

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 19.01.2017)

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 157.799 BCM which is about 62% of the live storage capacity of 253.388 BCM which is estimated to have been created in the country. As per reservoir storage bulletin dated **19.01.2017**, live storage available in these reservoirs is **82.915 BCM**, which is **53%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **65.976 BCM** and the average of last 10 years live storage was **83.619 BCM**. Thus, the live storage available in 91 reservoirs **as per 19.01.2017 Bulletin** is **126%** of the live storage of corresponding period of last year and **99%** 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 but 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 **19.01.2017**, the total live storage available in these reservoirs is **7.28 BCM** which is **40%** 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 **49%** 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 **19.01.2017**, the total live storage available in these reservoirs is **14.00 BCM** which is **74%** 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 **61%** 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 27.07 BCM. As per Reservoir Storage Bulletin dated **19.01.2017**, the total live storage available in these reservoirs is **17.55 BCM** which is **65%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **37%** 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 better than the storage of last year and is also better 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 **19.01.2017**, the total live storage available in these reservoirs is **28.50 BCM** which is **67%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **53%** and average storage of last ten years during corresponding period was **48%** 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 (2 combined 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 **19.01.2017**, the total live storage available in these reservoirs is **15.59 BCM** which is **30%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **28%** 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 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 Narmada, Mahi, Ganga, Sabarmati, Godavari, Tapi and Mahanadi & neighbouring East Flowing Rivers. NIL in Close to Normal and Deficient in Indus, Rivers of Kutch, West Flowing Rivers of South Cauvery & neighbouring EFRs, and Krishna 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 **59** and reservoirs having storage more than average of last ten years are **46**. The numbers of reservoirs having storage less than 20% with respect to last year is **4** 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 **12** and having storage less than or equal to 50% with reference to average of last ten years are **17**.

STORAGE STATUS OF IMPORTANT RESERVOIRS IN THE COUNTRY

AS ON 19.01.2017

- 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 **19.01.2017** is **82.915** BCM (**53** percent of the live storage capacity at FRL).The current year's storage is nearly **126** percent of last year's storage and **99** 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	1	-	-	4	H.P.	-25 %	
									PUNJAB	-8 %	
									RAJASTHAN	11 %	
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	2	-	4	3	2	1	2	1	JHARKHAND	21 %	
									ODISHA	20 %	
									W. BENGAL	24 %	
									TRIPURA	112 %	
WEST (Guj.& Mah.), (27 Resv.)	-	1	1	7	9	3	-	6	GUJARAT	8 %	
									MAH.	3 %	
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	1	1	1	4	3	1	1	U.P.	63 %	
									UTTARAKHAND	-17 %	
									M.P.	52 %	
									CHHATISGARH	14 %	
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	1	2	1	2	4	21	AP&TG	-57 %	
									A,P	-30 %	
									TG	72 %	
									KARNATAKA	-39 %	
									KERALA	-36 %	
									T.N.	-80 %	
Status of 91 reservoirs	2	2	7	14	17	9	7	33			

4 Basin wise storage position:

Better than normal: Ganga,Sabarmati,Godavari,Mahi, Narmada ,Tapi and Mahanadi & Neighbouring EFRS.

Close to normal: NIL

Deficient: Indus ,Rivers of Kutch,West Flowing Rivers of South, Krishna and Cauvery & neighbouring EFRS..

Highly deficient: NIL

- 5 Out of 91 reservoirs, **58** reservoirs reported more than 80% of normal storage & **33** reservoirs reported 80% or below of normal storage. Out of these **33** reservoirs **17** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0	KRISHNARAJA SAGRA	22
ALIYAR	2	BHADRA	35
VAIGAI	10	HEMAVATHY	41
NAGARJUNA SAGAR	12	MALAMPUZHA	42
DANTIWADA	13	KALLADA(PARAPPAR)	50
PERIYAR	15		
TUNGABHADRA	15		
BHADAR	16		
PARAMBIKULAM	18		
VANIVILAS SAGAR	20		
LOWER BHAWANI	21		
METTUR(STANLEY)	22		

16 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
6	6	4

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

19 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 :- 19.01.2017

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	18.371	65.39%	13.942	49.62%	13.083	46.57%	40.42
INDUS	14.730	5.454	37.03%	7.001	47.53%	7.113	48.29%	-23.32
NARMADA	17.414	11.439	65.69%	9.093	52.22%	8.969	51.50%	27.54
TAPI	7.394	5.649	76.40%	3.532	47.77%	4.663	63.06%	21.15
MAHI	4.012	2.756	68.69%	1.917	47.78%	2.317	57.75%	18.95
SABARMATI	0.735	0.463	62.99%	0.413	56.19%	0.350	47.62%	32.29
RIVERS OF KUTCH	0.887	0.182	20.52%	0.403	45.43%	0.352	39.68%	-48.30
GODAVARI	15.394	10.075	65.45%	5.327	34.60%	8.123	52.77%	24.03
KRISHNA	32.831	9.511	28.97%	5.935	18.08%	16.359	49.83%	-41.86
MAHANADI & NEIGHBOURING EFRS	13.181	10.214	77.49%	6.993	53.05%	8.649	65.62%	18.09
CAUVERY & NEIGHBOURING EFRS	8.359	1.735	20.76%	3.848	46.03%	4.322	51.70%	-59.86
WEST FLOWING RIVERS OF SOUTH	14.766	7.066	47.85%	7.572	51.28%	9.319	63.11%	-24.18
TOTAL	157.799	82.915		65.976		83.619		
PERCENTAGE								-0.84

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 19.01.2017

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	484.67	6.229	2.343	19-01-2017	38	62	57	676	1200
*2	PONG DAM	423.67	406.14	6.157	2.343	19-01-2017	38	43	44	-	360

PUNJAB

*3	THEIN	527.91	503.10	2.344	0.768	19-01-2017	33	20	36	348	600
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RAJASTHAN

*4	MAHI BAJAJ SAGAR	280.75	277.20	1.711	1.272	19-01-2017	74	59	54	63	140
5	JHAKAM	359.50	354.00	0.132	0.083	19-01-2017	63	41	45	28	-
*6	RANA PRATAP SAGAR	352.81	347.19	1.436	0.466	19-01-2017	32	31	45	229	172

EASTERN REGION**JHARKHAND**

7	TENUGHAT	269.14	260.10	0.821	0.421	19-01-2017	51	42	44	-	-
8	MAITHON	146.3	148.59	0.471	0.471	19-01-2017	100	31	85	342	-
*9	PANCHET HILL	124.97	126.73	0.184	0.184	19-01-2017	100	21	83	\$	80
10	KONAR	425.81	424.40	0.176	0.151	19-01-2017	86	61	72	\$	-
11	TILAIYA	368.81	368.16	0.142	0.120	19-01-2017	85	45	56	\$	4

ODISHA

*12	HIRAKUD	192.02	191.03	5.378	4.193	18-01-2017	78	67	74	153	307
*13	BALIMELA	462.08	457.54	2.676	1.903	19-01-2017	71	62	55	-	360
14	SALANADI	82.30	68.35	0.558	0.183	18-01-2017	33	6	32	42	-
*15	RENGALI	123.50	122.30	3.432	3.034	19-01-2017	88	50	59	3	200
*16	MACHKUND(JALPUT)	838.16	834.50	0.893	0.601	19-01-2017	67	75	75	-	115
*17	UPPER KOLAB	858.00	856.16	0.935	0.761	19-01-2017	81	74	57	89	320
*18	UPPER INDRAVATI	642.00	638.72	1.456	1.109	18-01-2017	76	50	64	128	600

WEST BENGAL

19	MAYURAKSHI	121.31	115.21	0.480	0.216	19-01-2017	45	19	43	227	-
20	KANGSABATI	134.14	128.37	0.914	0.457	19-01-2017	50	25	37	341	-

TRIPURA

21	GUMTI	93.55	90.95	0.312	0.197	17-01-2017	63	71	30	-	15
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WESTERN REGION**GUJARAT**

*22	UKAI	105.16	102.23	6.615	5.095	19-01-2017	77	51	64	348	300
23	SABARMATI(DHAROI)	189.59	186.59	0.735	0.463	19-01-2017	63	56	48	95	1
*24	KADANA	127.7	125.76	1.472	0.994	19-01-2017	68	43	61	200	120
25	SHETRUNJI	55.53	53.37	0.300	0.157	19-01-2017	52	59	61	36	-
26	BHADAR	107.89	100.61	0.188	0.013	19-01-2017	7	24	43	27	-
27	DAMANAGANGA	79.86	77.30	0.502	0.364	19-01-2017	73	68	77	51	1
28	DANTIWADA	184.1	165.44	0.399	0.012	19-01-2017	3	45	22	45	-
29	PANAM	127.41	125.10	0.697	0.407	19-01-2017	58	33	61	36	2
*30	SARDAR SAROVAR	121.92	119.47	1.566	1.142	19-01-2017	73	22	76	2120	1450
31	KARJAN	115.25	106.67	0.523	0.294	19-01-2017	56	43	77	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 19.01.2017

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	461.73	2.171	1.396	19-01-2017	64	7	39	227	-
*33	KOYANA	657.90	649.86	2.652	1.747	18-01-2017	66	56	77	-	1920
34	BHIMA(UJJANI)	496.83	495.40	1.517	1.066	18-01-2017	70	0	64	125	12
35	ISAPUR	441.00	433.86	0.965	0.388	18-01-2017	40	21	55	104	-
36	MULA	552.30	549.43	0.609	0.464	18-01-2017	76	19	60	139	-
37	YELDARI	461.77	453.12	0.809	0.179	19-01-2017	22	6	40	78	-
38	GIRNA	398.07	394.73	0.524	0.358	18-01-2017	68	3	37	79	-
39	KHADAKVASLA	582.47	580.95	0.056	0.036	18-01-2017	64	41	54	78	8
*40	UPPER VAITARNA	603.50	601.83	0.331	0.278	18-01-2017	84	48	78	-	61
41	UPPER TAPI	214.00	212.97	0.255	0.196	18-01-2017	77	64	82	45	-
*42	PENCH (TOTALADOH)	490.00	477.30	1.091	0.303	18-01-2017	28	37	50	127	160
43	UPPER WARDHA	342.50	340.26	0.564	0.380	19-01-2017	67	50	61	70	-
44	BHATSA	142.07	132.38	0.942	0.698	18-01-2017	74	62	70	29.378	15
45	DHOM	747.70	742.06	0.331	0.213	18-01-2017	64	39	59	36.2	2
46	DUDHGANGA	646.00	640.89	0.664	0.514	18-01-2017	77	44	76	2.441	24
47	MANIKDOH (KUKADI)	711.25	699.46	0.288	0.115	18-01-2017	40	10	38	2.2	6
48	BHANDARDARA	744.91	742.98	0.304	0.279	18-01-2017	92	29	71	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	305.44	0.707	0.338	18-01-2017	48	41	49	-	30
*50	RIHAND	268.22	262.83	5.649	3.352	19-01-2017	59	30	34	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	343.30	2.196	0.851	19-01-2017	39	86	62	1897	198
*52	TEHRI	830.00	801.25	2.615	1.527	18-01-2017	58	50	58	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	397.95	6.827	5.457	19-01-2017	80	68	43	220	115
54	TAWA	355.40	349.21	1.944	1.066	19-01-2017	55	47	53	247	-
*55	BARGI	422.76	418.50	3.180	2.060	19-01-2017	65	70	60	157	90
*56	BANSAGAR	341.64	339.39	5.166	4.163	19-01-2017	81	47	51	488	425
*57	INDIRA SAGAR	262.13	258.26	9.745	6.593	19-01-2017	68	54	43	2380	1000
58	BARNA	348.55	345.88	0.456	0.284	19-01-2017	62	37	43	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	354.69	3.046	2.086	18-01-2017	68	43	62	-	120
60	MAHANADI	348.70	348.18	0.767	0.718	19-01-2017	94	45	74	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	261.03	8.288	2.611	19-01-2017	32	17	53	0	770
*62	NAGARJUNA SAGAR	179.83	157.09	6.841	0.265	19-01-2017	4	0	33	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	92.41	1.994	0.935	19-01-2017	47	76	67	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	330.43	2.300	1.814	19-01-2017	79	8	42	411	27
65	LOWER MANAIR	280.42	277.95	0.621	0.498	19-01-2017	80	15	61	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

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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
KARNATAKA											
66	KRISHNARAJA SAGRA	752.50	738.64	1.163	0.173	18-01-2017	15	49	67	79	-
*67	TUNGABHADRA	497.74	483.33	3.276	0.199	19-01-2017	6	12	39	529	72
68	GHATAPRABHA	662.95	649.78	1.391	0.586	19-01-2017	42	25	37	317	-
69	BHADRA	657.76	643.66	1.785	0.516	19-01-2017	29	52	84	106	39
70	LINGANAMAKKI	554.43	544.78	4.294	1.926	19-01-2017	45	47	64	-	55
71	NARAYANPUR	492.25	490.58	0.863	0.539	19-01-2017	62	37	81	425	-
72	MALAPRABHA(RENUKA)	633.83	624.27	0.972	0.157	19-01-2017	16	12	30	215	-
73	KABINI(Sancherla Tank)	696.16	688.53	0.444	0.088	18-01-2017	20	36	39	85	-
74	HEMAVATHY	890.63	873.22	0.927	0.104	18-01-2017	11	15	27	265	-
75	HARANGI	871.42	859.42	0.220	0.063	18-01-2017	29	5	12	53	-
76	SUPA	564.00	543.87	4.120	2.054	19-01-2017	50	42	57	-	-
77	VANIVILAS SAGAR	652.28	633.25	0.802	0.030	19-01-2017	4	13	19	123	-
*78	ALMATTI	519.60	512.58	3.105	0.917	19-01-2017	30	13	44	@	290
*79	GERUSOPPA	55.00	52.34	0.130	0.115	19-01-2017	88	89	84	83	240
KERALA											
80	KALLADA(PARAPPAR)	115.82	100.82	0.507	0.201	19-01-2017	40	88	79	62	-
*81	IDAMALAYAR	169.00	152.18	1.018	0.566	19-01-2017	56	54	64	33	75
*82	IDUKKI	732.43	712.80	1.460	0.531	19-01-2017	36	56	62	-	780
*83	KAKKI	981.46	965.41	0.447	0.230	19-01-2017	51	72	75	23	300
*84	PERIYAR	867.41	859.04	0.173	0.011	19-01-2017	6	69	42	84	140
85	MALAPMUZHA	115.06	103.81	0.224	0.042	19-01-2017	19	29	45	21	3
TAMIL NADU											
86	LOWER BHAWANI	278.89	261.88	0.792	0.090	19-01-2017	11	46	54	105	8
*87	METTUR(STANLEY)	240.79	214.92	2.647	0.275	19-01-2017	10	39	47	122	360
88	VAIGAI	279.20	257.56	0.172	0.007	19-01-2017	4	40	42	61	6
89	PARAMBIKULAM	556.26	538.02	0.380	0.049	19-01-2017	13	62	72	101	-
90	ALIYAR	320.04	301.40	0.095	0.001	19-01-2017	1	64	64	#	60
*91	SHOLAYAR	1002.79	955.04	0.143	0.000	19-01-2017	0	0	27	-	95
TOTAL FOR 91 RESERVOIRS				157.799	82.915						
PERCENTAGE							53	42	53		

Sd/-

* HYDEL POWER CAPACITY HAVING CAPACITY MORE THAN 60MW

Director

\$ 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.

Sl. No. 30th The FRL of S.S.P. 138.38 M and Live capacity at FRL will be 5.760 BCM. However at present the lowest block of the dam is at the level of 121.92 M. and the live capacity at this level is 1.566 BCM