

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 26.07.2018)

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 **26.07.2018**, live storage available in these reservoirs is **63.333 BCM**, which is **41%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **58.910 BCM** and the average of last 10 years live storage was **57.212 BCM**. Thus, the live storage available in 91 reservoirs **as per 26.07.2018 Bulletin** is **113%** of the live storage of corresponding period of last year and **116%** 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 and is also **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 under CWC monitoring having total live storage capacity of 18.01 BCM. As per Reservoir Storage Bulletin dated **26.07.2018**, the total live storage available in these reservoirs is **4.66 BCM** which is **26%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **52%** and average storage of last ten years during corresponding period was **45%** 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 reservoirs under CWC monitoring having total live storage capacity of 18.83 BCM. As per Reservoir Storage Bulletin dated **26.07.2018**, the total live storage available in these reservoirs is **7.11 BCM** which is **38%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **42%** and average storage of last ten years during corresponding period was **31%** 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 **26.07.2018**, the total live storage available in these reservoirs is **10.20 BCM** which is **33%** 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 **32%** 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.

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 **26.07.2018**, the total live storage available in these reservoirs is **14.58 BCM** which is **34%** 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 **36%** 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 **26.07.2018**, the total live storage available in these reservoirs is **29.79 BCM** which is **58%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **25%** 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 and is also better 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, Krishna, Rivers of Kutch, Godavari, Mahanadi & Neighbouring East Flowing Rivers, West Flowing Rivers of South and Cauvery & neighbouring EFRs. Close to Normal in Ganga, Narmada and Sabarmati. Deficient in Indus and Tapi and NIL in Highly Deficient.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **50** and reservoirs having storage more than average of last ten years are **59**. 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 **4**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **14** and having storage less than or equal to 50% with reference to average of last ten years are **10**.

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 26.07.2018

- 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.
- The total live storage in 91 important reservoirs in different parts of the country, monitored by CWC as on 26.07.2018 is 66.333 BCM (41 percent of the live storage capacity at FRL).The current year's storage is nearly 113 percent of last year's storage and 116 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	2	3	H.P.	-62	%
									PUNJAB	-13	%
									RAJASTHAN	9	%
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	1	1	-	-	-	-	4	9	JHARKHAND	-29	%
									ODISHA	32	%
									W. BENGAL	-3	%
									TRIPURA	122	%
WEST (Guj.& Mah.), (27 Resv.)	1	1	4	1	-	2	5	13	GUJARAT	-34	%
									MAH.	40	%
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	1	1	-	1	9	U.P.	-20	%
									UTTARAKHAND	-23	%
									M.P.	-1	%
									CHHATISGARH	11	%
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	3	8	8	2	2	-	3	5	AP&TG	43	%
									A,P	-30	%
									TG	-31	%
									KARNATAKA	61	%
									KERALA	114	%
									T.N.	127	%
Status of 91 reservoirs	5	10	12	4	3	3	15	39			

4 Basin wise storage position:

- Better than normal:** Mahi, Krishna, Rivers of Kutch , West Flowing Rivers of South,Godavari , Mahanadi & Neighbouring EFRS and Cauvery & neighbouring EFRS .
- Close to normal:** Ganga, Narmada and Sabarmati, .
- Deficient:** Indus and Tapi
- Highly deficient:** NIL

- 5 Out of 91 reservoirs, 68 reservoirs reported more than 80% of normal storage & 23 reservoirs reported 80% or below of normal storage. Out of these 23 reservoirs 10 having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
YELDARI	0		
NAGARJUNA SAGAR	4		
VANIVILAS SAGAR	5		
SARDAR SAROVAR	11		
TILAIYA	34		
GOBIND SAGAR(BHAKR	37		
KONAR	37		
PONG DAM	40		
MATATILA	42		
RAMGANGA	44		

13 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
5	4	4

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

15 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 :- 26.07.2018

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	8.503	30.26%	13.221	47.06%	9.800	34.88%	-13.23
INDUS	14.730	3.100	21.05%	7.567	51.37%	6.620	44.94%	-53.17
NARMADA	21.608	6.262	28.98%	5.575	25.80%	6.682	30.92%	-6.29
TAPI	7.394	1.406	19.02%	2.304	31.16%	2.404	32.51%	-41.51
MAHI	4.012	1.954	48.70%	2.449	61.04%	1.729	43.10%	13.01
SABARMATI	0.735	0.167	22.72%	0.592	80.54%	0.196	26.67%	-14.80
RIVERS OF KUTCH	0.887	0.313	35.29%	0.550	62.01%	0.219	24.69%	42.92
GODAVARI	15.394	4.684	30.43%	4.307	27.98%	3.874	25.17%	20.91
KRISHNA	32.831	16.586	50.52%	9.194	28.00%	11.127	33.89%	49.06
MAHANADI & NEIGHBOURING EFRS	13.181	5.764	43.73%	5.566	42.23%	4.905	37.21%	17.51
CAUVERY& NEIGHBOURING EFRS	8.359	6.477	77.49%	1.757	21.02%	3.506	41.94%	84.74
WEST FLOWING RIVERS OF SOUTH	14.766	11.117	75.29%	5.828	39.47%	6.150	41.65%	80.76
TOTAL	161.993	66.333		58.910		57.212		
PERCENTAGE								15.94

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 26.07.2018

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											
<u>HIMACHAL PRADESH</u>											
*1	GOBIND SAGAR(BHAKRA)	512.06	470.14	6.229	1.166	26 / 7 / 2018	19	51	50	676	1200
*2	PONG DAM	423.67	395.62	6.157	0.921	26 / 7 / 2018	15	42	37	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	508.19	2.344	1.013	26 / 7 / 2018	43	79	50	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	273.45	1.711	0.891	26 / 7 / 2018	52	63	41	63	140
5	JHAKAM	359.50	349.05	0.132	0.049	26 / 7 / 2018	37	61	33	28	-
*6	RANA PRATAP SAGAR	352.81	348.26	1.436	0.617	26 / 7 / 2018	43	45	48	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	258.44	0.821	0.358	26 / 7 / 2018	44	62	42	-	-
8	MAITHON	146.3	139.47	0.471	0.141	26 / 7 / 2018	30	74	54	342	-
*9	PANCHET HILL	124.97	122.66	0.184	0.084	26 / 7 / 2018	46	100	78	\$	80
10	KONAR	425.81	415.72	0.176	0.035	26 / 7 / 2018	20	84	53	\$	-
11	TILAIYA	368.81	364.61	0.142	0.021	26 / 7 / 2018	15	84	43	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	186.60	5.378	1.934	26 / 7 / 2018	36	27	32	153	307
*13	BALIMELA	462.08	449.67	2.676	0.910	26 / 7 / 2018	34	32	19	-	360
14	SALANADI	82.30	73.59	0.558	0.558	26 / 7 / 2018	100	35	27	42	-
*15	RENGALI	123.50	114.79	3.432	0.924	26 / 7 / 2018	27	46	26	3	200
*16	MACHKUND(JALPUT)	838.16	830.82	0.893	0.383	26 / 7 / 2018	43	42	40	-	115
*17	UPPER KOLAB	858.00	850.25	0.935	0.295	26 / 7 / 2018	32	32	19	89	320
*18	UPPER INDRAVATI	642.00	634.09	1.456	0.589	26 / 7 / 2018	40	40	28	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	112.35	0.480	0.130	26 / 7 / 2018	27	60	47	227	-
20	KANGSABATI	134.14	128.40	0.914	0.459	26 / 7 / 2018	50	74	42	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	93.00	0.312	0.287	24 / 7 / 2018	92	80	41	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	90.86	6.615	1.223	26 / 7 / 2018	18	32	34	348	300
23	SABARMATI(DHAROI)	189.59	181.87	0.735	0.167	26 / 7 / 2018	23	81	27	95	1
*24	KADANA	127.7	121.87	1.472	0.663	26 / 7 / 2018	45	65	47	200	120
25	SHETRUNJI	55.53	52.92	0.300	0.136	26 / 7 / 2018	45	44	36	36	-
26	BHADAR	107.89	105.37	0.188	0.097	26 / 7 / 2018	52	45	34	27	-
27	DAMANAGANGA	79.86	71.90	0.502	0.178	26 / 7 / 2018	35	34	35	51	1
28	DANTIWADA	184.1	172.42	0.399	0.080	26 / 7 / 2018	20	84	12	45	-
29	PANAM	127.41	124.05	0.697	0.351	26 / 7 / 2018	50	48	43	36	2
*30	SARDAR SAROVAR	138.68	111.53	5.760	0.096	26 / 7 / 2018	2	19	16	2120	1450
31	KARJAN	115.25	107.08	0.523	0.307	26 / 7 / 2018	59	65	42	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 26.07.2018

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	459.02	2.171	0.664	24 / 7 / 2018	31	31	9	227	-
*33	KOYANA	657.90	653.77	2.652	2.216	25 / 7 / 2018	84	76	61	-	1920
34	BHIMA(UJJANI)	496.83	493.11	1.517	0.452	26 / 7 / 2018	30	21	13	125	12
35	ISAPUR	441.00	432.23	0.965	0.297	25 / 7 / 2018	31	6	31	104	-
36	MULA	552.30	545.13	0.609	0.288	25 / 7 / 2018	47	52	30	139	-
37	YELDARI	461.77	447.68	0.809	0.000	25 / 7 / 2018	0	3	13	78	-
38	GIRNA	398.07	387.71	0.524	0.131	25 / 7 / 2018	25	38	9	79	-
39	KHADAKVASLA	582.47	582.47	0.056	0.056	25 / 7 / 2018	100	100	68	78	8
*40	UPPER VAITARNA	603.50	601.25	0.331	0.259	25 / 7 / 2018	78	83	53	-	61
41	UPPER TAPI	214.00	209.70	0.255	0.052	25 / 7 / 2018	20	2	32	45	-
*42	PENCH (TOTALADOH)	490.00	474.35	1.091	0.205	25 / 7 / 2018	19	10	37	127	160
43	UPPER WARDHA	342.50	338.35	0.564	0.254	26 / 7 / 2018	45	42	50	70	-
44	BHATSA	142.07	135.50	0.942	0.771	25 / 7 / 2018	82	85	56	29.378	15
45	DHOM	747.70	744.08	0.331	0.303	25 / 7 / 2018	92	50	46	36.2	2
46	DUDHGANGA	646.00	643.14	0.664	0.584	25 / 7 / 2018	88	72	61	2.441	24
47	MANIKDOH (KUKADI)	711.25	699.40	0.288	0.114	25 / 7 / 2018	40	48	22	2.2	6
48	BHANDARDARA	744.91	742.22	0.304	0.254	25 / 7 / 2018	84	95	54	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	302.67	0.707	0.141	25 / 7 / 2018	20	10	48	-	30
*50	RIHAND	268.22	256.52	5.649	0.998	26 / 7 / 2018	18	31	19	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	326.39	2.196	0.334	26 / 7 / 2018	15	15	35	1897	198
*52	TEHRI	830.00	784.35	2.615	1.013	26 / 7 / 2018	39	46	38	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	388.35	6.827	1.505	26 / 7 / 2018	22	54	31	220	115
54	TAWA	355.40	346.59	1.944	0.783	26 / 7 / 2018	40	42	57	247	-
*55	BARGI	422.76	419.95	3.180	2.436	26 / 7 / 2018	77	42	42	157	90
*56	BANSAGAR	341.64	334.57	5.166	2.380	26 / 7 / 2018	46	59	42	488	425
*57	INDIRA SAGAR	262.13	251.23	9.745	2.496	26 / 7 / 2018	26	19	30	2380	1000
58	BARNA	348.55	343.12	0.456	0.144	26 / 7 / 2018	32	31	42	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	354.80	3.046	2.102	26 / 7 / 2018	69	66	58	-	120
60	MAHANADI	348.70	341.80	0.767	0.246	25 / 7 / 2018	32	42	44	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	263.87	8.288	3.438	26 / 7 / 2018	41	5	16	0	770
*62	NAGARJUNA SAGAR	179.83	155.75	6.841	0.048	26 / 7 / 2018	1	0	16	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	84.31	1.994	0.313	25 / 7 / 2018	16	10	22	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	323.67	2.300	0.447	26 / 7 / 2018	19	12	28	411	27
65	LOWER MANAIR	280.42	268.73	0.621	0.098	26 / 7 / 2018	16	34	26	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 26.07.2018

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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	752.05	1.163	1.163	26 / 7 / 2018	100	27	53	79	-
*67	TUNGABHADRA	497.74	497.14	3.276	2.646	26 / 7 / 2018	81	28	50	529	72
68	GHATAPRABHA	662.95	660.89	1.391	1.238	26 / 7 / 2018	89	53	47	317	-
69	BHADRA	657.76	657.27	1.785	1.729	26 / 7 / 2018	97	29	56	106	39
70	LINGANAMAKKI	554.43	550.23	4.294	3.101	26 / 7 / 2018	72	34	41	-	55
71	NARAYANPUR	492.25	491.11	0.863	0.598	26 / 7 / 2018	69	76	62	425	-
72	MALAPRABHA(RENUKA)	633.83	628.38	0.972	0.411	26 / 7 / 2018	42	22	26	215	-
73	KABINI(Sancherla Tank)	696.16	695.82	0.444	0.423	26 / 7 / 2018	95	62	57	85	-
74	HEMAVATHY	890.63	889.79	0.927	0.927	26 / 7 / 2018	100	44	62	265	-
75	HARANGI	871.42	870.56	0.220	0.202	26 / 7 / 2018	92	100	82	53	-
76	SUPA	564.00	551.75	4.120	2.761	26 / 7 / 2018	67	47	36	-	-
77	VANIVILAS SAGAR	652.28	631.32	0.802	0.005	26 / 7 / 2018	1	2	11	123	-
*78	ALMATTI	519.60	518.77	3.105	2.748	26 / 7 / 2018	89	81	66	@	290
*79	GERUSOPPA	55.00	50.18	0.130	0.103	26 / 7 / 2018	79	72	81	83	240
<u>KERALA</u>											
80	KALLADA(PARAPPAR)	115.82	114.79	0.507	0.461	26 / 7 / 2018	91	29	45	62	-
*81	IDAMALAYAR	169.00	164.90	1.018	0.899	26 / 7 / 2018	88	29	40	33	75
*82	IDUKKI	732.43	728.53	1.460	1.245	26 / 7 / 2018	85	22	37	-	780
*83	KAKKI	981.46	977.98	0.447	0.387	26 / 7 / 2018	87	23	46	23	300
*84	PERIYAR	867.41	866.90	0.173	0.156	26 / 7 / 2018	90	10	45	84	140
85	MALAPMUZHA	115.06	114.13	0.224	0.200	26 / 7 / 2018	89	22	46	21	3
<u>TAMIL NADU</u>											
86	LOWER BHAWANI	278.89	277.71	0.792	0.731	26 / 7 / 2018	92	16	43	105	8
*87	METTUR(STANLEY)	240.79	240.87	2.647	2.647	26 / 7 / 2018	100	7	40	122	360
88	VAIGAI	279.20	273.93	0.172	0.071	26 / 7 / 2018	41	6	20	61	6
89	PARAMBIKULAM	556.26	555.99	0.380	0.374	26 / 7 / 2018	98	22	53	101	-
90	ALIYAR	320.04	318.97	0.095	0.088	26 / 7 / 2018	93	11	54	#	60
*91	SHOLAYAR	1002.79	1003.75	0.143	0.134	26 / 7 / 2018	94	17	65	-	95
TOTAL FOR 91 RESERVOIRS				161.993	66.333						
PERCENTAGE							41	36	35		

* 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.

Sd/-

Director

W. M. , CWC