

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 31.05.2018)

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 **31.05.2018**, live storage available in these reservoirs is **27.659 BCM**, which is **17%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **33.674 BCM** and the average of last 10 years live storage was **31.108 BCM**. Thus, the live storage available in 91 reservoirs **as per 31.05.2018 Bulletin** is **82%** of the live storage of corresponding period of last year and **89%** 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 **31.05.2018**, the total live storage available in these reservoirs is **2.55 BCM** which is **14%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **25%** and average storage of last ten years during corresponding period was **26%** 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 **31.05.2018**, the total live storage available in these reservoirs is **4.53 BCM** which is **24%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **27%** and average storage of last ten years during corresponding period was **18%** 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 **31.05.2018**, the total live storage available in these reservoirs is **4.62 BCM** which is **15%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **21%** 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 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 **31.05.2018**, the total live storage available in these reservoirs is **9.65 BCM** which is **23%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **33%** 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 less than the storage of last year but is 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 **31.05.2018**, the total live storage available in these reservoirs is **6.31 BCM** which is **12%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **8%** and average storage of last ten years during corresponding period was **16%** 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, Narmada, Mahanadi & Neighbouring East Flowing Rivers, Rivers of Kutch and West Flowing Rivers of South. Close to Normal in Sabarmati and Godavari. Deficient in Tapi, Krishna and Cauvery & neighbouring EFRs and in Highly Deficient is Indus basin .
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **48** and reservoirs having storage more than average of last ten years are **39**. The numbers of reservoirs having storage less than 20% with respect to last year is **6** and having storage less than 20% with reference to average of last ten years is **10**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **18** and having storage less than or equal to 50% with reference to average of last ten years are **23**.

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 31.05.2018

- 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 **31.05.2018** is **27.659** BCM (**17** percent of the live storage capacity at FRL).The current year's storage is nearly **82** percent of last year's storage and **89** percent of the average of last ten years.

3 Region wise storage status:-

REGION (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.)	-	-	-	-	-	-	-	6	H.P.	-67 %	
									PUNJAB	-43 %	
									RAJASTHAN	10 %	
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	-	-	-	1	-	-	2	12	JHARKHAND	-2 %	
									ODISHA	26 %	
									W. BENGAL	167 %	
									TRIPURA	274 %	
WEST (Guj.& Mah.), (27 Resv.)	-	-	-	-	-	-	2	25	GUJARAT	-42 %	
									MAH.	1 %	
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	-	1	2	9	U.P.	-25 %	
									UTTARAKHAND	-53 %	
									M.P.	29 %	
									CHHATISGARH	8 %	
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	1	-	1	-	-	29	AP&TG	-61 %	
									A,P	-47 %	
									TG	-24 %	
									KARNATAKA	5 %	
									KERALA	43 %	
									T.N.	-62 %	
Status of 91 reservoirs	0	0	1	1	1	1	6	81			

4 Basin wise storage position:

Better than normal: Ganga,Mahi,Narmada, Mahanadi & Neighbouring EFRS, Rivers of Kutch and West Flowing Rivers of South .

Close to normal: Sabarmati and Godavari, .

Deficient: Tapi, Krishna and Cauvery & neighbouring EFRS.

Highly deficient: Indus

- 5 Out of 91 reservoirs, **55** reservoirs reported more than 80% of normal storage & **36** reservoirs reported 80% or below of normal storage. Out of these **36** reservoirs **23** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0	PENCH (TOTALADOH)	37
SARDAR SAROVAR	0	MATATILA	38
YELDARI	0	PONG DAM	44
ISAPUR	0	RAMGANGA	45
ALIYAR	0	TAWA	47
BHIMA(UJJANI)	0	UKAI	48
NAGARJUNA SAGAR	8		
VANIVILAS SAGAR	8		
UPPER TAPI	10		
HARANGI	11		
GOBIND SAGAR(BHAKR	24		
PARAMBIKULAM	26		
BHADRA	28		
METTUR(STANLEY)	33		
BARNA	36		
TUNGABHADRA	36		
TILAIYA	36		

13 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
5	2	6

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

24 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 :- 31.05.2018

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	6.206	22.09%	9.973	35.50%	6.116	21.77%	1.47
INDUS	14.730	1.504	10.21%	3.527	23.94%	3.820	25.93%	-60.63
NARMADA	21.608	3.697	17.11%	4.701	21.76%	3.073	14.22%	20.31
TAPI	7.394	0.855	11.56%	2.287	30.93%	1.708	23.10%	-49.94
MAHI	4.012	1.439	35.87%	1.585	39.51%	1.359	33.87%	5.89
SABARMATI	0.735	0.103	14.01%	0.165	22.45%	0.125	17.01%	-17.60
RIVERS OF KUTCH	0.887	0.135	15.22%	0.045	5.07%	0.056	6.31%	141.07
GODAVARI	15.394	2.146	13.94%	2.701	17.55%	2.417	15.70%	-11.21
KRISHNA	32.831	2.704	8.24%	1.104	3.36%	4.301	13.10%	-37.13
MAHANADI & NEIGHBOURING EFRS	13.181	4.071	30.89%	4.321	32.78%	3.101	23.53%	31.28
CAUVERY& NEIGHBOURING EFRS	8.359	1.129	13.51%	0.576	6.89%	2.068	24.74%	-45.41
WEST FLOWING RIVERS OF SOUTH	14.766	3.670	24.85%	2.689	18.21%	2.964	20.07%	23.82
TOTAL	161.993	27.659		33.674		31.108		
PERCENTAGE								-11.09

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 31.05.2018

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											
<u>HIMACHAL PRADESH</u>											
*1	GOBIND SAGAR(BHAKRA)	512.06	454.69	6.229	0.359	31-05-2018	6	22	24	676	1200
*2	PONG DAM	423.67	391.99	6.157	0.562	31-05-2018	9	13	21	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	499.05	2.344	0.583	31-05-2018	25	58	44	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	269.35	1.711	0.542	31-05-2018	32	33	23	63	140
5	JHAKAM	359.50	346.75	0.132	0.038	31-05-2018	29	28	17	28	-
*6	RANA PRATAP SAGAR	352.81	347.16	1.436	0.462	31-05-2018	32	26	37	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	257.24	0.821	0.318	31-05-2018	39	43	31	-	-
8	MAITHON	146.3	139.03	0.471	0.127	31-05-2018	27	25	27	342	-
*9	PANCHET HILL	124.97	121.03	0.184	0.036	31-05-2018	20	45	39	\$	80
10	KONAR	425.81	415.66	0.176	0.035	31-05-2018	20	18	31	\$	-
11	TILAIYA	368.81	363.90	0.142	0.008	31-05-2018	6	25	15	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	184.88	5.378	1.307	30-05-2018	24	22	18	153	307
*13	BALIMELA	462.08	441.90	2.676	0.215	30-05-2018	8	25	13	-	360
14	SALANADI	82.30	70.80	0.558	0.233	31-05-2018	42	29	24	42	-
*15	RENGALI	123.50	114.06	3.432	0.769	30-05-2018	22	32	10	3	200
*16	MACHKUND(JALPUT)	838.16	826.92	0.893	0.216	30-05-2018	24	16	33	-	115
*17	UPPER KOLAB	858.00	847.84	0.935	0.171	30-05-2018	18	27	16	89	320
*18	UPPER INDRAVATI	642.00	628.99	1.456	0.267	30-05-2018	18	25	18	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	113.83	0.480	0.171	31-05-2018	36	23	18	227	-
20	KANGSABATI	134.14	127.86	0.914	0.422	31-05-2018	46	26	15	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	91.80	0.312	0.232	29-05-2018	74	51	20	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	88.30	6.615	0.769	30-05-2018	12	32	24	348	300
23	SABARMATI(DHAROI)	189.59	180.24	0.735	0.103	31-05-2018	14	22	17	95	1
*24	KADANA	127.7	121.18	1.472	0.612	31-05-2018	42	53	47	200	120
25	SHETRUNJI	55.53	49.42	0.300	0.042	31-05-2018	14	14	9	36	-
26	BHADAR	107.89	101.96	0.188	0.027	31-05-2018	14	1	13	27	-
27	DAMANAGANGA	79.86	69.30	0.502	0.112	30-05-2018	22	13	17	51	1
28	DANTIWADA	184.1	171.50	0.399	0.066	31-05-2018	17	1	1	45	-
29	PANAM	127.41	121.75	0.697	0.247	31-05-2018	35	30	38	36	2
*30	SARDAR SAROVAR	138.68	105.91	5.760	0.000	30-05-2018	0	20	13	2120	1450
31	KARJAN	115.25	101.80	0.523	0.201	30-05-2018	38	26	35	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 31.05.2018

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	458.72	2.171	0.581	30-05-2018	27	19	11	227	-
*33	KOYANA	657.90	632.84	2.652	0.701	31-05-2018	26	9	24	-	1920
34	BHIMA(UJJANI)	496.83	490.58	1.517	0.000	31-05-2018	0	0	3	125	12
35	ISAPUR	441.00	423.36	0.965	0.000	31-05-2018	0	4	21	104	-
36	MULA	552.30	536.43	0.609	0.045	31-05-2018	7	3	9	139	-
37	YELDARI	461.77	447.16	0.809	0.000	31-05-2018	0	1	9	78	-
38	GIRNA	398.07	385.79	0.524	0.081	31-05-2018	15	24	11	79	-
39	KHADAKVASLA	582.47	579.97	0.056	0.025	31-05-2018	45	36	36	78	8
*40	UPPER VAITARNA	603.50	594.83	0.331	0.088	31-05-2018	27	30	31	-	61
41	UPPER TAPI	214.00	207.89	0.255	0.005	31-05-2018	2	9	19	45	-
*42	PENCH (TOTALADOH)	490.00	469.29	1.091	0.081	31-05-2018	7	5	20	127	160
43	UPPER WARDHA	342.50	337.37	0.564	0.198	31-05-2018	35	36	30	70	-
44	BHATSA	142.07	112.78	0.942	0.332	31-05-2018	35	37	32	29.378	15
45	DHOM	747.70	731.86	0.331	0.057	31-05-2018	17	16	21	36.2	2
46	DUDHGANGA	646.00	625.08	0.664	0.152	31-05-2018	23	15	21	2.441	24
47	MANIKDOH (KUKADI)	711.25	686.86	0.288	0.015	31-05-2018	5	3	3	2.2	6
48	BHANDARDARA	744.91	725.20	0.304	0.082	31-05-2018	27	17	13	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	301.36	0.707	0.074	30-05-2018	10	9	28	-	30
*50	RIHAND	268.22	255.30	5.649	0.643	31-05-2018	11	31	13	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	326.99	2.196	0.251	30-05-2018	11	0	25	1897	198
*52	TEHRI	830.00	743.05	2.615	0.049	31-05-2018	2	3	3	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	387.02	6.827	1.154	31-05-2018	17	56	23	220	115
54	TAWA	355.40	338.18	1.944	0.175	31-05-2018	9	23	19	247	-
*55	BARGI	422.76	415.35	3.180	1.416	31-05-2018	45	26	18	157	90
*56	BANSAGAR	341.64	334.03	5.166	2.224	31-05-2018	43	53	31	488	425
*57	INDIRA SAGAR	262.13	249.25	9.745	1.880	31-05-2018	19	21	11	2380	1000
58	BARNA	348.55	339.17	0.456	0.025	31-05-2018	5	28	15	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	350.85	3.046	1.556	31-05-2018	51	58	47	-	120
60	MAHANADI	348.70	341.10	0.767	0.206	30-05-2018	27	13	25	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	243.75	8.288	0.720	31-05-2018	9	5	11	0	770
*62	NAGARJUNA SAGAR	179.83	156.06	6.841	0.097	31-05-2018	1	0	17	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	84.97	1.994	0.348	31-05-2018	17	11	33	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	320.25	2.300	0.187	31-05-2018	8	11	10	411	27
65	LOWER MANAIR	280.42	268.93	0.621	0.103	31-05-2018	17	35	23	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 31.05.2018

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							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
<u>KARNATAKA</u>											
66	KRISHNARAJA SAGRA	752.50	737.26	1.163	0.121	31-05-2018	10	5	11	79	-
*67	TUNGABHADRA	497.74	481.40	3.276	0.111	31-05-2018	3	1	9	529	72
68	GHATAPRABHA	662.95	636.54	1.391	0.123	30-05-2018	9	3	4	317	-
69	BHADRA	657.76	635.02	1.785	0.101	30-05-2018	6	0	20	106	39
70	LINGANAMAKKI	554.43	534.48	4.294	0.605	31-05-2018	14	9	15	-	55
71	NARAYANPUR	492.25	487.76	0.863	0.267	31-05-2018	31	14	28	425	-
72	MALAPRABHA(RENUKA)	633.83	621.39	0.972	0.052	30-05-2018	5	2	6	215	-
73	KABINI(Sancherla Tank)	696.16	688.18	0.444	0.076	31-05-2018	17	0	7	85	-
74	HEMAVATHY	890.63	873.25	0.927	0.105	31-05-2018	11	4	8	265	-
75	HARANGI	871.42	848.18	0.220	0.004	31-05-2018	2	15	16	53	-
76	SUPA	564.00	534.32	4.120	1.365	31-05-2018	33	28	21	-	-
77	VANIVILAS SAGAR	652.28	631.55	0.802	0.008	31-05-2018	1	2	12	123	-
*78	ALMATTI	519.60	508.14	3.105	0.275	30-05-2018	9	0	6	@	290
*79	GERUSOPPA	55.00	51.76	0.130	0.111	31-05-2018	85	82	82	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	107.68	0.507	0.317	31-05-2018	63	10	21	62	-
*81	IDAMALAYAR	169.00	130.14	1.018	0.149	31-05-2018	15	17	16	33	75
*82	IDUKKI	732.43	708.17	1.460	0.369	31-05-2018	25	11	18	-	780
*83	KAKKI	981.46	952.12	0.447	0.123	31-05-2018	28	13	21	23	300
*84	PERIYAR	867.41	860.77	0.173	0.037	31-05-2018	21	3	27	84	140
85	MALAPMUZHA	115.06	103.02	0.224	0.035	31-05-2018	16	8	19	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	264.64	0.792	0.149	31-05-2018	19	9	25	105	8
*87	METTUR(STANLEY)	240.79	215.60	2.647	0.305	31-05-2018	12	5	35	122	360
88	VAIGAI	279.20	268.83	0.172	0.021	31-05-2018	12	5	22	61	6
89	PARAMBIKULAM	556.26	536.47	0.380	0.027	31-05-2018	7	5	27	101	-
90	ALIYAR	320.04	300.99	0.095	0.000	31-05-2018	0	23	46	#	60
*91	SHOLAYAR	1002.79	965.46	0.143	0.000	31-05-2018	0	0	6	-	95
TOTAL FOR 91 RESERVOIRS				161.993	27.659						
PERCENTAGE							17	21	19		

* 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