

## **BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 25.10.2018)**

### **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 **25.10.2018**, live storage available in these reservoirs is **112.67 BCM**, which is **70%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **111.576 BCM** and the average of last 10 years live storage was **113.110 BCM**. Thus, the live storage available in 91 reservoirs **as per 25.10.2018 Bulletin** is **101%** 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 and is **equal to 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 **25.10.2018**, the total live storage available in these reservoirs is **15.96 BCM** which is **89%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **76%** and average storage of last ten years during corresponding period was **77%** 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 **25.10.2018**, the total live storage available in these reservoirs is **14.02 BCM** which is **74%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **80%** and average storage of last ten years during corresponding period was **75%** 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 **25.10.2018**, the total live storage available in these reservoirs is **17.21 BCM** which is **55%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **71%** and average storage of last ten years during corresponding period was **67%** 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 **25.10.2018**, the total live storage available in these reservoirs is **31.50 BCM** which is **74%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **63%** and average storage of last ten years during corresponding period was **71%** 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 **25.10.2018**, the total live storage available in these reservoirs is **33.98 BCM** which is **66%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **66%** and average storage of last ten years during corresponding period was **66%** of live storage capacity of these reservoirs. Thus, storage during current year is equal to the corresponding period of last year and is also equal to 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, Ganga, Narmada, Mahi, and West Flowing Rivers of South and Cauvery & neighbouring EFRs. Close to Normal in Godavari, Krishna and Mahanadi & Neighbouring East Flowing Rivers, Deficient in Tapi and Rivers of Kutch and Highly Deficient in Sabarmati.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **41** 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 **1** and having storage less than 20% with reference to average of last ten years is **0**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **9** and having storage less than or equal to 50% with reference to average of last ten years are **7**.

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**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 25.10.2018

- 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 25.10.2018 is 112.670 BCM ( 70 percent of the live storage capacity at FRL ).The current year's storage is nearly 101 percent of last year's storage and 100 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			
<b>NORTH</b> (HP,Punjab & Rajasthan), (6 Resv.)	2	2	1	-	-	1	-	-	H.P.	12 %	
									PUNJAB	55 %	
									RAJASTHAN	5 %	
<b>EAST</b> (Jharkhand,Odisha, Tripura & W.Bengal ( 15 Resv.)	-	3	5	2	1	1	1	2	JHARKHAND	-8 %	
									ODISHA	2 %	
									W. BENGAL	-32 %	
									TRIPURA	48 %	
<b>WEST</b> (Guj.& Mah.), (27 Resv.)	1	4	4	3	4	-	3	8	GUJARAT	-22 %	
									MAH.	-14 %	
<b>CENTRAL</b> (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	3	2	1	3	1	2	-	U.P.	14 %	
									UTTARAKHAND	4 %	
									M.P.	4 %	
									CHHATISGARH	-4 %	
<b>SOUTH</b> (Karnataka,TN,AP&TG,AP, TG, & Kerala), ( 31 Resv.)	2	4	9	5	5	2	1	3	AP&TG	-31 %	
									A,P	5 %	
									TG	-22 %	
									KARNATAKA	7 %	
									KERALA	15 %	
									T.N.	79 %	
Status of 91 reservoirs	5	16	21	11	13	5	7	13			

## 4 Basin wise storage position:

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

**Close to normal:** Godavari, Krishna and Mahanadi & Neighbouring EFRS

**Deficient:** Tapi, and Rivers of Kutch.

**Highly deficient:** sabarmati

- Out of 91 reservoirs, 69 reservoirs reported more than 80% of normal storage & 22 reservoirs reported 80% or below of normal storage. Out of these 22 reservoirs 7 having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
YELDARI	21		
PENCH (TOTALADOH)	21		
VANIVILAS SAGAR	24		
DANTIWADA	30		
SABARMATI(DHAROI)	35		
SRISAILAM	48		
UKAI	48		

15 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
5	4	6

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

17 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 :- 25.10.2018

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	18.350	65.31%	19.327	68.79%	18.084	64.37%	<b>1.47</b>
INDUS	14.730	13.256	89.99%	11.211	76.11%	11.319	76.84%	<b>17.11</b>
NARMADA	21.608	16.566	76.67%	11.950	55.30%	14.637	67.74%	<b>13.18</b>
TAPI	7.394	3.006	40.65%	4.160	56.26%	5.679	76.81%	<b>-47.07</b>
MAHI	4.012	3.432	85.54%	3.492	87.04%	3.037	75.70%	<b>13.01</b>
SABARMATI	0.735	0.193	26.26%	0.701	95.37%	0.547	74.42%	<b>-64.72</b>
RIVERS OF KUTCH	0.887	0.233	26.27%	0.732	82.53%	0.511	57.61%	<b>-54.40</b>
GODAVARI	15.394	9.077	58.96%	9.685	62.91%	9.561	62.11%	<b>-5.06</b>
KRISHNA	32.831	19.760	60.19%	24.368	74.22%	23.611	71.92%	<b>-16.31</b>
MAHANADI & NEIGHBOURING EFRS	13.181	9.350	70.94%	10.696	81.15%	10.729	81.40%	<b>-12.85</b>
CAUVERY& NEIGHBOURING EFRS	8.359	6.634	79.36%	5.191	62.10%	4.423	52.91%	<b>49.99</b>
WEST FLOWING RIVERS OF SOUTH	14.766	12.813	86.77%	10.063	68.15%	10.972	74.31%	<b>16.78</b>
<b>TOTAL</b>	<b>161.993</b>	<b>112.670</b>		<b>111.576</b>		<b>113.110</b>		
<b>PERCENTAGE</b>								<b>-0.39</b>

## WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 25.10.2018

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
<b>NORTHERN REGION</b>											
<b><u>HIMACHAL PRADESH</u></b>											
*1	GOBIND SAGAR(BHAKRA)	512.06	508.69	6.229	5.430	25-10-2018	87	84	84	676	1200
*2	PONG DAM	423.67	422.63	6.157	5.668	25-10-2018	92	74	76	-	360
<b><u>PUNJAB</u></b>											
*3	THEIN	527.91	525.71	2.344	2.158	25-10-2018	92	60	60	348	600
<b><u>RAJASTHAN</u></b>											
*4	MAHI BAJAJ SAGAR	280.75	280.95	1.711	1.711	24-10-2018	100	100	86	63	140
5	JHAKAM	359.50	359.55	0.132	0.132	24-10-2018	100	100	85	28	-
*6	RANA PRATAP SAGAR	352.81	349.71	1.436	0.861	25-10-2018	60	38	69	229	172
<b><u>EASTERN REGION</u></b>											
<b><u>JHARKHAND</u></b>											
7	TENUGHAT	269.14	259.87	0.821	0.411	25-10-2018	50	53	47	-	-
8	MAITHON	146.3	144.18	0.471	0.329	25-10-2018	70	100	90	342	-
*9	PANCHET HILL	124.97	123.93	0.184	0.136	25-10-2018	74	100	85	\$	80
10	KONAR	425.81	423.95	0.176	0.143	25-10-2018	81	83	90	\$	-
11	TILAIYA	368.81	368.47	0.142	0.129	25-10-2018	91	72	87	\$	4
<b><u>ODISHA</u></b>											
*12	HIRAKUD	192.02	191.41	5.378	4.443	21-10-2018	83	88	92	153	307
*13	BALIMELA	462.08	461.04	2.676	2.476	25-10-2018	93	50	52	-	360
14	SALANADI	82.30	77.70	0.558	0.413	25-10-2018	74	45	38	42	-
*15	RENGALI	123.50	119.04	3.432	1.994	25-10-2018	58	99	86	3	200
*16	MACHKUND(JALPUT)	838.16	837.41	0.893	0.820	25-10-2018	92	95	87	-	115
*17	UPPER KOLAB	858.00	856.20	0.935	0.765	25-10-2018	82	62	61	89	320
*18	UPPER INDRAVATI	642.00	639.83	1.456	1.217	25-10-2018	84	61	73	128	600
<b><u>WEST BENGAL</u></b>											
19	MAYURAKSHI	121.31	112.64	0.480	0.137	25-10-2018	29	98	51	227	-
20	KANGSABATI	134.14	126.23	0.914	0.334	25-10-2018	37	91	49	341	-
<b><u>TRIPURA</u></b>											
21	GUMTI	93.55	92.60	0.312	0.268	23-10-2018	86	100	58	-	15
<b><u>WESTERN REGION</u></b>											
<b><u>GUJARAT</u></b>											
*22	UKAI	105.16	96.12	6.615	2.505	25-10-2018	38	53	78	348	300
23	SABARMATI(DHAROI)	189.59	182.46	0.735	0.193	24-10-2018	26	95	74	95	1
*24	KADANA	127.7	126.32	1.472	1.050	24-10-2018	71	76	68	200	120
25	SHETRUNJI	55.53	52.47	0.300	0.118	24-10-2018	39	60	69	36	-
26	BHADAR	107.89	104.07	0.188	0.060	24-10-2018	32	91	63	27	-
27	DAMANAGANGA	79.86	78.00	0.502	0.393	25-10-2018	78	97	98	51	1
28	DANTIWADA	184.1	170.66	0.399	0.055	24-10-2018	14	96	46	45	-
29	PANAM	127.41	127.20	0.697	0.539	24-10-2018	77	75	67	36	2
*30	SARDAR SAROVAR	138.68	127.86	5.760	2.732	25-10-2018	47	53	28	2120	1450
31	KARJAN	115.25	112.43	0.523	0.434	25-10-2018	83	93	91	51	3

## WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 25.10.2018

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
<b>MAHARASHTRA</b>											
32	JAYAKWADI(PAITHON)	463.91	459.19	2.171	0.696	25-10-2018	32	100	50	227	-
*33	KOYANA	657.90	656.03	2.652	2.429	25-10-2018	92	100	95	-	1920
34	BHIMA(UJJANI)	496.83	496.55	1.517	1.424	23-10-2018	94	100	81	125	12
35	ISAPUR	441.00	437.44	0.965	0.628	25-10-2018	65	16	58	104	-
36	MULA	552.30	547.90	0.609	0.396	24-10-2018	65	100	84	139	-
37	YELDARI	461.77	450.41	0.809	0.075	18-10-2018	9	13	45	78	-
38	GIRNA	398.07	391.66	0.524	0.246	24-10-2018	47	72	47	79	-
39	KHADAKVASLA	582.47	581.07	0.056	0.038	24-10-2018	68	91	66	78	8
*40	UPPER VAITARNA	603.50	603.17	0.331	0.322	24-10-2018	97	100	93	-	61
41	UPPER TAPI	214.00	214.00	0.255	0.255	24-10-2018	100	100	100	45	-
*42	PENCH (TOTALADOH)	490.00	472.44	1.091	0.152	24-10-2018	14	32	66	127	160
43	UPPER WARDHA	342.50	338.56	0.564	0.266	25-10-2018	47	100	93	70	-
44	BHATSA	142.07	137.78	0.942	0.828	24-10-2018	88	99	93	29.378	15
45	DHOM	747.70	745.35	0.331	0.278	25-10-2018	84	99	89	36.2	2
46	DUDHGANGA	646.00	644.78	0.664	0.638	24-10-2018	96	100	97	2.441	24
47	MANIKDOH (KUKADI)	711.25	705.74	0.288	0.197	24-10-2018	68	83	60	2.2	6
48	BHANDARDARA	744.91	742.79	0.304	0.265	24-10-2018	87	100	94	63.74	46
<b>CENTRAL REGION</b>											
<b>UTTAR PRADESH</b>											
49	MATATILA	308.46	307.45	0.707	0.534	24-10-2018	76	71	81	-	30
*50	RIHAND	268.22	263.02	5.649	3.428	25-10-2018	61	58	52	-	300
<b>UTTRAKHAND</b>											
*51	RAMGANGA	365.30	354.78	2.196	1.445	23-10-2018	66	63	69	1897	198
*52	TEHRI	830.00	827.15	2.615	2.503	25-10-2018	96	90	87	2351	1000
<b>MADHYA PRADESH</b>											
*53	GANDHI SAGAR	399.90	392.65	6.827	2.911	25-10-2018	43	68	58	220	115
54	TAWA	355.40	352.81	1.944	1.579	25-10-2018	81	79	95	247	-
*55	BARGI	422.76	420.85	3.180	2.688	25-10-2018	85	88	90	157	90
*56	BANSAGAR	341.64	340.77	5.166	4.781	25-10-2018	93	71	72	488	425
*57	INDIRA SAGAR	262.13	261.12	9.745	8.930	25-10-2018	92	40	77	2380	1000
58	BARNA	348.55	344.41	0.456	0.203	25-10-2018	45	51	78	546	-
<b>CHHATTIS GARH</b>											
*59	MINIMATA BANGOI	359.66	354.53	3.046	2.063	25-10-2018	68	66	68	-	120
60	MAHANADI	348.70	344.78	0.767	0.437	24-10-2018	57	39	68	319	10
<b>SOUTHERN REGION</b>											
<b>A.P. &amp; TG</b>											
*61	SRISAILAM	269.75	260.82	8.288	2.553	25-10-2018	31	70	64	0	770
*62	NAGARJUNA SAGAR	179.83	175.53	6.841	3.957	25-10-2018	58	55	61	895	810
<b>ANDHRA PRADESH</b>											
63	SOMASILA	100.58	94.75	1.994	1.204	25-10-2018	60	70	58	168	0
<b>TELANGANA</b>											
64	SRIRAMSAGAR	332.54	327.48	2.300	1.085	25-10-2018	47	68	59	411	27
65	LOWER MANAIR	280.42	273.07	0.621	0.236	25-10-2018	38	34	54	199	60

## WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 25.10.2018

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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
<b>KARNATAKA</b>											
66	KRISHNARAJA SAGRA	752.50	752.50	1.163	1.163	23-10-2018	100	78	75	79	-
*67	TUNGABHADRA	497.74	495.57	3.276	2.144	25-10-2018	65	76	73	529	72
68	GHATAPRABHA	662.95	660.36	1.391	1.200	24-10-2018	86	90	85	317	-
69	BHADRA	657.76	657.00	1.785	1.698	24-10-2018	95	73	79	106	39
70	LINGANAMAKKI	554.43	552.97	4.294	3.850	25-10-2018	90	62	79	-	55
71	NARAYANPUR	492.25	491.30	0.863	0.620	25-10-2018	72	86	83	425	-
72	MALAPRABHA(RENUKA)	633.83	630.92	0.972	0.635	24-10-2018	65	41	62	215	-
73	KABINI(Sancherla Tank)	696.16	696.11	0.444	0.440	23-10-2018	99	93	42	85	-
74	HEMAVATHY	890.63	886.74	0.927	0.702	23-10-2018	76	29	61	265	-
75	HARANGI	871.42	868.65	0.220	0.155	23-10-2018	70	99	65	53	-
76	SUPA	564.00	560.54	4.120	3.705	25-10-2018	90	62	65	-	-
77	VANIVILAS SAGAR	652.28	633.24	0.802	0.030	24-10-2018	4	3	16	123	-
*78	ALMATTI	519.60	516.63	3.105	1.919	25-10-2018	62	100	90	@	290
*79	GERUSOPPA	55.00	47.62	0.130	0.090	25-10-2018	69	88	82	83	240
<b>KERALA</b>											
80	KALLADA(PARAPPAR)	115.82	112.68	0.507	0.416	23-10-2018	82	79	75	62	-
*81	IDAMALAYAR	169.00	158.96	1.018	0.731	24-10-2018	72	77	74	33	75
*82	IDUKKI	732.43	728.07	1.460	1.220	24-10-2018	84	65	64	-	780
*83	KAKKI	981.46	975.63	0.447	0.352	24-10-2018	79	75	76	23	300
*84	PERIYAR	867.41	866.81	0.173	0.154	24-10-2018	89	40	44	84	140
85	MALAPMUZHA	115.06	113.86	0.224	0.195	25-10-2018	87	68	80	21	3
<b>TAMIL NADU</b>											
86	LOWER BHAWANI	278.89	279.50	0.792	0.792	24-10-2018	100	49	43	105	8
*87	METTUR(STANLEY)	240.79	236.19	2.647	2.020	24-10-2018	76	58	41	122	360
88	VAIGAI	279.20	278.59	0.172	0.158	24-10-2018	92	41	40	61	6
89	PARAMBIKULAM	556.26	555.15	0.380	0.356	24-10-2018	94	50	76	101	-
90	ALIYAR	320.04	317.59	0.095	0.080	24-10-2018	84	35	75	#	60
*91	SHOLAYAR	1002.79	1001.32	0.143	0.121	24-10-2018	85	71	78	-	95
TOTAL FOR 91 RESERVOIRS				161.993	112.670						
PERCENTAGE							70	69	70		

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 &amp; ALIYAR

@' TOTAL CCA 425 TH. HA. OF NARAYANPUR AND ALMATTI

† SABARMATI RESERVOIR IS SUPPLEMENTED WITH NARMADA WATER THROUGH PIPELINE.