

## **BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 17.05.2017)**

### **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 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 **17.05.2017**, live storage available in these reservoirs is **31.072 BCM**, which is **19%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **36.764 BCM** and the average of last 10 years live storage was **34.584 BCM**. Thus, the live storage available in 91 reservoirs **as per 17.05.2017 Bulletin** is **85%** of the live storage of corresponding period of last year and **90%** 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 and is also **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 **17.05.2017**, the total live storage available in these reservoirs is **2.93 BCM** which is **16%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **23%** and average storage of last ten years during corresponding period was **26%** 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 **17.05.2017**, the total live storage available in these reservoirs is **5.55 BCM** which is **29%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **34%** and average storage of last ten years during corresponding period was **22%** 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 **17.05.2017**, the total live storage available in these reservoirs is **5.63 BCM** which is **18%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **23%** and average storage of last ten years during corresponding period was **23%** 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 **17.05.2017**, the total live storage available in these reservoirs is **10.55 BCM** which is **25%** 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 **23%** 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.

**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 **17.05.2017**, the total live storage available in these reservoirs is **6.41 BCM** which is **12%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **8%** and average storage of last ten years during corresponding period was **17%** 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 Mahi, Narmada, Mahanadi & Neighbouring East Flowing Rivers, Rivers of Kutch and West Flowing Rivers of South. Close to Normal in Ganga, Sabarmati and Godavari. Deficient in Indus, Tapi, Krishna and Cauvery & neighbouring EFRs 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 **46** and reservoirs having storage more than average of last ten years are **39**. The numbers of reservoirs having storage less than 20% with respect to last year is **4** and having storage less than 20% with reference to average of last ten years is **8**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **16** and having storage less than or equal to 50% with reference to average of last ten years are **22**.

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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 17.05.2018

- 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 **17.05.2018** is **31.072** BCM ( **19** percent of the live storage capacity at FRL ).The current year's storage is nearly **85** percent of last year's storage and **90** 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.)	-	-	-	-	-	-	-	6	H.P.	-56 %	
									PUNJAB	-39 %	
									RAJASTHAN	17 %	
<b>EAST</b> (Jharkhand,Odisha, Tripura & W.Bengal ( 15 Resv.)	-	-	-	-	1	-	2	12	JHARKHAND	3 %	
									ODISHA	26 %	
									W. BENGAL	161 %	
									TRIPURA	294 %	
<b>WEST</b> (Guj.& Mah.), (27 Resv.)	-	-	-	-	-	1	2	24	GUJARAT	-40 %	
									MAH.	6 %	
<b>CENTRAL</b> (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	-	1	2	9	U.P.	-24 %	
									UTTARAKHAND	-53 %	
									M.P.	30 %	
									CHHATISGARH	6 %	
<b>SOUTH</b> (Karnataka,TN,AP&TG,AP, TG, & Kerala), ( 31 Resv.)	-	-	1	-	1	-	-	29	AP&TG	-60 %	
									A,P	-52 %	
									TG	-25 %	
									KARNATAKA	-8 %	
									KERALA	30 %	
									T.N.	-67 %	
Status of 91 reservoirs	0	0	1	0	2	2	6	80			

## 4 Basin wise storage position:

**Better than normal:** Mahi,Narmada, Mahanadi & Neighbouring EFRS, Rivers of Kutch and West Flowing Rivers of South .

**Close to normal:** Ganga, Sabarmati and Godavari, .

**Deficient:** Indus, Tapi, Krishna and Cauvery & neighbouring EFRS.

**Highly deficient:** NIL

- Out of 91 reservoirs, **54** reservoirs reported more than 80% of normal storage & **37** reservoirs reported 80% or below of normal storage. Out of these **37** reservoirs **22** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0	TILAIYA	46
SARDAR SAROVAR	0	TAWA	46
YELDARI	0	BARNA	46
ISAPUR	0	PONG DAM	47
ALIYAR	2	SOMASILA	48
VANIVILAS SAGAR	6		
NAGARJUNA SAGAR	11		
BHADRA	19		
UPPER TAPI	21		
PARAMBIKULAM	22		
MATATILA	23		
METTUR(STANLEY)	29		
TUNGABHADRA	31		
KRISHNARAJA SAGRA	38		
GOBIND SAGAR(BHAKR	42		
RAMGANGA	44		
PENCH (TOTALADOH)	45		

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

**24** 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 :- 17.05.2018

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	6.628	23.59%	10.527	37.47%	6.638	23.63%	<b>-0.15</b>
INDUS	14.730	1.848	12.55%	3.247	22.04%	3.800	25.80%	<b>-51.37</b>
NARMADA	21.608	4.196	19.42%	5.139	23.78%	3.573	16.54%	<b>17.44</b>
TAPI	7.394	1.098	14.85%	2.571	34.77%	2.000	27.05%	<b>-45.10</b>
MAHI	4.012	1.506	37.54%	1.619	40.35%	1.413	35.22%	<b>6.58</b>
SABARMATI	0.735	0.112	15.24%	0.177	24.08%	0.135	18.37%	<b>-17.04</b>
RIVERS OF KUTCH	0.887	0.144	16.23%	0.051	5.75%	0.068	7.67%	<b>111.76</b>
GODAVARI	15.394	2.647	17.20%	3.322	21.58%	2.875	18.68%	<b>-7.93</b>
KRISHNA	32.831	2.994	9.12%	1.345	4.10%	4.695	14.30%	<b>-36.23</b>
MAHANADI & NEIGHBOURING EFRS	13.181	4.892	37.11%	5.288	40.12%	3.697	28.05%	<b>32.32</b>
CAUVERY& NEIGHBOURING EFRS	8.359	0.985	11.78%	0.557	6.66%	2.168	25.94%	<b>-54.57</b>
WEST FLOWING RIVERS OF SOUTH	14.766	4.022	27.24%	2.921	19.78%	3.522	23.85%	<b>14.20</b>
<b>TOTAL</b>	<b>161.993</b>	<b>31.072</b>		<b>36.764</b>		<b>34.584</b>		
<b>PERCENTAGE</b>								<b>-10.15</b>

## WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 17.05.2018

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	459.58	6.229	0.581	17-05-2018	9	17	22	676	1200
*2	PONG DAM	423.67	393.10	6.157	0.664	17-05-2018	11	14	23	-	360
<b><u>PUNJAB</u></b>											
*3	THEIN	527.91	499.45	2.344	0.603	16-05-2018	26	58	42	348	600
<b><u>RAJASTHAN</u></b>											
*4	MAHI BAJAJ SAGAR	280.75	269.60	1.711	0.563	17-05-2018	33	33	23	63	140
5	JHAKAM	359.50	346.85	0.132	0.039	17-05-2018	30	28	17	28	-
*6	RANA PRATAP SAGAR	352.81	347.31	1.436	0.483	17-05-2018	34	27	35	229	172
<b><u>EASTERN REGION</u></b>											
<b><u>JHARKHAND</u></b>											
7	TENUGHAT	269.14	257.57	0.821	0.328	17-05-2018	40	44	33	-	-
8	MAITHON	146.3	139.79	0.471	0.152	17-05-2018	32	31	28	342	-
*9	PANCHET HILL	124.97	121.24	0.184	0.041	17-05-2018	22	53	36	\$	80
10	KONAR	425.81	416.08	0.176	0.038	17-05-2018	22	22	36	\$	-
11	TILAIYA	368.81	364.06	0.142	0.011	17-05-2018	8	26	17	\$	4
<b><u>ODISHA</u></b>											
*12	HIRAKUD	192.02	185.64	5.378	1.565	16-05-2018	29	27	24	153	307
*13	BALIMELA	462.08	442.39	2.676	0.252	16-05-2018	9	32	16	-	360
14	SALANADI	82.30	70.64	0.558	0.230	10-05-2018	41	29	25	42	-
*15	RENGALI	123.50	116.43	3.432	1.299	16-05-2018	38	50	17	3	200
*16	MACHKUND(JALPUT)	838.16	828.71	0.893	0.285	16-05-2018	32	20	38	-	115
*17	UPPER KOLAB	858.00	848.69	0.935	0.213	16-05-2018	23	34	21	89	320
*18	UPPER INDRAVATI	642.00	630.14	1.456	0.346	16-05-2018	24	31	24	128	600
<b><u>WEST BENGAL</u></b>											
19	MAYURAKSHI	121.31	113.84	0.480	0.171	17-05-2018	36	22	16	227	-
20	KANGSABATI	134.14	127.86	0.914	0.422	17-05-2018	46	30	16	341	-
<b><u>TRIPURA</u></b>											
21	GUMTI	93.55	90.95	0.312	0.197	15-05-2018	63	47	16	-	15
<b><u>WESTERN REGION</u></b>											
<b><u>GUJARAT</u></b>											
*22	UKAI	105.16	89.65	6.615	0.997	17-05-2018	15	36	28	348	300
23	SABARMATI(DHAROI)	189.59	180.50	0.735	0.112	17-05-2018	15	24	18	95	1
*24	KADANA	127.7	121.72	1.472	0.651	17-05-2018	44	54	49	200	120
25	SHETRUNJI	55.53	49.57	0.300	0.044	17-05-2018	15	15	10	36	-
26	BHADAR	107.89	102.32	0.188	0.032	17-05-2018	17	2	17	27	-
27	DAMANAGANGA	79.86	70.15	0.502	0.132	17-05-2018	26	16	27	51	1
28	DANTIWADA	184.1	171.66	0.399	0.068	17-05-2018	17	1	1	45	-
29	PANAM	127.41	121.90	0.697	0.253	17-05-2018	36	32	39	36	2
*30	SARDAR SAROVAR	138.68	104.82	5.760	0.000	17-05-2018	0	18	15	2120	1450
31	KARJAN	115.25	103.45	0.523	0.230	17-05-2018	44	31	39	51	3

## WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 17.05.2018

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	459.23	2.171	0.709	17-05-2018	33	23	13	227	-
*33	KOYANA	657.90	636.07	2.652	0.867	17-05-2018	33	15	30	-	1920
34	BHIMA(UJJANI)	496.83	491.58	1.517	0.110	17-05-2018	7	0	5	125	12
35	ISAPUR	441.00	424.53	0.965	0.000	17-05-2018	0	9	23	104	-
36	MULA	552.30	539.99	0.609	0.127	16-05-2018	21	13	16	139	-
37	YELDARI	461.77	447.30	0.809	0.000	17-05-2018	0	1	9	78	-
38	GIRNA	398.07	385.98	0.524	0.085	16-05-2018	16	25	14	79	-
39	KHADAKVASLA	582.47	580.40	0.056	0.030	16-05-2018	54	46	45	78	8
*40	UPPER VAITARNA	603.50	595.00	0.331	0.091	16-05-2018	27	34	35	-	61
41	UPPER TAPI	214.00	208.35	0.255	0.016	16-05-2018	6	19	31	45	-
*42	PENCH (TOTALADOH)	490.00	470.70	1.091	0.111	16-05-2018	10	6	23	127	160
43	UPPER WARDHA	342.50	337.57	0.564	0.209	17-05-2018	37	38	32	70	-
44	BHATSA	142.07	115.34	0.942	0.371	16-05-2018	39	41	36	29.378	15
45	DHOM	747.70	733.97	0.331	0.082	16-05-2018	25	21	27	36.2	2
46	DUDHGANGA	646.00	627.07	0.664	0.184	16-05-2018	28	23	27	2.441	24
47	MANIKDOH (KUKADI)	711.25	688.91	0.288	0.025	16-05-2018	9	3	3	2.2	6
48	BHANDARDARA	744.91	727.67	0.304	0.098	16-05-2018	32	26	21	63.74	46
<b>CENTRAL REGION</b>											
<b>UTTAR PRADESH</b>											
49	MATATILA	308.46	300.99	0.707	0.058	16-05-2018	8	10	35	-	30
*50	RIHAND	268.22	255.85	5.649	0.803	17-05-2018	14	35	16	-	300
<b>UTTRAKHAND</b>											
*51	RAMGANGA	365.30	330.33	2.196	0.356	17-05-2018	16	0	37	1897	198
*52	TEHRI	830.00	745.65	2.615	0.099	17-05-2018	4	6	6	2351	1000
<b>MADHYA PRADESH</b>											
*53	GANDHI SAGAR	399.90	387.12	6.827	1.179	17-05-2018	17	57	22	220	115
54	TAWA	355.40	338.24	1.944	0.178	17-05-2018	9	23	20	247	-
*55	BARGI	422.76	416.25	3.180	1.590	17-05-2018	50	30	22	157	90
*56	BANSAGAR	341.64	334.26	5.166	2.290	17-05-2018	44	55	33	488	425
*57	INDIRA SAGAR	262.13	249.93	9.745	2.166	17-05-2018	22	25	14	2380	1000
58	BARNA	348.55	339.46	0.456	0.032	17-05-2018	7	29	15	546	-
<b>CHHATTIS GARH</b>											
*59	MINIMATA BANGOI	359.66	351.05	3.046	1.582	16-05-2018	52	59	49	-	120
60	MAHANADI	348.70	341.31	0.767	0.216	17-05-2018	28	17	27	319	10
<b>SOUTHERN REGION</b>											
<b>A.P. &amp; TG</b>											
*61	SRISAILAM	269.75	243.81	8.288	0.723	17-05-2018	9	5	12	0	770
*62	NAGARJUNA SAGAR	179.83	156.21	6.841	0.121	17-05-2018	2	0	17	895	810
<b>ANDHRA PRADESH</b>											
63	SOMASILA	100.58	85.05	1.994	0.353	17-05-2018	18	11	37	168	0
<b>TELANGANA</b>											
64	SRIRAMSAGAR	332.54	320.35	2.300	0.191	17-05-2018	8	11	11	411	27
65	LOWER MANAIR	280.42	269.05	0.621	0.106	17-05-2018	17	35	24	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA  
GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 17.05.2018

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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><u>KARNATAKA</u></b>											
66	KRISHNARAJA SAGRA	752.50	735.65	1.163	0.070	17-05-2018	6	6	16	79	-
*67	TUNGABHADRA	497.74	480.18	3.276	0.070	17-05-2018	2	1	7	529	72
68	GHATAPRABHA	662.95	636.74	1.391	0.127	16-05-2018	9	4	6	317	-
69	BHADRA	657.76	634.71	1.785	0.089	16-05-2018	5	1	27	106	39
70	LINGANAMAKKI	554.43	535.67	4.294	0.710	17-05-2018	17	10	18	-	55
71	NARAYANPUR	492.25	486.91	0.863	0.201	17-05-2018	23	15	29	425	-
72	MALAPRABHA(RENUKA)	633.83	621.60	0.972	0.058	16-05-2018	6	3	7	215	-
73	KABINI(Sancherla Tank)	696.16	687.19	0.444	0.045	17-05-2018	10	0	8	85	-
74	HEMAVATHY	890.63	872.43	0.927	0.088	17-05-2018	9	4	9	265	-
75	HARANGI	871.42	855.93	0.220	0.034	17-05-2018	15	15	16	53	-
76	SUPA	564.00	535.50	4.120	1.444	17-05-2018	35	29	24	-	-
77	VANIVILAS SAGAR	652.28	631.45	0.802	0.006	17-05-2018	1	2	12	123	-
*78	ALMATTI	519.60	508.38	3.105	0.301	17-05-2018	10	0	7	@	290
*79	GERUSOPPA	55.00	52.48	0.130	0.115	17-05-2018	88	77	87	83	240
<b><u>KERALA</u></b>											
80	KALLADA(PARAPPAR)	115.82	108.00	0.507	0.323	17-05-2018	64	12	25	62	-
*81	IDAMALAYAR	169.00	133.16	1.018	0.187	17-05-2018	18	21	20	33	75
*82	IDUKKI	732.43	709.29	1.460	0.408	16-05-2018	28	14	23	-	780
*83	KAKKI	981.46	956.19	0.447	0.158	17-05-2018	35	16	26	23	300
*84	PERIYAR	867.41	860.04	0.173	0.026	17-05-2018	15	5	27	84	140
85	MALAPMUZHA	115.06	102.76	0.224	0.033	17-05-2018	15	8	19	21	3
<b><u>TAMIL NADU</u></b>											
86	LOWER BHAWANI	278.89	263.25	0.792	0.117	17-05-2018	15	8	24	105	8
*87	METTUR(STANLEY)	240.79	214.49	2.647	0.257	17-05-2018	10	4	33	122	360
88	VAIGAI	279.20	268.94	0.172	0.021	17-05-2018	12	4	23	61	6
89	PARAMBIKULAM	556.26	536.15	0.380	0.023	17-05-2018	6	5	28	101	-
90	ALIYAR	320.04	301.26	0.095	0.001	17-05-2018	1	26	51	#	60
*91	SHOLAYAR	1002.79	960.26	0.143	0.000	17-05-2018	0	0	5	-	95
TOTAL FOR 91 RESERVOIRS				161.993	31.072						
PERCENTAGE							19	23	21		

\* 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