY(WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 16.08.2018)

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 **16.08.2018**, live storage available in these reservoirs is **84.743 BCM**, which is **52%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **75.599 BCM** and the average of last 10 years live storage was **87.935 BCM**. Thus, the live storage available in 91 reservoirs **as per 16.08.2018 Bulletin** is **112%** of the live storage of corresponding period of last year and **96%** 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 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 **16.08.2018**, the total live storage available in these reservoirs is **9.76 BCM** which is **54%** 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 **69%** 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 reservoirs under CWC monitoring having total live storage capacity of 18.83 BCM. As per Reservoir Storage Bulletin dated **16.08.2018**, the total live storage available in these reservoirs is **9.87 BCM** which is **52%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **47%** and average storage of last ten years during corresponding period was **44%** 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.

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 **16.08.2018**, the total live storage available in these reservoirs is **11.05 BCM** which is **35%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **50%** and average storage of last ten years during corresponding period was **51%** 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 **16.08.2018**, the total live storage available in these reservoirs is **20.50 BCM** which is **48%** of total live storage capacity of these reservoirs. The storage during correspond period of last year was **52%** and average storage of last ten years during corresponding period was **57%** 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 **16.08.2018**, the total live storage available in these reservoirs is **33.57 BCM** which is **65%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **29%** and average storage of last ten years during corresponding period was **52%** 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 Krishna, Godavari, Mahanadi & Neighbouring East Flowing Rivers, West Flowing Rivers of South and Cauvery & neighbouring EFRs. Close to Normal in Ganga, Mahi and Rivers of Kutch and Deficient in Indus, Narmada, Tapi and Sabarmati and NIL in Highly Deficient.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **49** and reservoirs having storage more than average of last ten years are **52**. 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 **4**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **13** and having storage less than or equal to 50% with reference to average of last ten years are **13**.

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 16.08.2018

- 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 16.08.2018 is 84.743 BCM (52 percent of the live storage capacity at FRL). The current year's storage is nearly 112 percent of last year's storage and 96 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.)	-	-	-	-	1	3	2	-	H.P.	-24 %
									PUNJAB	0 %
									RAJASTHAN	-27 %
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	-	1	-	1	4	2	4	3	JHARKHAND	-13 %
									ODISHA	26 %
									W. BENGAL	-7 %
									TRIPURA	80 %
WEST (Guj.& Mah.), (27 Resv.)	2	3	2	-	2	1	6	11	GUJARAT	-60 %
									MAH.	-4 %
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	1	-	2	2	-	2	5	U.P.	-14 %
									UTTARAKHAND	-15 %
									M.P.	-20 %
									CHHATISGARH	13 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	6	12	3	3	-	1	1	5	AP&TG	-11 %
									A,P	-28 %
									TG	-42 %
									KARNATAKA	26 %
									KERALA	85 %
									T.N.	82 %
Status of 91 reservoirs	8	17	5	6	9	7	15	24		

4 Basin wise storage position:

Better than normal: Krishna, West Flowing Rivers of South, Mahanadi & Neighbouring EFRS and Cauvery & neighbouring EFRS .

Close to normal: Ganga , Godavari .

Deficient: Indus, Narmada, Rivers of Kutch and sabarmati.

Highly deficient: Tapi

- 5 Out of 91 reservoirs, 64 reservoirs reported more than 80% of normal storage & 27 reservoirs reported 80% or below of normal storage. Out of these 27 reservoirs 13 having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
YELDARI	0		
SARDAR SAROVAR	3		
VANIVILAS SAGAR	4		
SHETRUNJI	9		
NAGARJUNA SAGAR	31		
PENCH (TOTALADOH)	34		
UKAI	35		
KONAR	37		
BARNA	39		
LOWER MANAIR	43		
SABARMATI(DHAROI)	45		
TILAIYA	45		
MATATILA	46		

14 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
5	6	3

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

16 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

WEEK ENDING :- 16.08.2018

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	12.037	42.84%	17.245	61.38%	14.464	51.48%	-16.78
INDUS	14.730	8.074	54.81%	11.904	80.81%	10.161	68.98%	-20.54
NARMADA	21.608	8.449	39.10%	7.373	34.12%	11.814	54.67%	-28.48
TAPI	7.394	1.621	21.92%	2.957	39.99%	4.095	55.38%	-60.42
MAHI	4.012	1.820	45.36%	3.141	78.29%	2.540	63.31%	-28.35
SABARMATI	0.735	0.165	22.45%	0.682	92.79%	0.370	50.34%	-55.41
RIVERS OF KUTCH	0.887	0.183	20.63%	0.601	67.76%	0.335	37.77%	-45.37
GODAVARI	15.394	5.972	38.79%	4.759	30.91%	6.179	40.14%	-3.35
KRISHNA	32.831	19.034	57.98%	11.455	34.89%	18.300	55.74%	4.01
MAHANADI & NEIGHBOURING EFRS	13.181	7.579	57.50%	6.769	51.35%	6.599	50.06%	14.85
CAUVERY & NEIGHBOURING EFRS	8.359	6.490	77.64%	1.954	23.38%	4.323	51.72%	50.13
WEST FLOWING RIVERS OF SOUTH	14.766	13.319	90.20%	6.759	45.77%	8.755	59.29%	52.13
TOTAL	161.993	84.743		75.599		87.935		
PERCENTAGE								-3.63

WEEK ENDING :- 16.08.2018

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	492.28	6.229	3.170	16-08-2018	51	79	73	676	1200
*2	PONG DAM	423.67	412.23	6.157	3.427	16-08-2018	56	82	67	-	360

PUNJAB

*3	THEIN	527.91	516.28	2.344	1.477	16-08-2018	63	82	63	348	600
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RAJASTHAN

*4	MAHI BAJAJ SAGAR	280.75	274.35	1.711	0.986	16-08-2018	58	85	71	63	140
5	JHAKAM	359.50	350.40	0.132	0.057	16-08-2018	43	100	75	28	-
*6	RANA PRATAP SAGAR	352.81	348.22	1.436	0.644	16-08-2018	45	54	70	229	172

EASTERN REGION**JHARKHAND**

7	TENUGHAT	269.14	259.08	0.821	0.381	15-08-2018	46	44	43	-	-
8	MAITHON	146.30	143.85	0.471	0.313	15-08-2018	66	79	72	342	-
*9	PANCHET HILL	124.97	123.95	0.184	0.136	15-08-2018	74	96	83	\$	80
10	KONAR	425.81	416.57	0.176	0.043	15-08-2018	24	58	66	\$	-
11	TILAIYA	368.81	365.48	0.142	0.040	15-08-2018	28	99	62	\$	4

ODISHA

*12	HIRAKUD	192.02	187.69	5.378	2.394	16-08-2018	45	39	42	153	307
*13	BALIMELA	462.08	453.24	2.676	1.335	16-08-2018	50	30	29	-	360
14	SALANADI	82.30	76.48	0.558	0.379	16-08-2018	68	35	34	42	-
*15	RENGALI	123.50	118.73	3.432	1.896	16-08-2018	55	61	45	3	200
*16	MACHKUND(JALPUT)	838.16	833.81	0.893	0.552	16-08-2018	62	43	54	-	115
*17	UPPER KOLAB	858.00	852.01	0.935	0.427	16-08-2018	46	30	33	89	320
*18	UPPER INDRAVATI	642.00	637.74	1.456	1.013	16-08-2018	70	41	51	128	600

WEST BENGAL

19	MAYURAKSHI	121.31	114.16	0.480	0.181	15-08-2018	38	82	54	227	-
20	KANGSABATI	134.14	128.82	0.914	0.492	15-08-2018	54	67	51	341	-

TRIPURA

21	GUMTI	93.55	93.10	0.312	0.291	16-08-2018	93	97	52	-	15
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WESTERN REGION**GUJARAT**

*22	UKAI	105.16	91.55	6.615	1.358	16-08-2018	21	39	59	348	300
23	SABARMATI(DHAROI)	189.59	181.82	0.735	0.165	16-08-2018	22	93	50	95	1
*24	KADANA	127.70	118.67	1.472	0.449	16-08-2018	31	72	56	200	120
25	SHETRUNJI	55.53	52.82	0.300	0.013	16-08-2018	4	44	47	36	-
26	BHADAR	107.89	105.28	0.188	0.094	16-08-2018	50	56	46	27	-
27	DAMANAGANGA	79.86	75.85	0.502	0.307	16-08-2018	61	57	49	51	1
28	DANTIWADA	184.10	172.35	0.399	0.076	16-08-2018	19	91	27	45	-
29	PANAM	127.41	123.60	0.697	0.328	16-08-2018	47	70	58	36	2
*30	SARDAR SAROVAR	138.68	110.98	5.760	0.037	16-08-2018	1	28	26	2120	1450
31	KARJAN	115.25	108.68	0.523	0.341	16-08-2018	65	70	60	51	3

MAHARASHTRA

32	JAYAKWADI(PAITHON)	463.91	458.79	2.171	0.597	16-08-2018	27	50	26	227	-
*33	KOYANA	657.90	658.67	2.652	2.652	16-08-2018	100	89	91	-	1920
34	BHIMA(UJJANI)	496.83	493.84	1.517	0.633	16-08-2018	42	44	49	125	12
35	ISAPUR	441.00	432.87	0.965	0.331	16-08-2018	34	6	45	104	-

36	MULA	552.30	546.71	0.609	0.348	16-08-2018	57	65	62	139	-
37	YELDARI	461.77	447.70	0.809	0.000	16-08-2018	0	3	21	78	-
38	GIRNA	398.07	388.66	0.524	0.157	16-08-2018	30	52	23	79	-
39	KHADAKVASLA	582.47	582.47	0.056	0.056	16-08-2018	100	84	71	78	8
*40	UPPER VAITARNA	603.50	602.30	0.331	0.292	16-08-2018	88	89	80	-	61
41	UPPER TAPI	214.00	211.09	0.255	0.106	16-08-2018	42	34	40	45	-
*42	PENCH (TOTALADOH)	490.00	474.55	1.091	0.211	16-08-2018	19	10	56	127	160
43	UPPER WARDHA	342.50	338.41	0.564	0.257	16-08-2018	46	43	71	70	-
44	BHATSA	142.07	138.31	0.942	0.841	16-08-2018	89	92	81	29.378	15
45	DHOM	747.70	746.79	0.331	0.310	16-08-2018	94	70	76	36.2	2
46	DUDHGANGA	646.00	644.86	0.664	0.640	16-08-2018	96	88	88	2.441	24
47	MANIKDOH (KUKADI)	711.25	702.00	0.288	0.145	16-08-2018	50	58	44	2.2	6
48	BHANDARDARA	744.91	744.65	0.304	0.302	14-08-2018	99	95	90	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	304.07	0.707	0.230	14-08-2018	33	19	71	-	30
*50	RIHAND	268.22	259.81	5.649	2.167	16-08-2018	38	65	40	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	337.73	2.196	0.623	16-08-2018	28	33	49	1897	198
*52	TEHRI	830.00	808.50	2.615	1.776	16-08-2018	68	68	66	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	388.57	6.827	1.567	16-08-2018	23	60	40	220	115
54	TAWA	355.40	348.14	1.944	0.938	16-08-2018	48	47	83	247	-
*55	BARGI	422.76	422.10	3.180	3.033	16-08-2018	95	60	73	157	90
*56	BANSAGAR	341.64	336.85	5.166	3.153	16-08-2018	61	70	62	488	425
*57	INDIRA SAGAR	262.13	254.34	9.745	3.975	16-08-2018	41	24	59	2380	1000
58	BARNA	348.55	342.59	0.456	0.125	16-08-2018	27	49	71	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	356.21	3.046	2.318	14-08-2018	76	72	69	-	120
60	MAHANADI	348.70	346.74	0.767	0.592	16-08-2018	77	22	59	319	10
SOUTHERN REGION											
A.P & TG											
*61	SRISAILAM	269.75	265.36	8.288	3.984	13-08-2018	48	6	40	0	770
*62	NAGARJUNA SAGAR	179.83	158.77	6.841	0.545	13-08-2018	8	0	26	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	83.98	1.994	0.295	13-08-2018	15	10	20	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	324.09	2.300	0.502	16-08-2018	22	11	35	411	27
65	LOWER MANAIR	280.42	268.67	0.621	0.097	16-08-2018	16	33	36	199	60
KARNATAKA											
66	KRISHNARAJA SAGRA	752.50	751.48	1.163	1.148	16-08-2018	99	31	69	79	-
*67	TUNGABHADRA	497.74	497.09	3.276	2.630	16-08-2018	80	44	75	529	72
68	GHATAPRABHA	662.95	662.94	1.391	1.387	16-08-2018	100	58	85	317	-
69	BHADRA	657.76	657.08	1.785	1.707	16-08-2018	96	41	79	106	39
70	LINGANAMAKKI	554.43	553.91	4.294	4.137	16-08-2018	96	42	63	-	55
71	NARAYANPUR	492.25	492.24	0.863	0.739	13-08-2018	86	66	78	425	-
72	MALAPRABHA(RENUKA)	633.83	629.44	0.972	0.498	16-08-2018	51	26	51	215	-
73	KABINI(Sancherla Tank)	696.16	694.36	0.444	0.352	16-08-2018	79	43	60	85	-
74	HEMAVATHY	890.63	889.80	0.927	0.927	16-08-2018	100	46	82	265	-
75	HARANGI	871.42	870.70	0.220	0.206	16-08-2018	94	88	95	53	-
76	SUPA	564.00	557.50	4.120	3.363	16-08-2018	82	50	55	-	-
77	VANIVILAS SAGAR	652.28	631.20	0.802	0.003	16-08-2018	0	2	10	123	-
*78	ALMATTI	519.60	519.60	3.105	3.105	13-08-2018	100	100	88	@	290
*79	GERUSOPPA	55.00	50.79	0.130	0.106	16-08-2018	82	84	78	83	240
KERALA											

80 KALLADA(PARAPPAR)	115.82	115.72	0.507	0.485	16-08-2018	96	35	52	62	-
*81 IDAMALAYAR	169.00	168.71	1.018	1.009	14-08-2018	99	37	54	33	75
*82 IDUKKI	732.43	730.57	1.460	1.356	14-08-2018	93	30	48	-	780
*83 KAKKI	981.46	980.91	0.447	0.436	14-08-2018	98	30	57	23	300
*84 PERIYAR	867.41	868.91	0.173	0.173	16-08-2018	100	14	46	84	140
85 MALAPMUZHA	115.06	114.60	0.224	0.210	15-08-2018	94	29	60	21	3
TAMIL NADU										
86 LOWER BHAWANI	278.89	279.43	0.792	0.792	16-08-2018	100	19	51	105	8
*87 METTUR(STANLEY)	240.79	240.89	2.647	2.647	16-08-2018	100	16	54	122	360
88 VAIGAI	279.20	276.99	0.172	0.123	16-08-2018	72	6	28	61	6
89 PARAMBIKULAM	556.26	556.15	0.380	0.377	16-08-2018	99	27	66	101	-
90 ALIYAR	320.04	319.67	0.095	0.093	16-08-2018	98	9	65	#	60
*91 SHOLAYAR	1002.79	1003.78	0.143	0.134	16-08-2018	94	12	74	-	95
TOTAL FOR 91 RESERVOIRS			161.993	84.743						
PERCENTAGE						52	47	54		

* 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.

Sd/-
Director
W. M. , CWC