

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 15.03.2018)

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 **15.03.2018**, live storage available in these reservoirs is **51.389 BCM**, which is **32%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **58.450 BCM** and the average of last 10 years live storage was **56.939 BCM**. Thus, the live storage available in 91 reservoirs **as per 15.03.2018 Bulletin** is **88%** of the live storage of corresponding period of last year and **90%** 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 **15.03.2018**, the total live storage available in these reservoirs is **4.59 BCM** which is **25%** 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 **30%** 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 reservoirs under CWC monitoring having total live storage capacity of 18.83 BCM. As per Reservoir Storage Bulletin dated **15.03.2018**, the total live storage available in these reservoirs is **10.04 BCM** which is **53%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **59%** and average storage of last ten years during corresponding period was **47%** 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 **15.03.2018**, the total live storage available in these reservoirs is **11.06 BCM** which is **35%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **41%** and average storage of last ten years during corresponding period was **39%** 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 **15.03.2018**, the total live storage available in these reservoirs is **13.85 BCM** which is **33%** 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 **36%** 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 **15.03.2018**, the total live storage available in these reservoirs is **11.85 BCM** which is **23%** 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 **30%** 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 Mahi, Mahanadi & Neighbouring East Flowing Rivers, Rivers of Kutch and West Flowing Rivers of South. Close to Normal in Ganga, Narmada Godavari and Krishna. Deficient in, Indus, Tapi Sabarmati, and Cauvery & neighbouring EFRs basin and NIL in Highly Deficient.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **50** and reservoirs having storage more than average of last ten years are **42**. 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 **5**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **12** and having storage less than or equal to 50% with reference to average of last ten years are **18**.

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 15.03.2018

- 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 **15.03.2018** is **51.389** BCM (**32** percent of the live storage capacity at FRL).The current year's storage is nearly **88** percent of last year's storage and **90** 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.)	-	-	-	-	-	-	1	5	H.P.	-18 %	
									PUNJAB	-38 %	
									RAJASTHAN	16 %	
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	1	-	-	2	3	2	4	3	JHARKHAND	15 %	
									ODISHA	6 %	
									W. BENGAL	116 %	
									TRIPURA	235 %	
WEST (Guj.& Mah.), (27 Resv.)	-	-	1	3	1	8	4	10	GUJARAT	-37 %	
									MAH.	22 %	
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	1	2	1	8	U.P.	-23 %	
									UTTARAKHAND	-36 %	
									M.P.	-5 %	
									CHHATISGARH	0 %	
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	2	-	1	-	4	24	AP&TG	-46 %	
									A,P	-52 %	
									TG	-3 %	
									KARNATAKA	-10 %	
									KERALA	18 %	
									T.N.	-63 %	
Status of 91 reservoirs	1	0	3	5	6	12	14	50			

4 Basin wise storage position:

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

Close to normal: Ganga,Narmada,Godavari,Krishna

Deficient: Indus, Tapi, Sabarmati and Cauvery & neighbouring EFRS.

Highly deficient: NIL

- 5 Out of 91 reservoirs, **57** reservoirs reported more than 80% of normal storage & **34** reservoirs reported 80% or below of normal storage. Out of these **34** reservoirs **18** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0	LOWER BHAWANI	48
SARDAR SAROVAR	0		
ALIYAR	0		
VANIVILAS SAGAR	10		
ISAPUR	13		
YELDARI	21		
PARAMBIKULAM	23		
VAIGAI	36		
TAWA	37		
METTUR(STANLEY)	38		
BALIMELA	39		
PENCH (TOTALADOH)	44		
TUNGABHADRA	44		
RAMGANGA	46		
TILAIYA	47		
BARNA	47		
SOMASILA	48		

16 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
7	4	5

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

25 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 :- 15.03.2018

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	9.357	33.30%	14.431	51.36%	10.092	35.92%	-7.28
INDUS	14.730	3.386	22.99%	3.142	21.33%	4.292	29.14%	-21.11
NARMADA	21.608	5.123	23.71%	7.592	35.14%	6.187	28.63%	-17.20
TAPI	7.394	2.175	29.42%	4.419	59.76%	3.516	47.55%	-38.14
MAHI	4.012	1.844	45.96%	2.058	51.30%	1.745	43.49%	5.67
SABARMATI	0.735	0.152	20.68%	0.283	38.50%	0.201	27.35%	-24.38
RIVERS OF KUTCH	0.887	0.268	30.21%	0.108	12.18%	0.184	20.74%	45.65
GODAVARI	15.394	5.226	33.95%	6.852	44.51%	5.510	35.79%	-5.15
KRISHNA	32.831	7.843	23.89%	4.569	13.92%	8.830	26.90%	-11.18
MAHANADI & NEIGHBOURING EFRS	13.181	8.033	60.94%	8.632	65.49%	6.998	53.09%	14.79
CAUVERY& NEIGHBOURING EFRS	8.359	1.526	18.26%	1.021	12.21%	2.946	35.24%	-48.20
WEST FLOWING RIVERS OF SOUTH	14.766	6.456	43.72%	5.343	36.18%	6.438	43.60%	0.28
TOTAL	161.993	51.389		58.450		56.939		
PERCENTAGE								-9.75

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 15.03.2018

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	478.94	6.229	1.814	15-03-2018	29	18	30	676	1200
*2	PONG DAM	423.67	397.43	6.157	1.122	15-03-2018	18	19	27	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	495.71	2.344	0.450	15-03-2018	19	37	31	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	271.95	1.711	0.764	15-03-2018	45	51	34	63	140
5	JHAKAM	359.50	347.35	0.132	0.041	15-03-2018	31	30	17	28	-
*6	RANA PRATAP SAGAR	352.81	346.71	1.436	0.398	15-03-2018	28	22	30	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	258.84	0.821	0.372	15-03-2018	45	49	40	-	-
8	MAITHON	146.3	147.49	0.471	0.471	15-03-2018	100	100	66	342	-
*9	PANCHET HILL	124.97	123.55	0.184	0.119	15-03-2018	65	100	67	\$	80
10	KONAR	425.81	418.19	0.176	0.060	15-03-2018	34	44	57	\$	-
11	TILAIYA	368.81	364.60	0.142	0.021	15-03-2018	15	33	32	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	188.81	5.378	2.927	13-03-2018	54	57	55	153	307
*13	BALIMELA	462.08	444.46	2.676	0.418	15-03-2018	16	57	40	-	360
14	SALANADI	82.30	70.54	0.558	0.228	15-03-2018	41	30	30	42	-
*15	RENGALI	123.50	121.21	3.432	2.683	15-03-2018	78	81	49	3	200
*16	MACHKUND(JALPUT)	838.16	835.52	0.893	0.675	15-03-2018	76	44	57	-	115
*17	UPPER KOLAB	858.00	851.45	0.935	0.385	15-03-2018	41	64	43	89	320
*18	UPPER INDRAVATI	642.00	633.47	1.456	0.620	15-03-2018	43	59	47	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	117.96	0.480	0.327	15-03-2018	68	34	31	227	-
20	KANGSABATI	134.14	129.42	0.914	0.536	15-03-2018	59	31	27	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	91.05	0.312	0.201	13-03-2018	64	42	19	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	94.31	6.615	1.912	15-03-2018	29	62	49	348	300
23	SABARMATI(DHAROI)	189.59	181.55	0.735	0.152	15-03-2018	21	39	27	95	1
*24	KADANA	127.7	122.12	1.472	0.683	15-03-2018	46	56	55	200	120
25	SHETRUNJI	55.53	50.43	0.300	0.059	15-03-2018	20	32	36	36	-
26	BHADAR	107.89	103.49	0.188	0.051	15-03-2018	27	4	25	27	-
27	DAMANAGANGA	79.86	75.35	0.502	0.289	15-03-2018	58	50	57	51	1
28	DANTIWADA	184.1	176.31	0.399	0.158	15-03-2018	40	1	8	45	-
29	PANAM	127.41	124.15	0.697	0.356	15-03-2018	51	46	48	36	2
*30	SARDAR SAROVAR	138.68	105.64	5.760	0.000	15-03-2018	0	19	16	2120	1450
31	KARJAN	115.25	108.07	0.523	0.325	15-03-2018	62	46	59	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 15.03.2018

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	461.38	2.171	1.293	15-03-2018	60	47	25	227	-
*33	KOYANA	657.90	649.78	2.652	1.885	14-03-2018	71	44	60	-	1920
34	BHIMA(UJJANI)	496.83	495.48	1.517	1.089	12-03-2018	72	38	39	125	12
35	ISAPUR	441.00	426.90	0.965	0.047	14-03-2018	5	30	38	104	-
36	MULA	552.30	546.90	0.609	0.355	15-03-2018	58	45	40	139	-
37	YELDARI	461.77	449.01	0.809	0.036	15-03-2018	4	11	22	78	-
38	GIRNA	398.07	388.33	0.524	0.148	14-03-2018	28	37	22	79	-
39	KHADAKVASLA	582.47	581.71	0.056	0.046	14-03-2018	82	89	50	78	8
*40	UPPER VAITARNA	603.50	598.41	0.331	0.175	14-03-2018	53	60	61	-	61
41	UPPER TAPI	214.00	211.31	0.255	0.115	14-03-2018	45	54	60	45	-
*42	PENCH (TOTALADOH)	490.00	472.65	1.091	0.157	14-03-2018	14	16	33	127	160
43	UPPER WARDHA	342.50	338.50	0.564	0.263	15-03-2018	47	47	40	70	-
44	BHATSA	142.07	125.21	0.942	0.545	14-03-2018	58	58	53	29.378	15
45	DHOM	747.70	740.17	0.331	0.179	14-03-2018	54	47	40	36.2	2
46	DUDHGANGA	646.00	636.86	0.664	0.396	13-03-2018	60	57	56	2.441	24
47	MANIKDOH (KUKADI)	711.25	700.06	0.288	0.122	14-03-2018	42	8	16	2.2	6
48	BHANDARDARA	744.91	740.42	0.304	0.226	14-03-2018	74	63	53	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	302.70	0.707	0.143	14-03-2018	20	39	38	-	30
*50	RIHAND	268.22	257.40	5.649	1.292	15-03-2018	23	50	28	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	335.36	2.196	0.520	15-03-2018	24	21	51	1897	198
*52	TEHRI	830.00	775.10	2.615	0.762	15-03-2018	29	26	33	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	388.72	6.827	1.610	15-03-2018	24	66	33	220	115
54	TAWA	355.40	338.36	1.944	0.184	15-03-2018	9	25	26	247	-
*55	BARGI	422.76	418.45	3.180	2.049	15-03-2018	64	48	45	157	90
*56	BANSAGAR	341.64	335.06	5.166	2.525	15-03-2018	49	69	42	488	425
*57	INDIRA SAGAR	262.13	251.29	9.745	2.520	15-03-2018	26	42	30	2380	1000
58	BARNA	348.55	339.99	0.456	0.045	15-03-2018	10	34	21	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	352.70	3.046	1.802	15-03-2018	59	67	58	-	120
60	MAHANADI	348.70	344.16	0.767	0.393	14-03-2018	51	72	57	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	252.04	8.288	1.218	15-03-2018	15	12	27	0	770
*62	NAGARJUNA SAGAR	179.83	159.11	6.841	0.603	15-03-2018	9	1	17	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	86.72	1.994	0.454	15-03-2018	23	22	48	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	324.49	2.300	0.555	15-03-2018	24	39	23	411	27
65	LOWER MANAIR	280.42	272.03	0.621	0.196	15-03-2018	32	45	41	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 15.03.2018

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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	740.47	1.163	0.253	14-03-2018	22	16	40	79	-
*67	TUNGABHADRA	497.74	483.22	3.276	0.192	15-03-2018	6	3	13	529	72
68	GHATAPRABHA	662.95	643.78	1.391	0.338	15-03-2018	24	18	16	317	-
69	BHADRA	657.76	645.25	1.785	0.621	15-03-2018	35	19	52	106	39
70	LINGANAMAKKI	554.43	541.40	4.294	1.377	14-03-2018	32	28	41	-	55
71	NARAYANPUR	492.25	488.82	0.863	0.360	15-03-2018	42	27	50	425	-
72	MALAPRABHA(RENUKA)	633.83	622.45	0.972	0.104	15-03-2018	11	6	10	215	-
73	KABINI(Sancherla Tank)	696.16	689.59	0.444	0.125	14-03-2018	28	4	24	85	-
74	HEMAVATHY	890.63	875.18	0.927	0.151	14-03-2018	16	7	18	265	-
75	HARANGI	871.42	857.77	0.220	0.049	14-03-2018	22	17	15	53	-
76	SUPA	564.00	542.40	4.120	1.939	14-03-2018	47	43	42	-	-
77	VANIVILAS SAGAR	652.28	631.86	0.802	0.012	15-03-2018	1	3	15	123	-
*78	ALMATTI	519.60	511.20	3.105	0.678	15-03-2018	22	4	15	@	290
*79	GERUSOPPA	55.00	52.76	0.130	0.117	15-03-2018	90	83	79	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	113.50	0.507	0.435	14-03-2018	86	28	53	62	-
*81	IDAMALAYAR	169.00	148.33	1.018	0.478	14-03-2018	47	42	44	33	75
*82	IDUKKI	732.43	716.85	1.460	0.693	14-03-2018	47	30	42	-	780
*83	KAKKI	981.46	972.42	0.447	0.310	14-03-2018	69	44	57	23	300
*84	PERIYAR	867.41	860.10	0.173	0.027	14-03-2018	16	8	18	84	140
85	MALAPMUZHA	115.06	102.89	0.224	0.034	15-03-2018	15	12	22	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	263.85	0.792	0.130	14-03-2018	16	9	34	105	8
*87	METTUR(STANLEY)	240.79	216.60	2.647	0.351	14-03-2018	13	8	35	122	360
88	VAIGAI	279.20	267.41	0.172	0.013	14-03-2018	8	3	21	61	6
89	PARAMBIKULAM	556.26	537.21	0.380	0.037	14-03-2018	10	7	42	101	-
90	ALIYAR	320.04	300.40	0.095	0.000	14-03-2018	0	8	43	#	60
*91	SHOLAYAR	1002.79	955.79	0.143	0.000	14-03-2018	0	0	4	-	95
TOTAL FOR 91 RESERVOIRS				161.993	51.389						
PERCENTAGE							32	36	35		

* 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