BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 25.01.2017)

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 25.01.2017, live storage available in these reservoirs is 80.597 BCM, which is 51% of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was 63.465 BCM and the average of last 10 years live storage was 80.706 BCM. Thus, the live storage available in 91 reservoirs as per 25.01.2017 Bulletin is 127% of the live storage of corresponding period of last year and 100% of storage of average of last ten years

The overall storage position is **better than the** corresponding period of last year in the country as a whole but is slightly **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 25.01.2017, the total live storage available in these reservoirs is 7.02 BCM which is 39% 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 47% 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.

b) EASTERN REGION

The Eastern region includes States of Jharkhand, Odisha, West Bengal and Tripura. There are 15 reservoirsunder CWC monitoring having total live storage capacity of 18.83 BCM. As per Reservoir Storage Bulletin dated 25.01.2017, the total live storage available in these reservoirs is 13.73 BCM which is 73% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 54% and average storage of last ten years during corresponding period was 61% 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.

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 **25.01.2017**, the total live storage available in these reservoirs is **17.25 BCM** which is **64%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **36%** and average storage of last ten years during corresponding period was **60%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the storage of last year and is also better 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 **25.01.2017**, the total live storage available in these reservoirs is **27.67 BCM** which is **65%** 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 **46%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the storage of last year and is also 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 25.01.2017, the total live storage available in these reservoirs is 14.93 BCM which is 29% of total live storage capacity of these reservoirs. The storage during corresponding period of last year was 27% and average storage of last ten years during corresponding period was 49% 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 Narmada, Mahi, Ganga, Sabarmati, Godavari, Tapi and Mahanadi & neighbouring East Flowing Rivers. NIL in Close to Normal and Deficient in Indus, Rivers of Kutch, West Flowing Rivers of South Cauvery & neighbouring EFRs, and Krishna 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 **59** and reservoirs having storage more than average of last ten years are **46**. 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 **9**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **11** and having storage less than or equal to 50% with reference to average of last ten years are **18**.

STORAGE STATUS OF IMPORTANT RESERVOIRS IN THE COUNTRY

AS ON 25.01.2017

- 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
 25.01.2017 is 80.597 BCM (51 percent of the live storage capacity at FRL). The current year's storage is nearly 127 percent of last year's storage and 100 percent of the average of last ten years.

3 Region wise storage status:-

		Filling	positio	n of 91	reserv	oirs w	.r.t. FR	L			
REGION (States), (Monitoring No. of Reservoirs)	100%	91%- 99%	81%- 90%	71%- 80%	61%- 70%	51%- 60%	41%- 50%	40% & below	Departure fr stor		
NORTH (HP,Punjab & Rajasthan), (6 Resv.)	-	1	-	1	1	-	-	4	H.P. PUNJAB RAJASTHAN	-26 % -7 % 12 %	
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	2	-	2	5	1	2	2	1	JHARKHAND ODISHA W. BENGAL TRIPURA	21 % 19 % 29 % 125 %	
WEST (Guj.& Mah.), (27 Resv.)	-	-	2	6	9	4	-	6	GUJARAT MAH.	10 % 3 %	
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	1	-	2	3	4	1	1	U.P. UTTARAKHAND M.P. CHHATISGARH	65 % -18 % 56 % 15 %	
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	1	2	-	3	4	21	AP&TG A,P TG KARNATAKA KERALA T.N.	-57 % -31 % 69 % -39 % -35 % -79 %	
Status of 91 reservoirs	2	1	5	16	14	13	7	33		. 5 / / 5	

4 Basin wise storage position:

Better than normal: Ganga, Sabarmati, Godavari, Mahi, Narmada, Tapi and Mahanadi & Neighbouring EFRS.

Close to normal: NIL

Deficient: Indus ,Rivers of Kutch,West Flowing Rivers of South, Krishna and Cauvery & neighbouring EFRS..

Highly deficient: NIL

5 Out of 91 reservoirs, 57 reservoirs reported more than 80% of normal storage & 34 reservoirs reported 80% or below of normal storage. Out of these 34 reservoirs 18 having storage upto 50% of normal

storage.

LOWER BHAWANI KRISHNARAJA SAGRA

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0	METTUR(STANLEY)	2
ALIYAR	0	BHADRA	3
DANTIWADA	5	MALAMPUZHA	4:
VAIGAI	11	HEMAVATHY	4:
TUNGABHADRA	15	KABINI	4
BHADAR	16	YELDARI	5
NAGARJUNA SAGAR	16	_	
PERIYAR	17		
PARAMBIKULAM	17		
VANIVILAS SAGAR	21		

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

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

19 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

WEEK ENDING :- 25.01.2017

CENTRAL WATER COMMISSION

NAME OF BASIN	LIVE CAP.	AT FRL	_	'EAR'S RAGE	LAST Y STOR	_	LAST 10 AVG. ST	YEARS' ORAGE	% DEPARTURE W.R.T. AVE. OF 10 YEARS'
GANGA	28.09	6	17.930	63.82%	12.878	45.84%	12.378	44.06%	44.85
INDUS	14.73	0	5.235	35.54%	6.743	45.78%	6.898	46.83%	-24.11
NARMADA	17.41	4	11.093	63.70%	8.879	50.99%	8.646	49.65%	28.30
TAPI	7.394	1	5.601	75.75%	3.460	46.79%	4.550	61.54%	23.10
MAHI	4.012	2	2.691	67.07%	1.928	48.06%	2.263	56.41%	18.91
SABARMATI	0.735	5	0.438	59.59%	0.388	52.79%	0.336	45.71%	30.36
RIVERS OF KUTCH	0.887	7	0.171	19.28%	0.374	42.16%	0.332	37.43%	-48.49
GODAVARI	15.39	4	9.693	62.97%	5.192	33.73%	7.926	51.49%	22.29
KRISHNA	32.83	1	9.067	27.62%	5.614	17.10%	15.614	47.56%	-41.93
MAHANADI & NEIGHBOURING EFRS	13.18	1	10.072	76.41%	6.890	52.27%	8.531	64.72%	18.06
CAUVERY& NEIGHBOURING EFRS	8.359	9	1.687	20.18%	3.681	44.04%	4.150	49.65%	-59.35
WEST FLOWING RIVERS OF SOUTH	14.76	6	6.919	46.86%	7.438	50.37%	9.082	61.51%	-23.82
TOTAL	157.79	99	80.597		63.465		80.706		
PERCENTAGE									-0.14

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNMENT OF INDIA			WEE	K ENDING :-	25.01.2017		CLIVITIAL	.,		
			CURRENT	LIVE			STORAGE AS	S % OF LIVE C FRL	APACITY AT	BENE	FITS
S. NO	NAME OF RESERVOIR	FRL (m)	CURRENT RESERVOIR LEVEL (m)	LIVE 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
	NORTHERN REGION										
	HIMACHAL PRADESH										
*1	GOBIND SAGAR(BHAKRA)	512.06	483.70	6.229	2.245	23-01-2017	36	61	55	676	1200
*2	PONG DAM PUNJAB	423.67	405.57	6.157	2.246	24-01-2017	36	41	43	-	360
*3	THEIN	527.91	502.67	2.344	0.744	25-01-2017	32	20	34	348	600
	RAJASTHAN										
*4	MAHI BAJAJ SAGAR	280.75	276.90	1.711	1.235	25-01-2017	72	62	52	63	140
5	JHAKAM	359.50	353.55	0.132	0.080	23-01-2017	61	38	42	28	-
*6	RANA PRATAP SAGAR	352.81	347.20	1.436	0.467	24-01-2017	33	32	44	229	172
	EASTERN REGION										
	<u>JHARKHAND</u>										
7	TENUGHAT	269.14	260.09	0.821	0.420	25-01-2017	51	41	44	-	-
8	MAITHON	146.3	148.59	0.471	0.471	25-01-2017	100	32	83	342	-
*9	PANCHET HILL	124.97	126.83	0.184	0.184	25-01-2017	100	21	82	\$	80
10	KONAR	425.81	423.89	0.176	0.142	25-01-2017	81	61	70	\$	-
11	TILAIYA	368.81	367.85	0.142	0.110	25-01-2017	77	38	53	\$	4
	ODISHA										
*12	HIRAKUD	192.02	190.88	5.378	4.095	24-01-2017	76	65	73	153	307
*13	BALIMELA	462.08	457.60	2.676	1.911	25-01-2017	71	61	55	-	360
14	SALANADI	82.30	68.16	0.558	0.178	24-01-2017	32	6	38	42	-
*15	RENGALI	123.50	122.23	3.432	3.013	25-01-2017	88	49	58	3	200
*16	MACHKUND(JALPUT)	838.16	834.12	0.893	0.512	25-01-2017	57	74	74	-	115
*17	UPPER KOLAB	858.00	856.02	0.935	0.748	25-01-2017	80	72	56	89	320
*18	UPPER INDRAVATI	642.00	638.49	1.456	1.086	25-01-2017	75	50	65	128	600
	WEST BENGAL										
	MAYURAKSHI	121.31	115.08	0.480	0.211	25-01-2017	44	20	42	227	-
20	KANGSABATI	134.14	128.37	0.914	0.457	25-01-2017	50	25	34	341	-
	TRIPURA										
21	GUMTI	93.55	90.80	0.312	0.191	24-01-2017	61	68	27	-	15
	WESTERN REGION	•									
*00	GUJARAT	405.40	100.10	0.045	F 070	05.04.0047	77	50	60	240	200
	UKAI SABARMATI(DHAROI)	105.16	102.19			25-01-2017	77	50	63		300
	KADANA	189.59 127.7	186.28 125.60		0.438 0.980	25-01-2017	60 67	53 41	46 61	95 200	1 120
						25-01-2017 25-01-2017					
	SHETRUNJI BHADAR	55.53 107.89	53.32 100.52		0.155 0.012	25-01-2017 25-01-2017	52 6	53 24		36 27	-
	DAMANAGANGA	79.86	76.85			25-01-2017	69	66	75		1
	DANTIWADA	184.1	163.36		0.004	25-01-2017	1	42		45	
	PANAM	127.41	124.90			25-01-2017	57	32		36	
	SARDAR SAROVAR	121.92	119.84			25-01-2017	76	18		2120	1450
	KARJAN	115.25	106.37			25-01-2017	55	42		51	3
31	· 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		.50.01	3.020	3.200	0. 2017		12	.0	01	3

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

	GOVERNMENT OF INDIA	WEEK ENDING :- 25.01.2017				MMISSION					
			CUDDENT	LIVE			STORAGE A	S % OF LIVE C FRL	APACITY AT	BENE	FITS
S. NO	NAME OF RESERVOIR	FRL (m)	CURRENT RESERVOIR LEVEL (m)	LIVE 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
<u> </u>	MAHARASHTRA										
32	JAYAKWADI(PAITHON)	463.91	461.63	2.171	1.366	23-01-2017	63	6	38	227	-
*33	KOYANA	657.90	649.15	2.652	1.688	24-01-2017	64	49	75	-	1920
34	BHIMA(UJJANI)	496.83	495.34	1.517	1.046	24-01-2017	69	0	62	125	12
35	ISAPUR	441.00	433.66	0.965	0.376	24-01-2017	39	21	53	104	-
36	MULA	552.30	549.41	0.609	0.464	19-01-2017	76	19	59	139	-
37	YELDARI	461.77	452.52	0.809	0.153	25-01-2017	19	6	38	78	-
38	GIRNA	398.07	394.18	0.524	0.336	24-01-2017	64	3	35	79	-
39	KHADAKVASLA	582.47	581.04	0.056	0.037	24-01-2017	66	45	50	78	8
*40	UPPER VAITARNA	603.50	601.55	0.331	0.268	24-01-2017	81	46	76	-	61
	UPPER TAPI	214.00	212.91	0.255	0.192	24-01-2017	75	63	80	45	-
	PENCH (TOTALADOH)	490.00	476.85	1.091	0.286	25-01-2017	26	35	48	127	160
	UPPER WARDHA	342.50	340.16		0.373	24-01-2017	66	49	59	70	-
44	BHATSA	142.07	131.71	0.942	0.682	24-01-2017	72	60			15
45	DHOM	747.70	741.83	0.331	0.208	24-01-2017	63	39	57	36.2	2
	DUDHGANGA	646.00	640.55	0.664	0.503	24-01-2017	76	43	74	2.441	24
	MANIKDOH (KUKADI) BHANDARDARA	711.25 744.91	699.38 742.96	0.288 0.304	0.114 0.268	24-01-2017 25-01-2017	40 88	10 29	36 69	2.2 63.74	6 46
40	CENTRAL REGION	744.51	742.50	0.504	0.200	25 01 2011	00	25	03	00.74	40
	UTTAR PRADESH	•									
49	MATATILA	308.46	305.53	0.707	0.346	25-01-2017	49	36	47	-	30
*50	RIHAND	268.22	262.65	5.649	3.279	25-01-2017	58	29	33	-	300
	<u>UTTRAKHAND</u>										
*51	RAMGANGA	365.30	341.79	2.196	0.785	25-01-2017	36	47	58	1897	198
*52	TEHRI	830.00	797.95	2.615	1.419	25-01-2017	54	46	55	2351	1000
	MADHYA PRADESH										
*53	GANDHI SAGAR	399.90	397.76	6.827	5.348	25-01-2017	78	68	41	220	115
54	TAWA	355.40	348.69	1.944	1.004	24-01-2017	52	43	49	247	-
*55	BARGI	422.76	418.25	3.180	2.005	24-01-2017	63	68	59	157	90
*56	BANSAGAR	341.64	339.25	5.166	4.100	25-01-2017	79	46	46	488	425
*57	INDIRA SAGAR	262.13	257.91	9.745	6.331	24-01-2017	65	53	42	2380	1000
58	BARNA	348.55	345.63	0.456	0.270	25-01-2017	59	36	41	546	-
	CHHATTIS GARH										
	MINIMATA BANGOI	359.66	354.07	3.046	2.083	24-01-2017	68	43	61	-	120
	MAHANADI	348.70	348.02	0.767	0.703	24-01-2017	92	44	72	319	10
	SOUTHERN REGION	•									
	<u>A.P & TG</u>										
	SRISAILAM	269.75	260.24		2.414	25-01-2017	29	17		0	770
*62	NAGARJUNA SAGAR	179.83	157.55	6.841	0.340	25-01-2017	5	0	31	895	810
	ANDHRA PRADESH	10				05.01.55			_		
63	SOMASILA TELANGANA	100.58	92.07	1.994	0.899	25-01-2017	45	74	65	168	0
C4	TELANGANA SPIRAMSACAR	220 54	200.00	0.000	4.000	05.04.0047	71	•	20	44.4	07
	SRIRAMSAGAR	332.54	329.98		1.693	25-01-2017	74 74	15	39 58	411	27
co	LOWER MANAIR	280.42	277.31	0.621	0.457	25-01-2017	74	15	58	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

				WEE	K ENDING :-	25.01.2017					
									% OF LIVE CAPACITY AT FRL		FITS
S. NO	NAME OF RESERVOIR	FRL (m)	CURRENT RESERVOIR LEVEL (m)	LIVE 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	738.61	1.163	0.171	24-01-2017	15	46	64	79	-
*67	TUNGABHADRA	497.74	482.89	3.276	0.175	25-01-2017	5	10	36	529	72
68	GHATAPRABHA	662.95	649.74	1.391	0.585	24-01-2017	42	23	35	317	-
69	BHADRA	657.76	643.60	1.785	0.512	24-01-2017	29	50	82	106	39
70	LINGANAMAKKI	554.43	544.37	4.294	1.851	25-01-2017	43	46	62	-	55
71	NARAYANPUR	492.25	490.37	0.863	0.516	25-01-2017	60	37	81	425	-
72	MALAPRABHA(RENUKA)	633.83	624.20	0.972	0.154	24-01-2017	16	11	27	215	-
73	KABINI(Sancherla Tank)	696.16	688.36	0.444	0.082	24-01-2017	18	36	39	85	-
74	HEMAVATHY	890.63	873.19	0.927	0.103	24-01-2017	11	15	27	265	-
75	HARANGI	871.42	859.44	0.220	0.063	24-01-2017	29	5	13	53	-
76	SUPA	564.00	543.87	4.120	2.054	25-01-2017	50	42	55	-	-
77	VANIVILAS SAGAR	652.28	633.23	0.802	0.030	25-01-2017	4	12	18	123	-
*78	ALMATTI	519.60	511.61	3.105	0.745	25-01-2017	24	13	40	@	290
*79	GERUSOPPA	55.00	51.46	0.130	0.110	25-01-2017	85	92	83	83	240
	KERALA										
80	KALLADA(PARAPPAR)	115.82	100.78	0.507	0.201	24-01-2017	40	89	77	62	-
*81	IDAMALAYAR	169.00	151.67	1.018	0.554	24-01-2017	54	53	63	33	75
*82	IDUKKI	732.43	712.65	1.460	0.526	24-01-2017	36	54	61	-	780
*83	KAKKI	981.46	965.34	0.447	0.229	24-01-2017	51	71	74	23	300
*84	PERIYAR	867.41	859.04	0.173	0.011	24-01-2017	6	62	38	84	140
85	MALAPMUZHA	115.06	103.81	0.224	0.042	19-01-2017	19	29	45	21	3
	TAMIL NADU										
86	LOWER BHAWANI	278.89	261.74	0.792	0.088	24-01-2017	11	43	53	105	8
*87	METTUR(STANLEY)	240.79	214.90	2.647	0.274	24-01-2017	10	36	45	122	360
88	VAIGAI	279.20	265.48	0.172	0.007	24-01-2017	4	35	38	61	6
89	PARAMBIKULAM	556.26	537.79	0.380	0.045	24-01-2017	12	62	69	101	-
90	ALIYAR	320.04	300.91	0.095	0.000	24-01-2017	0	57	61	#	60
*91	SHOLAYAR	1002.79	955.09	0.143	0.000	24-01-2017	0	0	22	-	95
	TOTAL FOR 91 RESERVOIRS			157.799	80.597						
	PERCENTAGE						51	40	51		

Sd/-

\$ TOTAL CCA 342 TH. HA OF DVC SYSTEM

Director W. M. , CWC

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

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

 $^{@^{\}scriptscriptstyle |}$ TOTAL CCA 425 TH. HA. OF NARAYANPUR AND ALMATTI

 $[\]dagger$ SABARMATI RESERVOIR IS SUPPLEMENTED WITH NARMADA WATER THROUGH PIPELINE.

SI. 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