

BRIEF NOTE ON STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 31.12.2015)

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 **31.12.2015**, live storage available in these reservoirs is **72.098 BCM**, which is **46%** of total live storage capacity of these reservoirs. This storage is **79%** of the storage of corresponding period of last year and **75%** of storage of average of last ten years.

As per Table-01, 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 **31.12.2015**, the total live storage available in these reservoirs is **9.76 BCM** which is **54%** 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 **56%** 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 **31.12.2015**, the total live storage available in these reservoirs is **10.87 BCM** which is **58%** 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 **70%** 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 27.07 BCM. As per Reservoir Storage Bulletin dated **31.12.2015**, the total live storage available in these reservoirs is **11.07 BCM** which is **41%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **61%** 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.

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 **31.12.15**, the total live storage available in these reservoirs is **24.02 BCM** which is

57% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **67%** and average storage of last ten years during corresponding period was **52%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the storage of last year but 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 (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 **31.12.2015**, the total live storage available in these reservoirs is **16.38 BCM** which is **32%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **48%** and average storage of last ten years during corresponding period was **62%** 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 8, better than normal storage is available in Ganga, Narmada, Sabarmati and Rivers of Kutch. Close to Normal in Indus, Mahi and Cauvery & neighbouring EFRs. Deficient in Tapi, Godavari, Mahanadi & neighbouring East Flowing Rivers and West Flowing rivers of South and Highly Deficient in Krishna basin.
- Table on page 7: IMD has divided India in 36 meteorological sub-divisions. The data in respect of reservoir storage as compared with observed rainfall in sub-divisions having rainfall less than 80% of normal is given in the table.
- Table on page 9-11 of the bulletin. The numbers of reservoirs having storage more than last year are **15** and reservoirs having storage more than average of last ten years are **21**. The numbers of reservoirs having storage less than 20% with respect to last year is **5** and having storage less than 20% with reference to average of last ten years is **7**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **21** and having storage less than or equal to 50% with reference to average of last ten years are **24**.

States having better storage (in %) than last year for corresponding period:
Himachal Pradesh, Andhra Pradesh and Tripura.

States having equal storage (in %) to last year for corresponding period: NIL.

States having lesser storage (in %) than last year for corresponding period:
Punjab, Rajasthan, Jharkhand, Odisha, West Bengal, Gujarat, Maharashtra, Uttar Pradesh, Uttarakhand, Madhya Pradesh, Chhattisgarh, AP&TG (2 combined project in both states), Telangana, Tamil Nadu, Karnataka and Kerala.

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 **31.12.2015** is **72.098** BCM (**46** percent of the live storage capacity at FRL). The current year's storage is nearly **79** percent of last year's storage and **75** 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.)	-	-	-	-	2	2	-	2	H.P. PUNJAB RAJASTHAN	5 % -49 % -11 %
EAST (Jharkhand, Odisha, Tripura & W. Bengal (15 Resv.)	-	-	-	4	3	2	1	5	JHARKHAND ODISHA W. BENGAL TRIPURA	-34 % -15 % -45 % 148 %
WEST (Guj. & Mah.), (27 Resv.)	-	-	-	3	2	7	5	10	GUJARAT MAH.	-26 % -53 %
CENTRAL (MP, UP, Uttarakhand & Chh.), (12 Resv)	-	-	-	2	1	4	4	1	U.P. UTTARAKHAND M.P. CHHATISGARH	-9 % -10 % 26 % -34 %
SOUTH (Karnataka, TN, AP&TG, AP, TG, & Kerala), (31 Resv.)	2	-	3	3	1	7	2	13	AP&TG A.P TG KARNATAKA KERALA T.N.	-85 % 24 % -84 % -45 % -10 % -10 %
Status of 91 reservoirs	2	0	3	12	9	22	12	31		

4 Basin wise storage position:

Better than normal: Ganga, Narmada, Sabarmati and Rivers of Kutch.

Close to normal: Indus, Mahi and Cauvery & neighbouring EFRS.

Deficient: Tapi, Godavari, Mahanadi & Neighbouring EFRS and West Flowing rivers of south.

Highly deficient: Krishna.

- 5 Out of 91 reservoirs, **41** reservoirs reported more than 80% of normal storage & **50** reservoirs reported 80% or below of normal storage. Out of these **50** reservoirs **24** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%	Name of reservoir	%
NAGARJUNA SAGAR	0	PANCHET HILL	24	SHOLAYAR	42
BHIMA(UJJANI)	0	SRISAILAM	25	MAYURAKSHI	45
GIRNA	8	HARANGI	25	NARAYANPUR	46
SALANADI	12	MALAPRABHA(RENUKA)	29	GHATAPRABHA	48
YELDARI	14	MULA	30		
SRIRAMSAGAR	14	TUNGABHADRA	35		
JAYAKWADI(PAITHON)	17	BHANDARDARA	36		
LOWER MANAIR	21	ISAPUR	37		
MANIKDOH	24	MAITHON	37		
ALMATTI	24	HEMAVATHY	39		

26 reservoirs having storage 51% to 80% of normal storage.

51% to 60%	61% to 70%	71% to 80%
7	12	7

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

27 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 :- 31.12.2015

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	14.462	51.47%	16.467	58.61%	13.606	48.43%	6.29
INDUS	14.730	8.100	54.99%	7.076	48.04%	8.240	55.94%	-1.70
NARMADA	17.414	10.465	60.10%	11.968	68.73%	9.810	56.33%	6.68
TAPI	7.394	3.671	49.65%	4.492	60.75%	5.070	68.57%	-27.59
MAHI	4.012	2.116	52.74%	2.882	71.83%	2.575	64.18%	-17.83
SABARMATI	0.735	0.458	62.31%	0.338	45.99%	0.401	54.56%	14.21
RIVERS OF KUTCH	0.887	0.517	58.29%	0.171	19.28%	0.407	45.89%	27.03
GODAVARI	15.394	5.727	37.20%	8.572	55.68%	9.560	62.10%	-40.09
KRISHNA	32.831	6.432	19.59%	13.742	41.86%	20.793	63.33%	-69.07
MAHANADI & NEIGHBOURING EFRS	13.181	7.301	55.39%	10.333	78.39%	9.777	74.17%	-25.32
CAUVERY& NEIGHBOURING EFRS	8.359	4.780	57.18%	5.030	60.17%	5.029	60.16%	-4.95
WEST FLOWING RIVERS OF SOUTH	14.766	8.069	54.65%	10.745	72.77%	10.550	71.45%	-23.52
TOTAL	157.799	72.098		91.816		95.818		
PERCENTAGE								-24.76

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 31.12.2015

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	501.08	6.229	4.303	31-12-2015	69	62	65	676	1200
*2	PONG DAM	423.67	411.32	6.157	3.252	31-12-2015	53	36	51	-	360

PUNJAB

*3	THEIN	527.91	498.09	2.344	0.545	31-12-2015	23	41	46	348	600
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RAJASTHAN

*4	MAHI BAJAJ SAGAR	280.75	276.00	1.711	1.145	31-12-2015	67	76	63	63	140
5	JHAKAM	359.50	351.80	0.132	0.067	31-12-2015	51	61	54	28	-
*6	RANA PRATAP SAGAR	352.81	347.09	1.436	0.452	31-12-2015	31	31	50	229	172

EASTERN REGION**JHARKHAND**

7	TENUGHAT	269.14	258.27	0.821	0.352	31-12-2015	43	47	42	-	-
8	MAITHON	146.3	139.80	0.471	0.152	31-12-2015	32	71	87	342	-
*9	PANCHET HILL	124.97	121.24	0.184	0.041	31-12-2015	22	61	91	\$	80
10	KONAR	425.81	422.36	0.176	0.118	31-12-2015	67	87	72	\$	-
11	TILAIYA	368.81	367.15	0.142	0.086	31-12-2015	61	92	62	\$	4

ODISHA

*12	HIRAKUD	192.02	190.43	5.378	3.813	31-12-2015	71	77	83	153	307
*13	BALIMELA	462.08	456.56	2.676	1.769	31-12-2015	66	85	64	-	360
14	SALANADI	82.30	56.25	0.558	0.033	31-12-2015	6	47	47	42	-
*15	RENGALI	123.50	118.21	3.432	1.745	31-12-2015	51	78	71	3	200
*16	MACHKUND(JALPUT)	838.16	836.08	0.893	0.715	31-12-2015	80	83	82	-	115
*17	UPPER KOLAB	858.00	855.94	0.935	0.740	31-12-2015	79	85	63	89	320
*18	UPPER INDRAVATI	642.00	634.96	1.456	0.743	31-12-2015	51	85	72	128	600

WEST BENGAL

19	MAYURAKSHI	121.31	110.83	0.480	0.096	31-12-2015	20	21	45	227	-
20	KANGSABATI	134.14	123.99	0.914	0.228	31-12-2015	25	27	40	341	-

TRIPURA

21	GUMTI	93.55	91.95	0.312	0.238	30-12-2015	76	14	31	-	15
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WESTERN REGION**GUJARAT**

*22	UKAI	105.16	98.64	6.615	3.460	31-12-2015	52	62	70	348	300
23	SABARMATI(DHAROI)	189.59	186.54	0.735	0.458	31-12-2015	62	46	55	95	1
*24	KADANA	127.7	121.79	1.472	0.657	31-12-2015	45	73	65	200	120
25	SHETRUNJI	55.53	54.67	0.300	0.235	31-12-2015	78	30	69	36	-
26	BHADAR	107.89	104.20	0.188	0.067	31-12-2015	36	33	56	27	-
27	DAMANAGANGA	79.86	77.55	0.502	0.375	31-12-2015	75	74	84	51	1
28	DANTIWADA	184.1	178.51	0.399	0.215	31-12-2015	54	5	23	45	-
29	PANAM	127.41	121.75	0.697	0.247	31-12-2015	35	63	68	36	2
*30	SARDAR SAROVAR	121.92	115.66	1.566	0.598	31-12-2015	38	71	72	2120	1450
31	KARJAN	115.25	104.86	0.523	0.257	30-12-2015	49	74	86	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 31.12.2015

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>MAHARASHTRA</u>											
32	JAYAKWADI(PAITHON)	463.91	456.71	2.171	0.193	31-12-2015	9	30	51	227	-
*33	KOYANA	657.90	646.51	2.652	1.465	30-12-2015	55	80	84	-	1920
34	BHIMA(UJJANI)	496.83	490.42	1.517	0.000	30-12-2015	0	77	79	125	12
35	ISAPUR	441.00	430.48	0.965	0.211	30-12-2015	22	55	60	104	-
36	MULA	552.30	539.99	0.609	0.127	30-12-2015	21	51	70	139	-
37	YELDARI	461.77	449.69	0.809	0.055	30-12-2015	7	34	48	78	-
38	GIRNA	398.07	382.99	0.524	0.020	30-12-2015	4	34	47	79	-
39	KHADAKVASLA	582.47	579.94	0.056	0.024	30-12-2015	43	59	52	78	8
*40	UPPER VAITARNA	603.50	598.44	0.331	0.176	30-12-2015	53	69	88	-	61
41	UPPER TAPI	214.00	212.90	0.255	0.191	30-12-2015	75	92	88	45	-
*42	PENCH (TOTALADOH)	490.00	481.24	1.091	0.477	30-12-2015	44	43	58	127	160
43	UPPER WARDHA	342.50	339.62	0.564	0.335	31-12-2015	59	63	72	70	-
44	BHATSA	142.07	129.07	0.942	0.624	29-12-2015	66	75	78	29.378	15
45	DHOM	747.70	734.50	0.331	0.141	30-12-2015	43	81	70	36.2	2
46	DUDHGANGA	646.00	634.63	0.664	0.342	30-12-2015	52	89	86	2.441	24
47	MANIKDOH (KUKADI)	711.25	686.36	0.288	0.033	30-12-2015	11	40	49	2.2	6
48	BHANDARDARA	342.50	339.62	0.304	0.088	31-12-2015	59	63	72	70	-
<u>CENTRAL REGION</u>											
<u>UTTAR PRADESH</u>											
49	MATATILA	308.46	306.57	0.707	0.443	30-12-2015	63	45	51	-	30
*50	RIHAND	268.22	258.87	5.649	1.812	31-12-2015	32	37	38	-	300
<u>UTTRAKHAND</u>											
*51	RAMGANGA	365.30	352.10	2.196	1.293	31-12-2015	59	83	67	1897	198
*52	TEHRI	830.00	802.80	2.615	1.580	31-12-2015	60	70	66	2351	1000
<u>MADHYA PRADESH</u>											
*53	GANDHI SAGAR	399.90	397.16	6.827	5.002	31-12-2015	73	61	42	220	115
54	TAWA	355.40	349.97	1.944	1.157	31-12-2015	60	64	65	247	-
*55	BARGI	422.76	419.85	3.180	2.408	31-12-2015	76	77	67	157	90
*56	BANSAGAR	341.64	335.19	5.166	2.569	31-12-2015	50	83	49	488	425
*57	INDIRA SAGAR	262.13	257.03	9.745	5.830	31-12-2015	60	67	47	2380	1000
58	BARNA	348.55	344.63	0.456	0.215	31-12-2015	47	53	51	546	-
<u>CHHATTIS GARH</u>											
*59	MINIMATA BANGOI	359.66	349.15	3.046	1.348	29-12-2015	44	83	65	-	120
60	MAHANADI	348.70	343.68	0.767	0.362	31-12-2015	47	98	81	319	10
<u>SOUTHERN REGION</u>											
<u>A.P & TG</u>											
*61	SRISAILAM	269.75	253.60	8.288	1.364	31-12-2015	16	0	66	0	770
*62	NAGARJUNA SAGAR	179.83	155.05	6.841	0.000	31-12-2015	0	34	51	895	810
<u>ANDHRA PRADESH</u>											
63	SOMASILA	100.58	98.01	1.994	1.699	31-12-2015	85	57	69	168	0
<u>TELANGANA</u>											
64	SRIRAMSAGAR	332.54	320.07	2.300	0.177	31-12-2015	8	22	54	411	27
65	LOWER MANAIR	280.42	268.70	0.621	0.097	31-12-2015	16	38	73	199	60

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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
<u>KARNATAKA</u>											
66	KRISHNARAJA SAGRA	752.50	746.85	1.163	0.672	30-12-2015	58	87	72	79	-
*67	TUNGABHADRA	497.74	488.50	3.276	0.657	31-12-2015	20	61	57	529	72
68	GHATAPRABHA	662.95	644.27	1.391	0.356	30-12-2015	26	56	53	317	-
69	BHADRA	657.76	650.41	1.785	1.026	30-12-2015	57	91	92	106	39
70	LINGANAMAKKI	554.43	546.08	4.294	2.170	31-12-2015	51	72	73	-	55
71	NARAYANPUR	492.25	488.74	0.863	0.353	31-12-2015	41	75	88	425	-
72	MALAPRABHA(RENUKA)	633.83	623.68	0.972	0.132	30-12-2015	14	49	46	215	-
73	KABINI(Sancherla Tank)	696.16	690.48	0.444	0.161	30-12-2015	36	69	33	85	-
74	HEMAVATHY	890.63	874.50	0.927	0.138	30-12-2015	15	42	38	265	-
75	HARANGI	871.42	849.25	0.220	0.007	30-12-2015	3	4	13	53	-
76	SUPA	564.00	540.28	4.120	1.781	31-12-2015	43	67	64	-	-
77	VANIVILAS SAGAR	652.28	637.41	0.802	0.103	31-12-2015	13	9	20	123	-
*78	ALMATTI	519.60	509.52	3.105	0.436	31-12-2015	14	50	58	@	290
*79	GERUSOPPA	55.00	49.43	0.130	0.099	30-12-2015	76	94	82	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	113.92	0.507	0.445	31-12-2015	88	90	83	62	-
*81	IDAMALAYAR	169.00	152.28	1.018	0.568	31-12-2015	56	82	71	33	75
*82	IDUKKI	732.43	720.72	1.460	0.857	31-12-2015	59	74	69	-	780
*83	KAKKI	981.46	974.29	0.447	0.334	31-12-2015	75	77	81	23	300
*84	PERIYAR	867.41	867.69	0.173	0.173	31-12-2015	100	73	58	84	140
85	MALAPMUZHA	867.41	867.69	0.224	0.097	31-12-2015	100	73	58	84	140
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	271.88	0.792	0.401	31-12-2015	51	60	66	105	8
*87	METTUR(STANLEY)	240.79	232.46	2.647	1.578	31-12-2015	60	64	63	122	360
88	VAIGAI	279.20	277.02	0.172	0.124	31-12-2015	72	13	55	61	6
89	PARAMBIKULAM	556.26	550.01	0.380	0.253	31-12-2015	67	77	81	101	-
90	ALIYAR	320.04	318.36	0.095	0.085	31-12-2015	89	93	80	#	60
*91	SHOLAYAR	1002.79	973.73	0.143	0.032	31-12-2015	22	48	53	-	95
TOTAL FOR 91 RESERVOIRS				157.799	72.098						
PERCENTAGE							46	58	61		

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. 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