

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 25.01.2018)

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 **25.01.2018**, live storage available in these reservoirs is **73.029 BCM**, which is **45%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **80.588 BCM** and the average of last 10 years live storage was **79.986 BCM**. Thus, the live storage available in 91 reservoirs **as per 25.01.2018 Bulletin** is **91%** of the live storage of corresponding period of last year and **91%** 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 **25.01.2018**, the total live storage available in these reservoirs is **7.91 BCM** which is **44%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **39%** and average storage of last ten years during corresponding period was **45%** 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 **25.01.2018**, the total live storage available in these reservoirs is **12.56 BCM** which is **67%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **73%** and average storage of last ten years during corresponding period was **61%** 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 **25.01.2018**, the total live storage available in these reservoirs is **14.70 BCM** which is **47%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **55%** 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 **25.01.2018**, the total live storage available in these reservoirs is **18.34 BCM** which is **43%** 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 **49%** 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 **25.01.2018**, the total live storage available in these reservoirs is **19.53 BCM** which is **38%** 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 **46%** 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, Mahanadi & Neighbouring East Flowing Rivers and Rivers of Kutch. Close to Normal in Indus, Sabarmati, Godavari, Krishna, and West Flowing Rivers of South. Deficient in Narmada, Tapi 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 **47** and reservoirs having storage more than average of last ten years are **43**. 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 **5**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **10** and having storage less than or equal to 50% with reference to average of last ten years are **12**.

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 25.01.2018

- 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 **25.01.2018** is **73.029** BCM (**45** percent of the live storage capacity at FRL).The current year's storage is nearly **91** percent of last year's storage and **91** 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	2	-	3	H.P.	0 %
									PUNJAB	-32 %
									RAJASTHAN	5 %
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	2	1	2	3	-	3	2	2	JHARKHAND	8 %
									ODISHA	2 %
									W. BENGAL	113 %
									TRIPURA	154 %
WEST (Guj.& Mah.), (27 Resv.)	-	1	2	9	4	2	3	6	GUJARAT	-30 %
									MAH.	15 %
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	1	1	3	1	6	U.P.	-3 %
									UTTARAKHAND	-15 %
									M.P.	-13 %
									CHHATISGARH	-6 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	2	1	-	2	6	5	15	AP&TG	-28 %
									A,P	-29 %
									TG	4 %
									KARNATAKA	-13 %
									KERALA	10 %
									T.N.	-59 %
Status of 91 reservoirs	2	4	5	13	8	16	11	32		

4 Basin wise storage position:

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

Close to normal: Indus,Sabarmati,Godavari,Krishna and West Flowing Rivers of South .

Deficient: Narmada , Tapi and Cauvery & neighbouring EFRS .

Highly deficient: NIL

- 5 Out of 91 reservoirs, **56** reservoirs reported more than 80% of normal storage & **35** reservoirs reported 80% or below of normal storage. Out of these **35** reservoirs **12** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0		
ALIYAR	8		
VANIVILAS SAGAR	11		
ISAPUR	13		
YELDARI	16		
SARDAR SAROVAR	28		
PARAMBIKULAM	37		
PENCH (TOTALADOH)	38		
METTUR(STANLEY)	40		
TAWA	41		
VAIGAI	48		
MATATILA	48		

23 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
3	10	10

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

22 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 OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 25.01.2018

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	493.20	6.229	3.276	25-01-2018	53	36	52	676	1200
*2	PONG DAM	423.67	406.90	6.157	2.473	25-01-2018	40	36	40	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	497.96	2.344	0.545	25-01-2018	23	32	34	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	276.25	1.711	1.167	25-01-2018	68	72	54	63	140
5	JHAKAM	359.50	352.85	0.132	0.075	25-01-2018	57	59	42	28	-
*6	RANA PRATAP SAGAR	352.81	346.54	1.436	0.374	25-01-2018	26	33	38	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	259.55	0.821	0.399	25-01-2018	49	51	45	-	-
8	MAITHON	146.3	148.43	0.471	0.471	25-01-2018	100	100	83	342	-
*9	PANCHET HILL	124.97	127.57	0.184	0.184	25-01-2018	100	100	82	\$	80
10	KONAR	425.81	421.08	0.176	0.098	25-01-2018	56	81	72	\$	-
11	TILAIYA	368.81	365.89	0.142	0.050	25-01-2018	35	77	54	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	190.39	5.378	3.793	24-01-2018	71	76	72	153	307
*13	BALIMELA	462.08	448.54	2.676	0.796	24-01-2018	30	71	54	-	360
14	SALANADI	82.30	70.88	0.558	0.235	25-01-2018	42	32	36	42	-
*15	RENGALI	123.50	122.37	3.432	3.057	24-01-2018	89	88	61	3	200
*16	MACHKUND(JALPUT)	838.16	837.06	0.893	0.788	24-01-2018	88	64	73	-	115
*17	UPPER KOLAB	858.00	853.28	0.935	0.522	24-01-2018	56	80	55	89	320
*18	UPPER INDRAVATI	642.00	635.46	1.456	0.791	25-01-2018	54	75	65	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	120.37	0.480	0.453	25-01-2018	94	44	41	227	-
20	KANGSABATI	134.14	131.25	0.914	0.679	25-01-2018	74	50	37	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	92.10	0.312	0.244	23-01-2018	78	61	31	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	96.26	6.615	2.554	25-01-2018	39	77	64	348	300
23	SABARMATI(DHAROI)	189.59	184.10	0.735	0.283	25-01-2018	39	60	45	95	1
*24	KADANA	127.7	124.06	1.472	0.842	25-01-2018	57	67	60	200	120
25	SHETRANJI	55.53	52.87	0.300	0.133	25-01-2018	44	52	57	36	-
26	BHADAR	107.89	104.66	0.188	0.077	25-01-2018	41	6	37	27	-
27	DAMANAGANGA	79.86	78.05	0.502	0.396	25-01-2018	79	69	74	51	1
28	DANTIWADA	184.1	179.22	0.399	0.234	25-01-2018	59	1	16	45	-
29	PANAM	127.41	125.55	0.697	0.433	25-01-2018	62	57	57	36	2
*30	SARDAR SAROVAR	138.68	113.69	5.760	0.328	25-01-2018	6	21	20	2120	1450
31	KARJAN	115.25	110.18	0.523	0.376	25-01-2018	72	55	71	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 25.01.2018

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	462.59	2.171	1.690	24-01-2018	78	63	37	227	-
*33	KOYANA	657.90	654.99	2.652	2.317	24-01-2018	87	64	74	-	1920
34	BHIMA(UJJANI)	496.83	496.20	1.517	1.311	25-01-2018	86	69	60	125	12
35	ISAPUR	441.00	427.32	0.965	0.063	24-01-2018	7	39	48	104	-
36	MULA	552.30	549.37	0.609	0.461	24-01-2018	76	76	58	139	-
37	YELDARI	461.77	449.26	0.809	0.042	25-01-2018	5	19	32	78	-
38	GIRNA	398.07	390.86	0.524	0.221	24-01-2018	42	64	34	79	-
39	KHADAKVASLA	582.47	581.38	0.056	0.041	24-01-2018	73	66	54	78	8
*40	UPPER VAITARNA	603.50	601.42	0.331	0.265	24-01-2018	80	81	76	-	61
41	UPPER TAPI	214.00	212.71	0.255	0.181	24-01-2018	71	75	79	45	-
*42	PENCH (TOTALADOH)	490.00	473.80	1.091	0.189	24-01-2018	17	26	46	127	160
43	UPPER WARDHA	342.50	339.86	0.564	0.352	25-01-2018	62	66	59	70	-
44	BHATSA	142.07	131.74	0.942	0.683	24-01-2018	73	72	68	29.378	15
45	DHOM	747.70	742.80	0.331	0.227	24-01-2018	69	63	57	36.2	2
46	DUDHGANGA	646.00	641.38	0.664	0.528	24-01-2018	80	76	73	2.441	24
47	MANIKDOH (KUKADI)	711.25	704.28	0.288	0.175	24-01-2018	61	40	32	2.2	6
48	BHANDARDARA	744.91	744.35	0.304	0.295	24-01-2018	97	88	70	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	303.12	0.707	0.168	24-01-2018	24	49	49	-	30
*50	RIHAND	268.22	259.84	5.649	2.179	24-01-2018	39	58	37	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	345.97	2.196	0.973	25-01-2018	44	36	59	1897	198
*52	TEHRI	830.00	798.05	2.615	1.426	25-01-2018	55	54	58	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	392.23	6.827	2.751	25-01-2018	40	78	43	220	115
54	TAWA	355.40	341.99	1.944	0.390	25-01-2018	20	51	48	247	-
*55	BARGI	422.76	419.30	3.180	2.254	25-01-2018	71	63	61	157	90
*56	BANSAGAR	341.64	336.24	5.166	2.934	25-01-2018	57	79	51	488	425
*57	INDIRA SAGAR	262.13	252.21	9.745	2.862	25-01-2018	29	65	46	2380	1000
58	BARNA	348.55	342.09	0.456	0.109	25-01-2018	24	59	42	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	353.17	3.046	1.867	24-01-2018	61	68	62	-	120
60	MAHANADI	348.70	344.61	0.767	0.423	25-01-2018	55	91	72	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	262.77	8.288	3.088	25-01-2018	37	29	49	0	770
*62	NAGARJUNA SAGAR	179.83	162.00	6.841	1.116	25-01-2018	16	5	26	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	92.30	1.994	0.924	25-01-2018	46	45	66	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	327.26	2.300	1.040	25-01-2018	45	74	42	411	27
65	LOWER MANAIR	280.42	275.23	0.621	0.336	25-01-2018	54	74	57	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 25.01.2018

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	744.30	1.163	0.476	25-01-2018	41	15	60	79	-
*67	TUNGABHADRA	497.74	489.25	3.276	0.760	25-01-2018	23	5	33	529	72
68	GHATAPRABHA	662.95	652.19	1.391	0.704	23-01-2018	51	42	37	317	-
69	BHADRA	657.76	650.95	1.785	1.074	24-01-2018	60	29	76	106	39
70	LINGANAMAKKI	554.43	544.59	4.294	1.890	25-01-2018	44	43	60	-	55
71	NARAYANPUR	492.25	490.23	0.863	0.501	25-01-2018	58	60	78	425	-
72	MALAPRABHA(RENUKA)	633.83	624.52	0.972	0.168	24-01-2018	17	16	27	215	-
73	KABINI(Sancherla Tank)	696.16	692.87	0.444	0.268	25-01-2018	60	18	38	85	-
74	HEMAVATHY	890.63	876.74	0.927	0.197	25-01-2018	21	11	26	265	-
75	HARANGI	871.42	859.50	0.220	0.063	25-01-2018	29	29	16	53	-
76	SUPA	564.00	544.60	4.120	2.113	25-01-2018	51	50	54	-	-
77	VANIVILAS SAGAR	652.28	632.20	0.802	0.016	24-01-2018	2	4	18	123	-
*78	ALMATTI	519.60	514.95	3.105	1.424	25-01-2018	46	24	38	@	290
*79	GERUSOPPA	55.00	52.89	0.130	0.118	25-01-2018	91	85	83	83	240
KERALA											
80	KALLADA(PARAPPAR)	115.82	115.62	0.507	0.482	25-01-2018	95	40	73	62	-
*81	IDAMALAYAR	169.00	156.05	1.018	0.657	25-01-2018	65	54	61	33	75
*82	IDUKKI	732.43	721.58	1.460	0.896	25-01-2018	61	36	57	-	780
*83	KAKKI	981.46	976.80	0.447	0.369	25-01-2018	83	51	72	23	300
*84	PERIYAR	867.41	861.05	0.173	0.042	25-01-2018	24	6	35	84	140
85	MALAPMUZHA	115.06	105.90	0.224	0.063	25-01-2018	28	18	38	21	3
TAMIL NADU											
86	LOWER BHAWANI	278.89	266.36	0.792	0.196	25-01-2018	25	11	45	105	8
*87	METTUR(STANLEY)	240.79	217.98	2.647	0.422	25-01-2018	16	10	40	122	360
88	VAIGAI	279.20	270.18	0.172	0.030	25-01-2018	17	4	36	61	6
89	PARAMBIKULAM	556.26	540.62	0.380	0.089	25-01-2018	23	12	63	101	-
90	ALIYAR	320.04	302.09	0.095	0.004	25-01-2018	4	0	55	#	60
*91	SHOLAYAR	1002.79	957.22	0.143	0.000	25-01-2018	0	0	19	-	95
TOTAL FOR 91 RESERVOIRS				161.993	73.029						
PERCENTAGE							45	50	49		

Sd/-

Director

* HYDEL POWER CAPACITY HAVING CAPACITY MORE THAN 60MW

\$ TOTAL CCA 342 TH. HA OF DVC SYSTEM

W. M. , CWC

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.

WEEKLY REPORT - BASINWISE

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 25.01.2018

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	13.383	47.63%	17.949	63.88%	13.066	46.50%	2.43
INDUS	14.730	6.294	42.73%	5.215	35.40%	6.567	44.58%	-4.16
NARMADA	21.608	6.319	29.24%	11.043	51.11%	9.066	41.96%	-30.30
TAPI	7.394	2.956	39.98%	5.601	75.75%	4.581	61.96%	-35.47
MAHI	4.012	2.517	62.74%	2.689	67.02%	2.263	56.41%	11.22
SABARMATI	0.735	0.283	38.50%	0.438	59.59%	0.328	44.63%	-13.72
RIVERS OF KUTCH	0.887	0.444	50.06%	0.171	19.28%	0.303	34.16%	46.53
GODAVARI	15.394	7.365	47.84%	9.744	63.30%	7.789	50.60%	-5.44
KRISHNA	32.831	13.450	40.97%	9.067	27.62%	14.701	44.78%	-8.51
MAHANADI & NEIGHBOURING EFRS	13.181	9.375	71.13%	10.066	76.37%	8.643	65.57%	8.47
CAUVERY & NEIGHBOURING EFRS	8.359	2.576	30.82%	1.687	20.18%	3.922	46.92%	-34.32
WEST FLOWING RIVERS OF SOUTH	14.766	8.067	54.63%	6.918	46.85%	8.757	59.31%	-7.88
TOTAL	161.993	73.029		80.588		79.986		
PERCENTAGE								-8.70