

## **BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 10.05.2018)**

### **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 **10.05.2018**, live storage available in these reservoirs is **33.186 BCM**, which is **20%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **37.923 BCM** and the average of last 10 years live storage was **35.975 BCM**. Thus, the live storage available in 91 reservoirs **as per 10.05.2018 Bulletin** is **88%** of the live storage of corresponding period of last year and **92%** 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 **10.05.2018**, the total live storage available in these reservoirs is **3.19 BCM** which is **18%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **24%** 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 **10.05.2018**, the total live storage available in these reservoirs is **5.85 BCM** which is **31%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **37%** 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 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 **10.05.2018**, the total live storage available in these reservoirs is **6.36 BCM** which is **20%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **25%** 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 **10.05.2018**, the total live storage available in these reservoirs is **10.94 BCM** which is **26%** 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 **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 **10.05.2018**, the total live storage available in these reservoirs is **6.85 BCM** which is **13%** 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 **18%** 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 Ganga, Mahi, Narmada, Mahanadi & Neighbouring East Flowing Rivers, Rivers of Kutch and West Flowing Rivers of South. Close to Normal in 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 **49** and reservoirs having storage more than average of last ten years are **43**. 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 **9**. 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 **21**.

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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 10.05.2018

- 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 **10.05.2018** is **33.186** BCM ( **20** percent of the live storage capacity at FRL ).The current year's storage is nearly **88** percent of last year's storage and **92** 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.	-48 %	
									PUNJAB	-37 %	
									RAJASTHAN	18 %	
<b>EAST</b> (Jharkhand,Odisha, Tripura & W.Bengal ( 15 Resv.)	-	-	-	-	-	1	3	11	JHARKHAND	3 %	
									ODISHA	19 %	
									W. BENGAL	158 %	
									TRIPURA	273 %	
<b>WEST</b> (Guj.& Mah.), (27 Resv.)	-	-	1	-	-	-	3	23	GUJARAT	-38 %	
									MAH.	10 %	
<b>CENTRAL</b> (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	-	2	1	9	U.P.	-22 %	
									UTTARAKHAND	-39 %	
									M.P.	31 %	
									CHHATISGARH	12 %	
<b>SOUTH</b> (Karnataka,TN,AP&TG,AP, TG, & Kerala), ( 31 Resv.)	1	-	1	-	1	-	-	28	AP&TG	-60 %	
									A,P	-52 %	
									TG	-26 %	
									KARNATAKA	-7 %	
									KERALA	46 %	
									T.N.	-65 %	
Status of 91 reservoirs	1	0	2	0	1	3	7	77			

## 4 Basin wise storage position:

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

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

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

**Highly deficient:** NIL

- Out of 91 reservoirs, **56** reservoirs reported more than 80% of normal storage & **35** reservoirs reported 80% or below of normal storage. Out of these **35** reservoirs **21** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0	TILAIYA	46
SARDAR SAROVAR	0	PONG DAM	48
ALIYAR	0	SOMASILA	48
YELDARI	0	BALIMELA	48
ISAPUR	0		
VANIVILAS SAGAR	7		
NAGARJUNA SAGAR	12		
PARAMBIKULAM	18		
BHADRA	20		
UPPER TAPI	25		
METTUR(STANLEY)	31		
MATATILA	33		
TUNGABHADRA	35		
KRISHNARAJA SAGRA	39		
VAIGAI	40		
TAWA	43		
PENCH (TOTALADOH)	45		

14 reservoirs having storage 51% to 80% of normal storage.		
51% to 60%	61% to 70%	71% to 80%
5	4	5

- 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 :- 10.05.2018

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	6.864	24.43%	9.838	35.02%	6.393	22.75%	7.37
INDUS	14.730	2.095	14.22%	3.336	22.65%	3.828	25.99%	-45.27
NARMADA	21.608	4.323	20.01%	5.432	25.14%	3.984	18.44%	8.51
TAPI	7.394	1.282	17.34%	2.825	38.21%	2.189	29.61%	-41.43
MAHI	4.012	1.528	38.09%	1.638	40.83%	1.442	35.94%	5.96
SABARMATI	0.735	0.116	15.78%	0.183	24.90%	0.140	19.05%	-17.14
RIVERS OF KUTCH	0.887	0.162	18.26%	0.054	6.09%	0.074	8.34%	118.92
GODAVARI	15.394	2.868	18.63%	3.652	23.72%	3.167	20.57%	-9.44
KRISHNA	32.831	3.352	10.21%	1.517	4.62%	4.896	14.91%	-31.54
MAHANADI & NEIGHBOURING EFRS	13.181	5.159	39.14%	5.732	43.49%	3.943	29.91%	30.84
CAUVERY& NEIGHBOURING EFRS	8.359	1.050	12.56%	0.597	7.14%	2.232	26.70%	-52.96
WEST FLOWING RIVERS OF SOUTH	14.766	4.387	29.71%	3.119	21.12%	3.687	24.97%	18.99
<b>TOTAL</b>	<b>161.993</b>	<b>33.186</b>		<b>37.923</b>		<b>35.975</b>		
<b>PERCENTAGE</b>								<b>-7.75</b>

## WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 10.05.2018

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	463.69	6.229	0.782	10-05-2018	13	16	22	676	1200
*2	PONG DAM	423.67	393.50	6.157	0.704	10-05-2018	11	15	24	-	360
<b><u>PUNJAB</u></b>											
*3	THEIN	527.91	499.66	2.344	0.609	10-05-2018	26	60	42	348	600
<b><u>RAJASTHAN</u></b>											
*4	MAHI BAJAJ SAGAR	280.75	269.65	1.711	0.567	10-05-2018	33	33	24	63	140
5	JHAKAM	359.50	346.90	0.132	0.039	10-05-2018	30	28	17	28	-
*6	RANA PRATAP SAGAR	352.81	347.38	1.436	0.493	10-05-2018	34	27	35	229	172
<b><u>EASTERN REGION</u></b>											
<b><u>JHARKHAND</u></b>											
7	TENUGHAT	269.14	257.69	0.821	0.332	10-05-2018	40	44	33	-	-
8	MAITHON	146.3	140.28	0.471	0.169	10-05-2018	36	35	30	342	-
*9	PANCHET HILL	124.97	121.31	0.184	0.043	10-05-2018	23	54	38	\$	80
10	KONAR	425.81	416.30	0.176	0.040	10-05-2018	23	23	39	\$	-
11	TILAIYA	368.81	364.13	0.142	0.012	10-05-2018	8	27	18	\$	4
<b><u>ODISHA</u></b>											
*12	HIRAKUD	192.02	185.86	5.378	1.643	10-05-2018	31	31	27	153	307
*13	BALIMELA	462.08	442.51	2.676	0.262	10-05-2018	10	35	20	-	360
14	SALANADI	82.30	70.64	0.558	0.230	10-05-2018	41	29	25	42	-
*15	RENGALI	123.50	117.04	3.432	1.444	10-05-2018	42	57	21	3	200
*16	MACHKUND(JALPUT)	838.16	829.24	0.893	0.308	10-05-2018	34	23	40	-	115
*17	UPPER KOLAB	858.00	849.00	0.935	0.228	10-05-2018	24	37	20	89	320
*18	UPPER INDRAVATI	642.00	630.50	1.456	0.376	10-05-2018	26	33	27	128	600
<b><u>WEST BENGAL</u></b>											
19	MAYURAKSHI	121.31	113.89	0.480	0.172	10-05-2018	36	22	17	227	-
20	KANGSABATI	134.14	127.86	0.914	0.422	10-05-2018	46	31	16	341	-
<b><u>TRIPURA</u></b>											
21	GUMTI	93.55	90.25	0.312	0.168	08-05-2018	54	42	14	-	15
<b><u>WESTERN REGION</u></b>											
<b><u>GUJARAT</u></b>											
*22	UKAI	105.16	90.60	6.615	1.173	09-05-2018	18	40	31	348	300
23	SABARMATI(DHAROI)	189.59	180.62	0.735	0.116	10-05-2018	16	25	19	95	1
*24	KADANA	127.7	121.87	1.472	0.663	10-05-2018	45	55	50	200	120
25	SHETRUNJI	55.53	49.67	0.300	0.045	10-05-2018	15	16	11	36	-
26	BHADAR	107.89	102.47	0.188	0.035	10-05-2018	19	2	18	27	-
27	DAMANAGANGA	79.86	71.00	0.502	0.154	09-05-2018	31	20	30	51	1
28	DANTIWADA	184.1	172.53	0.399	0.082	10-05-2018	21	1	2	45	-
29	PANAM	127.41	122.05	0.697	0.259	10-05-2018	37	33	40	36	2
*30	SARDAR SAROVAR	138.68	104.46	5.760	0.000	09-05-2018	0	17	15	2120	1450
31	KARJAN	115.25	104.10	0.523	0.242	09-05-2018	46	33	42	51	3

## WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 10.05.2018

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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>MAHARASHTRA</b>											
32	JAYAKWADI(PAITHON)	463.91	459.58	2.171	0.790	09-05-2018	36	26	15	227	-
*33	KOYANA	657.90	638.81	2.652	1.020	09-05-2018	38	16	33	-	1920
34	BHIMA(UJJANI)	496.83	492.04	1.517	0.208	10-05-2018	14	0	8	125	12
35	ISAPUR	441.00	425.05	0.965	0.000	09-05-2018	0	12	25	104	-
36	MULA	552.30	541.29	0.609	0.162	09-05-2018	27	19	20	139	-
37	YELDARI	461.77	447.38	0.809	0.000	09-05-2018	0	1	10	78	-
38	GIRNA	398.07	386.06	0.524	0.087	09-05-2018	17	25	15	79	-
39	KHADAKVASLA	582.47	581.80	0.056	0.047	09-05-2018	84	43	43	78	8
*40	UPPER VAITARNA	603.50	595.05	0.331	0.093	09-05-2018	28	37	37	-	61
41	UPPER TAPI	214.00	208.56	0.255	0.022	09-05-2018	9	26	34	45	-
*42	PENCH (TOTALADOH)	490.00	470.90	1.091	0.115	09-05-2018	11	9	24	127	160
43	UPPER WARDHA	342.50	337.69	0.564	0.216	10-05-2018	38	39	33	70	-
44	BHATSA	142.07	116.41	0.942	0.388	09-05-2018	41	43	38	29.378	15
45	DHOM	747.70	734.99	0.331	0.097	09-05-2018	29	25	27	36.2	2
46	DUDHGANGA	646.00	628.27	0.664	0.205	09-05-2018	31	26	30	2.441	24
47	MANIKDOH (KUKADI)	711.25	689.07	0.288	0.026	09-05-2018	9	3	3	2.2	6
48	BHANDARDARA	744.91	729.42	0.304	0.111	09-05-2018	37	30	27	63.74	46
<b>CENTRAL REGION</b>											
<b>UTTAR PRADESH</b>											
49	MATATILA	308.46	301.75	0.707	0.093	09-05-2018	13	15	40	-	30
*50	RIHAND	268.22	256.06	5.649	0.865	10-05-2018	15	37	17	-	300
<b>UTTRAKHAND</b>											
*51	RAMGANGA	365.30	331.86	2.196	0.407	10-05-2018	19	3	31	1897	198
*52	TEHRI	830.00	747.95	2.615	0.144	10-05-2018	6	6	8	2351	1000
<b>MADHYA PRADESH</b>											
*53	GANDHI SAGAR	399.90	387.15	6.827	1.188	09-05-2018	17	57	20	220	115
54	TAWA	355.40	338.27	1.944	0.179	10-05-2018	9	23	21	247	-
*55	BARGI	422.76	416.60	3.180	1.660	10-05-2018	52	32	25	157	90
*56	BANSAGAR	341.64	334.35	5.166	2.316	09-05-2018	45	37	30	488	425
*57	INDIRA SAGAR	262.13	250.16	9.745	2.207	09-05-2018	23	28	17	2380	1000
58	BARNA	348.55	339.58	0.456	0.035	09-05-2018	8	29	15	546	-
<b>CHHATTIS GARH</b>											
*59	MINIMATA BANGOI	359.66	351.36	3.046	1.622	07-05-2018	53	60	47	-	120
60	MAHANADI	348.70	341.38	0.767	0.220	09-05-2018	29	20	29	319	10
<b>SOUTHERN REGION</b>											
<b>A.P. &amp; TG</b>											
*61	SRISAILAM	269.75	243.81	8.288	0.723	10-05-2018	9	6	12	0	770
*62	NAGARJUNA SAGAR	179.83	156.30	6.841	0.136	10-05-2018	2	0	16	895	810
<b>ANDHRA PRADESH</b>											
63	SOMASILA	100.58	85.23	1.994	0.364	10-05-2018	18	12	38	168	0
<b>TELANGANA</b>											
64	SRIRAMSAGAR	332.54	320.38	2.300	0.193	10-05-2018	8	12	11	411	27
65	LOWER MANAIR	280.42	269.11	0.621	0.107	10-05-2018	17	36	24	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 10.05.2018

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>KARNATAKA</b>											
66	KRISHNARAJA SAGRA	752.50	736.15	1.163	0.085	09-05-2018	7	7	19	79	-
*67	TUNGABHADRA	497.74	480.38	3.276	0.076	10-05-2018	2	1	7	529	72
68	GHATAPRABHA	662.95	636.85	1.391	0.130	09-05-2018	9	4	6	317	-
69	BHADRA	657.76	635.01	1.785	0.100	09-05-2018	6	4	28	106	39
70	LINGANAMAKKI	554.43	536.20	4.294	0.760	10-05-2018	18	11	21	-	55
71	NARAYANPUR	492.25	487.00	0.863	0.208	10-05-2018	24	14	29	425	-
72	MALAPRABHA(RENUKA)	633.83	621.71	0.972	0.062	09-05-2018	6	3	7	215	-
73	KABINI(Sancherla Tank)	696.16	687.23	0.444	0.046	09-05-2018	10	0	8	85	-
74	HEMAVATHY	890.63	872.59	0.927	0.091	09-05-2018	10	4	9	265	-
75	HARANGI	871.42	856.23	0.220	0.039	09-05-2018	18	15	15	53	-
76	SUPA	564.00	535.50	4.120	1.444	10-05-2018	35	30	22	-	-
77	VANIVILAS SAGAR	652.28	631.50	0.802	0.007	10-05-2018	1	2	12	123	-
*78	ALMATTI	519.60	508.44	3.105	0.307	10-05-2018	10	0	7	@	290
*79	GERUSOPPA	55.00	52.00	0.130	0.113	10-05-2018	87	75	85	83	240
<b>KERALA</b>											
80	KALLADA(PARAPPAR)	115.82	108.50	0.507	0.333	08-05-2018	66	14	28	62	-
*81	IDAMALAYAR	169.00	134.88	1.018	0.218	09-05-2018	21	23	23	33	75
*82	IDUKKI	732.43	709.90	1.460	0.430	08-05-2018	29	15	25	-	780
*83	KAKKI	981.46	958.85	0.447	0.173	08-05-2018	39	19	30	23	300
*84	PERIYAR	867.41	859.82	0.173	0.037	08-05-2018	21	5	27	84	140
85	MALAPMUZHA	115.06	102.70	0.224	0.224	10-05-2018	100	9	20	21	3
<b>TAMIL NADU</b>											
86	LOWER BHAWANI	278.89	264.06	0.792	0.135	09-05-2018	17	8	23	105	8
*87	METTUR(STANLEY)	240.79	214.90	2.647	0.274	09-05-2018	10	5	33	122	360
88	VAIGAI	279.20	267.90	0.172	0.016	08-05-2018	9	3	23	61	6
89	PARAMBIKULAM	556.26	535.96	0.380	0.020	09-05-2018	5	5	29	101	-
90	ALIYAR	320.04	300.87	0.095	0.000	09-05-2018	0	28	51	#	60
*91	SHOLAYAR	1002.79	957.25	0.143	0.000	09-05-2018	0	0	4	-	95
TOTAL FOR 91 RESERVOIRS				161.993	33.186						
PERCENTAGE							20	23	22		

\* 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