

## **BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 18.07.2019)**

### **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 **18.07.2019**, live storage available in these reservoirs is **39.319 BCM**, which is **24%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **51.536 BCM** and the average of last 10 years live storage was **44.690 BCM**. Thus, the live storage available in 91 reservoirs **as per 18.07.2019 Bulletin** is **76%** of the live storage of corresponding period of last year and **88%** 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 **18.07.2019**, the total live storage available in these reservoirs is **8.04 BCM** which is **45%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **20%** 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.

#### **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 **18.07.2019**, the total live storage available in these reservoirs is **3.36 BCM** which is **18%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **22%** and average storage of last ten years during corresponding period was **20%** 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 **18.07.2019**, 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 **27%** and average storage of last ten years during corresponding period was **25%** 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 **18.07.2019**, the total live storage available in these reservoirs is **11.17 BCM** which is **26%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **27%** and average storage of last ten years during corresponding period was **28%** 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 **18.07.2019**, the total live storage available in these reservoirs is **11.12 BCM** which is **22%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **46%** and average storage of last ten years during corresponding period was **29%** 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, Mahi and Narmada. Close to Normal in Ganga, Krishna and Mahanadi & Neighbouring East Flowing Rivers. Deficient in Godavari, Cauvery & neighbouring EFRs and West Flowing Rivers of South and Highly Deficient in Tapi, Sabarmati and Rivers of Kutch.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **21** and reservoirs having storage more than average of last ten years are **24**. The numbers of reservoirs having storage less than 20% with respect to last year is **17** and having storage less than 20% with reference to average of last ten years is **13**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **39** and having storage less than or equal to 50% with reference to average of last ten years are **34**.

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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 18.07.2019**

- 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 **18.07.2019** is **39.319** BCM ( **24** percent of the live storage capacity at FRL ).The current year's storage is nearly **76** percent of last year's storage and **88** 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.)	-	-	-	-	-	3	-	3	H.P.	33 %
									PUNJAB	13 %
									RAJASTHAN	30 %
<b>EAST</b> (Jharkhand,Odisha, Tripura & W.Bengal ) ( 15 Resv.)	-	-	-	-	-	1	2	12	JHARKHAND	-20 %
									ODISHA	-11 %
									W. BENGAL	-10 %
									TRIPURA	6 %
<b>WEST</b> (Guj.& Mah.), (27 Resv.)	-	-	1	-	-	1	3	22	GUJARAT	-27 %
									MAH.	-29 %
<b>CENTRAL</b> (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	-	2	1	9	U.P.	-29 %
									UTTARAKHAND	-21 %
									M.P.	1 %
									CHHATISGARH	-7 %
<b>SOUTH</b> (Karnataka,TN,AP&TG,AP, TG, & Kerala), ( 31 Resv.)	-	-	1	1	1	-	3	25	AP&TG	-53 %
									A,P	-84 %
									TG	-60 %
									KARNATAKA	-3 %
									KERALA	-62 %
									T.N.	-63 %
Status of 91 reservoirs	0	0	2	1	1	7	9	71		

**4 Basin wise storage position:**

**Better than normal:** Indus, Mahi and Narmada

**Close to normal:** Ganga, Krishna and Mahanadi & Neighbouring East Flowing Rivers

**Deficient:** Godavari , Cauvery & neighbouring EFRs and West Flowing Rivers of South . .

**Highly deficient:** Tapi, Sabarmati and Rivers of Kutch .

- Out of 91 reservoirs, **41** reservoirs reported more than 80% of normal storage & **50** reservoirs reported 80% or below of normal storage. Out of these **50** reservoirs **34** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
YELDARI	0	PERIYAR	28
BHIMA(UJJANI)	0	VAIGAI	29
JAYAKWADI(PAITHON)	0	SHETRUNJI	29
PENCH (TOTALADOH)	0	IDAMALAYAR	29
NAGARJUNA SAGAR	0	SRIRAMSAGAR	32
ALIYAR	0	MATATILA	32
SHOLAYAR	0	PARAMBIKULAM	32
ISAPUR	2	SABARMATI(DHAROI)	33
BARNA	6	IDUKKI	33
TILAIYA	8	TUNGABHADRA	34
VANIVILAS SAGAR	8	METTUR(STANLEY)	35
UKAI	16	GANDHI SAGAR	35
SOMASILA	16	HARANGI	39
KAKKI	21	KONAR	41
UPPER WARDHA	26	MALAMPUZHA	42
BHADAR	27	RENGALI	48
TAWA	28	BHADRA	49

<b>16</b> reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
0	8	8

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

**27** 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**

**WEEK ENDING :- 18.07.2019**

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	6.705	23.86%	6.922	24.64%	7.889	28.08%	<b>-15.01</b>
INDUS	14.730	6.702	45.50%	2.313	15.70%	5.198	35.29%	<b>28.93</b>
NARMADA	21.608	5.820	26.93%	4.803	22.23%	4.763	22.04%	<b>22.19</b>
TAPI	7.394	0.371	5.02%	1.155	15.62%	1.850	25.02%	<b>-79.95</b>
MAHI	4.012	1.706	42.52%	1.676	41.77%	1.416	35.29%	<b>20.48</b>
SABARMATI	0.735	0.044	5.99%	0.126	17.14%	0.134	18.23%	<b>-67.16</b>
RIVERS OF KUTCH	0.887	0.053	5.98%	0.290	32.69%	0.150	16.91%	<b>-64.67</b>
GODAVARI	15.394	1.486	9.65%	3.051	19.82%	3.020	19.62%	<b>-50.79</b>
KRISHNA	32.831	7.512	22.88%	12.527	38.16%	8.402	25.59%	<b>-10.59</b>
MAHANADI & NEIGHBOURING EFRS	13.181	3.018	22.90%	3.613	27.41%	3.258	24.72%	<b>-7.37</b>
CAUVERY & NEIGHBOURING EFRS	8.359	1.556	18.61%	5.657	67.68%	3.118	37.30%	<b>-50.10</b>
WEST FLOWING RIVERS OF SOUTH	14.766	4.346	29.43%	9.403	63.68%	5.492	37.19%	<b>-20.87</b>
<b>TOTAL</b>	<b>161.993</b>	<b>39.319</b>		<b>51.536</b>		<b>44.690</b>		
<b>PERCENTAGE</b>								<b>-12.02</b>

**WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA**

**WEEK ENDING :- 18.07.2019**

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>NORTHERN REGION</u></b>											
<b><u>HIMACHAL PRADESH</u></b>											
*1	GOBIND SAGAR(BHAKRA)	512.06	495.85	6.229	3.316	18-07-2019	53	12	39	676	1200
*2	PONG DAM	423.67	405.61	6.157	2.153	18-07-2019	35	10	27	-	360
<b><u>PUNJAB</u></b>											
*3	THEIN	527.91	511.78	2.344	1.233	18-07-2019	53	41	47	348	600
<b><u>RAJASTHAN</u></b>											
*4	MAHI BAJAJ SAGAR	280.75	273.25	1.711	0.873	18-07-2019	51	44	27	63	140
5	JHAKAM	359.50	348.90	0.132	0.048	18-07-2019	36	35	20	28	-
*6	RANA PRATAP SAGAR	352.81	346.83	1.436	0.414	18-07-2019	29	33	37	229	172
<b><u>EASTERN REGION</u></b>											
<b><u>JHARKHAND</u></b>											
7	TENUGHAT	269.14	257.59	0.821	0.329	18-07-2019	40	32	39	-	-
8	MAITHON	146.3	139.15	0.471	0.130	18-07-2019	28	35	39	342	-
*9	PANCHET HILL	124.97	122.83	0.184	0.091	18-07-2019	49	53	64	\$	80
10	KONAR	425.81	414.92	0.176	0.029	18-07-2019	16	20	40	\$	-
11	TILAIYA	368.81	363.54	0.142	0.003	18-07-2019	2	6	27	\$	4
<b><u>ODISHA</u></b>											
*12	HIRAKUD	192.02	183.06	5.378	0.752	18-07-2019	14	17	14	153	307
*13	BALIMELA	462.08	442.63	2.676	0.271	18-07-2019	10	16	15	-	360
14	SALANADI	82.30	73.30	0.558	0.293	18-07-2019	53	46	26	42	-
*15	RENGALI	123.50	111.04	3.432	0.206	18-07-2019	6	13	12	3	200
*16	MACHKUND(JALPUT)	838.16	826.43	0.893	0.197	17-07-2019	22	15	28	-	115
*17	UPPER KOLAB	858.00	846.97	0.935	0.129	18-07-2019	14	16	15	89	320
*18	UPPER INDRAVATI	642.00	630.12	1.456	0.344	18-07-2019	24	20	21	128	600
<b><u>WEST BENGAL</u></b>											
19	MAYURAKSHI	121.31	111.88	0.480	0.119	18-07-2019	25	29	37	227	-
20	KANGSABATI	134.14	125.81	0.914	0.310	18-07-2019	34	47	32	341	-
<b><u>TRIPURA</u></b>											
21	GUMTI	93.55	89.90	0.312	0.155	16-07-2019	50	98	47	-	15
<b><u>WESTERN REGION</u></b>											
<b><u>GUJARAT</u></b>											
*22	UKAI	105.16	84.73	6.615	0.275	18-07-2019	4	16	26	348	300
23	SABARMATI(DHAROI)	189.59	178.20	0.735	0.044	18-07-2019	6	17	18	95	1
*24	KADANA	127.7	119.99	1.472	0.530	18-07-2019	36	41	43	200	120
25	SHETRANJI	55.53	48.22	0.300	0.025	18-07-2019	8	44	29	36	-
26	BHADAR	107.89	100.31	0.188	0.011	18-07-2019	6	51	22	27	-
27	DAMANAGANGA	79.86	71.05	0.502	0.155	18-07-2019	31	30	28	51	1
28	DANTIWADA	184.1	166.36	0.399	0.017	18-07-2019	4	16	6	45	-
29	PANAM	127.41	121.95	0.697	0.255	18-07-2019	37	38	41	36	2
*30	SARDAR SAROVAR	138.68	120.79	5.760	1.361	18-07-2019	24	1	11	2120	1450
31	KARJAN	115.25	99.85	0.523	0.177	18-07-2019	34	41	33	51	3

**WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA**

**WEEK ENDING :- 18.07.2019**

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	453.85	2.171	0.000	18-07-2019	0	21	8	227	-
*33	KOYANA	657.90	641.99	2.652	1.247	18-07-2019	47	80	49	-	1920
34	BHIMA(UJJANI)	496.83	488.46	1.517	0.000	17-07-2019	0	0	4	125	12
35	ISAPUR	441.00	426.17	0.965	0.005	18-07-2019	1	27	27	104	-
36	MULA	552.30	538.88	0.609	0.099	18-07-2019	16	31	19	139	-
37	YELDARI	461.77	446.09	0.809	0.000	18-07-2019	0	0	10	78	-
38	GIRNA	398.07	383.88	0.524	0.038	18-07-2019	7	12	9	79	-
39	KHADAKVASLA	582.47	582.05	0.056	0.050	18-07-2019	89	100	59	78	8
*40	UPPER VAITARNA	603.50	596.19	0.331	0.122	18-07-2019	37	76	45	-	61
41	UPPER TAPI	214.00	209.85	0.255	0.058	18-07-2019	23	18	28	45	-
*42	PENCH (TOTALADOH)	490.00	460.45	1.091	0.000	18-07-2019	0	15	29	127	160
43	UPPER WARDHA	342.50	334.40	0.564	0.065	18-07-2019	12	42	44	70	-
44	BHATSA	142.07	125.90	0.942	0.559	18-07-2019	59	73	51	29.378	15
45	DHOM	747.70	734.20	0.331	0.086	18-07-2019	26	55	35	36.2	2
46	DUDHGANGA	646.00	631.68	0.664	0.273	18-07-2019	41	83	50	2.441	24
47	MANIKDOH (KUKADI)	711.25	691.81	0.288	0.044	18-07-2019	15	32	16	2.2	6
48	BHANDARDARA	744.91	731.71	0.304	0.131	18-07-2019	43	77	39	63.74	46
<b>CENTRAL REGION</b>											
<b>UTTAR PRADESH</b>											
49	MATATILA	308.46	301.63	0.707	0.087	17-07-2019	12	10	39	-	30
*50	RIHAND	268.22	255.39	5.649	0.669	18-07-2019	12	10	14	-	300
<b>UTTRAKHAND</b>											
*51	RAMGANGA	365.30	337.50	2.196	0.614	17-07-2019	28	9	28	1897	198
*52	TEHRI	830.00	761.00	2.615	0.421	18-07-2019	16	22	26	2351	1000
<b>MADHYA PRADESH</b>											
*53	GANDHI SAGAR	399.90	384.51	6.827	0.590	18-07-2019	9	20	25	220	115
54	TAWA	355.40	339.15	1.944	0.224	18-07-2019	12	31	41	247	-
*55	BARGI	422.76	414.75	3.180	1.310	18-07-2019	41	53	31	157	90
*56	BANSAGAR	341.64	335.70	5.166	2.744	18-07-2019	53	43	38	488	425
*57	INDIRA SAGAR	262.13	251.88	9.745	2.738	18-07-2019	28	22	21	2380	1000
58	BARNA	348.55	338.56	0.456	0.010	18-07-2019	2	23	34	546	-
<b>CHHATTIS GARH</b>											
*59	MINIMATA BANGOI	359.66	351.18	3.046	1.599	18-07-2019	52	59	55	-	120
60	MAHANADI	348.70	340.30	0.767	0.168	17-07-2019	22	27	31	319	10
<b>SOUTHERN REGION</b>											
<b>A.P &amp; TG</b>											
*61	SRISAILAM	269.75	245.36	8.288	0.796	18-07-2019	10	9	10	0	770
*62	NAGARJUNA SAGAR	179.83	154.47	6.841	0.000	18-07-2019	0	1	13	895	810
<b>ANDHRA PRADESH</b>											
63	SOMASILA	100.58	76.99	1.994	0.068	18-07-2019	3	16	21	168	0
<b>TELANGANA</b>											
64	SRIRAMSAGAR	332.54	319.52	2.300	0.150	18-07-2019	7	16	21	411	27
65	LOWER MANAIR	280.42	268.61	0.621	0.095	18-07-2019	15	16	21	199	60

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**WEEK ENDING :- 18.07.2019**

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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	742.16	1.163	0.342	18-07-2019	29	100	43	79	-
*67	TUNGABHADRA	497.74	486.41	3.276	0.423	18-07-2019	13	78	37	529	72
68	GHATAPRABHA	662.95	650.81	1.391	0.636	18-07-2019	46	69	33	317	-
69	BHADRA	657.76	642.45	1.785	0.442	18-07-2019	25	93	50	106	39
70	LINGANAMAKKI	554.43	538.22	4.294	0.970	18-07-2019	23	59	34	-	55
71	NARAYANPUR	492.25	491.22	0.863	0.611	18-07-2019	71	69	48	425	-
72	MALAPRABHA(RENUKA)	633.83	626.36	0.972	0.268	18-07-2019	28	26	17	215	-
73	KABINI(Sancherla Tank)	696.16	691.63	0.444	0.210	18-07-2019	47	91	55	85	-
74	HEMAVATHY	890.63	880.11	0.927	0.322	18-07-2019	35	100	51	265	-
75	HARANGI	871.42	859.55	0.220	0.064	18-07-2019	29	93	74	53	-
76	SUPA	564.00	540.80	4.120	1.819	18-07-2019	44	57	32	-	-
77	VANIVILAS SAGAR	652.28	631.50	0.802	0.007	18-07-2019	1	1	11	123	-
*78	ALMATTI	519.60	518.50	3.105	2.629	18-07-2019	85	88	51	@	290
*79	GERUSOPPA	55.00	47.91	0.130	0.091	18-07-2019	70	83	80	83	240
<b><u>KERALA</u></b>											
80	KALLADA(PARAPPAR)	115.82	99.10	0.507	0.180	18-07-2019	36	88	46	62	-
*81	IDAMALAYAR	169.00	127.25	1.018	0.112	18-07-2019	11	71	38	33	75
*82	IDUKKI	732.43	702.11	1.460	0.183	18-07-2019	13	72	38	-	780
*83	KAKKI	981.46	931.99	0.447	0.038	18-07-2019	9	72	41	23	300
*84	PERIYAR	867.41	859.71	0.173	0.021	18-07-2019	12	79	43	84	140
85	MALAPMUZHA	115.06	103.88	0.224	0.042	18-07-2019	19	77	44	21	3
<b><u>TAMIL NADU</u></b>											
86	LOWER BHAWANI	278.89	266.39	0.792	0.196	18-07-2019	25	82	38	105	8
*87	METTUR(STANLEY)	240.79	216.48	2.647	0.346	18-07-2019	13	73	38	122	360
88	VAIGAI	279.20	266.01	0.172	0.008	18-07-2019	5	31	16	61	6
89	PARAMBIKULAM	556.26	538.35	0.380	0.054	18-07-2019	14	77	44	101	-
90	ALIYAR	320.04	299.47	0.095	0.000	18-07-2019	0	75	47	#	60
*91	SHOLAYAR	1002.79	961.85	0.143	0.000	18-07-2019	0	96	64	-	95
TOTAL FOR 91 RESERVOIRS				<b>161.993</b>	<b>39.319</b>						
PERCENTAGE							<b>24</b>	<b>32</b>	<b>28</b>		

Sd/-

Director

W. M. , CWC

\* 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.