BRIEF NOTE ON STORAGE STATUS OF 91 IMPORTANT RESERVOIRS IN THE COUNTRY(WITH REFERENCE TO RESERVOIR BULLETIN OF 21.05.2015)

1. ALL INDIA STATUS

Central Water Commission is monitoring live storage status of 91 important reservoirs of the country on weekly basis and is issuing weekly bulletin on every Thursday. These reservoirs include 37 reservoirs having hydropower benefit with installed capacity of more than 60 MW. The total live storage capacity of these 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 bulletin of 21.05.2015, live storage available in these reservoirs was 44.792 BCM which is 28% of total live storage capacity of these reservoirs. This storage is 100% of the storage of corresponding period of last year and 135% of storage of average of last ten years. The present storage position during current year is equal to the storage position of last year but is better than the storage of average of last ten years.

As per Table-01, the overall storage position is **less than** corresponding period of last year in the country as a whole but is better 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 in this region having total live storage capacity of 18.01 BCM. The total live storage available in these reservoirs is **7.63** BCM which is **42%** 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 **28%** 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 in this region having total live storage capacity of 18.83 BCM. The total live storage available in these reservoirs is **6.76** BCM which is **36%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **41%** and average storage of last ten years during corresponding period was **20%** 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 in this region having total live storage capacity of 27.07 BCM. The total live storage available in these reservoirs is **7.21** BCM which is **27%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **32%** and average storage of last ten years during corresponding period was **27%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the storage of last year and is equal to the average storage of last ten years.

d) CENTRAL REGION

The Central region includes States of Uttar Pradesh, Uttarakhand, Madhya Pradesh and Chhattisgarh. There are 12 reservoirs in this region having total live

storage capacity of 42.30BCM. The total live storage available in these reservoirs is **14.42** BCM which is **34%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **34%** and average storage of last ten years during corresponding period was **17%** of live storage capacity of these reservoirs. Thus, storage during current year is equal to the storage of last year but better than the average storage of last ten years.

e) SOUTHERN REGION

The Southern region includes States of Andhra Pradesh, Telangana, AP&TG(2combined project in both states) Karnataka, Kerala and Tamil Nadu. There are 31 reservoirs in this region having total live storage capacity of 51.59 BCM. The total live storage available in these reservoirs is **8.78** BCM which is **17%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **15%** and average storage of last ten years during corresponding period was **19%** 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 6, better than normal storage is available in Ganga, Indus, Narmada, Mahi, Rivers of Kutch, Godavari, Mahanadi & neighbouring East Flowing Rivers, and West Flowing Rivers of South. Close to Normal in Tapi and Cauvery& neighbouring EFRs and Deficient in Sabarmati and Krishna.
- Table on page 5: IMD has divided India in 36 meteorological sub-divisions. The data in respect of reservoir storage as compared with observed rainfall is given in the table.
- Table on page 6: Normal, Close to normal, Deficient and Highly Deficient having the same meaning as given at Bullet No.1.
- Table on page 7-9 of the bulletin. The numbers of reservoirs having storagemore than last year are 41 and reservoirs having storage more than average of last ten years are 52. 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 3. The numbers of reservoirs having storage less than 50% with respect to last year are 12 and having storage less than 50% with reference to average of last ten years are 10.

States having better storage than last year for corresponding period: Himachal Pradesh, Punjab, Uttarakhand, Madhya Pradesh, Karnataka, Kerala and Tamil Nadu.

States having equal storage to last year for corresponding period: NIL

States having lesser storage than last year for corresponding period: Rajasthan, Jharkhand, Odisha, West Bengal, Tripura, Gujarat, Maharashtra, Uttar Pradesh, Chattisgarh, Andhra Pradesh, Telangana, AP&TG(2combined project in both states).

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 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
 21.05.2015 is 44.792 BCM (28 percent of the storage capacity at FRL). The current year's storage is nearly percent of last year's storage and 135 percent of the average of last ten years.

3 Region wise storage status:-

		Filling	positio	L							
REGION (States), (Monitoring No. of Reservoirs)	100%	91%- 99%	81%- 90%	71%- 80%	61%- 70%	51%- 60%	41%- 50%	40% & below	Departure f stor		
NORTH (HP,Punjak & Rajasthan), (6 Resv.)	-	-	1	-	1	-	1	4	H.P. PUNJAB RAJASTHAN	61 % 82 % -17 %	
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	-	-	-	-	1	2	4	9	JHARKHAND ODISHA W. BENGAL TRIPURA	12 % 95 % 59 % -61 %	
WEST (Guj.& Mah.), (27 Resv.)	-	-	1	-	2	1	2	21	GUJARAT MAH.	8 % -17 %	
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	2	2	-	-	8	U.P. UTTARAKHAND M.P. CHHATISGARH	65 % 147 % 129 % 44 %	
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	2	-	-	-	1	28	AP&TG A,P TG KARNATAKA KERALA T.N.	-93 % -53 % 39 % 52 % 50 % -19 %	
Status of 91 reservoirs	0	0	4	2	4	3	8	70			

4 Basin wise storage position:

Better than normal: Ganga,Indus,Narmada,Mahi,,Rivers of Kutch,Godavari,Mahanadi & Neighbouring EFRS, and West

Flowing rivers of south.

Close to normal: Tapi and Cauvery & neighbouring EFRS. .

Deficient: Sabarmati and Krishna

Highly deficient: NIL

5 Out of 91 reservoirs, **67** reservoirs reported more than 80% of normal storage & **24** reservoirs reported 80% or below of normal storage.

Out of these 24	reservoirs	10 h	aving storag	e upto 50% of normal stor	rage
Name of reservoir	%	Name of reser	voir %	Name of reservoir	%
SRISAILAM	0				
BHIMA(UJJANI)	0				
NAGARJUNA SAGAR	13				
MAHANADI	29				
JAYAKWADI(PAITHON)	32				
VANIVILAS SAGAR	33				
GUMTI	39				
YELDARI	44				
SOMASILA	47				
RANA PRATAP SAGAR	50				

14	14 reservors									
having storage 51%										
to 80% of normal										
storage	storage.									
51%	61%	71%								
to	to	to								
60%	70%	80%								
3	6	5								

12 reservoirs.

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

WEEKLY REPORT - BASINWISE

157.799

GOVERNMENT OF INDIA

TOTAL

PERCENTAGE

CENTRAL WATER COMMISSION

33.223

34.82

	WEEK EN	NDING :-	21.05.201	5				
NAME OF BASIN	LIVE CAP. AT FRL THIS YEAR'S STORAGE		LAST Y STOR		LAST 10 AVG. ST		% DEPARTURE W.R.T. AVE. OF 10 YEARS'	
GANGA	28.096	10.111	35.99%	11.201	39.87%	4.992	17.77%	102.54
INDUS	14.730	6.777	46.01%	5.573	37.83%	4.073	27.65%	66.39
NARMADA	17.414	4.665	26.79%	3.248	18.65%	2.656	15.25%	75.64
TAPI	7.394	1.685	22.79%	2.733	36.96%	2.010	27.18%	-16.17
MAHI	4.012	1.731	43.15%	2.243	55.91%	1.426	35.54%	21.39
SABARMATI	0.735	0.095	12.93%	0.131	17.82%	0.151	20.54%	-37.09
RIVERS OF KUTCH	0.887	0.078	8.79%	0.141	15.90%	0.060	6.76%	30.00
GODAVARI	15.394	3.980	25.85%	5.734	37.25%	2.902	18.85%	37.15
KRISHNA	32.831	3.797	11.57%	2.216	6.75%	5.675	17.29%	-33.09
MAHANADI & NEIGHBOURING EFRS	13.181	5.515	41.84%	6.132	46.52%	3.408	25.86%	61.83
CAUVERY& NEIGHBOURING EFRS	8.359	2.036	24.36%	1.778	21.27%	2.363	28.27%	-13.84
WEST FLOWING RIVERS OF SOUTH	14.766	4.322	29.27%	3.756	25.44%	3.507	23.75%	23.24
TOTAL	1							

44.792

44.886

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNMENT OF INDIA			\A/=:	EK ENDING -	21.05.2016		CENTRAL \	VATER CO	MMISSIO	N
			CURRENT	LIVE	EK ENDING :-	21.00.2010	STORAGE A	S % OF LIVE C	APACITY AT	BENE	EFITS
S. NO	NAME OF RESERVOIR	FRL (m)	RESERVOIR LEVEL (m)	CAPACITY AT FRL (BCM)	CURRENT LIVE STORAGE (BCM)	DATE	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
	ORTHERN REGION										
	HIMACHAL PRADESH										
*1	GOBIND SAGAR(BHAKRA)	512.06	487.14	6.229	2.591	5/21/2015	42	31	22	676	1200
*2	PONG DAM PUNJAB	423.67	405.46	6.157	2.227	5/21/2015	36	31	27	-	360
*3	THEIN	527.91	522.90	2.344	1.959	5/21/2015	84	74	46	348	600
	RAJASTHAN										
*4	MAHI BAJAJ SAGAR	280.75	268.85	1.711	0.512	5/20/2015	30	41	22	63	140
5	JHAKAM	359.50	343.40	0.132	0.024	5/20/2015	18	36	17	28	-
	RANA PRATAP SAGAR EASTERN REGION	352.81	346.11	1.436	0.312	5/21/2015	22	42	44	229	172
	<u>JHARKHAND</u>										
7	TENUGHAT	269.14	257.83	0.821	0.337	5/19/2015	41	48	29	-	-
8	MAITHON	146.3	137.47	0.471	0.083	5/19/2015	18	48	31	342	-
*9	PANCHET HILL	124.97	122.00	0.184	0.062	5/19/2015	34	78	35	\$	80
10	KONAR	425.81	419.83	0.176	0.080	5/19/2015	45	56	34	\$	-
11	TILAIYA	368.81	365.55	0.142	0.041	5/19/2015	29	36	20	\$	4
	<u>ODISHA</u>										
*12	HIRAKUD	192.02	184.58	5.378	1.205	5/19/2015	22	29	21	153	307
*13	BALIMELA	462.08	453.54	2.676	1.375	5/20/2015	51	53	17	-	360
14	SALANADI	82.30	69.80	0.558	0.213	5/21/2015	38	77	22	42	-
*15	RENGALI	123.50	118.31	3.432	1.773	5/20/2015	52	45	15	3	200
*16	MACHKUND(JALPUT)	838.16	828.51	0.893	0.278	5/20/2015	31	49	38	-	115
*17	UPPER KOLAB	858.00	852.01	0.935	0.427	5/20/2015	46	36	18	89	320
*18	UPPER INDRAVATI	642.00	633.28	1.456	0.604	5/21/2015	41	32	18	128	600
	WEST BENGAL										
	MAYURAKSHI	121.31	109.52		0.072	5/19/2015	15	25	17	227	-
20	KANGSABATI	134.14	123.00	0.914	0.191	5/19/2015	21	40	9	341	-
	TRIPURA										
	GUMTI WESTERN REGION	93.55	84.75	0.312	0.015	5/19/2015	5	17	12	-	15
	GUJARAT										
*00		105 40	00.00	0.045	4 404	E/20/2045	00	00	00	240	200
	UKAI SARARMATI(DHAROI)	105.16	92.03		1.461	5/20/2015	22	38	28	348	300
	SABARMATI(DHAROI)	189.59	179.99		0.095	5/20/2015	13	18	21	95	1
	KADANA	127.7 55.53	124.44		0.874 0.037	5/20/2015	59 12	75 17	51 7	200	120
	SHETRUNJI BHADAR	107.89	49.12 101.95		0.037	5/19/2015 5/19/2015	14	41	19	36 27	-
	DAMANAGANGA	79.86	68.40		0.027	5/19/2015	19	19	30		1
	DANTIWADA	184.1	162.44		0.093	5/20/2015	4	3	1		'
	PANAM	127.41	123.45		0.321	5/20/2015	46	56	40	36	2
	SARDAR SAROVAR	121.92	120.51		1.310	5/20/2015	84	37	35	2120	1450
	KARJAN	115.25	100.12		0.173	5/20/2015	33	47	50	51	3
01			100.12	0.020	0.170	3,23,2010	33		30	01	3

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNMENT OF INDIA	WEEK ENDING :- 21.05.2015					'IN				
			CURRENT	LIVE	EN ENDING .	21.00.2010	STORAGE A	S % OF LIVE C	CAPACITY AT	BENI	EFITS
S. NO	NAME OF RESERVOIR	FRL (m)	RESERVOIR LEVEL (m)	CAPACITY AT FRL (BCM)	CURRENT LIVE STORAGE (BCM)	DATE	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	456.37	2.171	0.136	5/20/2015	6	9	19	227	-
*33	KOYANA	657.90	638.30	2.652	0.846	5/20/2015	32	11	32	-	1920
34	BHIMA(UJJANI)	496.83	489.64	1.517	0.000	5/20/2015	0	0	8	125	12
35	ISAPUR	441.00	430.06	0.965	0.191	5/20/2015	20	55	25	104	-
36	MULA	552.30	537.92	0.609	0.077	5/14/2015	13	23	18	139	-
37	YELDARI	461.77	449.15	0.809	0.039	5/20/2015	5	46	11	78	-
38	GIRNA	398.07	384.26	0.524	0.046	5/20/2015	9	15	17	79	-
39	KHADAKVASLA	582.47	580.95	0.056	0.036	5/20/2015	64	66	29	78	8
*40	UPPER VAITARNA	603.50	594.56	0.331	0.082	5/20/2015	25	45	35	-	61
41	UPPER TAPI	214.00	212.66	0.255	0.178	5/20/2015	70	58	24	45	-
*42	PENCH (TOTALADOH)	490.00	471.91	1.091	0.153	5/20/2015	14	49	22	127	160
43	UPPER WARDHA	342.50	337.01	0.564	0.180	5/21/2015	32	39	33	70	-
44	BHATSA	142.07	117.35	0.942	0.403	4/16/2015	43	49	45	29.378	15
45	DHOM	747.70	733.93	0.331	0.133	5/14/2015	40	23	32	36.2	2
	DUDHGANGA	646.00	628.70	0.664	0.213	5/14/2015	32	28	31	2.441	24
	MANIKDOH (KUKADI) BHANDARDARA	711.25	684.26	0.288	0.024	5/14/2015	8	5	5	2.2	
	CENTRAL REGION	342.50	337.01	0.304	0.180	5/21/2015	32	39	33	70	-
	UTTAR PRADESH	•									
49	MATATILA	308.46	307.15	0.707	0.502	5/20/2015	71	44	26	_	30
	RIHAND	268.22	256.16	5.649	0.891	5/20/2015	16	24	12	_	300
	UTTRAKHAND										
*51	RAMGANGA	365.30	353.41	2.196	1.366	5/20/2015	62	64	25	1897	198
*52	TEHRI	830.00	753.75	2.615	0.262	5/21/2015	10	4	4	2351	1000
	MADHYA PRADESH										
*53	GANDHI SAGAR	399.90	392.24	6.827	2.755	5/20/2015	40	40	16	220	115
54	TAWA	355.40	344.33	1.944	0.590	5/20/2015	30	13	19	247	-
*55	BARGI	422.76	410.75	3.180	0.765	5/20/2015	24	23	16	157	90
*56	BANSAGAR	341.64	336.82	5.166	3.142	5/21/2015	61	63	20	488	425
*57	INDIRA SAGAR	262.13	248.86	9.745	1.723	5/20/2015	18	13	9	2380	1000
58	BARNA	348.55	341.94	0.456	0.104	5/21/2015	23	37	16	546	-
	CHHATTIS GARH										
*59	MINIMATA BANGOI	359.66	355.72	3.046	2.242	5/20/2015	74	77	44	-	120
60	MAHANADI	348.70	338.55	0.767	0.082	5/20/2015	11	33	37	319	10
_ 8	OUTHERN REGION										
	<u>A.P & TG</u>										
*61	SRISAILAM	269.75	244.43	8.288	0.000	5/20/2015	0	0	15	0	770
*62	NAGARJUNA SAGAR	179.83	156.82	6.841	0.220	5/20/2015	3	5	25	895	810
	ANDHRA PRADESH										
63	SOMASILA	100.58	84.34	1.994	0.315	5/20/2015	16	43	33	168	0
	TELANGANA										
	SRIRAMSAGAR	332.54	322.48	2.300	0.326	5/20/2015	14	33		411	27
65	LOWER MANAIR	280.42	270.01	0.621	0.131	5/21/2015	21	46	25	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

				WE	EK ENDING :-	21.05.2015					
			CURRENT	LIVE			STORAGE A	S % OF LIVE C	CAPACITY AT	BENE	EFITS
S. NO	NAME OF RESERVOIR	FRL (m)	RESERVOIR LEVEL (m)	CAPACITY AT FRL (BCM)	CURRENT LIVE STORAGE (BCM)	DATE	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	739.45	1.163	0.206	5/20/2015	18	16	12	79	-
*67	TUNGABHADRA	497.74	481.53	3.276	1.155	5/21/2015	35	6	4	529	72
68	GHATAPRABHA	662.95	634.78	1.391	0.087	5/14/2015	6	1	5	317	-
69	BHADRA	657.76	644.57	1.785	0.577	5/14/2015	32	27	27	106	39
70	LINGANAMAKKI	554.43	535.84	4.294	0.726	5/21/2015	17	15	18	-	55
71	NARAYANPUR	492.25	486.84	0.863	0.196	5/20/2015	23	29	37	425	-
72	MALAPRABHA(RENUKA)	633.83	622.24	0.972	0.080	5/14/2015	8	3	6	215	-
73	KABINI	696.16	691.31	0.444	0.196	5/20/2015	44	36	4	85	-
74	HEMAVATHY	890.63	874.61	0.927	0.140	5/20/2015	15	15	8	265	-
75	HARANGI	871.42	854.47	0.220	0.028	5/20/2015	13	20	15	53	-
76	SUPA	564.00	536.92	4.120	1.543	5/21/2015	37	33	23	-	-
77	VANIVILAS SAGAR	652.28	633.62	0.802	0.035	5/14/2015	4	4	13	123	-
*78	ALMATTI	519.60	507.34	3.105	0.195	5/20/2015	6	7	7	@	290
*79	GERUSOPPA	55.00	51.97	0.130	0.113	5/21/2015	87	74	87	83	240
	KERALA										
80	KALLADA(PARAPPAR)	115.82	96.00	0.507	0.138	5/20/2015	27	24	23	62	-
*81	IDAMALAYAR	169.00	137.31	1.018	0.259	5/20/2015	25	23	19	33	75
*82	IDUKKI	732.43	713.79	1.460	0.569	5/20/2015	39	27	19	-	780
*83	KAKKI	981.46	953.86	0.447	0.135	5/20/2015	30	6	24	23	300
*84	PERIYAR	867.41	861.20	0.173	0.059	5/20/2015	34	26	31	84	140
85	MALAPMUZHA	867.41	861.20	0.224	0.059	5/20/2015	34	26	31	84	140
	TAMIL NADU										
86	LOWER BHAWANI	278.89	266.71	0.792	0.206	5/20/2015	26	12	34	105	8
*87	METTUR(STANLEY)	240.79	225.30	2.647	0.906	5/20/2015	34	11	42	122	360
88	VAIGAI	279.20	271.25	0.172	0.039	5/20/2015	23	8	26	61	6
89	PARAMBIKULAM	556.26	539.98	0.380	0.063	5/20/2015	17	15	31	101	-
90	ALIYAR	320.04	317.50	0.095	0.079	5/20/2015	83	23	46	#	60
*91	SHOLAYAR	1002.79	964.01	0.143	0.013	5/20/2015	9	3	6	-	95
	TOTAL FOR 91 RESERVOIRS			157.799	44.921						
	PERCENTAGE						28	28	21		

Sd/-

Director W. M., CWC

 $^{^{\}star}$ HYDEL POWER CAPACITY HAVING CAPACITY MORE THAN 60MW

^{\$} 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.

SI. No. 19th 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

⁽At sl. 30th) 0.444 BCM, Live storage at FRL of Kabini reservoir is intrim