

## **BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 18.04.2019)**

### **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 **18.04.2019**, live storage available in these reservoirs is **44.459 BCM**, which is **27%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **39.579 BCM** and the average of last 10 years live storage was **43.118 BCM**. Thus, the live storage available in 91 reservoirs **as per 18.04.2019 Bulletin** is **112%** of the live storage of corresponding period of last year and **103%** of storage of average of last ten years.

The overall storage position is **more than the** corresponding period of last year in the country as a whole and is also **more 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 **18.04.2019**, the total live storage available in these reservoirs is **8.96 BCM** which is **50%** 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 **27%** 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 **18.04.2019**, the total live storage available in these reservoirs is **6.94 BCM** which is **37%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **40%** and average storage of last ten years during corresponding period was **34%** 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 **18.04.2019**, the total live storage available in these reservoirs is **6.15 BCM** which is **20%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **26%** and average storage of last ten years during corresponding period was **30%** 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 **18.04.2019**, the total live storage available in these reservoirs is **12.99 BCM** which is **31%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **29%** and average storage of last ten years during corresponding period was **30%** 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 **18.04.2019**, the total live storage available in these reservoirs is **9.42 BCM** which is **18%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **16%** 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 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 Indus, Narmada and West Flowing Rivers of South Close to Normal in Ganga, Mahi, Godavari, Krishna and Mahanadi & Neighbouring East Flowing Rivers. Deficient in Tapi, Sabarmati and Rivers of Kutch and Cauvery & neighbouring EFRs and Nil in Highly Deficient.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **32** and reservoirs having storage more than average of last ten years are **36**. The numbers of reservoirs having storage less than 20% with respect to last year is **5** and having storage less than 20% with reference to average of last ten years is **10**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **18** and having storage less than or equal to 50% with reference to average of last ten years are **20**.

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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 18.04.2019**

- 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 **18.04.2019** is **44.459** BCM ( **27** percent of the live storage capacity at FRL ).The current year's storage is nearly **112** percent of last year's storage and **103** 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.)	-	-	-	1	-	1	1	3	H.P.	98 %
									PUNJAB	105 %
									RAJASTHAN	8 %
<b>EAST</b> (Jharkhand, Odisha, Tripura & W. Bengal ( 15 Resv.)	-	-	-	-	-	2	4	9	JHARKHAND	-11 %
									ODISHA	10 %
									W. BENGAL	25 %
									TRIPURA	118 %
<b>WEST</b> (Guj.& Mah.), (27 Resv.)	-	-	-	-	-	-	5	22	GUJARAT	-29 %
									MAH.	-39 %
<b>CENTRAL</b> (MP, UP, Uttarakhand & Chh.), (12 Resv)	-	-	-	-	1	1	2	8	U.P.	-34 %
									UTTARAKHAND	15 %
									M.P.	11 %
									CHHATISGARH	-3 %
<b>SOUTH</b> (Karnataka, TN, AP&TG, AP, TG, & Kerala), ( 31 Resv.)	-	-	-	1	-	1	1	28	AP&TG	-44 %
									A,P	-82 %
									TG	-29 %
									KARNATAKA	19 %
									KERALA	9 %
									T.N.	-10 %
Status of 91 reservoirs	0	0	0	2	1	5	13	70		

**4 Basin wise storage position:**

**Better than normal:** Indus, Narmada, and West Flowing Rivers of South.

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

**Deficient:** Tapi, Sabarmati, Rivers of Kutch and Cauvery & neighbouring EFRs .

**Highly deficient:**

- 5 Out of 91 reservoirs, **55** reservoirs reported more than 80% of normal storage & **36** reservoirs reported 80% or below of normal storage. Out of these **36** reservoirs **20** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
YELDARI	0	DAMANAGANGA	41
BHIMA(UJJANI)	0	UKAI	41
JAYAKWADI(PAITHON)	0	DHOM	47
SHOLAYAR	0		
GANDHI SAGAR	2		
BARNA	8		
PENCH (TOTALADOH)	8		
ALIYAR	8		
VANIVILAS SAGAR	14		
SOMASILA	18		
NAGARJUNA SAGAR	21		
MULA	28		
UPPER TAPI	32		
BHADAR	32		
BHANDARDARA	32		
TAWA	34		
TILAIYA	37		

16 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
4	8	4

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

**18** 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 :- 18.04.2019

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	7.464	26.57%	7.746	27.57%	8.127	28.93%	<b>-8.16</b>
INDUS	14.730	8.070	54.79%	2.442	16.58%	4.040	27.43%	<b>99.75</b>
NARMADA	21.608	6.429	29.75%	4.684	21.68%	4.878	22.57%	<b>31.80</b>
TAPI	7.394	1.120	15.15%	1.643	22.22%	2.590	35.03%	<b>-56.76</b>
MAHI	4.012	1.425	35.52%	1.629	40.60%	1.533	38.21%	<b>-7.05</b>
SABARMATI	0.735	0.092	12.52%	0.130	17.69%	0.145	19.73%	<b>-36.55</b>
RIVERS OF KUTCH	0.887	0.071	8.00%	0.205	23.11%	0.115	12.97%	<b>-38.26</b>
GODAVARI	15.394	3.126	20.31%	3.728	24.22%	3.855	25.04%	<b>-18.91</b>
KRISHNA	32.831	4.534	13.81%	4.750	14.47%	5.568	16.96%	<b>-18.57</b>
MAHANADI & NEIGHBOURING EFRS	13.181	5.382	40.83%	6.383	48.43%	5.497	41.70%	<b>-2.09</b>
CAUVERY & NEIGHBOURING EFRS	8.359	1.585	18.96%	1.172	14.02%	2.057	24.61%	<b>-22.95</b>
WEST FLOWING RIVERS OF SOUTH	14.766	5.161	34.95%	5.067	34.32%	4.713	31.92%	<b>9.51</b>
<b>TOTAL</b>	<b>161.993</b>	<b>44.459</b>		<b>39.579</b>		<b>43.118</b>		
<b>PERCENTAGE</b>								<b>3.11</b>

## WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 18.04.2019

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	494.26	6.229	3.404	18-04-2019	55	19	26	676	1200
*2	PONG DAM	423.67	409.15	6.157	2.866	18-04-2019	47	13	25	-	360
<b><u>PUNJAB</u></b>											
*3	THEIN	527.91	521.18	2.344	1.800	18-04-2019	77	21	37	348	600
<b><u>RAJASTHAN</u></b>											
*4	MAHI BAJAJ SAGAR	280.75	268.30	1.711	0.469	18-04-2019	27	35	26	63	140
5	JHAKAM	359.50	345.60	0.132	0.033	18-04-2019	25	30	20	28	-
*6	RANA PRATAP SAGAR	352.81	346.67	1.436	0.391	18-04-2019	27	37	25	229	172
<b><u>EASTERN REGION</u></b>											
<b><u>JHARKHAND</u></b>											
7	TENUGHAT	269.14	257.72	0.821	0.333	18-04-2019	41	43	36	-	-
8	MAITHON	146.3	138.48	0.471	0.110	18-04-2019	23	69	44	342	-
*9	PANCHET HILL	124.97	123.32	0.184	0.110	18-04-2019	60	30	50	\$	80
10	KONAR	425.81	418.89	0.176	0.068	18-04-2019	39	28	47	\$	-
11	TILAIYA	368.81	364.00	0.142	0.010	18-04-2019	7	12	19	\$	4
<b><u>ODISHA</u></b>											
*12	HIRAKUD	192.02	187.24	5.378	2.192	16-04-2019	41	40	38	153	307
*13	BALIMELA	462.08	451.90	2.676	1.167	17-04-2019	44	14	24	-	360
14	SALANADI	82.30	73.35	0.558	0.294	18-04-2019	53	41	24	42	-
*15	RENGALI	123.50	114.72	3.432	0.908	17-04-2019	26	56	38	3	200
*16	MACHKUND(JALPUT)	838.16	831.42	0.893	0.413	17-04-2019	46	51	44	-	115
*17	UPPER KOLAB	858.00	850.49	0.935	0.314	17-04-2019	34	31	30	89	320
*18	UPPER INDRAVATI	642.00	632.02	1.456	0.501	17-04-2019	34	40	35	128	600
<b><u>WEST BENGAL</u></b>											
19	MAYURAKSHI	121.31	110.22	0.480	0.084	18-04-2019	18	43	25	227	-
20	KANGSABATI	134.14	126.08	0.914	0.326	18-04-2019	36	46	23	341	-
<b><u>TRIPURA</u></b>											
21	GUMTI	93.55	88.55	0.312	0.109	17-04-2019	35	54	16	-	15
<b><u>WESTERN REGION</u></b>											
<b><u>GUJARAT</u></b>											
*22	UKAI	105.16	89.58	6.615	0.985	18-04-2019	15	22	36	348	300
23	SABARMATI(DHAROI)	189.59	179.90	0.735	0.092	18-04-2019	13	18	20	95	1
*24	KADANA	127.7	121.36	1.472	0.625	18-04-2019	42	47	53	200	120
25	SHETRUNJI	55.53	48.87	0.300	0.034	18-04-2019	11	16	17	36	-
26	BHADAR	107.89	100.55	0.188	0.012	18-04-2019	6	22	20	27	-
27	DAMANAGANGA	79.86	67.80	0.502	0.081	18-04-2019	16	41	40	51	1
28	DANTIWADA	184.1	167.52	0.399	0.025	18-04-2019	6	29	6	45	-
29	PANAM	127.41	122.95	0.697	0.298	18-04-2019	43	43	41	36	2
*30	SARDAR SAROVAR	138.68	119.20	5.760	1.104	18-04-2019	19	0	13	2120	1450
31	KARJAN	115.25	103.80	0.523	0.244	18-04-2019	47	54	48	51	3

## WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 18.04.2019

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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>MAHARASHTRA</b>											
32	JAYAKWADI(PAITHON)	463.91	455.14	2.171	0.000	18-04-2019	0	46	19	227	-
*33	KOYANA	657.90	643.00	2.652	1.330	18-04-2019	50	56	46	-	1920
34	BHIMA(UJJANI)	496.83	488.57	1.517	0.000	11-04-2019	0	31	23	125	12
35	ISAPUR	441.00	429.94	0.965	0.174	18-04-2019	18	0	26	104	-
36	MULA	552.30	536.72	0.609	0.051	18-04-2019	8	35	30	139	-
37	YELDARI	461.77	445.96	0.809	0.000	18-04-2019	0	0	14	78	-
38	GIRNA	398.07	386.57	0.524	0.099	17-04-2019	19	18	17	79	-
39	KHADAKVASLA	582.47	580.16	0.056	0.027	18-04-2019	48	82	54	78	8
*40	UPPER VAITARNA	603.50	596.55	0.331	0.130	18-04-2019	39	34	46	-	61
41	UPPER TAPI	214.00	209.08	0.255	0.036	16-04-2019	14	30	45	45	-
*42	PENCH (TOTALADOH)	490.00	465.74	1.091	0.022	18-04-2019	2	12	26	127	160
43	UPPER WARDHA	342.50	335.49	0.564	0.108	16-04-2019	19	42	36	70	-
44	BHATSA	142.07	115.91	0.942	0.380	18-04-2019	40	48	46	29.378	15
45	DHOM	747.70	731.22	0.331	0.051	18-04-2019	15	35	33	36.2	2
46	DUDHGANGA	646.00	627.14	0.664	0.185	18-04-2019	28	43	38	2.441	24
47	MANIKDOH (KUKADI)	711.25	686.95	0.288	0.016	18-04-2019	6	21	9	2.2	6
48	BHANDARDARA	744.91	715.43	0.304	0.037	18-04-2019	12	50	38	63.74	46
<b>CENTRAL REGION</b>											
<b>UTTAR PRADESH</b>											
49	MATATILA	308.46	303.34	0.707	0.182	10-04-2019	26	25	42	-	30
*50	RIHAND	268.22	256.00	5.649	0.847	18-04-2019	15	18	22	-	300
<b>UTTRAKHAND</b>											
*51	RAMGANGA	365.30	344.40	2.196	0.898	15-04-2019	41	23	37	1897	198
*52	TEHRI	830.00	766.73	2.615	0.553	18-04-2019	21	12	17	2351	1000
<b>MADHYA PRADESH</b>											
*53	GANDHI SAGAR	399.90	381.26	6.827	0.035	18-04-2019	1	18	25	220	115
54	TAWA	355.40	337.69	1.944	0.150	18-04-2019	8	9	23	247	-
*55	BARGI	422.76	415.05	3.180	1.360	18-04-2019	43	59	37	157	90
*56	BANSAGAR	341.64	337.56	5.166	3.408	18-04-2019	66	46	41	488	425
*57	INDIRA SAGAR	262.13	253.73	9.745	3.565	18-04-2019	37	24	22	2380	1000
58	BARNA	348.55	338.28	0.456	0.006	18-04-2019	1	9	17	546	-
<b>CHHATTIS GARH</b>											
*59	MINIMATA BANGOI	359.66	351.87	3.046	1.689	18-04-2019	55	57	56	-	120
60	MAHANADI	348.70	342.66	0.767	0.299	10-04-2019	39	47	45	319	10
<b>SOUTHERN REGION</b>											
<b>A.P &amp; TG</b>											
*61	SRISAILAM	269.75	246.46	8.288	0.851	18-04-2019	10	9	11	0	770
*62	NAGARJUNA SAGAR	179.83	156.67	6.841	0.195	18-04-2019	3	2	14	895	810
<b>ANDHRA PRADESH</b>											
63	SOMASILA	100.58	79.70	1.994	0.130	18-04-2019	7	19	36	168	0
<b>TELANGANA</b>											
64	SRIRAMSAGAR	332.54	320.80	2.300	0.214	18-04-2019	9	9	14	411	27
65	LOWER MANAIR	280.42	269.81	0.621	0.125	18-04-2019	20	18	25	199	60

## WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 18.04.2019

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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	742.61	1.163	0.368	16-04-2019	32	10	20	79	-
*67	TUNGABHADRA	497.74	481.57	3.276	0.117	18-04-2019	4	4	6	529	72
68	GHATAPRABHA	662.95	641.71	1.391	0.236	16-04-2019	17	23	12	317	-
69	BHADRA	657.76	644.69	1.785	0.583	16-04-2019	33	17	35	106	39
70	LINGANAMAKKI	554.43	540.53	4.294	1.257	16-04-2019	29	23	27	-	55
71	NARAYANPUR	492.25	487.08	0.863	0.213	18-04-2019	25	27	29	425	-
72	MALAPRABHA(RENUKA)	633.83	621.93	0.972	0.069	16-04-2019	7	7	8	215	-
73	KABINI(Sancherla Tank)	696.16	689.77	0.444	0.132	16-04-2019	30	16	13	85	-
74	HEMAVATHY	890.63	873.63	0.927	0.113	16-04-2019	12	12	11	265	-
75	HARANGI	871.42	854.71	0.220	0.030	16-04-2019	14	17	14	53	-
76	SUPA	564.00	539.53	4.120	1.727	16-04-2019	42	39	31	-	-
77	VANIVILAS SAGAR	652.28	632.06	0.802	0.014	16-04-2019	2	1	13	123	-
*78	ALMATTI	519.60	511.00	3.105	0.647	18-04-2019	21	11	9	@	290
*79	GERUSOPPA	55.00	50.48	0.130	0.104	15-04-2019	80	90	86	83	240
<b><u>KERALA</u></b>											
80	KALLADA(PARAPPAR)	115.82	105.22	0.507	0.267	16-04-2019	53	74	39	62	-
*81	IDAMALAYAR	169.00	137.94	1.018	0.270	16-04-2019	27	31	30	33	75
*82	IDUKKI	732.43	713.89	1.460	0.573	16-04-2019	39	37	32	-	780
*83	KAKKI	981.46	958.99	0.447	0.174	16-04-2019	39	52	41	23	300
*84	PERIYAR	867.41	859.74	0.173	0.021	16-04-2019	12	18	17	84	140
85	MALAPMUZHA	115.06	101.76	0.224	0.026	18-04-2019	12	14	20	21	3
<b><u>TAMIL NADU</u></b>											
86	LOWER BHAWANI	278.89	265.73	0.792	0.177	16-04-2019	22	21	20	105	8
*87	METTUR(STANLEY)	240.79	221.09	2.647	0.604	16-04-2019	23	11	28	122	360
88	VAIGAI	279.20	270.27	0.172	0.031	16-04-2019	18	9	15	61	6
89	PARAMBIKULAM	556.26	544.21	0.380	0.148	16-04-2019	39	7	28	101	-
90	ALIYAR	320.04	301.78	0.095	0.003	16-04-2019	3	0	39	#	60
*91	SHOLAYAR	1002.79	955.25	0.143	0.000	16-04-2019	0	0	3	-	95
TOTAL FOR 91 RESERVOIRS				<b>161.993</b>	<b>44.459</b>						
PERCENTAGE							<b>27</b>	<b>24</b>	<b>27</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 &amp; ALIYAR

@\* TOTAL CCA 425 TH. HA. OF NARAYANPUR AND ALMATTI

† SABARMATI RESERVOIR IS SUPPLEMENTED WITH NARMADA WATER THROUGH PIPELINE.