

## **BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 30.08.2018)**

### **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 **30.08.2018**, live storage available in these reservoirs is **112.083 BCM**, which is **69%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **85.067 BCM** and the average of last 10 years live storage was **98.171 BCM**. Thus, the live storage available in 91 reservoirs **as per 30.08.2018 Bulletin** is **132%** of the live storage of corresponding period of last year and **114%** 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 **30.08.2018**, the total live storage available in these reservoirs is **12.39 BCM** which is **69%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **83%** 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 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 **30.08.2018**, the total live storage available in these reservoirs is **13.85 BCM** which is **74%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **58%** and average storage of last ten years during corresponding period was **55%** 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 31.26 BCM. As per Reservoir Storage Bulletin dated **30.08.2018**, the total live storage available in these reservoirs is **16.51 BCM** which is **53%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **56%** and average storage of last ten years during corresponding period was **55%** 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 **30.08.2018**, the total live storage available in these reservoirs is **27.38 BCM** which is **65%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **56%** and average storage of last ten years during corresponding period was **63%** 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 **30.08.2018**, the total live storage available in these reservoirs is **41.95 BCM** which is **81%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **35%** and average storage of last ten years during corresponding period was **58%** 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 8, better than normal storage is available in Krishna, Godavari, Mahanadi & Neighbouring East Flowing Rivers, Narmada and Mahi West Flowing Rivers of South and Cauvery & neighbouring EFRs. Close to Normal in Ganga, Indus and Rivers of Kutch and Deficient in, Sabarmati and Tapi and NIL in Highly Deficient.
- Table on page 9-11 of the bulletin. The numbers of reservoirs having storage more than last year are **58** and reservoirs having storage more than average of last ten years are **63**. The numbers of reservoirs having storage less than 20% with respect to last year is **0** and having storage less than 20% with reference to average of last ten years is **1**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **3** and having storage less than or equal to 50% with reference to average of last ten years are **3**.

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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 30.08.2018

- 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 **30.08.2018** is **112.083** BCM ( **69** percent of the live storage capacity at FRL ).The current year's storage is nearly **132** percent of last year's storage and **114** 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			
<b>NORTH</b> (HP,Punjab & Rajasthan), (6 Resv.)	-	-	-	3	2	1	-	-	H.P.	-12 %	
									PUNJAB	9 %	
									RAJASTHAN	-16 %	
<b>EAST</b> (Jharkhand,Odisha, Tripura & W.Bengal ( 15 Resv.)	1	3	4	1	1	2	2	1	JHARKHAND	-1 %	
									ODISHA	44 %	
									W. BENGAL	-20 %	
									TRIPURA	69 %	
<b>WEST</b> (Guj.& Mah.), (27 Resv.)	4	4	-	4	2	2	5	6	GUJARAT	-17 %	
									MAH.	7 %	
<b>CENTRAL</b> (MP,UP,Uttarakhand & Chh.), (12 Resv)	1	1	3	2	2	1	1	1	U.P.	5 %	
									UTTARAKHAND	-3 %	
									M.P.	0 %	
									CHHATISGARH	20 %	
<b>SOUTH</b> (Karnataka,TN,AP&TG,AP, TG, & Kerala), ( 31 Resv.)	7	12	5	1	3	-	-	3	AP&TG	46 %	
									A,P	9 %	
									TG	82 %	
									KARNATAKA	28 %	
									KERALA	59 %	
									T.N.	82 %	
Status of 91 reservoirs	13	20	12	11	10	6	8	11			

## 4 Basin wise storage position:

### Better than normal:

Mahi, Krishna,Narmada , West Flowing Rivers of South,Godavari , Mahanadi & Neighbouring EFRS and Cauvery & neighbouring EFRS .

### Close to normal:

Ganga,Indus, and Rivers of Kutch .

### Deficient:

sabarmati and Tapi

### Highly deficient:

NIL

- 5 Out of 91 reservoirs, **76** reservoirs reported more than 80% of normal storage & **15** reservoirs reported 80% or below of normal storage. Out of these **15** reservoirs **3** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
VANIVILAS SAGAR	19		
YELDARI	32		
PENCH (TOTALADOH)	37		

<b>12</b> reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
2	5	5

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

**10** 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 :- 30.08.2018

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	15.624	55.61%	18.367	65.37%	16.319	58.08%	<b>-4.26</b>
INDUS	14.730	10.351	70.27%	12.407	84.23%	11.383	77.28%	<b>-9.07</b>
NARMADA	21.608	13.302	61.56%	8.502	39.35%	12.888	59.64%	<b>3.21</b>
TAPI	7.394	3.125	42.26%	3.136	42.41%	4.478	60.56%	<b>-30.21</b>
MAHI	4.012	2.691	67.07%	3.464	86.34%	2.595	64.68%	<b>3.70</b>
SABARMATI	0.735	0.276	37.55%	0.695	94.56%	0.425	57.82%	<b>-35.06</b>
RIVERS OF KUTCH	0.887	0.303	34.16%	0.626	70.57%	0.366	41.26%	<b>-17.21</b>
GODAVARI	15.394	10.018	65.08%	6.218	40.39%	6.735	43.75%	<b>48.75</b>
KRISHNA	32.831	25.860	78.77%	13.123	39.97%	20.722	63.12%	<b>24.79</b>
MAHANADI & NEIGHBOURING EFRS	13.181	9.742	73.91%	8.002	60.71%	8.427	63.93%	<b>15.60</b>
CAUVERY& NEIGHBOURING EFRS	8.359	6.867	82.15%	2.525	30.21%	4.393	52.55%	<b>56.32</b>
WEST FLOWING RIVERS OF SOUTH	14.766	13.924	94.30%	8.002	54.19%	9.440	63.93%	<b>47.50</b>
<b>TOTAL</b>	<b>161.993</b>	<b>112.083</b>		<b>85.067</b>		<b>98.171</b>		
<b>PERCENTAGE</b>								<b>14.17</b>

## WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 30.08.2018

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	499.56	6.229	4.089	30-08-2018	66	87	81	676	1200
*2	PONG DAM	423.67	417.53	6.157	4.502	28-08-2018	73	85	77	-	360
<b><u>PUNJAB</u></b>											
*3	THEIN	527.91	520.51	2.344	1.760	30-08-2018	75	73	69	348	600
<b><u>RAJASTHAN</u></b>											
*4	MAHI BAJAJ SAGAR	280.75	277.15	1.711	1.126	29-08-2018	66	100	75	63	140
5	JHAKAM	359.50	355.85	0.132	0.097	29-08-2018	73	100	76	28	-
*6	RANA PRATAP SAGAR	352.81	349.43	1.436	0.814	30-08-2018	57	54	74	229	172
<b><u>EASTERN REGION</u></b>											
<b><u>JHARKHAND</u></b>											
7	TENUGHAT	269.14	259.16	0.821	0.384	30-08-2018	47	40	43	-	-
8	MAITHON	146.3	145.35	0.471	0.389	30-08-2018	83	78	84	342	-
*9	PANCHET HILL	124.97	125.64	0.184	0.184	30-08-2018	100	100	89	\$	80
10	KONAR	425.81	421.45	0.176	0.104	30-08-2018	59	65	75	\$	-
11	TILAIYA	368.81	366.84	0.142	0.076	30-08-2018	54	100	74	\$	4
<b><u>ODISHA</u></b>											
*12	HIRAKUD	192.02	189.79	5.378	3.462	30-08-2018	64	54	63	153	307
*13	BALIMELA	462.08	460.95	2.676	2.459	29-08-2018	92	38	29	-	360
14	SALANADI	82.30	79.00	0.558	0.453	30-08-2018	81	42	37	42	-
*15	RENGALI	123.50	120.84	3.432	2.588	29-08-2018	75	75	61	3	200
*16	MACHKUND(JALPUT)	838.16	837.59	0.893	0.836	29-08-2018	94	56	59	-	115
*17	UPPER KOLAB	858.00	856.08	0.935	0.754	29-08-2018	81	41	36	89	320
*18	UPPER INDRAVATI	642.00	639.92	1.456	1.225	29-08-2018	84	51	55	128	600
<b><u>WEST BENGAL</u></b>											
19	MAYURAKSHI	121.31	114.39	0.480	0.188	30-08-2018	39	86	59	227	-
20	KANGSABATI	134.14	128.41	0.914	0.460	30-08-2018	50	79	57	341	-
<b><u>TRIPURA</u></b>											
21	GUMTI	93.55	93.10	0.312	0.291	29-08-2018	93	95	55	-	15
<b><u>WESTERN REGION</u></b>											
<b><u>GUJARAT</u></b>											
*22	UKAI	105.16	96.75	6.615	2.733	30-08-2018	41	41	63	348	300
23	SABARMATI(DHAROI)	189.59	182.08	0.735	0.276	29-08-2018	38	95	58	95	1
*24	KADANA	127.7	125.35	1.472	0.956	29-08-2018	65	74	55	200	120
25	SHETRUNJI	55.53	52.82	0.300	0.131	29-08-2018	44	49	50	36	-
26	BHADAR	107.89	105.25	0.188	0.093	29-08-2018	49	61	48	27	-
27	DAMANAGANGA	79.86	75.65	0.502	0.300	30-08-2018	60	65	63	51	1
28	DANTIWADA	184.1	172.39	0.399	0.079	29-08-2018	20	91	32	45	-
29	PANAM	127.41	126.80	0.697	0.512	29-08-2018	73	76	59	36	2
*30	SARDAR SAROVAR	138.68	121.43	5.760	1.477	30-08-2018	26	33	26	2120	1450
31	KARJAN	115.25	111.83	0.523	0.418	30-08-2018	80	77	67	51	3

## WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 30.08.2018

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	458.79	2.171	0.597	16-08-2018	27	50	26	227	-
*33	KOYANA	657.90	658.95	2.652	2.652	30-08-2018	100	94	95	-	1920
34	BHIMA(UJJANI)	496.83	497.06	1.517	1.517	29-08-2018	100	91	60	125	12
35	ISAPUR	441.00	437.06	0.965	0.610	23-08-2018	63	7	47	104	-
36	MULA	552.30	548.97	0.609	0.443	30-08-2018	73	79	68	139	-
37	YELDARI	461.77	450.20	0.809	0.069	29-08-2018	9	4	27	78	-
38	GIRNA	398.07	391.85	0.524	0.252	30-08-2018	48	57	27	79	-
39	KHADAKVASLA	582.47	582.47	0.056	0.056	30-08-2018	100	100	70	78	8
*40	UPPER VAITARNA	603.50	602.94	0.331	0.313	30-08-2018	95	98	85	-	61
41	UPPER TAPI	214.00	211.84	0.255	0.140	30-08-2018	55	50	56	45	-
*42	PENCH (TOTALADOH)	490.00	475.90	1.091	0.254	30-08-2018	23	12	63	127	160
43	UPPER WARDHA	342.50	338.57	0.564	0.267	30-08-2018	47	57	80	70	-
44	BHATSA	142.07	140.72	0.942	0.905	30-08-2018	96	95	86	29.378	15
45	DHOM	747.70	746.79	0.331	0.310	30-08-2018	94	81	79	36.2	2
46	DUDHGANGA	646.00	644.94	0.664	0.643	30-08-2018	97	95	93	2.441	24
47	MANIKDOH (KUKADI)	711.25	706.38	0.288	0.207	30-08-2018	72	73	49	2.2	6
48	BHANDARDARA	744.91	744.73	0.304	0.304	30-08-2018	100	100	94	63.74	46
<b>CENTRAL REGION</b>											
<b>UTTAR PRADESH</b>											
49	MATATILA	308.46	308.03	0.707	0.596	29-08-2018	84	23	76	-	30
*50	RIHAND	268.22	261.61	5.649	2.876	30-08-2018	51	68	49	-	300
<b>UTTRAKHAND</b>											
*51	RAMGANGA	365.30	346.76	2.196	1.012	30-08-2018	46	39	58	1897	198
*52	TEHRI	830.00	819.65	2.615	2.194	30-08-2018	84	79	78	2351	1000
<b>MADHYA PRADESH</b>											
*53	GANDHI SAGAR	399.90	390.68	6.827	2.207	29-08-2018	32	64	45	220	115
54	TAWA	355.40	350.52	1.944	1.222	30-08-2018	63	53	89	247	-
*55	BARGI	422.76	422.76	3.180	3.180	30-08-2018	100	67	81	157	90
*56	BANSAGAR	341.64	338.67	5.166	3.849	29-08-2018	75	73	66	488	425
*57	INDIRA SAGAR	262.13	258.37	9.745	6.661	30-08-2018	68	28	66	2380	1000
58	BARNA	348.55	455.80	0.456	0.344	29-08-2018	75	55	74	546	-
<b>CHHATTIS GARH</b>											
*59	MINIMATA BANGOI	359.66	357.30	3.046	2.493	30-08-2018	82	69	74	-	120
60	MAHANADI	348.70	348.48	0.767	0.746	29-08-2018	97	25	58	319	10
<b>SOUTHERN REGION</b>											
<b>A.P. &amp; TG</b>											
*61	SRISAILAM	269.75	269.17	8.288	5.702	30-08-2018	69	7	53	0	770
*62	NAGARJUNA SAGAR	179.83	177.09	6.841	4.368	30-08-2018	64	0	36	895	810
<b>ANDHRA PRADESH</b>											
63	SOMASILA	100.58	88.19	1.994	0.557	30-08-2018	28	16	26	168	0
<b>TELANGANA</b>											
64	SRIRAMSAGAR	332.54	331.23	2.300	2.046	30-08-2018	89	40	41	411	27
65	LOWER MANAIR	280.42	270.78	0.621	0.154	30-08-2018	25	33	42	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 30.08.2018

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>KARNATAKA</b>											
66	KRISHNARAJA SAGRA	752.50	752.50	1.163	1.163	30-08-2018	100	37	71	79	-
*67	TUNGABHADRA	497.74	497.66	3.276	2.829	30-08-2018	86	55	78	529	72
68	GHATAPRABHA	662.95	662.94	1.391	1.387	30-08-2018	100	58	83	317	-
69	BHADRA	657.76	657.31	1.785	1.733	30-08-2018	97	54	82	106	39
70	LINGANAMAKKI	554.43	554.22	4.294	4.231	30-08-2018	99	53	67	-	55
71	NARAYANPUR	492.25	491.93	0.863	0.698	30-08-2018	81	76	83	425	-
72	MALAPRABHA(RENUKA)	633.83	630.94	0.972	0.637	30-08-2018	66	25	51	215	-
73	KABINI(Sancherla Tank)	696.16	695.87	0.444	0.426	30-08-2018	96	64	58	85	-
74	HEMAVATHY	890.63	890.07	0.927	0.927	30-08-2018	100	45	78	265	-
75	HARANGI	871.42	870.62	0.220	0.203	30-08-2018	92	96	95	53	-
76	SUPA	564.00	562.75	4.120	3.964	30-08-2018	96	55	58	-	-
77	VANIVILAS SAGAR	652.28	632.21	0.802	0.016	30-08-2018	2	1	11	123	-
*78	ALMATTI	519.60	519.55	3.105	3.105	30-08-2018	100	99	93	@	290
*79	GERUSOPPA	55.00	48.88	0.130	0.096	30-08-2018	74	88	82	83	240
<b>KERALA</b>											
80	KALLADA(PARAPPAR)	115.82	114.07	0.507	0.448	30-08-2018	88	42	57	62	-
*81	IDAMALAYAR	169.00	166.38	1.018	0.942	30-08-2018	93	52	61	33	75
*82	IDUKKI	732.43	730.50	1.460	1.352	30-08-2018	93	39	54	-	780
*83	KAKKI	981.46	979.15	0.447	0.405	30-08-2018	91	47	65	23	300
*84	PERIYAR	867.41	867.66	0.173	0.173	30-08-2018	100	28	45	84	140
85	MALAPMUZHA	115.06	114.06	0.224	0.199	30-08-2018	89	37	65	21	3
<b>TAMIL NADU</b>											
86	LOWER BHAWANI	278.89	279.50	0.792	0.792	30-08-2018	100	24	48	105	8
*87	METTUR(STANLEY)	240.79	240.75	2.647	2.639	30-08-2018	100	25	54	122	360
88	VAIGAI	279.20	278.66	0.172	0.160	30-08-2018	93	6	33	61	6
89	PARAMBIKULAM	556.26	555.96	0.380	0.373	30-08-2018	98	29	69	101	-
90	ALIYAR	320.04	319.71	0.095	0.093	30-08-2018	98	15	69	#	60
*91	SHOLAYAR	1002.79	1003.03	0.143	0.130	30-08-2018	91	30	76	-	95
TOTAL FOR 91 RESERVOIRS				161.993	112.083						
PERCENTAGE							69	53	61		

\* 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