BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 22.02.2018)

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 **22.02.2018**, live storage available in these reservoirs is **60.665 BCM,** which is **37%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **68.559 BCM** and the average of last 10 years live storage was **66.620 BCM**. Thus, the live storage available in 91 reservoirs **as per 22.02.2018 Bulletin** is **88%** 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 **22.02.2018**, the total live storage available in these reservoirs is **6.13 BCM** which is **34%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **31%** and average storage of last ten years during corresponding period was **35%** 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 **22.02.2018**, the total live storage available in these reservoirs is **11.10 BCM** which is **59%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **66%** and average storage of last ten years during corresponding period was **53%** 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 **22.02.2018**, the total live storage available in these reservoirs is **12.61 BCM** which is **40%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **49%** and average storage of last ten years during corresponding period was **44%** 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 **22.02.2018**, the total live storage available in these reservoirs is **15.80 BCM** which is **37%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **57%** and average storage of last ten years during corresponding period was **42%** 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 **22.02.2018**, the total live storage available in these reservoirs is **15.02 BCM** which is **29%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **22%** and average storage of last ten years during corresponding period was **37%** 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 and Rivers of Kutch. Close to Normal in Ganga, 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 **45** 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 **3** and having storage less than 20% with reference to average of last ten years is **6.** 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 **16.**

****

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 22.02.2018**

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 **22.02.2018** is **60.665** BCM (**37** percent of the live storage capacity at FRL).The current year's storage is nearly **88** percent of last year's storage and **91** percent of the average of last ten years.

3 Region wise storage status:-

REGION (States), (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.	-3 %
									PUNJAB	-32 %
									RAJASTHAN	7 %
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	2	-	2	2	2	-	5	2	JHARKHAND	14 %
									ODISHA	4 %
									W. BENGAL	108 %
									TRIPURA	186 %
WEST (Guj.& Mah.), (27 Resv.)	-	-	1	3	7	5	2	9	GUJARAT	-35 %
									MAH.	20 %
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	1	3	-	8	U.P.	-10 %
									UTTARAKHAND	-22 %
									M.P.	-10 %
									CHHATISGARH	-3 %
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	2	-	1	-	2	5	21	AP&TG	-41 %
									A,P	-45 %
									TG	3 %
									KARNATAKA	-11 %
									KERALA	18 %
									T.N.	-63 %
Status of 91 reservoirs	2	2	3	6	10	11	12	45		

4 Basin wise storage position:

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

Close to normal: Ganga,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 **16** having storage upto 50% of normal storage.

Name of reservoir	**%**	**Name of reservoir**	**%**
SHOLAYAR	0		
ALIYAR	0		
SARDAR SAROVAR	0		
VANIVILAS SAGAR	11		
ISAPUR	14		
YELDARI	19		
TAWA	30		
PARAMBIKULAM	31		
TILAIYA	39		
BALIMELA	39		
METTUR(STANLEY)	40		
LOWER BHAWANI	40		
NAGARJUNA SAGAR	40		
VAIGAI	41		
PENCH (TOTALADOH)	41		
BARNA	44		

19 reservors having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
3	7	9

6 Out of **37** reservoirs with significant(*) hydropower generation, the storage build up is less than or equal to normal in **23** 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 :- 22.02.2018

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	11.239	40.00%	15.869	56.48%	11.482	40.87%	**-2.12**
INDUS	14.730	4.772	32.40%	4.174	28.34%	5.102	34.64%	**-6.47**
NARMADA	21.608	5.361	24.81%	9.321	43.14%	7.322	33.89%	**-26.78**
TAPI	7.394	2.577	34.85%	5.071	68.58%	3.983	53.87%	**-35.30**
MAHI	4.012	2.093	52.17%	2.321	57.85%	1.963	48.93%	**6.62**
SABARMATI	0.735	0.213	28.98%	0.356	48.44%	0.262	35.65%	**-18.70**
RIVERS OF KUTCH	0.887	0.350	39.46%	0.160	18.04%	0.236	26.61%	**48.31**
GODAVARI	15.394	6.138	39.87%	8.242	53.54%	6.523	42.37%	**-5.90**
KRISHNA	32.831	10.071	30.68%	6.361	19.37%	11.258	34.29%	**-10.54**
MAHANADI & NEIGHBOURING EFRS	13.181	8.655	65.66%	9.292	70.50%	7.650	58.04%	**13.14**
CAUVERY& NEIGHBOURING EFRS	8.359	1.876	22.44%	1.306	15.62%	3.384	40.48%	**-44.56**
WEST FLOWING RIVERS OF SOUTH	14.766	7.320	49.57%	6.086	41.22%	7.455	50.49%	**-1.81**
TOTAL	**161.993**	**60.665**		**68.559**		**66.620**		
PERCENTAGE								**-8.94**

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 22.02.2018

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										
	HIMACHAL PRADESH										
*1	GOBIND SAGAR(BHAKRA)	512.06	486.39	6.229	2.515	22-02-2018	40	26	39	676	1200
*2	PONG DAM	423.67	402.53	6.157	1.788	21-02-2018	29	27	32	-	360
	PUNJAB										
*3	THEIN	527.91	495.80	2.344	0.469	22-02-2018	20	37	29	348	600
	RAJASTHAN										
*4	MAHI BAJAJ SAGAR	280.75	273.85	1.711	0.935	22-02-2018	55	62	43	63	140
5	JHAKAM	359.50	348.70	0.132	0.047	22-02-2018	36	41	27	28	-
*6	RANA PRATAP SAGAR	352.81	346.53	1.436	0.371	21-02-2018	26	27	35	229	172
	EASTERN REGION										
	JHARKHAND										
7	TENUGHAT	269.14	259.22	0.821	0.386	22-02-2018	47	50	43	-	-
8	MAITHON	146.3	148.07	0.471	0.471	22-02-2018	100	100	73	342	-
*9	PANCHET HILL	124.97	125.85	0.184	0.184	22-02-2018	100	100	73	$	80
10	KONAR	425.81	419.47	0.176	0.075	22-02-2018	43	55	64	$	-
11	TILAIYA	368.81	364.72	0.142	0.022	22-02-2018	15	44	40	$	4
	ODISHA										
*12	HIRAKUD	192.02	189.53	5.378	3.317	21-02-2018	62	66	62	153	307
*13	BALIMELA	462.08	445.19	2.676	0.480	22-02-2018	18	66	46	-	360
14	SALANADI	82.30	70.69	0.558	0.231	22-02-2018	41	31	32	42	-
*15	RENGALI	123.50	121.79	3.432	2.866	22-02-2018	84	84	54	3	200
*16	MACHKUND(JALPUT)	838.16	836.60	0.893	0.752	22-02-2018	84	52	65	-	115
*17	UPPER KOLAB	858.00	852.27	0.935	0.447	22-02-2018	48	71	49	89	320
*18	UPPER INDRAVATI	642.00	634.38	1.456	0.695	22-02-2018	48	66	57	128	600
	WEST BENGAL										
19	MAYURAKSHI	121.31	119.07	0.480	0.385	22-02-2018	80	38	36	227	-
20	KANGSABATI	134.14	129.89	0.914	0.572	22-02-2018	63	41	31	341	-
	TRIPURA										
21	GUMTI	93.55	91.50	0.312	0.220	20-02-2018	71	51	25	-	15
	WESTERN REGION										
	GUJARAT										
*22	UKAI	105.16	95.43	6.615	2.266	22-02-2018	34	70	56	348	300
23	SABARMATI(DHAROI)	189.59	182.87	0.735	0.213	22-02-2018	29	48	36	95	1
*24	KADANA	127.7	122.61	1.472	0.721	22-02-2018	49	58	57	200	120
25	SHETRUNJI	55.53	52.07	0.300	0.104	21-02-2018	35	38	46	36	-
26	BHADAR	107.89	103.81	0.188	0.058	22-02-2018	31	5	29	27	-
27	DAMANAGANGA	79.86	76.60	0.502	0.336	22-02-2018	67	59	65	51	1
28	DANTIWADA	184.1	177.52	0.399	0.188	22-02-2018	47	9	11	45	-
29	PANAM	127.41	124.80	0.697	0.390	22-02-2018	56	50	52	36	2
*30	SARDAR SAROVAR	138.68	110.19	5.760	0.000	22-02-2018	0	23	19	2120	1450
31	KARJAN	115.25	109.31	0.523	0.355	22-02-2018	68	51	65	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA — CENTRAL WATER COMMISSION

WEEK ENDING :- 22.02.2018

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	461.95	2.171	1.470	22-02-2018	68	56	30	227	-
*33	KOYANA	657.90	652.42	2.652	2.104	22-02-2018	79	52	66	-	1920
34	BHIMA(UJJANI)	496.83	495.74	1.517	1.168	22-02-2018	77	61	48	125	12
35	ISAPUR	441.00	427.09	0.965	0.054	22-02-2018	6	33	41	104	-
36	MULA	552.30	548.99	0.609	0.444	21-02-2018	73	61	47	139	-
37	YELDARI	461.77	449.12	0.809	0.039	22-02-2018	5	18	26	78	-
38	GIRNA	398.07	388.74	0.524	0.160	22-02-2018	31	49	27	79	-
39	KHADAKVASLA	582.47	581.13	0.056	0.038	22-02-2018	68	61	50	78	8
*40	UPPER VAITARNA	603.50	599.69	0.331	0.212	22-02-2018	64	69	68	-	61
41	UPPER TAPI	214.00	212.08	0.255	0.151	22-02-2018	59	64	67	45	-
*42	PENCH (TOTALADOH)	490.00	473.01	1.091	0.167	22-02-2018	15	19	37	127	160
43	UPPER WARDHA	342.50	339.14	0.564	0.303	22-02-2018	54	54	46	70	-
44	BHATSA	142.07	128.02	0.942	0.602	22-02-2018	64	64	59	29.378	15
45	DHOM	747.70	740.87	0.331	0.191	22-02-2018	58	48	44	36.2	2
46	DUDHGANGA	646.00	639.09	0.664	0.460	22-02-2018	69	67	63	2.441	24
47	MANIKDOH (KUKADI)	711.25	703.97	0.288	0.171	22-02-2018	59	23	25	2.2	6
48	BHANDARDARA	744.91	741.83	0.304	0.248	22-02-2018	82	77	62	63.74	46
	CENTRAL REGION										
	UTTAR PRADESH										
49	MATATILA	308.46	303.64	0.707	0.201	21-02-2018	28	43	40	-	30
*50	RIHAND	268.22	258.53	5.649	1.687	22-02-2018	30	53	32	-	300
	UTTRAKHAND										
*51	RAMGANGA	365.30	339.60	2.196	0.697	22-02-2018	32	31	50	1897	198
*52	TEHRI	830.00	785.75	2.615	1.053	22-02-2018	40	39	44	2351	1000
	MADHYA PRADESH										
*53	GANDHI SAGAR	399.90	390.60	6.827	2.181	22-02-2018	32	70	38	220	115
54	TAWA	355.40	338.36	1.944	0.184	22-02-2018	9	33	32	247	-
*55	BARGI	422.76	418.75	3.180	2.115	22-02-2018	67	53	52	157	90
*56	BANSAGAR	341.64	335.67	5.166	2.734	22-02-2018	53	73	49	488	425
*57	INDIRA SAGAR	262.13	251.60	9.745	2.648	22-02-2018	27	53	36	2380	1000
58	BARNA	348.55	340.50	0.456	0.059	22-02-2018	13	46	29	546	-
	CHHATTIS GARH										
*59	MINIMATA BANGOI	359.66	352.91	3.046	1.830	21-02-2018	60	68	59	-	120
60	MAHANADI	348.70	344.45	0.767	0.411	21-02-2018	54	82	65	319	10
	SOUTHERN REGION										
	A.P & TG										
*61	SRISAILAM	269.75	258.62	8.288	2.079	22-02-2018	25	16	37	0	770
*62	NAGARJUNA SAGAR	179.83	158.86	6.841	0.561	22-02-2018	8	3	20	895	810
	ANDHRA PRADESH										
63	SOMASILA	100.58	88.78	1.994	0.603	22-02-2018	30	31	55	168	0
	TELANGANA										
64	SRIRAMSAGAR	332.54	325.83	2.300	0.764	22-02-2018	33	52	30	411	27
65	LOWER MANAIR	280.42	273.97	0.621	0.275	22-02-2018	44	63	49	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA — CENTRAL WATER COMMISSION

WEEK ENDING :- 22.02.2018

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	742.04	1.163	0.335	19-02-2018	29	14	50	79	-
*67	TUNGABHADRA	497.74	485.98	3.276	0.385	22-02-2018	12	4	21	529	72
68	GHATAPRABHA	662.95	648.32	1.391	0.520	22-02-2018	37	22	21	317	-
69	BHADRA	657.76	647.70	1.785	0.800	22-02-2018	45	23	64	106	39
70	LINGANAMAKKI	554.43	542.99	4.294	1.618	22-02-2018	38	34	49	-	55
71	NARAYANPUR	492.25	489.49	0.863	0.425	22-02-2018	49	58	69	425	-
72	MALAPRABHA(RENUKA)	633.83	623.35	0.972	0.119	22-02-2018	12	14	16	215	-
73	KABINI(Sancherla Tank)	696.16	691.27	0.444	0.194	19-02-2018	44	11	34	85	-
74	HEMAVATHY	890.63	875.85	0.927	0.169	19-02-2018	18	10	23	265	-
75	HARANGI	871.42	858.37	0.220	0.054	19-02-2018	25	30	17	53	-
76	SUPA	564.00	544.07	4.120	2.070	22-02-2018	50	46	47	-	-
77	VANIVILAS SAGAR	652.28	632.02	0.802	0.014	22-02-2018	2	3	15	123	-
*78	ALMATTI	519.60	513.20	3.105	1.036	22-02-2018	33	9	22	@	290
*79	GERUSOPPA	55.00	52.95	0.130	0.118	22-02-2018	91	74	79	83	240
	KERALA										
80	KALLADA(PARAPPAR)	115.82	115.03	0.507	0.466	19-02-2018	92	38	64	62	-
*81	IDAMALAYAR	169.00	153.50	1.018	0.597	19-02-2018	59	48	51	33	75
*82	IDUKKI	732.43	719.96	1.460	0.822	19-02-2018	56	33	48	-	780
*83	KAKKI	981.46	975.52	0.447	0.351	19-02-2018	79	49	66	23	300
*84	PERIYAR	867.41	860.30	0.173	0.030	19-02-2018	17	7	24	84	140
85	MALAPMUZHA	115.06	103.16	0.224	0.036	22-02-2018	16	17	24	21	3
	TAMIL NADU										
86	LOWER BHAWANI	278.89	263.52	0.792	0.123	20-02-2018	16	10	39	105	8
*87	METTUR(STANLEY)	240.79	217.18	2.647	0.380	20-02-2018	14	9	36	122	360
88	VAIGAI	279.20	268.33	0.172	0.018	19-02-2018	10	3	26	61	6
89	PARAMBIKULAM	556.26	538.89	0.380	0.062	20-02-2018	16	8	52	101	-
90	ALIYAR	320.04	300.41	0.095	0.000	19-02-2018	0	4	44	#	60
*91	SHOLAYAR	1002.79	957.22	0.143	0.000	19-02-2018	0	0	6	-	95
	TOTAL FOR 91 RESERVOIRS			**161.993**	**60.665**						
	PERCENTAGE						**37**	**42**	**41**		

Sd/-

Director

W. M. , CWC

* 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.