BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 03.01.2019)

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 03.01.2019, live storage available in these reservoirs is 86.646 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 84.579 BCM and the average of last 10 years live storage was 89.527 BCM. Thus, the live storage available in 91 reservoirs as per 03.01.2019 Bulletin is 102% of the live storage of corresponding period of last year and 97% of storage of average of last ten years.

The overall storage position is **more 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 03.01.2019, the total live storage available in these reservoirs is 12.14 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 54% 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.

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 03.01.2019, the total live storage available in these reservoirs is 12.06 BCM which is 64% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 72% 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 corresponding period of last year and is also less 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 03.01.2019, the total live storage available in these reservoirs is 12.41 BCM which is 40% 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 54% 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 03.01.2019, the total live storage available in these reservoirs is 27.02 BCM which is 64 % 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 56% of live storage capacity of these reservoirs. Thus, storage during current year is better than the storage of last year and is 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 (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 03.01.2019, the total live storage available in these reservoirs is 23.02 BCM which is 45% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 46% 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 corresponding period of last year and is also 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 Indus, Narmada, Mahi, and West Flowing Rivers of South and Cauvery & neighbouring EFRs. Close to Normal in Sabarmati, Ganga, Godavari and Mahanadi & Neighbouring East Flowing Rivers, Deficient in Tapi and Krishna and Highly Deficient in Rivers of Kutch.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are 38 and reservoirs having storage more than average of last ten years are 34. The numbers of reservoirs having storage less than 20% with respect to last year is 2 and having storage less than 20% with reference to average of last ten years is 3. The number of reservoirs having storage less than or equal to 50% with respect to last year are 15 and having storage less than or equal to 50% with reference to average of last ten years are 14.

Disclaimer: The Data contained in this Bulletin is as received from the State Government/Project Authorities.

STORAGE STATUS OF IMPORTANT RESERVOIRS IN THE COUNTRY

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

2 The total live storage in 91 important reservoirs in different parts of the country, monitored by CWC as on BCM (53 percent of the live storage capacity at FRL). The current year's storage is nearly 102

percent of last year's storage and 97 percent of the average of last ten years.

3 Region wise storage status:-

REGION (States),		Filling	positio	on of 9	1 reser	voirs w	r.t. FR	RI.		
(Monitoring No. of Reservoirs)	100%	91%- 99%	81%- 90%	71%- 80%	61%- 70%	51%- 60%	41%-	40% & below		from Norma rage
NORTH							0070	Delow		3
(HP,Punjab & Rajasthan), (6 Resv.) EAST	1	-	-	2	2	-	-		H.P. PUNJAB RAJASTHAN	25 % 57 %
(Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	-	-	2	4	2	2	2	3	JHARKHAND ODISHA W. BENGAL	12 % -21 % -3 % -27 %
WEST (Guj.& Mah.), 27 Resv.)	-	-	2	4	2	3	4	12	TRIPURA GUJARAT	54 % -26 %
CENTRAL MP,UP,Uttarakhand & Chh.), 12 Resv)	-	1	1	2	2	1	1	4	MAH. J.P. JTTARAKHAND M.P. CHHATISGARH	-27 % -1 % -1 % 22 %
GOUTH Karnataka,TN,AP&TG,AP, G, & Kerala), 31 Resv.)	-	-	5	4	4	2	5	11 K	NP&TG N,P G ARNATAKA ERALA	-3 % -45 % -42 % -24 % -2 % 5 %
tatus of 91 reservoirs asin wise storage position:	1	1	10	16	12	8	12	31 T.	.N.	23 %

Better than normal: Indus, Narmada $\,$, Mahi, West Flowing Rivers of South and Cauvery & neighbouring EFRS .

Close to normal:

Ganga, sabarmati, Godavari and Mahanadi & Neighbouring EFRS

Deficient: Highly deficient:

Tapi and Krishna.

5 Out of 91 reservoirs,

storage.

Rivers of Kutch

61 80% or below of normal storage.

reservoirs reported more than 80% of normal storage & Out of these

30 reservoirs

30 reservoirs reported 14 having storage upto 50% of normal

16 reservors having storage 51% to 80% of normal storage

51% 61% 71% to to to 60% 70% 80% 7 5 4

Name of reservoir	%	Name of	
VANIVILAS SAGAR	17	Name of reservoir	%
PENCH (TOTALADOH)	20		
YELDARI	20		
SHETRUNJI	34		
NARAYANPUR	35		
Control of the Contro	00		

	04
NARAYANPUR	35
DANTIWADA	35
MANIKDOH	35
MULA	36
TILAIYA	38
SRISAILAM	38
UPPER WARDHA	41
BHADAR	41

JAYAKWADI(PAITHON)

UKAI

42

WEEKLY REPORT - BASINWISE

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	VVEENE	ADING :-	3.1.2019					
NAME OF BASIN	LIVE CAP. AT FRL	THIS YEAR'S STORAGE		LAST YEAR'S STORAGE		LAST 10 YEARS' AVG. STORAGE		% DEPARTUR W.R.T. AVE. O
GANGA	28.096	14.034	49.95%	45.440				10 YEARS'
INDUS	14.730			15.443		14.729	52.42%	-4.72
NARMADA		10.249		7.715		7.965	54.07%	28.68
TAPI	21.608	14.775		7.692	35.60%	10.525	48.71%	40.38
MAHI	7.394	2.136	28.89%	3.142	42.49%	4.627	62.58%	-53.84
SABARMATI	4.012	2.713	67.62%	2.820	70.29%		61.14%	10.60
	0.735	0.328	44.63%	0.380		0.362		
RIVERS OF KUTCH	0.887	0.130	14.66%	0.527		0.362	40.81%	-9.39
GODAVARI	15.394	7.426	48.24%	8.227	53.44%			-64.09
KRISHNA	32.831	11.911	36.28%			8.457	54.94%	-12.19
MAHANADI & NEIGHBOURING EFRS	13.181	8.272		16.663	50.75%	16.683	50.81%	-28.60
CAUVERY& NEIGHBOURING EFRS	8.359		62.76%	9.841	74.66%	9.698	73.58%	-14.70
WEST FLOWING RIVERS OF SOUTH		4.339		3.274	39.17%	4.199	50.23%	3.33
TOTAL	14.766	10.333	69.98%	8.855	59.97%	9.467	64.11%	9.15
PERCENTAGE	161.993	86.646		84.579		89.527		0.10
LICENTAGE								-3.22

			T	WE	EK ENDING	:- 3.1.2019		CENTRAL	WATER C	OMMISS	ION
S. NAME OF PERSON	FRL	CURRENT	LIVE	CURRENT LI		STORAGE AS % OF LIVE CAPACITY AT FRL BENEF					
NO 1	NAME OF RESERVOIR	(m)	RESERVOIR LEVEL (m)	CAPACITY AT FRL (BCM)	STORAGE (BCM)		CURRENT YEAR	LAST YEAR	LAST 10 YEARS AVERAGE	IRR. (CCA) II	
	ORTHERN REGION	4	6	5	7	8	9	10			
		_					9	10	11	3A	3B
	HIMACHAL PRADESH										
	GOBIND SAGAR(BHAKRA	512.06	504.26	6.229	4.75	9 03-01-2019	70				
	PONG DAM PUNJAB	423.67	415.07	6.157	3.98		76 65	63	62		120
	THEIN					2010	03	48	51	-	36
	RAJASTHAN	527.91	516.25	2.344	1.50	7 03-01-2019	64	35	44	0.40	
	MAHI BAJAJ SAGAR							33	41	348	60
	HAKAM	280.75	277.05	1.711	1.252	03-01-2019	73	79	60	20	
	ANA PRATAP SAGAR	359.50	354.50	0.132	0.132	2 03-01-2019	100	66	63		14
E	ASTERN REGION	352.81	347.46	1.436	0.503	03-01-2019	35	27	54 38	28	
	HARKHAND	• *							30	229	17:
	ENUGHAT										
	AITHON	269.14	258.82	0.821	0.371	03-01-2019	45	50	47		
	ANCHET HILL	146.3	142.55	0.471	0.256	03-01-2019	54	100	86	240	
	DNAR	124.97	124.17	0.184	0.146	03-01-2019	79	100	84	342	
	-AIYA	425.81	422.61	0.176	0.122	03-01-2019	69	72	78	\$	80
	DISHA	368.81	365.19	0.142	0.033	03-01-2019	23	52	62	\$	
	RAKUD	100.00						-	02	\$	4
	LIMELA	192.02	190.47	5.378	3.834	03-01-2019	71	78	82	150	00=
	LANADI	462.08	459.60	2.676	2.215	03-01-2019	83	38	52	153	307
	NGALI	82.30	74.16	0.558	0.314	03-01-2019	56	43	35	40	360
	CHKUND(JALPUT)	123.50	117.77	3.432	1.628	03-01-2019	47	90	74	42	-
	PER KOLAB	838.16	836.15	0.893	0.722	03-01-2019	81	91	77	3	200
	PER INDRAVATI	858.00	855.23	0.935	0.673	27-12-2018	72	60	61	89	115
	ST BENGAL	642.00	638.66	1.456	1.103	27-12-2018	76	58	69	128	320
	YURAKSHI	404.04							05	120	600
	NGSABATI	121.31	111.77	0.480	0.116	03-01-2019	24	95	44	227	
	PURA	134.14	126.26	0.914	0.333	03-01-2019	36	88	44	341	-
GUI		00.55								341	-
WE:	STERN REGION	93.55	90.80	0.312	0.191	02-01-2019	61	81	40	_	15
	JARAT										15
UKA		105.16	00.50								
SABA	ARMATI(DHAROI)	189.59	93.50	6.615	1.764	03-01-2019	27	40	64	348	300
KADA		127.7	181.46	0.735	0.328 (03-01-2019	45	52	49	95	1
SHET	RUNJI	55.53	124.33	1.472	0.865 (03-01-2019	59	63	62	200	120
BHAE	MAR	107.89	50.52	0.300	0.062	03-01-2019	21	51	61	36	-
DAMA	ANAGANGA		102.54	0.188	0.035	03-01-2019	19	54	45	27	-
	TWADA	79.86	75.00	0.502	0.276 0	3-01-2019	55	85	81	51	1
PANA	NA.	184.1	168.52	0.399	0.033 0	3-01-2019	8	68	24	45	
	AP CAROVAR	127.41	126.05	0.697	0.464 0	3-01-2019	67	66	58	36	2
ARJ	0.01	138.68	123.46	5.760	1.845 0	3-01-2019	32	16			450
UTITU	TUN	115.25	109.93	0.523	0.370 0	3-01-2019	71	79	75	51	3

CENTRAL WATER COMMISSION

				WE	EK ENDING	:- 3.1.2019	CENTRAL WATER COMMISSION					
	S. NAME OF RESERVOIR		CURRENT				STORAGE A	AS % OF LIVE		AT		
N	IO NAME OF RESERVOIR	FRL (m)	CURRENT RESERVOIR LEVEL (m)	LIVE CAPACITY AT FRL (BCM)	CURRENT LIV STORAGE (BCM)	DATE	CURRENT YEAR	FRL LAST YEAR	LAST 10 YEARS AVERAGE	IRR (CCA)	IN IN	
	1 2	4	6	5	7	8	0					
	MAHARASHTRA					8	9	10	11	3A	38	
3	2 JAYAKWADI(PAITHON)	463.91	458.11	2 171								
*3	3 KOYANA	657.90	653.21	2.171	0.45	01 2010	21	83	4	2 22	7	
34	4 BHIMA(UJJANI)	496.83	493.85	2.652	2.169	2010	82	94	8	1	- 19	
35	SISAPUR	441.00	435.08	1.517	0.635	00 01 2010	42	100	69	9 12		
36	MULA	552.30	540.62	0.965	0.455	1 2010	47	11	46	3 10	4	
37	YELDARI	461.77	449.75	0.609	0.144	1 2010	24	87	65	5 139	9	
38	GIRNA	398.07	389.91	0.809	0.056		7	6	34	78	3	
39	KHADAKVASLA	582.47	580.77	0.524	0.192	2010	37	53	38	79)	
*40	UPPER VAITARNA	603.50	601.80	0.056	0.034	03-01-2019	61	63	63	78		
41	UPPER TAPI	214.00		0.331	0.276	2010	83	94	85		(
*42	PENCH (TOTALADOH)	490.00	212.71	0.255	0.180	02-01-2019	71	83	85	45		
	UPPER WARDHA	342.50	470.47	1.091	0.105	02-01-2019	10	20	49	127	16	
44	BHATSA		336.49	0.564	0.154	03-01-2019	27	71	67	70	.,	
45	DHOM	142.07	130.95	0.942	0.665	27-12-2018	71	81	77	29.378		
46	DUDHGANGA	747.70	740.58	0.331	0.186	28-12-2018	56	79	69	36.2	1	
	MANIKDOH (KUKADI)	646.00	640.38	0.664	0.498	03-01-2019	75	86	81	2.441	,	
48	BHANDARDARA	711.25 744.91	691.42	0.288	0.042	02-01-2019	15	76	42	2.2	2	
	CENTRAL REGION	7 14.01	730.90	0.304	0.124	01-01-2019	41	98	78	63.74	4	
	UTTAR PRADESH										7	
	MATATILA	308.46										
*50	RIHAND		304.50	0.707	0.239	01-01-2019	34	39	55		30	
	UTTRAKHAND	268,22	260.70	5.649	2.517	03-01-2019	45	47	42		300	
	RAMGANGA	205.00									300	
	TEHRI	365.30	352.34	2.196	1.307	03-01-2019	60	55	64	1897	100	
	MADHYA PRADESH	830.00	812.09	2.615	1.905	02-01-2019	73	68	70	2351	198	
	GANDHI SAGAR								70	2331	1000	
	AWA	399.90	389.34	6.827	1.788	03-01-2019	26	48	48	220		
	ARGI	355.40	346.44	1.944	0.770	03-01-2019	40	38	60	220	115	
	ANSAGAR	422.76	418.70	3.180	2.104	03-01-2019	66	77		247	-	
	IDIRA SAGAR	341.64	339,49	5.166	4.207	03-01-2019	81		70	157	90	
	ARNA	262.13	261.84	9.745		03-01-2019	98	60	58	488	425	
		348.55	343.11	0.456		03-01-2019	32	31	54	2380	1000	
	HHATTIS GARH					S	32	34	55	546	-	
	INIMATA BANGOI	359.66	353.73	3.046	1.946 0	3-01-2019	64	00				
	AHANADI	348.70	346.21	0.767		3-01-2019	72	62	65	-	120	
	UTHERN REGION					2.2010	12	56	75	319	10	
	P & TG											
	RISAILAM	269.75	255.64	8.288	1.598 0:	2.01.2010						
	GARJUNA SAGAR	179.83	166.09	6.841		3-01-2019	19	47	50	0	770	
AN	IDHRA PRADESH			5.541	1.898 0;	3-01-2019	28	24	31	895	810	
s so	MASILA	100.58	90.85	1.004	0.755							
TE	LANGANA		00.00	1.994	0.779 03	3-01-2019	39	54	68	168	0	
SR	IRAMSAGAR	332.54	326.69	2 200	0.00-							
	WER MANAIR	280.42	274.35	2.300		3-01-2019	40	52	53	411	27	
			274.00	0.621	0.292 03	3-01-2019	47	66	61	199	60	

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

				WE	EK ENDING	:- 3.1.2019		CLIVIKAL	WATER CO	MMISSI	NC
S.		FRL	CURRENT	LIVE	CURRENT LIV	75	STORAGE A	AS % OF LIVE (CAPACITY AT	BEN	IEFITS
NO 1		(m)	RESERVOIR LEVEL (m)	CAPACITY AT FRL (BCM)	STORAGE (BCM)	DATE	CURRENT , YEAR	LAST YEAR	LAST 10 YEARS AVERAGE	IRR. (CCA) IN TH. HA	HYD IN MV
	2	4	6	5	7	8	9	40			
	KARNATAKA						9	10	11	3A	3
	KRISHNARAJA SAGRA	752.50	749.37	1.163	0.910	02.04.0040					
	TUNGABHADRA	497.74	489.57	3.276	0.807	01 2010	78	51	62	79	
68	GHATAPRABHA	662.95	653.75	1.391		2010	25	36	43	529	
69	BHADRA	657.76	655.32	1.785	0.757		54	69	50	317	
70	LINGANAMAKKI	554.43	549.60	4.294	1.543		86	71	79	106	
71	NARAYANPUR	492.25	487.31	0.863	2.948	03-01-2019	69	50	64	-	
72	MALAPRABHA(RENUKA)	633.83	625.84		0.231	03-01-2019	27	67	78	425	
	KABINI(Sancherla Tank)	696.16	693.90	0.972	0.235	01-01-2019	24	20	34	215	
	HEMAVATHY	890.63	877.79	0.444	0.319	03-01-2019	72	64	34	85	
75 H	HARANGI	871.42		0.927	0.234	03-01-2019	25	22	27	265	
76 S	SUPA	564.00	855.68	0.220	0.035	03-01-2019	16	28	14	53	
77 V	ANIVILAS SAGAR	652.28	553.66	4.120	2.954	03-01-2019	72	54	56		
	LMATTI	519.60	632.90	0.802	0.025	20-12-2018	3	2	18	123	
79 G	GERUSOPPA		514.23	3.105	1.253	03-01-2019	40	60	51	@	29
	ERALA	55.00	52.74	0.130	0.117	03-01-2019	90	89	85	83	
	ALLADA(PARAPPAR)								00	03	24
	DAMALAYAR	115.82	114.08	0.507	0.448	01-01-2019	88	94	79	00	
	DUKKI	169.00	155.05	1.018	0.633	01-01-2019	62	70	67	62	
33 KA		732.43	725.47	1.460	1.079	01-01-2019	74	66		33	75
	ERIYAR	981.46	972.01	0.447	0.305	01-01-2019	68	87	61	-	780
		867.41	862.83	0.173	0.073	03-01-2019	42		77	23	300
	ALAPMUZHA	115.06	109.06	0.224	0.105	03-01-2019	47	37	49	84	140
	AMIL NADU						47	41	53	21	3
	OWER BHAWANI	278.89	276.78	0.792	0.669	03-01-2019	84	00			
	ETTUR(STANLEY)	240.79	229.89	2.647		03-01-2019		36	47	105	8
	IGAI	279.20	274.71	0.172		03-01-2019	49	28	47	122	360
	RAMBIKULAM	556.26	553.21	0.380		03-01-2019	48	26	43	61	6
ALI		320.04	313.97	0.095		03-01-2019	83	37	64	101	-
	OLAYAR	1002.79	992.42	0.143			61	20	63	#	60
	TAL FOR 91 RESERVOIRS			161.993	86.646	03-01-2019	56	0	34	-	95
PER	RCENTAGE				30.070						

^{*} HYDEL POWER CAPACITY HAVING CAPACITY MORE THAN 60MW

Sd/-

Director

W. M., CWC

^{\$} TOTAL CCA 342 TH. HA OF DVC SYSTEM

[#] TOTAL CCA 101 TH. HA OF PARAMBIKULAM & ALIYAR

^{@&#}x27; TOTAL CCA 425 TH. HA. OF NARAYANPUR AND ALMATTI

[†] SABARMATI RESERVOIR IS SUPPLEMENTED WITH NARMADA WATER THROUGH PIPELINE.