

## **BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 10.01.2019)**

### **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 **10.01.2019**, live storage available in these reservoirs is **80.395 BCM**, which is **50%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **81.236 BCM** and the average of last 10 years live storage was **86.733 BCM**. Thus, the live storage available in 91 reservoirs **as per 10.01.2019 Bulletin** is **99%** of the live storage of corresponding period of last year and **93%** of storage of average of last ten years.

The overall storage position is **less than the** corresponding period of last year in the country as a whole but is **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 **10.01.2019**, the total live storage available in these reservoirs is **11.62 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 **51%** 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 **10.01.2019**, the total live storage available in these reservoirs is **11.79 BCM** which is **63%** 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 **66%** 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 **10.01.2019**, the total live storage available in these reservoirs is **11.88 BCM** which is **38%** 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 **53%** 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 **10.01.2019**, the total live storage available in these reservoirs is **22.95 BCM** which is **54 %** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **47%** and average storage of last ten years during corresponding period was **54%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the storage of last year and is equal to 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 **10.01.2019**, the total live storage available in these reservoirs is **22.15 BCM** which is **43%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **44%** and average storage of last ten years during corresponding period was **50%** 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 4, better than normal storage is available in Indus, Narmada, Mahi, and West Flowing Rivers of South and Cauvery & neighbouring EFRs. Close to Normal in Ganga, Godavari and Mahanadi & Neighbouring East Flowing Rivers, Deficient in Tapi, Sabarmati and Krishna and Highly Deficient in Rivers of Kutch.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **35** and reservoirs having storage more than average of last ten years are **34**. The numbers of reservoirs having storage less than 20% with respect to last year is **2** and having storage less than 20% with reference to average of last ten years is **3**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **17** and having storage less than or equal to 50% with reference to average of last ten years are **16**.

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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 10.01.2019

- 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 **10.01.2019** is **80.395** BCM ( **50** percent of the live storage capacity at FRL ).The current year's storage is nearly **99** percent of last year's storage and **93** 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.)	-	-	-	1	3	1	-	1	H.P.	28	%
									PUNJAB	57	%
									RAJASTHAN	9	%
<b>EAST</b> (Jharkhand,Odisha, Tripura & W.Bengal ( 15 Resv.)	-	-	-	4	3	3	2	3	JHARKHAND	-22	%
									ODISHA	-3	%
									W. BENGAL	-26	%
									TRIPURA	51	%
<b>WEST</b> (Guj.& Mah.), (27 Resv.)	-	-	1	2	5	3	3	13	GUJARAT	-29	%
									MAH.	-28	%
<b>CENTRAL</b> (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	2	4	1	1	4	U.P.	-5	%
									UTTARAKHAND	-6	%
									M.P.	3	%
									CHHATISGARH	-3	%
<b>SOUTH</b> (Karnataka,TN,AP&TG,AP, TG, & Kerala), ( 31 Resv.)	-	-	5	3	4	3	4	12	AP&TG	-46	%
									A,P	-45	%
									TG	-26	%
									KARNATAKA	-2	%
									KERALA	6	%
									T.N.	24	%
Status of 91 reservoirs	0	0	6	12	19	11	10	33			

## 4 Basin wise storage position:

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

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

**Deficient:** Tapi, Sabarmati and Krishna .

**Highly deficient:** Rivers of Kutch

- Out of 91 reservoirs, **60** reservoirs reported more than 80% of normal storage & **31** reservoirs reported 80% or below of normal storage. Out of these **31** reservoirs **16** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
YELDARI	8		
VANIVILAS SAGAR	17		
PENCH (TOTALADOH)	20		
TILAIYA	26		
SHETRANJI	34		
MANIKDOH	35		
NARAYANPUR	36		
MULA	36		
DANTIWADA	36		
SRISAILAM	39		
UPPER WARDHA	42		
SABARMATI(DHAROI)	42		
UKAI	42		
BHADAR	43		
JAYAKWADI(PAITHON)	48		
MATATILA	49		

15 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
7	4	4

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

**20** 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 :- 10.01.2019

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	13.394	47.67%	14.746	52.48%	14.218	50.61%	<b>-5.80</b>
INDUS	14.730	9.857	66.92%	7.233	49.10%	7.491	50.86%	<b>31.58</b>
NARMADA	21.608	11.209	51.87%	7.278	33.68%	10.145	46.95%	<b>10.49</b>
TAPI	7.394	2.106	28.48%	3.069	41.51%	4.537	61.36%	<b>-53.58</b>
MAHI	4.012	2.593	64.63%	2.746	68.44%	2.389	59.55%	<b>8.54</b>
SABARMATI	0.735	0.145	19.73%	0.350	47.62%	0.346	47.07%	<b>-58.09</b>
RIVERS OF KUTCH	0.887	0.124	13.98%	0.508	57.27%	0.340	38.33%	<b>-63.53</b>
GODAVARI	15.394	7.176	46.62%	8.026	52.14%	8.341	54.18%	<b>-13.97</b>
KRISHNA	32.831	11.424	34.80%	15.808	48.15%	16.060	48.92%	<b>-28.87</b>
MAHANADI & NEIGHBOURING EFRS	13.181	8.141	61.76%	9.732	73.83%	9.476	71.89%	<b>-14.09</b>
CAUVERY& NEIGHBOURING EFRS	8.359	4.198	50.22%	3.092	36.99%	4.080	48.81%	<b>2.89</b>
WEST FLOWING RIVERS OF SOUTH	14.766	10.028	67.91%	8.648	58.57%	9.310	63.05%	<b>7.71</b>
<b>TOTAL</b>	<b>161.993</b>	<b>80.395</b>		<b>81.236</b>		<b>86.733</b>		
<b>PERCENTAGE</b>								<b>-7.31</b>

## WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 10.01.2019

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	503.34	6.229	4.626	10-01-2019	74	60	59	676	1200
*2	PONG DAM	423.67	414.25	6.157	3.815	10-01-2019	62	45	47	-	360
<b><u>PUNJAB</u></b>											
*3	THEIN	527.91	515.19	2.344	1.416	10-01-2019	60	31	38	348	600
<b><u>RAJASTHAN</u></b>											
*4	MAHI BAJAJ SAGAR	280.75	276.60	1.711	1.202	09-01-2019	70	76	60	63	140
5	JHAKAM	359.50	354.40	0.132	0.086	09-01-2019	65	65	52	28	-
*6	RANA PRATAP SAGAR	352.81	347.28	1.436	0.478	10-01-2019	33	27	37	229	172
<b><u>EASTERN REGION</u></b>											
<b><u>JHARKHAND</u></b>											
7	TENUGHAT	269.14	258.74	0.821	0.368	10-01-2019	45	50	47	-	-
8	MAITHON	146.3	142.61	0.471	0.258	10-01-2019	55	100	87	342	-
*9	PANCHET HILL	124.97	124.14	0.184	0.145	10-01-2019	79	100	86	\$	80
10	KONAR	425.81	422.50	0.176	0.120	10-01-2019	68	70	76	\$	-
11	TILAIYA	368.81	364.54	0.142	0.020	10-01-2019	14	46	55	\$	4
<b><u>ODISHA</u></b>											
*12	HIRAKUD	192.02	190.31	5.378	3.748	10-01-2019	70	75	79	153	307
*13	BALIMELA	462.08	459.21	2.676	2.149	10-01-2019	80	37	51	-	360
14	SALANADI	82.30	74.10	0.558	0.312	10-01-2019	56	43	37	42	-
*15	RENGALI	123.50	117.66	3.432	1.600	09-01-2019	47	91	72	3	200
*16	MACHKUND(JALPUT)	838.16	835.87	0.893	0.700	09-01-2019	78	90	79	-	115
*17	UPPER KOLAB	858.00	854.91	0.935	0.645	09-01-2019	69	59	60	89	320
*18	UPPER INDRAVATI	642.00	638.56	1.456	1.093	09-01-2019	75	56	68	128	600
<b><u>WEST BENGAL</u></b>											
19	MAYURAKSHI	121.31	111.69	0.480	0.114	10-01-2019	24	95	44	227	-
20	KANGSABATI	134.14	126.26	0.914	0.333	10-01-2019	36	88	43	341	-
<b><u>TRIPURA</u></b>											
21	GUMTI	93.55	90.75	0.312	0.187	08-01-2019	60	91	40	-	15
<b><u>WESTERN REGION</u></b>											
<b><u>GUJARAT</u></b>											
*22	UKAI	105.16	93.38	6.615	1.740	10-01-2019	26	40	63	348	300
23	SABARMATI(DHAROI)	189.59	181.37	0.735	0.145	09-01-2019	20	48	47	95	1
*24	KADANA	127.7	124.13	1.472	0.848	09-01-2019	58	62	61	200	120
25	SHETRUNJI	55.53	50.47	0.300	0.059	09-01-2019	20	50	59	36	-
26	BHADAR	107.89	102.42	0.188	0.033	09-01-2019	18	51	40	27	-
27	DAMANAGANGA	79.86	74.60	0.502	0.263	10-01-2019	52	82	79	51	1
28	DANTIWADA	184.1	168.48	0.399	0.032	09-01-2019	8	66	22	45	-
29	PANAM	127.41	125.95	0.697	0.457	09-01-2019	66	65	57	36	2
*30	SARDAR SAROVAR	138.68	122.94	5.760	1.751	10-01-2019	30	12	20	2120	1450
31	KARJAN	115.25	109.52	0.523	0.360	10-01-2019	69	79	74	51	3

## WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 10.01.2019

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	457.94	2.171	0.423	10-01-2019	19	81	41	227	-
*33	KOYANA	657.90	653.21	2.652	2.169	03-01-2019	82	94	81	-	1920
34	BHIMA(UJJANI)	496.83	493.80	1.517	0.622	08-01-2019	41	100	68	125	12
35	ISAPUR	441.00	434.42	0.965	0.423	10-01-2019	44	8	45	104	-
36	MULA	552.30	540.62	0.609	0.144	03-01-2019	24	87	65	139	-
37	YELDARI	461.77	448.51	0.809	0.021	10-01-2019	3	6	34	78	-
38	GIRNA	398.07	389.86	0.524	0.191	10-01-2019	36	49	36	79	-
39	KHADAKVASLA	582.47	580.83	0.056	0.035	09-01-2019	63	71	61	78	8
*40	UPPER VAITARNA	603.50	601.48	0.331	0.266	05-01-2019	80	89	81	-	61
41	UPPER TAPI	214.00	212.59	0.255	0.175	10-01-2019	69	75	83	45	-
*42	PENCH (TOTALADOH)	490.00	470.23	1.091	0.100	10-01-2019	9	18	46	127	160
43	UPPER WARDHA	342.50	336.43	0.564	0.151	10-01-2019	27	70	64	70	-
44	BHATSA	142.07	129.32	0.942	0.629	10-01-2019	67	77	73	29.378	15
45	DHOM	747.70	740.25	0.331	0.180	01-01-2019	54	77	67	36.2	2
46	DUDHGANGA	646.00	640.38	0.664	0.498	03-01-2019	75	86	81	2.441	24
47	MANIKDOH (KUKADI)	711.25	691.42	0.288	0.042	02-01-2019	15	76	42	2.2	6
48	BHANDARDARA	744.91	730.81	0.304	0.124	10-01-2019	41	97	77	63.74	46
<b>CENTRAL REGION</b>											
<b>UTTAR PRADESH</b>											
49	MATATILA	308.46	303.34	0.707	0.182	09-01-2019	26	28	53	-	30
*50	RIHAND	268.22	260.33	5.649	2.372	10-01-2019	42	44	41	-	300
<b>UTTRAKHAND</b>											
*51	RAMGANGA	365.30	350.97	2.196	1.231	10-01-2019	56	51	67	1897	198
*52	TEHRI	830.00	809.05	2.615	1.797	10-01-2019	69	63	66	2351	1000
<b>MADHYA PRADESH</b>											
*53	GANDHI SAGAR	399.90	388.56	6.827	1.649	10-01-2019	24	45	43	220	115
54	TAWA	355.40	345.43	1.944	0.684	10-01-2019	35	33	57	247	-
*55	BARGI	422.76	418.40	3.180	2.038	10-01-2019	64	75	68	157	90
*56	BANSAGAR	341.64	339.34	5.166	4.140	10-01-2019	80	59	57	488	425
*57	INDIRA SAGAR	262.13	257.77	9.745	6.254	10-01-2019	64	31	52	2380	1000
58	BARNA	348.55	342.50	0.456	0.122	10-01-2019	27	30	52	546	-
<b>CHHATTIS GARH</b>											
*59	MINIMATA BANGOI	359.66	353.66	3.046	1.936	10-01-2019	64	62	65	-	120
60	MAHANADI	348.70	346.15	0.767	0.545	09-01-2019	71	56	74	319	10
<b>SOUTHERN REGION</b>											
<b>A.P. &amp; TG</b>											
*61	SRISAILAM	269.75	255.42	8.288	1.569	10-01-2019	19	45	49	0	770
*62	NAGARJUNA SAGAR	179.83	165.02	6.841	1.688	10-01-2019	25	20	29	895	810
<b>ANDHRA PRADESH</b>											
63	SOMASILA	100.58	90.31	1.994	0.730	10-01-2019	37	51	66	168	0
<b>TELANGANA</b>											
64	SRIRAMSAGAR	332.54	326.62	2.300	0.914	10-01-2019	40	51	54	411	27
65	LOWER MANAIR	280.42	274.27	0.621	0.289	10-01-2019	47	60	61	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 10.01.2019

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><u>KARNATAKA</u></b>											
66	KRISHNARAJA SAGRA	752.50	749.33	1.163	0.906	07-01-2019	78	51	62	79	-
*67	TUNGABHADRA	497.74	488.95	3.276	0.718	10-01-2019	22	31	40	529	72
68	GHATAPRABHA	662.95	651.55	1.391	0.672	10-01-2019	48	61	45	317	-
69	BHADRA	657.76	655.34	1.785	1.543	10-01-2019	86	69	78	106	39
70	LINGANAMAKKI	554.43	549.13	4.294	2.834	10-01-2019	66	48	64	-	55
71	NARAYANPUR	492.25	487.42	0.863	0.239	10-01-2019	28	66	77	425	-
72	MALAPRABHA(RENUKA)	633.83	625.31	0.972	0.223	10-01-2019	23	19	30	215	-
73	KABINI(Sancherla Tank)	696.16	693.89	0.444	0.319	07-01-2019	72	63	34	85	-
74	HEMAVATHY	890.63	877.74	0.927	0.233	07-01-2019	25	22	25	265	-
75	HARANGI	871.42	855.84	0.220	0.036	07-01-2019	16	28	14	53	-
76	SUPA	564.00	552.86	4.120	2.872	10-01-2019	70	53	56	-	-
77	VANIVILAS SAGAR	652.28	632.75	0.802	0.024	10-01-2019	3	2	17	123	-
*78	ALMATTI	519.60	514.00	3.105	1.202	10-01-2019	39	56	49	@	290
*79	GERUSOPPA	55.00	51.50	0.130	0.110	10-01-2019	85	92	81	83	240
<b><u>KERALA</u></b>											
80	KALLADA(PARAPPAR)	115.82	114.01	0.507	0.447	07-01-2019	88	95	78	62	-
*81	IDAMALAYAR	169.00	154.84	1.018	0.629	07-01-2019	62	69	65	33	75
*82	IDUKKI	732.43	725.19	1.460	1.065	07-01-2019	73	65	60	-	780
*83	KAKKI	981.46	971.81	0.447	0.302	07-01-2019	68	86	76	23	300
*84	PERIYAR	867.41	862.50	0.173	0.067	07-01-2019	39	36	46	84	140
85	MALAPMUZHA	115.06	108.77	0.224	0.101	10-01-2019	45	35	46	21	3
<b><u>TAMIL NADU</u></b>											
86	LOWER BHAWANI	278.89	276.69	0.792	0.664	07-01-2019	84	33	46	105	8
*87	METTUR(STANLEY)	240.79	228.97	2.647	1.222	07-01-2019	46	24	45	122	360
88	VAIGAI	279.20	275.00	0.172	0.088	07-01-2019	51	24	40	61	6
89	PARAMBIKULAM	556.26	553.11	0.380	0.314	07-01-2019	83	35	63	101	-
90	ALIYAR	320.04	312.88	0.095	0.052	07-01-2019	55	18	61	#	60
*91	SHOLAYAR	1002.79	991.52	0.143	0.077	07-01-2019	54	0	29	-	95
TOTAL FOR 91 RESERVOIRS				161.993	80.395						
PERCENTAGE							50	50	54		

\* 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