

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 09.11.2017)

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 **09.11.2017**, live storage available in these reservoirs is **105.984 BCM**, which is **67%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **110.398 BCM** and the average of last 10 years live storage was **110.788 BCM**. Thus, the live storage available in 91 reservoirs **as per 09.11.2017 Bulletin** is **96%** 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 **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 **09.11.2017**, the total live storage available in these reservoirs is **12.75 BCM** which is **71%** 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 **73%** 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 **09.11.2017**, the total live storage available in these reservoirs is **14.69 BCM** which is **78%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **83%** and average storage of last ten years during corresponding period was **75%** 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 27.07 BCM. As per Reservoir Storage Bulletin dated **09.11.2017**, the total live storage available in these reservoirs is **20.25 BCM** which is **75%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **83%** and average storage of last ten years during corresponding period was **77%** 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 **09.11.2017**, the total live storage available in these reservoirs is **25.57 BCM** which is **60%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **88%** and average storage of last ten years during corresponding period was **68%** 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 (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 **09.11.2017**, the total live storage available in these reservoirs is **32.73 BCM** which is **63%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **45%** and average storage of last ten years during corresponding period was **66%** 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.

•

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 09.11.2017

- 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.
- The total live storage in 91 important reservoirs in different parts of the country, monitored by CWC as on **09.11.2017** is **105.984** BCM (**67** percent of the live storage capacity at FRL).The current year's storage is nearly **96** percent of last year's storage and **96** 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	1	-	1	1	-	1	H.P.	0 %
									PUNJAB	-2 %
									RAJASTHAN	-15 %
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	2	4	2	1	1	3	2	-	JHARKHAND	8 %
									ODISHA	-2 %
									W. BENGAL	108 %
									TRIPURA	76 %
WEST (Guj.& Mah.), (27 Resv.)	7	6	5	4	-	2	-	3	GUJARAT	-13 %
									MAH.	7 %
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	2	1	4	2	1	2	U.P.	14 %
									UTTARAKHAND	-2 %
									M.P.	-17 %
									CHHATISGARH	-9 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	1	-	3	6	6	7	5	3	AP&TG	-2 %
									A,P	16 %
									TG	3 %
									KARNATAKA	-7 %
									KERALA	-1 %
									T.N.	-13 %
Status of 91 reservoirs	11	11	13	12	12	15	8	9		

4 Basin wise storage position:

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

Close to normal: Godavari, Cauvery & neighbouring EFRS and West Flowing Rivers of South .

Deficient: Narmada and Tapi. .

Highly deficient: NIL

- Out of 91 reservoirs, **70** reservoirs reported more than 80% of normal storage & **21** reservoirs reported 80% or below of normal storage. Out of these **21** reservoirs **7** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
VANIVILAS SAGAR	17		
ISAPUR	23		
YELDARI	29		
RANA PRATAP SAGAR	32		
HEMAVATHY	39		
PENCH (TOTALADOH)	45		
INDIRA SAGAR	49		

14 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
2	7	5

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

20 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 :- 09.11.2017

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	18.639	66.34%	23.142	82.37%	17.010	60.54%	9.58
INDUS	14.730	10.614	72.06%	8.803	59.76%	10.601	71.97%	0.12
NARMADA	17.414	9.886	56.77%	16.375	94.03%	13.935	80.02%	-29.06
TAPI	7.394	3.969	53.68%	6.741	91.17%	5.732	77.52%	-30.76
MAHI	4.012	3.437	85.67%	3.413	85.07%	3.046	75.92%	12.84
SABARMATI	0.735	0.631	85.85%	0.706	96.05%	0.511	69.52%	23.48
RIVERS OF KUTCH	0.887	0.693	78.13%	0.332	37.43%	0.503	56.71%	37.77
GODAVARI	15.394	9.468	61.50%	12.308	79.95%	10.024	65.12%	-5.55
KRISHNA	32.831	23.473	71.50%	16.858	51.35%	23.038	70.17%	1.89
MAHANADI & NEIGHBOURING EFRS	13.181	10.470	79.43%	11.183	84.84%	10.265	77.88%	2.00
CAUVERY & NEIGHBOURING EFRS	8.359	4.784	57.23%	2.189	26.19%	4.982	59.60%	-3.97
WEST FLOWING RIVERS OF SOUTH	14.766	9.920	67.18%	8.348	56.54%	11.141	75.45%	-10.96
TOTAL	157.799	105.984		110.398		110.788		
PERCENTAGE								-4.34

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 09.11.2017

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											
<u>HIMACHAL PRADESH</u>											
*1	GOBIND SAGAR(BHAKRA)	512.06	506.51	6.229	5.090	09-11-2017	82	62	80	676	1200
*2	PONG DAM	423.67	416.24	6.157	4.230	09-11-2017	69	60	70	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	512.57	2.344	1.294	09-11-2017	55	53	56	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	281.25	1.711	1.711	09-11-2017	100	100	86	63	140
5	JHAKAM	359.50	359.25	0.132	0.130	09-11-2017	98	100	83	28	-
*6	RANA PRATAP SAGAR	352.81	346.02	1.436	0.297	09-11-2017	21	70	66	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	260.59	0.821	0.441	09-11-2017	54	51	45	-	-
8	MAITHON	146.3	149.71	0.471	0.471	09-11-2017	100	100	88	342	-
*9	PANCHET HILL	124.97	128.17	0.184	0.184	09-11-2017	100	100	83	\$	80
10	KONAR	425.81	423.78	0.176	0.140	09-11-2017	80	99	88	\$	-
11	TILAIYA	368.81	366.98	0.142	0.080	09-11-2017	56	100	88	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	191.70	5.378	4.616	09-11-2017	86	88	89	153	307
*13	BALIMELA	462.08	452.84	2.676	1.282	09-11-2017	48	83	66	-	360
14	SALANADI	82.30	71.13	0.558	0.240	08-11-2017	43	41	44	42	-
*15	RENGALI	123.50	123.18	3.432	3.338	09-11-2017	97	96	79	3	200
*16	MACHKUND(JALPUT)	838.16	837.90	0.893	0.864	09-11-2017	97	89	88	-	115
*17	UPPER KOLAB	858.00	854.00	0.935	0.576	09-11-2017	62	85	67	89	320
*18	UPPER INDRAVATI	642.00	636.24	1.456	0.867	07-11-2017	60	79	74	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	120.67	0.480	0.470	09-11-2017	98	46	43	227	-
20	KANGSABATI	134.14	132.56	0.914	0.808	09-11-2017	88	63	45	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	93.50	0.312	0.310	07-11-2017	99	83	56	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	98.34	6.615	3.341	09-11-2017	51	91	79	348	300
23	SABARMATI(DHAROI)	189.59	188.47	0.735	0.631	09-11-2017	86	96	70	95	1
*24	KADANA	127.7	126.67	1.472	1.085	09-11-2017	74	76	67	200	120
25	SHETRANJI	55.53	53.62	0.300	0.171	09-11-2017	57	60	75	36	-
26	BHADAR	107.89	107.31	0.188	0.162	09-11-2017	86	12	63	27	-
27	DAMANAGANGA	79.86	79.90	0.502	0.480	09-11-2017	96	95	97	51	1
28	DANTIWADA	184.1	183.31	0.399	0.360	09-11-2017	90	33	40	45	-
29	PANAM	127.41	126.80	0.697	0.511	09-11-2017	73	65	69	36	2
*30	SARDAR SAROVAR	121.92	127.80	1.566	1.566	09-11-2017	100	89	90	2120	1450
31	KARJAN	115.25	113.18	0.523	0.463	09-11-2017	89	68	89	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 09.11.2017

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	463.84	2.171	2.146	09-11-2017	99	81	48	227	-
*33	KOYANA	657.90	658.95	2.652	2.652	08-11-2017	100	94	96	-	1920
34	BHIMA(UJJANI)	496.83	497.33	1.517	1.517	09-11-2017	100	100	80	125	12
35	ISAPUR	441.00	429.11	0.965	0.149	08-11-2017	15	50	68	104	-
36	MULA	552.30	552.20	0.609	0.604	08-11-2017	99	98	85	139	-
37	YELDARI	461.77	451.51	0.809	0.111	09-11-2017	14	30	47	78	-
38	GIRNA	398.07	395.09	0.524	0.373	08-11-2017	71	90	52	79	-
39	KHADAKVASLA	582.47	581.62	0.056	0.045	08-11-2017	80	70	59	78	8
*40	UPPER VAITARNA	603.50	603.46	0.331	0.330	08-11-2017	100	99	94	-	61
41	UPPER TAPI	214.00	214.00	0.255	0.255	08-11-2017	100	100	100	45	-
*42	PENCH (TOTALADOH)	490.00	477.84	1.091	0.323	08-11-2017	30	46	65	127	160
43	UPPER WARDHA	342.50	342.29	0.564	0.545	09-11-2017	97	97	90	70	-
44	BHATSA	142.07	140.21	0.942	0.891	08-11-2017	95	93	90	29.378	15
45	DHOM	747.70	747.53	0.331	0.327	08-11-2017	99	100	87	36.2	2
46	DUDHGANGA	646.00	646.00	0.664	0.664	08-11-2017	100	100	98	2.441	24
47	MANIKDOH (KUKADI)	711.25	708.44	0.288	0.239	08-11-2017	83	72	61	2.2	6
48	BHANDARDARA	744.91	744.73	0.304	0.304	08-11-2017	100	100	97	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	306.35	0.707	0.422	08-11-2017	60	45	70	-	30
*50	RIHAND	268.22	262.41	5.649	3.184	09-11-2017	56	75	47	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	353.89	2.196	1.392	06-11-2017	63	56	72	1897	198
*52	TEHRI	830.00	822.15	2.615	2.295	08-11-2017	88	87	84	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	396.30	6.827	4.557	09-11-2017	67	96	56	220	115
54	TAWA	355.40	351.65	1.944	1.396	09-11-2017	72	99	94	247	-
*55	BARGI	422.76	420.90	3.180	2.702	09-11-2017	85	92	87	157	90
*56	BANSAGAR	341.64	338.05	5.166	3.588	09-11-2017	69	99	64	488	425
*57	INDIRA SAGAR	262.13	253.69	9.745	3.533	09-11-2017	36	96	73	2380	1000
58	BARNA	348.55	344.84	0.456	0.226	09-11-2017	50	88	74	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	353.94	3.046	1.976	09-11-2017	65	70	63	-	120
60	MAHANADI	348.70	342.67	0.767	0.300	08-11-2017	39	100	75	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	268.07	8.288	5.158	09-11-2017	62	57	65	0	770
*62	NAGARJUNA SAGAR	179.83	175.47	6.841	3.942	09-11-2017	58	19	57	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	96.39	1.994	1.429	09-11-2017	72	57	62	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	329.06	2.300	1.453	09-11-2017	63	100	55	411	27
65	LOWER MANAIR	280.42	273.25	0.621	0.244	09-11-2017	39	100	60	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 09.11.2017

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
<u>KARNATAKA</u>											
66	KRISHNARAJA SAGRA	752.50	748.29	1.163	0.802	08-11-2017	69	18	80	79	-
*67	TUNGABHADRA	497.74	495.66	3.276	2.172	08-11-2017	66	13	70	529	72
68	GHATAPRABHA	662.95	661.13	1.391	1.255	08-11-2017	90	84	80	317	-
69	BHADRA	657.76	653.50	1.785	1.319	08-11-2017	74	38	82	106	39
70	LINGANAMAKKI	554.43	547.91	4.294	2.554	09-11-2017	59	55	80	-	55
71	NARAYANPUR	492.25	491.69	0.863	0.668	09-11-2017	77	67	81	425	-
72	MALAPRABHA(RENUKA)	633.83	628.24	0.972	0.400	08-11-2017	41	32	62	215	-
73	KABINI(Sancherla Tank)	696.16	695.20	0.444	0.388	08-11-2017	87	38	42	85	-
74	HEMAVATHY	890.63	877.89	0.927	0.238	08-11-2017	26	14	65	265	-
75	HARANGI	871.42	867.41	0.220	0.123	08-11-2017	56	35	51	53	-
76	SUPA	564.00	548.66	4.120	2.466	09-11-2017	60	55	64	-	-
77	VANIVILAS SAGAR	652.28	632.70	0.802	0.023	09-11-2017	3	5	17	123	-
*78	ALMATTI	519.60	519.51	3.105	3.092	09-11-2017	100	77	81	@	290
*79	GERUSOPPA	55.00	48.19	0.130	0.093	09-11-2017	72	72	82	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	113.35	0.507	0.431	07-11-2017	85	38	81	62	-
*81	IDAMALAYAR	169.00	161.24	1.018	0.795	08-11-2017	78	61	76	33	75
*82	IDUKKI	732.43	723.57	1.460	0.990	08-11-2017	68	43	68	-	780
*83	KAKKI	981.46	975.61	0.447	0.352	08-11-2017	79	60	81	23	300
*84	PERIYAR	867.41	863.12	0.173	0.078	08-11-2017	45	7	60	84	140
85	MALAPMUZHA	115.06	112.00	0.224	0.157	09-11-2017	70	43	84	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	271.37	0.792	0.378	09-11-2017	48	11	52	105	8
*87	METTUR(STANLEY)	240.79	230.16	2.647	1.337	09-11-2017	51	14	53	122	360
88	VAIGAI	279.20	275.10	0.172	0.089	08-11-2017	52	3	52	61	6
89	PARAMBIKULAM	556.26	546.71	0.380	0.192	09-11-2017	51	35	80	101	-
90	ALIYAR	320.04	311.41	0.095	0.044	09-11-2017	46	14	84	#	60
*91	SHOLAYAR	1002.79	989.17	0.143	0.067	08-11-2017	47	0	77	-	95
TOTAL FOR 91 RESERVOIRS				157.799	105.984						
PERCENTAGE							67	70	70		

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