ANNEXURE 1

Information about Major, Medium and Minor Irrigation Projects in Upper Godavari (up to Paithan dam) Sub Basin

(N. A. - Not Applicable, N. S. - No Silt Survey done, All figures in Mm^3)

Sr. No.	Name of System	Total Catchment area of system (Sqkm)	Design Storage (Mcum) [As per DPR] & subsequent approval by Govt.				Design Water Use	Revised Storage (excluding Silt as per Survey)		Estimated Annual Evaporation Losses	Type of Overflow Section (Gated/ Ungated)	Live Storage against Spillway Gates	Live Storage below Crest of Spilway	Spillway Design Discharge (Cumecs)	Canal Outlet Design Discharge (Cumecs)		River Sluice Design Discharge (Cumecs)	Power Outlet Design Discharge (Cumecs)
			Dead	Live	Carry Over	Gross		Dead	Live						L.B.C.	R.B.C.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
A	**Mula System**																	
1	**Mandohal**	142	2.52	8.78	0.00	11.30	13.15	2.52	5.68	1.43	Ungated	0.00	5.68	1420	0.00	1.16	-	-
2	**Mula**	2276	127.35	608.45	28.32	735.80	704.61	127.35	546.55	76.45	Gated	303.67	243.24	5946	7.59	46.72	N. A.	N. A.
	U.S.Mula																	
3	**M.I.& KTW.(State) (38 Nos.)**	-	9.11	82.96	0.00	92.07	91.79	N. S.	N. S.	12.44	Ungated	N. A.	82.96	-	-	-	-	-
4	**MI,KT,PT,ST ...(Local Sector - 97)**	-	0.00	25.79	0.00	25.79	25.79	N. S.	N. S.	5.16	Ungated	-	25.79	-	-	-	-	-
	Total of A		**138.98**	**725.98**	**28.32**	**864.96**	**835.34**	**129.87**	**552.23**	**95.48**		**303.67**	**357.67**					
B	**Pravara System**																	
1	**Bhandardara**	120	8.50	304.10	0.00	312.60	33.97	8.50	307.61	13.02	Gated	131.47	176.14	1171	0.00	0.00	58.62	35.39
2	**Nilwande**	202	7.25	228.75	0.00	236.00	326.06	7.25	228.75	12.60	Gated	50.74	178.01	3700	41.05	14.38	50.00	LLPO .-50 ICPO.-50
3	**Adhala**	177	2.42	27.61	0.00	30.03	38.73	2.42	21.97	3.12	Ungated	N. A.	21.97	1582	1.19	1.92	N. A.	N. A.
4	**Bhojapur + Flood Canals**	154	3.04	10.22	0.00	13.26	20.30	3.04	9.86	1.35	Ungated	N. A.	9.86	1489	6.08	0.00	N. A.	N. A.
5	**Ozar weir (Pravara Canal)**	1610				0.00	421.90	N. S.	N. S.	0.00	Ungated	N. A.	0.00	2837	30.02	9.71	N. A.	N. A.
	U.S.Ozer Weir																	
6	**M.I.(State) 5 Nos**		2.15	17.21	0.00	19.36	16.90	N. S.	N. S.	2.58	Ungated	N. A.	17.21	0	N. A.	N. A.	N. A.	N. A.
7	**MI,KT,PT,ST ...(Local Sector - 27)**	-	0.00	6.84	0.00	6.84	6.84	N. S.	N. S.	1.37	Ungated	N. A.	6.84	0	N. A.	N. A.	N. A.	N. A.
	Total of B		**23.36**	**594.73**	**0.00**	**618.09**	**864.70**	**21.21**	**568.19**	**34.04**		**182.21**	**410.03**					
C	**Gangapur System**																	
1	**Gauatami**	41	0.32	52.90	0.00	53.22	0.00	0.32	46.13	NA	Gated	9.30	36.83	1808	N. A.	N. A.	N. A.	4.19
2	**Kashyapi**	46	0.26	51.75	0.00	52.01	33.98	0.26	59.06	NA	Gated	15.88	43.18	798	N. A.	N. A.	N. A.	4.17
3	**Gangapur**	357	12.00	203.88	11.60	215.88	231.82	0.68	159.42	17.81	Gated	80.88	78.54	2294	8.92	3.68	N. A.	N. A.
	U.S.Gangapur																	
5	**M.I.(State) (5 Nos.)**		1.62	15.33	0.00	16.95	16.40			2.30	0.00		15.33	0	N. A.	N. A.	N. A.	N. A.
6	**MI,KT,PT,ST...(Local Sector -19)**	-	0.00	11.61	0.00	11.61	11.61	N. S.	N. S.	2.32	Ungated	N. A.	5.16	0	N. A.	N. A.	N. A.	N. A.
	Total of C		**14.20**	**335.47**	**11.60**	**349.67**	**293.81**	**1.26**	**264.61**	**22.43**		**106.06**	**179.04**					

ANNEXURE 1

Information about Major, Medium and Minor Irrigation Projects in Upper Godavari (up to Paithan dam) Sub Basin

(N. A. - Not Applicable, N. S. - No Silt Survey done, All figures in Mm^3)

Sr. No.	Name of System	Total Catchment area of system (Sqkm)	Design Storage (Mcum) [As per DPR] & subsequent approval by Govt.				Design Water Use	Revised Storage (excluding Silt as per Survey)		Estimated Annual Evaporation Losses	Type of Overflow Section (Gated/ Ungated)	Live Storage against Spillway Gates	Live Storage below Crest of Spilway	Spillway Design Discharge (Cumecs)	Canal Outlet Design Discharge (Cumecs)		River Sluice Design Discharge (Cumecs)	Power Outlet Design Discharge (Cumecs)
			Dead	Live	Carry Over	Gross		Dead	Live						L.B.C.	R.B.C.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
D	**Palkhed System**	806																
1	**Karanjwan**	248	9.34	166.22	0.00	175.56	24.92	9.34	152.00	16.99	Gated	72.87	79.13	2724	1.02	N. A.	24.69	12.63
2	**Waghad**	119	4.25	72.23	0.00	76.48	46.29	2.55	64.95	7.08	Ungated	N. A.	64.95	1350	1.42	13.50	N. A.	N. A.
3	**Punegaon**	66	2.82	17.57	0.00	20.39	21.22	2.82	16.64	2.24	Gated	12.54	4.10	937	6.27	0.00	N. A.	N. A.
4	**Ozarkhed (including C.A. of Punegaon)**	182	7.64	60.32	0.00	67.96	79.59	7.64	56.69	8.27	Ungated	N. A.	56.69	2400	12.01	0.00	N. A.	N. A.
	Daraswadi (Water from Punegaon)						10.13										N. A.	N. A.
5	**Palkhed**	257	1.77	21.24	0.00	23.01	283.06	1.35	18.49	8.10	Gated	15.75	2.74	4592	25.94	1.47	N. A.	N. A.
6	**Tisgaon**	97	2.70	12.87	0.00	15.57	3.20	2.70	10.78	3.20	Ungated	N. A.	10.78	1804	0.00	6.11	N. A.	N. A.
	U.S.of Palkhed																	
7	**M.I.(State) (9 Nos.)**		0.67	20.77	0.00	21.44	20.77	N. S.	N. S.	4.00	Ungated	N. A.	25.89	N. A.	N. A.	N. A.	N. A.	N. A.
8	**MI,KT,PT,ST...(Local Sector -59)**	-	0.00	15.90	0.00	15.90	15.90	N. S.	N. S.	3.18	Ungated	N. A.	15.90	N. A.	N. A.	N. A.	N. A.	N. A.
	Total of D		**29.19**	**387.12**	**0.00**	**416.31**	**505.08**	**26.40**	**319.55**	**53.06**		**101.16**	**260.18**					
E	**Darna System**																	
1	**Alandi**	75	2.06	27.47	0.00	29.53	40.67	2.06	23.85	2.85	Ungated	N. A.	23.10	1005	5.38	1.00	N. A.	N. A.
2	**Kadwa**	173	6.68	52.90	0.00	59.58	80.70	6.68	50.59	10.28	Gated	34.77	15.82	2821	N. A.	11.39	N. A.	11.39
3	**Bham**	51	5.66	69.76	0.00	75.42	10.18	5.66	69.76	6.62	Ungated	0.00	69.76	990	N. A.	N. A.	N. A.	7.56
4	**Bhavali**	26	3.96	40.79	0.00	44.75	17.06	3.96	40.79	4.30	Ungated	0.00	40.79	662	N. A.	N. A.	N. A.	8.35
5	**Waki**	32	5.23	70.57	0.00	75.80	18.16	5.23	70.57	5.91	Gated	23.71	46.86	763	N. A.	N. A.	N. A.	7.56
6	**Darna**	404	7.05	219.82	0.00	226.87	56.91	0.00	188.66	47.16	Gated	96.97	91.69	3335	N. A.	N. A.	N. A.	31.15
7	**Mukane**	130	9.18	204.98	0.00	214.16	105.00	9.18	198.39	24.72	Gated	92.42	105.97	866	N. A.	N. A.	N. A.	17.00
8	**Waldevi**	52	1.92	32.09	0.00	34.01	25.76	1.92	32.09	5.00	Ungated	N. A.	32.06	809	N. A.	N. A.	N. A.	7.93
9	**N.M.Weir**																	
	(A)NM Express Canal (Mukane 109.16+Bhavli 29.67 +Waki 52.41 +Bham 64.87+Free Catchment 60.61 = 317.37 Mcum Design Use)						317.37								31.06	N. A.	N. A.	N. A.
	(B) Godavari canals (Gangapur 61.73 (34.26 from Dam +27.47 Regeneration) + Darna 162.91 + Waldevi 16.15 + free catchment 121.66 = 362.45 MCum design Use)						362.45								12.03	21.24	N. A.	N. A.

ANNEXURE 1

Information about Major, Medium and Minor Irrigation Projects in Upper Godavari (up to Paithan dam) Sub Basin

(N. A. - Not Applicable, N. S. - No Silt Survey done, All figures in Mm^3)

Sr. No.	Name of System	Total Catchment area of system (Sqkm)	Design Storage (Mcum) [As per DPR] & subsequent approval by Govt.				Design Water Use	Revised Storage (excluding Silt as per Survey)		Estimated Annual Evaporation Losses	Type of Overflow Section (Gated/ Ungated)	Live Storage against Spillway Gates	Live Storage below Crest of Spilway	Spillway Design Discharge (Cumecs)	Canal Outlet Design Discharge (Cumecs)		River Sluice Design Discharge (Cumecs)	Power Outlet Design Discharge (Cumecs)
			Dead	Live	Carry Over	Gross		Dead	Live						L.B.C.	R.B.C.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	U.S.of Darna																	
10	MI (State)-- 6 nos		0.54	13.77	0.00	14.31	15.09	N. S.	N. S.	2.07			13.77	N. A.	N. A.	N. A.	N. A.	N. A.
11	MI,KT,PT,ST...(Local Sector -18)	-	0.00	4.93	0.00	4.93	4.93	N. S.	N. S.	0.99	Ungated	0.00	14.61	N. A.	N. A.	N. A.	N. A.	N. A.
	U.S.of N.M.Weir																	
12	MI & KT (State)-- 13 nos		1.58	20.95	0.00	22.53	22.75	N. S.	N. S.	3.14			20.95	N. A.	N. A.	N. A.	N. A.	N. A.
13	MI,KT,PT,ST...(Local Sector -73)		0.00	20.58	0.00	20.58	20.58	N. S.	N. S.	4.12	Ungated	0.00	14.61	N. A.	N. A.	N. A.	N. A.	N. A.
	Total of E		**43.86**	**778.61**	**0.00**	**822.47**	**1097.61**	**34.69**	**674.70**	**117.16**		**247.87**	**489.99**					
F	**Remaining Upto Paithan**																	
1	**Below Mula**																	
	M.I.& KTW.(State) (13 Nos.)		0.20	16.83	0.00	17.03	18.99	N. S.	N. S.	2.52	Ungated	N. A.	16.83	N. A.	N. A.	N. A.	N. A.	N. A.
	MI,KT,PT,ST...(Local Sector -17)		0.00	5.80	0.00	5.80	5.80	N. S.	N. S.	1.16	Ungated	0.00	5.80	N. A.	N. A.	N. A.	N. A.	N. A.
2	**Below N M Weir**																	
	M.I.& KTW.(State) (25 Nos.)		6.41	78.43	0.00	84.82	80.20	N. S.	N. S.	11.76	Ungated	N. A.	78.43	N. A.	N. A.	N. A.	N. A.	N. A.
	MI,KT,PT,ST...(Local Sector -138)		0.00	36.61	0.00	36.61	36.61	N. S.	N. S.	7.32	Ungated	N. A.	36.61	N. A.	N. A.	N. A.	N. A.	N. A.
3	**Below Ozar weir**																	
	M.I.& KTW.(State) (16 Nos.)		0.57	32.62	0.00	33.19	34.56	N. S.	N. S.	4.89	Ungated	N. A.	32.62	N. A.	N. A.	N. A.	N. A.	N. A.
	MI,KT,PT,ST...(Local Sector -33)	-	0.00	9.48	0.00	9.48	9.48	N. S.	N. S.	1.90	Ungated	N. A.	9.48	N. A.	N. A.	N. A.	N. A.	N. A.
	Total of upto Paithan -F		**7.18**	**179.77**	**0.00**	**186.93**	**185.64**			**29.55**		**0.00**	**179.77**					

ANNEXURE 1

Information about Major, Medium and Minor Irrigation Projects in Upper Godavari (up to Paithan dam) Sub Basin

(N. A. - Not Applicable, N. S. - No Silt Survey done, All figures in Mm^3)

Sr. No.	Name of System	Total Catchment area of system (Sqkm)	Design Storage (Mcum) [As per DPR] & subsequent approval by Govt.				Design Water Use	Revised Storage (excluding Silt as per Survey)		Estimated Annual Evaporation Losses	Type of Overflow Section (Gated/ Ungated)	Live Storage against Spillway Gates	Live Storage below Crest of Spilway	Spillway Design Discharge (Cumecs)	Canal Outlet Design Discharge (Cumecs)		River Sluice Design Discharge (Cumecs)	Power Outlet Design Discharge (Cumecs)
			Dead	Live	Carry Over	Gross		Dead	Live						L.B.C.	R.B.C.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
G	**U/s of Jayakwadi**																	
1	Tembhapuri	284	1.66	19.61	0.00	21.27	22.13	N. S.	N. S.	5.36	Ungated	N. A.	19.61	2043	0.00	4.40	N. A.	N. A.
2	Dheku	259	1.36	12.17	0.00	13.53	13.00	N. S.	N. S.	3.24	Ungated	N. A.	12.17	1924	1.09	0.00	N. A.	N. A.
3	Kohli	42	0.40	3.24	0.00	3.64	3.10	N. S.	N. S.	0.46	Ungated	N. A.	3.24	697	0.32	0.00	N. A.	N. A.
4	Narangi	176	1.79	11.50	0.00	13.29	13.30	N. S.	N. S.	5.59	Gated	11.50	0.00	1599	1.07	0.86	N. A.	N. A.
5	Bor Dahegaon	232	1.93	11.47	0.00	13.40	15.10	N. S.	N. S.	5.41	Gated	10.03	1.44	2510	0.78	0.35	N. A.	N. A.
6	Ambadi	141	2.34	9.42	0.00	11.76	12.78	N. S.	N. S.	2.85	Ungated	N. A.	9.42	1413	0.22	0.94	N. A.	N. A.
7	Shivana Takli	375	2.91	36.45	0.00	39.37	45.58	N. S.	N. S.	7.27	Gated	34.20	2.26	3271	2.10	3.85	N. A.	N. A.
8	MI Projects (45 No.)		**11.84**	**99.69**	**0.00**	**111.53**	**108.46**	**N. S.**	**N. S.**	14.95	Ungated	N. A.	99.69	N. A.	N. A.	N. A.	N. A.	N. A.
9	**MI,KT,PT,ST...(Local Sector -93)**		0.00	28.25	0.00	28.25	28.25	N. S.	N. S.	5.65	Ungated	N. A.	28.25	N. A.	N. A.	N. A.	N. A.	N. A.
Total of G			**24.23**	**231.80**	**0.00**	**256.04**	**261.70**	**0.00**	**0.00**	**50.78**	**0.00**	**55.73**	**176.08**	**13457.15**	**5.58**	**10.40**	**0.00**	**0.00**
	Total A to G		**281.00**	**3233.48**	**39.92**	**3514.46**	**4043.88**	**213.43**	**2379.28**	**402.50**	**0.00**	**996.70**	**2052.76**	**13457.15**	**5.58**	**10.40**	**0.00**	**0.00**
H	**Paithan Dam (Including LIS on Backwater)**	**21774.00**	**738.11**	**2170.94**	**381.70**	**2909.04**	**2618.21**	**509.00**	**1991.98**	**323.10**	**Gated**	**1931.24**	**60.64**	**22656**	**101.94**	**63.71**	**N. A.**	**50.00**

(Er. Mahendra Amale)
S. E. & Administrator
C.A.D.A ,Nashik &
Member Secretary

(Er. Samadhan Sabbinwar)
Superintending Engineer& Administrtor,
CADA ,Chhatrapati Sambhaji Nagar.
Special Invitee Member.

(Er.Pramod Mandade)
Director General ,
Maharashtra Engineering Reasech
(MERI) ,Nashik. & Chairma

ANNEXURE 2

Information about availability of yield at various locations in Upper Godavari (up to Paithan dam) sub-basin

(All figures in Mm^3)

Sr. No.	Name of Dam	Design Annual Virgin Yield						Planned u/s utilisations (Design)	Design Net Annual Yield					Regene-ration Flow (Design)	Observed Net Yield					
		100% dep	90% dep	75% dep	50% dep	Average	Year of Study		100% dep	90% dep	75% dep	50% dep	Average		100% dep	90% dep	75% dep	50% dep	Average	Data period
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
A	**Mula Complex**																			
1	Mandohal	6.03	8.13	14.15	22.05	27.32	1954-1974	0.00	6.03	8.13	14.15	22.05	27.32	0.00	0.18	2.74	4.75	12.25	19.24	1983-2022
2	Mula Dam (70% Dep.)	328.67	436.01	696.50	822.60	819.34	1999	0.00	328.67	436.01	696.50	822.60	819.34	0.00	328.67	469.32	593.03	765.31	821.97	1961-2022
	TotalA	334.70	444.14	710.65	844.65	846.66	1999.00	0.00	334.70	444.14	710.65	844.65	846.66	0.00	328.85	472.06	597.78	777.56	841.21	0.00
B	**Pravara Complex**																			
1	Bhandardara	289.37	412.47	480.16	546.45	547.59	1949-1980	33.97	N.A.	N.A.	480.16	546.45	547.59	0.00	233.33	316.05	373.05	426.60	477.54	1976-2022
2	Nilwande	N.A.	N.A.	598.82	693.48	702.79	1993	326.06	N.A.	N.A.	118.66	147.03	155.20	0.00	157.53	172.01	387.13	532.34	511.65	2008-2022
3	Adhala	N.A.	34.43	42.47	56.92	56.63	1966	0.00	N.A.	34.43	42.47	56.92	56.63	0.00	7.36	17.39	23.67	34.87	42.79	1991-2022
4	Bhojapur	N.A.	N.A.	N.A.	32.85	38.51	1934-1946	0.00	N.A.	N.A.	N.A.	32.85	38.51	0.00	3.96	9.25	13.27	21.72	29.19	1977-2022
5	Ozar Weir	420.13	677.30	771.82	884.55	951.14	1949-1980	768.91	N.A.	N.A.	2.91	115.64	182.23	0.00	78.87	131.46	195.14	277.38	331.95	1976-2022
	Total B	709.50	1124.20	1893.27	2214.25	2296.66	3959.00	1128.94	0.00	34.43	644.20	898.89	980.16	0.00	481.05	646.16	992.26	1292.91	1393.12	0.00
C	**Gangapur Complex**																			
1	Gautami	17.00	30.00	43.70	52.90	55.62	1961-1990	0.00	17.00	30.00	43.70	52.90	55.62	0.00	20.32	30.91	42.96	57.77	59.49	2005-2022
2	Kashyapi	16.46	54.73	68.53	77.59	74.96	1955-1980	6.89	9.57	47.84	61.64	70.70	68.07	0.00	17.36	26.54	34.37	55.02	55.88	1999-2022
3	Gangapur	118.93	163.10	214.85	295.91	297.38	1905-1925	0.00	118.93	163.10	214.85	295.91	297.38	0.00	102.25	186.72	231.29	298.23	320.45	1975-2022
	Total C	152.39	247.83	327.08	426.40	427.96	0.00	6.89	145.50	240.94	320.19	419.51	421.07	0.00	139.93	244.17	308.62	411.02	435.82	0.00
D	**Palkhed Complex**																			
1	Karanjwan	N.A.	N.A.	173.300	N.A.	N.A.	N.A.	1.73	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	57.14	90.33	115.98	162.99	171.32	1981-2022
2	Waghad	N.A.	N.A.	92.88	N.A.	N.A.	N.A.	3.6	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	42.39	51.65	65.58	73.68	89.22	1981-2022
3	Ozerkhed	N.A.	N.A.	92.31	N.A.	N.A.	N.A.	6.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	20.22	24.15	41.37	58.45	64.27	1982-2022
4	Pungaon	N.A.	N.A.		N.A.	N.A.	N.A.		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	4.42	7.87	15.49	19.06	27.99	1997-2022
5	Palkhed	N.A.	N.A.	86.08	N.A.	N.A.	N.A.	0	N.A.	N.A.	86.08	N.A.	N.A.	N.A.	17.33	21.24	34.07	68.27	160.70	1981-2022
	Palkhed Complex	**206.71**	**297.32**	**444.57**	**571.99**	**668.27**	1906-1926	**184.56**	**22.15**	**112.76**	**260.01**	**387.43**	**483.71**	**0.00**	**182.94**	**262.46**	**271.81**	**349.26**	**430.16**	1981-2022
6	Tisgaon	N.A.	N.A.	N.A.	25.62	N.A.	1993	0.84	N.A.	N.A.	N.A.	24.78	N.A.	0	0.00	2.21	5.21	12.54	14.87	1997-2022
	Total D	206.71	297.32	889.14	597.61	668.27	1993.00	196.76	22.15	112.76	346.09	412.21	483.71	0.00	324.44	459.91	549.51	744.25	958.53	0.00
E	**Darna Complex**																			
1	Alandi	13.40	23.93	42.21	51.60	50.47	1964-1983	0.00	13.40	23.93	42.21	51.60	50.47	0.00	13.90	24.89	25.39	39.90	49.71	1985-2022
2	Kadwa	66.48	71.72	85.74	106.61	130.54	1948-1983	3.76	62.72	67.96	81.98	102.85	126.78	0.00	49.49	76.82	109.76	137.47	165.80	1993-2022
3	Bham	34.23	57.90	75.10	83.09	85.73	1906-1925	0.00	34.23	57.90	75.10	83.09	85.73	0.00	75.80	75.80	145.05	176.24	188.22	2018-2022
4	Bhavli	17.56	29.69	38.51	42.61	43.98	1906-1925	0.00	17.56	29.69	38.51	42.61	43.98	0.00	52.73	52.90	66.88	82.40	76.54	2010-2022

ANNEXURE 2

Information about availability of yield at various locations in Upper Godavari (up to Paithan dam) sub-basin

(All figures in Mm^3)

Sr. No.	Name of Dam	Design Annual Virgin Yield						Planned u/s utilisations (Design)	Design Net Annual Yield					Regene-ration Flow (Design)	Observed Net Yield					
		100% dep	90% dep	75% dep	50% dep	Average	Year of Study		100% dep	90% dep	75% dep	50% dep	Average		100% dep	90% dep	75% dep	50% dep	Average	Data period
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
5	Waki	21.94	37.11	48.14	53.26	54.98	1906-1925	0.00	21.94	37.11	48.14	53.26	54.98	0.00	67.05	67.05	79.32	102.24	93.28	2018-2022
6	Darna	273.86	463.20	600.79	664.69	686.11	1906-1925	0.00	273.86	463.20	600.79	664.69	686.11	0.00	258.91	411.07	490.54	646.82	715.02	1975-2022
7	Mukane	87.75	148.46	191.16	214.16	216.49	1906-1925	0.00	87.75	148.46	191.16	214.16	216.49	0.00	65.17	89.24	107.71	127.24	145.58	1996-2022
8	Waldevi	19.38	27.80	31.56	42.16	44.27	1949-1979	0.00	19.38	27.80	31.56	42.16	44.27	0.00	25.31	31.81	55.22	70.84	72.40	2003-2022
9	N M Weir			1879.37	N M Project Page No 30			1429.99	Not Available		449.38	0.00	0.00	124.59	245.08	531.11	743.25	1347.50	1545.82	1975-2022
Total E		534.60	859.81	2992.58	1258.18	1312.57	0.00	1433.75	530.84	856.05	1558.83	1254.42	1308.81	124.59	853.44	1360.69	1823.12	2730.65	3052.37	0.00
F	**U/s of Jayakwadi**																			
1	Tembhapuri	6.86	15.26	20.93	29.39	33.97	1976	3.91	2.95	11.35	17.02	25.48	30.06	1.3	0	0	0	9.67	9.93	2006-2022
2	Dheku	0.23	1.24	2.87	4.52	2.16	1957	0.00	0.23	1.24	2.87	4.52	2.16	0	1.66	3.84	5.73	9.31	13.09	1971-2022
3	Kohli	0.29	1.95	3.00	4.757	2.498	1964	0.00	0.29	1.95	3.00	4.76	2.50	0	0	0	0.1	1.02	1.64	1999-2022
4	Narangi	0.00	7.99	10.95	14.66	13.83	1992	0.00	0.00	7.99	10.95	14.66	13.83	0	0	0	0	1.91	4.56	1999-2022
5	Bor Dahegaon	0.00	9.20	12.76	17.02	16.05	1992	0.00	0.00	9.20	12.75	17.02	16.05	0	0	0	0.34	3.62	5.81	1999-2022
6	Ambadi	2.48	3.80	9.50	16.83	8.9	1969	0.00	2.48	3.80	9.50	16.83	8.90	0	1.665	3.284	5.286	9.763	11.082	1988-2022
7	Shivana Takli	41.63	43.07	75.63	115.052	142.54	1976	51.53	0.00	0.00	24.10	63.52	91.01	0	5.2	6.2	17.1	23.12	30.52	2005-2023
Total F		51.48	82.52	135.64	202.23	219.95	13826.00	55.44	5.94	35.54	80.19	146.79	164.51	1.30	8.53	13.32	28.56	58.41	76.63	0.00
Total A to F		1989.38	3055.82	6948.36	5543.32	5772.07	21777.00	2821.78	1039.13	1723.86	3660.15	3976.47	4204.92	125.89	2136.24	3196.31	4299.85	6014.80	6757.68	0.00
G	**Jayakwadi Project**	**3184.00**	**4751.00**	**5566.00**	**6634.00**	**6956.00**	**1985.00**	**3270.00**	**0.00**	**1481.00**	**2296.00**	**3364.00**	**3686.00**	**243.52**	**174.27**	**541.45**	**844.21**	**1753.44**	**2170.13**	**1976-2022**

(Er. Mahendra Amale)
S. E. & Administrator
C.A.D.A ,Nashik &
Member Secretary

(Er. Samadhan Sabbinwar)
Superintending Engineer& Administrtor,
CADA ,Chhatrapati Sambhaji Nagar.
Special Invitee Member.

(Er.Pramod Mandade)
Director General ,
Maharashtra Engineering Reasech Institute
(MERI) ,Nashik. & Chairman

Annexure - 3

Information of Water Requirement (Demand) from various Reservoirs / Dams (Major & Medium projects)in Upper Godavari (up to Paithan dam)sub-basin

(All Figures in Mm^3)

Sr. No.	Name of Dam/ System	Live Storage excluding Silt (As per Silt Survey)	Planned Irrigation Use (DPR Provisions)				Planned NI Provision	Design Evaporation Losses				Transit Losses from Dam to Pickup Weir	Total Annual Design Water Use (7+8+12+13)	Annual Non-Irrigation Reservations Granted (only Active Schemes)			Contingency Rural Domestic Reservations by Collector in 2022-23	Quantity of NI in Excess of Planned NI use	Reduced Irrigation Use after Deducting Excess NI use	reducing factor	Revised Planned Irrigation Use (After Deducting Excess NI Use)				Total Design Use
			Kharif	Rabi	HW	Annual		Kharif	Rabi	HW	Annual			Domestic	Industrial	Total					Kharif	Rabi	HW	Annual	
																		col. 17- 8	col. 7 - 19	col. 20/7					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
A	Mula System																								
1	Mandohal	5.68	4.31	7.41	0.00	11.72	0.00	-	-	-	1.43	-	13.15	1.23	0.00	1.23	1.25	1.23	10.49	0.90	3.86	6.63	-	10.49	13.15
2	Mula	546.55	168.44	400.60	0.00	569.04	59.12	-	-	-	76.45	-	704.61	86.07	7.29	93.36	28.32	34.24	534.81	0.94	158.31	376.50	-	534.81	704.61
Total of A		**552.23**	**172.75**	**408.01**	**-**	**580.76**	**59.12**	**-**	**-**	**-**	**77.88**	**-**	**717.76**	**87.30**	**7.29**	**94.59**	**29.57**	**35.47**	**545.30**		**162.17**	**383.13**	**-**	**545.30**	**717.76**
B	Pravara System																								
1	Bhandardara Dam	307.61	117.80	139.80	164.30	421.90	0.00	-	-	-	13.02	20.95	455.87	45.19	23.12	68.31	7.48	68.31	353.59	0.84	98.73	117.16	137.70	353.59	455.87
2	Nilwande	228.75	128.20	185.26	0.00	313.46	0.00	-	-	-	12.60	-	326.06	13.15	0.00	13.15	0.04	13.15	300.31	0.96	122.82	177.49	-	300.31	326.06
3	Adhala Dam	21.97	13.19	13.45	8.98	35.62	0.00	-	-	-	3.11	-	38.73	1.82	0.00	1.82	0.33	1.82	33.80	0.95	12.52	12.76	8.52	33.80	38.73
4	Bhojapur + Flood Canal (7.12 Mcum)	9.86	8.34	8.04	0.00	16.38	2.57	0.27	0.45	0.63	1.35	-	20.30	3.04	0.00	3.04	0.20	0.47	15.91	0.97	8.10	7.81	-	15.91	20.30
Total of B		**568.19**	**267.53**	**346.55**	**173.28**	**787.36**	**2.57**	**0.27**	**0.45**	**0.63**	**30.08**	**20.95**	**840.96**	**63.20**	**23.12**	**86.32**	**8.05**	**83.75**	**703.61**		**242.17**	**315.22**	**146.2**	**703.61**	**840.96**
C	Gangapur System																								
1	Gautami	46.13	0.00	0.00	0.00	0.00	0.00	NA	NA	NA	0.00	0.00	-	49.20	0.05	49.25	0								
2	Kashyapi	59.06	0.00	0.00	0.00	0.00	33.98	NA	NA	NA	0.00	0.00	33.98	31.15	0.00	31.15	-	180.19							
3	Gangapur	159.42	21.61	116.21	73.36	211.18	2.83	0.00	9.03	8.78	17.81	0.00	231.82	77.23	59.37	136.60	0.76		30.99	0.15	3.17	17.05	10.76	30.98	265.79
Total of C		**264.61**	**21.61**	**116.21**	**73.36**	**211.18**	**36.81**	**0.00**	**9.03**	**8.78**	**17.81**	**0.00**	**265.80**	**157.58**	**59.42**	**217.00**	**0.76**	**180.19**	**30.99**		**3.17**	**17.05**	**10.76**	**30.98**	**265.79**

Annexure - 3

Information of Water Requirement (Demand) from various Reservoirs / Dams (Major & Medium projects)in Upper Godavari (up to Paithan dam)sub-basin

(All Figures in Mm^3)

Sr. No.	Name of Dam/ System	Live Storage excluding Silt (As per Silt Survey)	Planned Irrigation Use (DPR Provisions)				Planned NI Provision	Design Evaporation Losses				Transit Losses from Dam to Pickup Weir	Total Annual Design Water Use (7+8+12+13)	Annual Non-Irrigation Reservations Granted (only Active Schemes)			Contingency Rural Domestic Reservations by Collector in 2022-23	Quantity of NI in Excess of Planned NI use	Reduced Irrigation Use after Deducting Excess NI use	reducing factor	Revised Planned Irrigation Use (After Deducting Excess NI Use)				Total Design Use
			Kharif	Rabi	HW	Annual		Kharif	Rabi	HW	Annual			Domestic	Industrial	Total					Kharif	Rabi	HW	Annual	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
D	Palkhed Cpmplex																								
1	Karanjwan	152.00	2.81	5.12	0.00	7.93	0.00	-	-	-	16.99	-	24.92	1.57	1.30	2.87	0.31	2.87	5.06	0.64	1.79	3.27	-	5.06	24.92
2	Waghad	64.95	12.31	26.90	0.00	39.21	0.00	-	-	-	7.08	-	46.29	1.30	0.78	2.08	2.75	2.08	37.13	0.95	11.66	25.47	-	37.13	46.29
3	Punegaon	16.64	2.64	16.34	0.00	18.98	0.00	-	-	-	2.24	-	21.22	0.39	0.00	0.39	0.65	0.39	18.59	0.98	2.59	16.00	-	18.59	21.22
4	Ozarkhed	56.69	19.42	41.68	0.00	61.10	1.27	-	-	-	8.27	-	70.64	9.87	1.09	10.96	4.50	9.69	51.41	0.84	16.34	35.07	-	51.41	70.64
5	Tisgaon	10.78	2.83	6.12	0.00	8.95	0.00	-	-	-	3.20	-	12.15	1.94	0.00	1.94	0.00	1.94	7.01	0.78	2.22	4.79	-	7.01	12.15
	Daraswadi (Water from Punegaon)		10.13	0.00	0.00	10.13	0.00	-	-	-	-	-	10.13	0.00	0.00	0.00	0.00	-	10.13	1.00	10.13	-	-	10.13	10.13
6	Palkhed	18.49	78.60	168.20	4.93	251.73	19.35	-	-	-	8.10	3.88	283.06	40.30	6.78	47.08	24.69	27.73	224.00	0.89	69.94	149.67	4.39	224.00	283.06
	Total of D	**319.55**	**128.74**	**264.36**	**4.93**	**398.03**	**20.62**	**-**	**-**	**-**	**45.88**	**3.88**	**468.41**	**55.37**	**9.95**	**65.32**	**32.903**	**44.70**	**353.33**	**0.89**	**114.67**	**234.27**	**4.39**	**353.33**	**468.41**
E	Darna System																								
1	Alandi Dam	23.85	13.61	24.21	0.00	37.82	0.00	1.03	1.82	0.00	2.85	0.00	40.67	1.07	0.21	1.28	0.00	1.28	36.54	0.97	13.15	23.39	-	36.54	40.67
2	Kadwa	50.59	30.54	35.61	3.67	69.82	0.60	3.79	3.49	3.00	10.28	-	80.70	18.70	0.00	18.70	1.14	18.10	51.72	0.74	22.62	26.38	2.72	51.72	80.70
3	Bham	69.76	0.00	0.00	0.00	0.00	0.00	2.05	3.20	1.37	6.62	3.56	10.18	0.81	0.00	0.81	-								10.99
4	Bhawali	40.79	3.14	5.61	1.95	10.70	0.00	1.33	2.08	0.89	4.30	2.06	17.06	18.78	0.005	18.79	1.35			0.84	2.63	4.70	1.63	8.96	34.11
5	Waki	70.57	0.00	0.00	0.00	0.00	9.12	1.83	2.86	1.22	5.91	3.13	18.16	0.00	0.00	-	-								9.04
6	Darna	188.66	0.00	0.00	0.00	0.00	0.00	14.63	22.80	9.73	47.16	9.75	56.91	93.65	8.07	101.72	9.71								158.63
7	Mukane	198.39	0.65	1.16	0.43	2.24	71.81	7.67	11.95	5.10	24.72	6.23	105.00	73.11	2.77	75.88	0.17	113.73	587.62	0.84	0.54	0.97	0.36	1.87	108.70
8	Waldevi	32.06	2.74	5.84	0.00	8.58	12.18	1.25	3.75	0.00	5.00	0.00	25.76	0.14	12.19	12.33	0.38			0.84	2.30	4.89	-	7.19	24.52
9	N M Weir					-																			
	a) N.M.Express Canal		94.72	170.58	52.08	317.37	0.00	0.00	0.00	0.00	0.00	0.00	317.37	0.00	0.00	0.00	-			0.84	79.36	142.92	43.64	265.92	265.92
	b) Godavari Canal		89.48	207.45	65.52	362.45	0.00	0.00	0.00	0.00	0.00	0.00	362.45	0.00	0.00	0.00	-			0.84	74.97	173.81	54.90	303.68	303.68
	Total of E	**674.67**	**234.88**	**450.46**	**123.65**	**808.98**	**93.71**	**33.58**	**51.95**	**21.31**	**106.84**	**24.73**	**1034.26**	**206.26**	**23.24**	**229.50**	**12.75**	**133.11**	**675.88**		**195.57**	**377.06**	**103.25**	**675.88**	**1036.95**
	Total of A to E	2,379.25	825.51	1,585.59	375.22	2,786.31	212.83	33.85	61.43	30.72	278.49	49.56	3,327.19	569.71	123.02	692.73	84.03	477.22	2,309.10		717.75	1,326.73	264.62	2,309.10	3,329.88

Annexure - 3

Information of Water Requirement (Demand) from various Reservoirs / Dams (Major & Medium projects)in Upper Godavari (up to Paithan dam)sub-basin

(All Figures in Mm^3)

Sr. No.	Name of Dam/ System	Live Storage excluding Silt (As per Silt Survey)	Planned Irrigation Use (DPR Provisions)				Planned NI Provision	Design Evaporation Losses				Transit Losses from Dam to Pickup Weir	Total Annual Design Water Use (7+8+12+13)	Annual Non-Irrigation Reservations Granted (only Active Schemes)			Contingency Rural Domestic Reservations by Collector in 2022-23	Quantity of NI in Excess of Planned NI use	Reduced Irrigation Use after Deducting Excess NI use	reducing factor	Revised Planned Irrigation Use (After Deducting Excess NI Use)				Total Design Use
			Kharif	Rabi	HW	Annual		Kharif	Rabi	HW	Annual			Domestic	Industrial	Total		col. 17- 8	col. 7 - 19	col. 20/7	Kharif	Rabi	HW	Annual	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
F	U/s of Jayakwadi																	-	-						
1	Tembhapuri	19.61	3.46	12.75	-	16.21	0.56	-	-	-	5.36	-	22.13	2.14	-	2.14	-	1.58	14.64	0.90	3.12	11.51	-	14.64	22.13
2	Dheku	12.17	1.34	8.42	-	9.76	0.00	-	-	-	3.24	-	13.00	1.59	-	1.59	-	1.59	8.18	0.84	1.12	7.05	-	8.18	13.00
3	Kohli	3.24	0.99	1.10	0.54	2.64	0.00	-	-	-	0.46	-	3.10	-	-	-	-	-	2.64	1.00	0.99	1.10	0.54	2.64	3.10
4	Narangi	11.50	0.13	2.28	-	2.41	5.30	-	-	-	5.59	-	13.30	4.30	-	4.30	-	-	2.41	1.00	0.13	2.28	-	2.41	12.30
5	Bor Dahegaon	11.47	2.07	7.38	-	9.45	0.23	1.60	2.80	1.01	5.41	-	15.10	1.15	-	1.15	-	0.92	8.54	0.90	1.87	6.66	-	8.54	15.10
6	Ambadi	9.42	2.78	3.72	0.93	7.43	2.50	-	-	-	2.85	-	12.78	3.48	0.11	3.59	-	1.09	6.34	0.85	2.37	3.17	0.79	6.34	12.78
7	Shivana Takli	36.45	3.35	31.17	-	34.52	3.79	2.22	3.89	1.16	7.27		45.58	3.79	-	3.79	0.14	-	34.52	1.00	3.35	31.17	-	34.52	45.58
Total of F		**103.86**	**14.13**	**66.83**	**1.47**	**82.43**	**12.38**	**3.82**	**6.69**	**2.17**	**30.18**	**-**	**124.99**	**16.44**	**0.11**	**16.55**	**0.14**	**4.17**	**78.26**		**12.96**	**62.96**	**1.34**	**77.26**	**123.99**
G	Paithan Dam																								
1	Jayakwadi Project	1,991.98	349.88	1,126.86	324.83	1,801.58	194.11	67.85	92.56	162.69	323.10	-	2,318.79	345.59	78.37	423.96	60.00	229.85	1,571.72	0.87	305.24	983.09	283.39	1,571.72	2,318.79
2	Feeding to Majalgaon		72.75	119.15	107.52	299.42	-	-	-	-	-	-	299.42	56.31	38.90	95.21	-	95.21	204.21	0.68	49.62	81.26	73.33	204.21	299.42
Total Paithan Dam		**1,992**	**422.63**	**1,246.01**	**432.35**	**2,101**	**194.11**	**67.85**	**92.56**	**162.69**	**323.10**	**-**	**2,618.21**	**401.90**	**117.27**	**519.17**	**60.00**	**325.06**	**1,775.93**		**354.86**	**1,064.36**	**356.72**	1,775.93	**2,618.21**

***It is proposed not to consider contingency reservations. These should be adjusted in irrigation use.**
***Figures shown in column no.17, are not corrected as per MWRRA guidelines. Quantities of non working NI schemes are excluded.**

(Er. Mahendra Amale)
S. E. & Administrator
C.A.D.A ,Nashik &
Member Secretary

(Er. Samadhan Sabbinwar)
Superintending Engineer& Administrtor,
CADA ,Chhatrapati Sambhaji Nagar.
Special Invitee Member.

(Er.Pramod Mandade)
Director General ,
Maharashtra Engineering Reasech Institute
(MERI) ,Nashik. & Chairman

ANNEXURE-4

Details of Non Irrigation Reservation & Actual Water Use from Major & Medium Projects in Upper Godavari (up to Paithan dam) sub-basin (Revised

(All Figures in Mm^3)

Sr. No.	Name of Dam	NI Provision in Project Report	Domestic Use			Industrial Use			Total Non-Irrigation Use				
			Reser vations Granted (Active Schemes)	Entitled as per MWRRA Criteria	Actual 2022-23 (with losses)	Reser vations Granted (Active Schemes)	Entitled as per MWRRA Criteria	Actual 2022-23 (with losses)	Reser vations Granted	Entitled as per MWRRA Criteria	Actual 2022-23 (with losses)	River Losses (for NI)	Total Use (included losses)
1	2	3	4	5	6	7	8	9	10=4+7	11=5+8	12=6+9	13	14=12+13
A	**Mula System**												
1	Mandohal	0.00	1.23	1.05	1.34	0.00	0.00	0.00	1.23	1.05	1.34	-	1.34
2	Mula	59.12	86.07	42.39	57.19	7.29	12.40	3.71	93.36	54.79	60.90	-	60.90
	Total of A	59.12	87.30	43.44	58.53	7.29	12.40	3.71	94.59	55.84	62.24	0.00	62.24
B	**Pravara System**												
1	Bhandardara	0.00	45.19	28.06	90.46	23.12	3.42	5.01	68.31	31.48	95.47	-	95.47
2	Nilwande	13.15	13.15	7.89	11.54	0.00	0.00	0.00	13.15	7.89	11.54	-	11.54
3	Adhala	0.00	1.82	0.34	1.11	0.00	0.00	0.00	1.82	0.34	1.11	-	1.11
4	Bhojapur	2.57	3.04	3.04	15.91	0.00	0.00	0.00	3.04	3.04	15.91	-	15.91
	Total of B	15.72	63.20	39.33	119.02	23.12	3.42	5.01	86.32	42.75	124.03	0.00	124.03
C	**Gangapur System**												
1	Gautami	0.00	49.20	27.17	1.21	0.05	0.05	0.00	49.28	27.22	1.22	-	1.22
2	Kashyapi	33.98	31.15	17.66	0.00	0.00	0.00	0.00	31.15	17.66	0.00	-	0.00
3	Gangapur	2.83	77.23	47.35	151.01	59.37	58.99	14.15	136.60	106.34	165.16	-	165.16
	Total of C	36.81	157.58	92.18	152.22	59.42	59.04	14.15	217.03	151.22	166.38	0.00	166.38
D	Palkhed System												
1	Karnjwan	0.00	1.57	0.89	0.31	1.30	0.54	0.36	2.87	1.43	0.67	-	0.67
2	Waghad	0.00	1.30	0.62	0.30	0.78	0.86	0.00	2.08	1.48	0.30	-	0.30
3	Punegaon	0.00	0.39	0.00	0.34	0.00	0.00	0.00	0.39	0.00	0.34	-	0.34

ANNEXURE-4

Details of Non Irrigation Reservation & Actual Water Use from Major & Medium Projects in Upper Godavari (up to Paithan dam) sub-basin (Revised

(All Figures in Mm^3)

Sr. No.	Name of Dam	NI Provision in Project Report	Domestic Use			Industrial Use			Total Non-Irrigation Use				
			Reser vations Granted (Active Schemes)	Entitled as per MWRRA Criteria	Actual 2022-23 (with losses)	Reser vations Granted (Active Schemes)	Entitled as per MWRRA Criteria	Actual 2022-23 (with losses)	Reser vations Granted	Entitled as per MWRRA Criteria	Actual 2022-23 (with losses)	River Losses (for NI)	Total Use (included losses)
1	2	3	4	5	6	7	8	9	10=4+7	11=5+8	12=6+9	13	14=12+13
4	Ozarkhed	1.27	9.87	6.54	8.65	1.09	1.12	0.50	10.96	7.66	9.15	-	9.15
5	Palkhed	19.36	40.30	67.48	107.18	6.78	10.70	2.84	47.08	78.18	110.02	14.94	124.96
6	Tisgaon	0.00	1.94	0.87	0.15	0.00	0.00	0.00	1.94	0.87	0.15	-	0.15
	Total of D	20.63	55.37	76.40	116.93	9.95	13.22	3.70	65.32	89.62	120.63	14.94	135.57
E	**Darna System**												
1	Alandi	0.00	1.07	1.07	0.00	0.21	0.13	0.12	1.28	1.20	0.12	-	0.12
2	Kadwa	0.60	18.70	11.20	15.55	0.00	0.00	0.00	18.70	11.20	15.55	-	15.55
3	Bham	0.00	0.81	0.81	0.00	0.01	0.01	0.00	0.82	0.82	0.00	-	0.00
4	Bhavali	0.00	18.78	18.78	0.80	0.005	0.005	0.00	18.79	18.79	0.80	-	0.80
5	Waki	9.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00
6	Mukane	71.81	73.11	41.59	56.54	2.77	2.77	5.55	75.88	44.36	62.09	-	62.09
7	Darna	0.00	93.65	58.59	19.35	8.07	8.07	0.13	101.72	66.66	19.48		168.32
8	N. M. Weir a) Godavari canals				113.58			13.27			126.85		
	b) N.M.Express Canal												
9	Waldevi	12.18	0.14	0.34	2.50	12.19	12.19	5.43	12.33	12.53	7.93	-	7.93
	Total of E	93.71	206.26	132.38	208.32	23.25	23.17	24.50	229.51	155.55	232.82	0.00	254.81
	Total A To E	225.99	569.71	383.73	655.02	123.02	111.25	51.07	692.76	494.98	706.10	14.94	743.03
F	U/s of Jayakwadi												
1	Tembhapuri	0.56	2.14	0.98	0.89	0.00	0.00	0.00	2.14	0.98	0.89	-	0.89
2	Dheku	0.00	1.59	0.36	0.52	0.00	0.00	0.00	1.59	0.36	0.52	-	0.52
3	Kohli	0.00	0.00	0.89	0.65	0.00	0.00	0.00	0.00	0.89	0.65	-	0.65
4	Narangi	5.30	4.30	2.41	0.56	0.00	0.00	0.00	4.30	2.41	0.56	-	0.56
5	Bor Dahegaon	0.23	1.15	0.18	0.13	0.00	0.00	0.00	1.15	0.18	0.13	-	0.13
6	Ambadi	2.50	3.48	1.18	2.02	0.11	0.00	0.10	3.59	1.18	2.12	-	2.12
7	Shivana Takli	3.79	3.69	0.90	0.13	0.00	0.00	0.00	3.69	0.90	0.13	-	0.13
	Total of F	12.38	16.34	6.90	4.90	0.11	0.00	0.10	16.45	6.90	5.00	0.00	5.004

ANNEXURE-4

Details of Non Irrigation Reservation & Actual Water Use from Major & Medium Projects in Upper Godavari (up to Paithan dam) sub-basin (Revised

(All Figures in Mm^3)

Sr. No.	Name of Dam	NI Provision in Project Report	Domestic Use			Industrial Use			Total Non-Irrigation Use				
			Reser vations Granted (Active Schemes)	Entitled as per MWRRA Criteria	Actual 2022-23 (with losses)	Reser vations Granted (Active Schemes)	Entitled as per MWRRA Criteria	Actual 2022-23 (with losses)	Reser vations Granted	Entitled as per MWRRA Criteria	Actual 2022-23 (with losses)	River Losses (for NI)	Total Use (included losses)
1	2	3	4	5	6	7	8	9	10=4+7	11=5+8	12=6+9	13	14=12+13
G	Jayakwadi Project	0.00	401.90	374.24	75.03	117.27	78.37	41.82	519.17	452.61	116.85	0	116.85

***Figures shown in Column no.4,7 and 10, are not corrected as per MWRRA guidelines.**

***Entitlement as per MWRRA guidelines may be considered for further calculations.**

***Actual water supplied shown in the proforma are inclusive of river losses. However the water lost in the transit that is used for irrigation from surface of groundwater.**

(Er. Mahendra Amale)
S. E. & Administrator
C.A.D.A ,Nashik &
Member Secretary

(Er. Samadhan Sabbinwar)
Superintending Engineer& Administrtor,
CADA ,Chhatrapati Sambhaji Nagar.
Special Invitee Member.

(Er.Pramod Mandade)
Director General ,
Maharashtra Engineering Reasech
(MERI) ,Nashik. & Chairman

ANNEXURE-5

Information about Kharif utilizations from Major and Medium projects in Upper Godavari (upto Paithan dam) fig. in MCM

Inform

Sr. No.	Name of Dam/ System	Planned Kharif Use		2012-13			2013-14			2014-15			2015-16			2016-17			2017-18		
		Area irrigated (Ha.)	Water Use (Mm^3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	Mula Complex																				
1	Mandohal	2266.00	4.31	0.00	0.00	0.00	0.00	0.05	0.00	0	0.00	0.00	0.00	0.00	0.00	175.00	0.00	0.00	175.00	0.00	0.00
2	Mula	35556.00	168.44	39323.00	119.73	0.29	49657.00	178.81	0.30	20503	21.48	0.34	2603.00	5.35	0.24	35704.00	96.69	0.41	35813.00	104.02	0.43
Total Mula Complex		**37822.00**	**172.75**	**39323.00**	**119.73**	**0.29**	**49657.00**	**178.86**	**0.30**	**20503**	**21.48**	**0.34**	**2603.00**	**5.35**	**0.24**	**35879.00**	**96.69**	**0.41**	**35988.00**	**104.02**	**0.43**
B	Pravara Complex																				
1	Bhandardara	11186.00	117.80	13935.00	17.74	0.00	13518.00	12.74	2.53	13111	14.73	0.01	12986.00	9.25		16791.00	14.84		19465.00	7.93	
2	Nilwande	64260.00	128.20	0.00	0.00		0.00	0.00		36	0.17		40.00	0.19	0.00	64.00	3.19	0.39	879.00	9.75	
3	Ozer Weir																				
	Pravara Canal			8569.00	64.25		10580.00	108.65		9279	82.27		9380.00	78.45		8205.00	93.73		6177.00	80.74	
	Total	**75446.00**	**246.00**	**22504.00**	**81.99**	**0.00**	**24098.00**	**121.39**	**2.53**	**22426**	**97.17**	**0.01**	**22406.00**	**87.89**	**0.00**	**25060.00**	**111.76**	**0.39**	**26521.00**	**98.42**	**0.00**
4	Adhala	1774.00	13.19	294.00	0.00	0.00	294.00	0.37	0.00	0	0.00	0.39	0.00	0.00	0.39	0.00	0.00	0.39	375.35	1.78	
5	Bhojapur+Flood cana	3636.00	8.34	0.00	0.00	0.00	38.00	0.00	0.00	64	0.00	0.00	64.00	0.00	0.00	148.00	0.00	0.00	344.40	2.14	
Total Pravara Complex		**80856.00**	**267.53**	**22798.00**	**81.99**	**0.00**	**24430.00**	**121.76**	**2.53**	**22490**	**97.17**	**0.40**	**22470.00**	**87.89**	**0.39**	**25208.00**	**111.76**	**0.78**	**27240.75**	**102.33**	**0.00**
C	Gangapur Complex																				
1	Gautami Godavari	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Kashyapi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Gangapur	9735.00	21.61	9926.86	0.56	0.00	9404.13	9.31	0.00	11166	14.28	0.00	2663.00	0.00	0.00	2894.93	0.85	0.00	2468.00	0.17	
Total Gangapur Complex		**9735.00**	**21.61**	**9926.86**	**0.56**	**0.00**	**9404.13**	**9.31**	**0.00**	**11165.66**	**14.28**	**0.00**	**2663.00**	**0.00**	**0.00**	**2894.93**	**0.85**	**0.00**	**2468.00**	**0.17**	**0.00**
E	Darna Complex																				
1	Alandi Dam	2266.00	13.61	2170.00	0.00	0.50	2281.00	0.00	0.53	1853	0.00	0.50	1853.00	0.00	0.50	1351.00	0.00	0.00	1460.21		
2	Kadwa	5514.00	30.54	3782.18	23.11	0.00	4869.38	41.18	0.00	3045	0.79	0.00	3692.87	25.28	0.00	4189.68	10.05	0.00	3550.33	13.95	
3	Bham		0.00		0.00			0.00			0.00			0.00			0.00				
4	Bhawali	738.00	3.14	0.00	0.00	0.00	0.00	0.00	0.22	0	0.00	0.00	0.00	0.00		0.00	0.00	0.00			
5	Waki		0.00		0.00			0.00			0.00			0.00			0.00				
6	Darna	0.00	0.00	2520.73	0.41	24.17	1516.11	0.34	24.61	1244	1.21	2.68	10790.34	10.55	2.84	8529.35	3.05	0.00	7824.00	1.46	34.96
7	Mukane	453.00	0.65	302.75	1.06	0.00	302.75	0.62	0.00	303	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.30	0.51	
8	Waldevi	666.00	2.74	102.25	0.21	0.00	102.25	0.21	0.00	102	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.60	0.50	
9	N.M. Weir																				
	a) N.M.Express Canal	22906.00	98.29	588.00	55.79		0.00	53.47		2300	42.24		4749.00	50.98		4857.00	42.70		5492.00	35.01	
	b) Godavari canal	17278.00	89.48	21713.60	89.43		20260.13	80.05		14500	39.90		13507.71	57.12		14495.96	47.36		13026.00	23.41	
Total Darna Complex		**49821.00**	**238.45**	**31179.51**	**170.00**	**24.67**	**29331.62**	**175.86**	**25.36**	**23346.94**	**85.40**	**3.18**	**34592.92**	**143.94**	**3.34**	**33422.99**	**103.15**	**0.00**	**31560.44**	**74.84**	**34.96**

ANNEXURE-5

Information about Kharif utilizations from Major and Medium projects in Upper Godavari (upto Paithan dam) fig. in MCM

Inform

Sr. No.	Name of Dam/ System	Planned Kharif Use		2012-13			2013-14			2014-15			2015-16			2016-17			2017-18		
		Area irrigated (Ha.)	Water Use (Mm^3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
F	Palkhed Complex																				
1	Karanjwan	567.00	2.81	175.00	0.00	0.63	185.90	0.00	3.52	184.65	0.00	2.79	185.90	0.00	0.66	385.40	0.00	2.79	464.00	0.00	2.790
2	Waghad	2430.00	12.31	2258.60	0.00	0.43	2763.70	0.00	0.50	1244	0.00	0.50	2503.46	0.00	0.54	1829.27	0.00	0.08	1783.85	0.00	0.117
3	Palkhed	23380.00	78.60	11451.23	6.27	1.02	19657.13	52.45	1.02	15772.89	27.54	0.18	9998.90	1.03	0.71	14758.55	10.09	0.01	19093.00	26.98	4.340
	Total	**26377.00**	**93.72**	**13884.83**	**6.27**	**2.08**	**22606.73**	**52.45**	**5.04**	**17202**	**27.54**	**3.47**	**12688.26**	**1.03**	**1.91**	**16973.22**	**10.09**	**2.88**	**21340.85**	**26.98**	**7.25**
4	Punegaon	3509.00	2.64	304.65	0.00	0.12	297.60	0.00	0.32	301.10	0.27	0.03	199.80	0.00	0.00	344.85	3.10	0.00	348.90	1.86	0.000
5	Ozarkhed	4682.00	19.42	5759.00	0.00	0.09	6924.11	0.00	0.66	6637.87	0.00	0.14	6679.06	0.00	0.11	7096.38	5.52	0.45	6828.27	4.14	0.498
	Daraswadi (Water of Ozarkhed + Punegaon)		10.13		0.00			0.00			0.00			0.00			0.00		0.00	0.00	0.00
6	Tisgaon	622.00	2.83	0.00	0.00	0.01	0.00	0.00	0.07	0.00	0.00	0.00	78.80	0.00	0.00	81.60	1.28	0.00	87.70	0.00	0.000
Total Palkhed Complex		**35190.00**	**128.74**	**19948.48**	**6.27**	**2.29**	**29828.44**	**52.45**	**6.09**	**24141**	**27.82**	**3.64**	**19645.92**	**1.03**	**2.03**	**24496.05**	**19.99**	**3.33**	**28605.72**	**32.98**	**7.75**
Total CADA Nashik (A To F)		**213424.00**	**829.08**	**123175.85**	**378.56**	**27.25**	**142651.19**	**538.23**	**34.28**	**101646.11**	**246.14**	**7.56**	**81974.84**	**238.20**	**6.00**	**121900.97**	**332.44**	**4.52**	**125862.91**	**314.35**	**43.14**
G	**U/s of Jayakwadi**																				
1	**Tembhapuri**	**256.00**	**3.45**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**43.00**	**0.00**	**0.00**
2	**Dheku**	**1392.00**	**1.34**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**86.00**	**0.50**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
3	**Kohli**	**230.00**	**0.99**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
4	**Narangi**	**200.00**	**0.13**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
5	**Bor Dahegaon**	**320.00**	**2.07**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
6	**Ambadi**	**1073.00**	**7.13**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
7	**Shivana Takli**	**2284.00**	**10.33**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
	Total of G	**5755.00**	**16.85**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**86.00**	**0.50**	**0.00**	**0.00**	**0.00**	**0.00**	**43.00**	**0.00**	**0.00**
H	**Jayakwadi Project**																				

ANNEXURE-5

Information about Kharif utilizations from Major and Medium projects in Upper Godavari (upto Paithan dam) fig. in MCM **Inform**

Sr. No.	Name of Dam/ System	Planned Kharif Use		2012-13			2013-14			2014-15			2015-16			2016-17			2017-18		
		Area irrigated (Ha.)	Water Use (Mm^3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	Paithan Dam	138853.00	349.88	9899.00	32.71	0.00	7142.00	28.25	0.00	8748.00	144.96	0.00	6749.00	92.08	0.00	3464.00	33.28	0.00	12606.00	275.87	0.00
	Majalgaon Feeding	..	27.17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Note : water was released from upstream reservoirs for Jayakwadi in 2012-13 (249.78 MCM), 2014-15 (201.61 MCM), 2015-16 (294.49 MCM)

ANNEXURE-5

ation about Kharif utilizations from Major and Medium projects in Upper Godavari (upto Paithan dam) fig. in MCM

Sr. No.	Name of Dam/ System	2018-19			2019-20			2020-21			2021-22			2022-23			Average		
		Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)
1	2	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
A	Mula Complex																		
1	Mandohal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		83.00	0.00		40.00	1.00	0.00
2	Mula	58894.00	157.76	0.36	40551.00	131.75	0.44	16625.00	3.90	0.35	21897.00	3.77	0.33	24428.00	0.34	0.12	31455.00	75.00	1.00
Total Mula Complex		**58894.00**	**157.76**	**0.36**	**40551.00**	**131.75**	**0.44**	**16625.00**	**3.90**	**0.35**	**21897.00**	**3.77**	**0.33**	**24511.00**	**0.34**	**0.12**	**31495.00**	**75.00**	**1.00**
B	Pravara Complex																0.00	0.00	0.00
1	Bhandardara	19462.52	0.35		19837.70	1.68		20402.00	1.45		15598.00	11.21		18078.15	10.86		16654.00	10.00	1.00
2	Nilwande	2120.17	10.08		2222.24	10.58		2283.69	7.83		2333.70	7.83		2445.82	7.91		1130.00	6.00	1.00
3	Ozer Weir																0.00	0.00	0.00
	Pravara Canal	5542.68	61.48		6485.00	95.81		0.00	4.17		0.00	11.42		0.00	0.36		5838.00	62.00	0.00
	Total	**27125.37**	**71.91**	**0.00**	**28544.94**	**108.07**	**0.00**	**22685.69**	**13.45**	**0.00**	**17931.70**	**30.46**	**0.00**	**20523.97**	**19.13**	**0.00**	23621.00	77.00	1.00
4	Adhala	379.00	1.80		902.00	8.90		670.50	4.03		688.00	2.41		1992.65	10.87		509.00	3.00	1.00
5	Bhojapur+Flood cana	297.10	2.43		467			1281.00	4.92		680.00			365.80	1.90		**341.00**	**2.00**	**0.00**
Total Pravara Complex		**27801.47**	**76.15**	**0.00**	**29913.94**	**116.97**	**0.00**	**24637.19**	**22.40**	**0.00**	**19299.70**	**32.87**	**0.00**	**22882.42**	**31.90**	**0.00**	24471.00	81.00	1.00
C	Gangapur Complex																0.00	0.00	0.00
1	Gautami Godavari	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.84	0.00	0.00	1.00
2	Kashyapi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Gangapur	3831.28	6.10		2894	0.17		3040.00	0.87		3134.90	0.46		3017.20	0.00	0.00	4950.00	3.00	0.00
Total Gangapur Complex		**3831.28**	**6.10**	**0.00**	**2893.70**	**0.17**	**0.00**	**3040.00**	**0.87**	**0.00**	**3134.90**	**0.46**	**0.00**	**3017.20**	**0.00**	**1.84**	**4950.00**	**3.00**	**1.00**
E	Darna Complex																0.00	0.00	0.00
1	Alandi Dam	1440.04			1478			975.50			1421.70			1252.48			1595.00	0.00	1.00
2	Kadwa	4370.56	22.15	0.85	3661	12.26	0.54	3843.05	2.88	0.32	2899.20	1.27		2130.00	0.83		3640.00	14.00	1.00
3	Bham																0.00	0.00	0.00
4	Bhawali												0.01			0.01	0.00	0.00	1.00
5	Waki																0.00	0.00	0.00
6	Darna	8278.60	1.15	24.37	8239	1.07	24.87	8775.59	5.34	1.26	8453.57	3.62	5.07	8216.51	2.59	0.75	6763.00	3.00	14.00
7	Mukane	271.53	1.50		375	1.22	1.24	525.00	1.75		525.00	1.75		475.00	1.57	0.13	290.00	2.00	1.00
8	Waldevi	138.61	0.60		139	0.42		295.00	0.96		295.00	0.44		267.50	0.87		141.00	1.00	0.00
9	N.M. Weir																0.00	0.00	0.00
	a) N.M.Express Canal	12962.00	52.01		5342.00	15.13		842.00	0.00		1337.00	0.00		3081.00	0.00		3778.00	32.00	0.00
	b) Godavari canal	14083.01	31.28		14188	30.94		19390.69	0.61		10683.00			9400.72	1.54		15023.00	37.00	0.00
Total Darna Complex		**41544.35**	**108.68**	**25.22**	**33421.86**	**61.03**	**26.65**	**34646.83**	**11.53**	**1.58**	**25614.47**	**7.08**	**5.08**	**24823.21**	**7.39**	**0.89**	**31230.00**	**89.00**	**18.00**

ANNEXURE-5

ation about Kharif utilizations from Major and Medium projects in Upper Godavari (upto Paithan dam) fig. in MCM

Sr. No.	Name of Dam/ System	2018-19			2019-20			2020-21			2021-22			2022-23			Average		
		Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)
1	2	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
F	Palkhed Complex																		
1	Karanjwan	785.00	0.95	0.00	952.40	1.40	0.00	953.21	1.55	0.000	740.00	0.87	0.00	726.00	0.365	0.000	522.00	1.00	2.00
2	Waghad	2535.13	0.32	0.696	2169.10	0.15	0.73	2212.40	0.00	0.220	2190.00	0.82	0.00	2095.00	0.000	0.219	2145.00	1.00	1.00
3	Palkhed	19742.21	43.76	0.00	21173.74	29.64	0.01	14728.08	0.49	5.445	15667.74	0.10	3.81	15812.00	0.117	0.389	16169.00	19.00	2.00
	Total	**23062.34**	**45.04**	**0.70**	**24295.24**	**31.19**	**0.74**	**17893.69**	**2.04**	**5.67**	**18597.74**	**1.78**	**3.81**	**18633.00**	**0.48**	**0.61**	**18835.00**	**19.00**	**4.00**
4	Punegaon	805.35	0.90	0.00	327.42	0.00	0.00	318.52	3.326	0.000	323.02	0.00	0.00	323.74	0.000	0.000	355.00	1.00	1.00
5	Ozarkhed	9077.48	11.10	0.498	6846.14	5.28	0.42	6537.85	0.00	0.374	6515.78	0.00	0.34	6090.46	0.000	0.344	6818.00	3.00	1.00
	Daraswadi (Water of Ozarkhed + Punegaon)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Tisgaon	88.20	0.22	0.101	77.70	0.56	0.00	76.90	0.00	0.000	76.90	0.00	0.00	71.00	0.000	0.000	59.00	1.00	1.00
Total Palkhed Complex		**33033.37**	**57.25**	**1.30**	**31546.50**	**37.02**	**1.17**	**24826.96**	**5.37**	**6.04**	**25513.44**	**1.78**	**4.16**	**25118.20**	**0.48**	**0.95**	26064.00	23.00	4.00
Total CADA Nashik (A To F)		**165104.47**	**405.93**	**26.87**	**138327.00**	**346.95**	**28.26**	**103775.98**	**44.07**	**7.97**	**95459.51**	**45.95**	**9.57**	**100352.03**	**40.12**	**3.80**	**118210.00**	**271.00**	**25.00**
G	**U/s of Jayakwadi**																0.00	0.00	0.00
1	**Tembhapuri**	**32.00**	**0.00**	**0.00**	**31.00**	**0.00**	**0.00**	**91.00**	**0.00**	**0.00**	**90.00**	**0.16**	**0.00**	**780.00**	**0.00**	**0.00**	97.00	1.00	0.00
2	**Dheku**	**35.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**302.00**	**0.00**	**0.00**	39.00	1.00	0.00
3	**Kohli**	**23.00**	**0.00**	**0.00**	**40.00**	**0.00**	**0.00**	**60.00**	**0.00**	**0.00**	**102.00**	**0.00**	**0.00**	**212.00**	**0.00**	**0.00**	40.00	0.00	0.00
4	**Narangi**	**22.00**	**0.00**	**0.00**	**8.00**	**0.00**	**0.00**	**54.00**	**0.00**	**0.00**	**103.00**	**0.00**	**0.00**	**513.00**	**0.00**	**0.00**	64.00	0.00	0.00
5	**Bor Dahegaon**	**19.00**	**0.00**	**0.00**	**35.00**	**0.00**	**0.00**	**66.00**	**0.00**	**0.00**	**117.00**	**0.00**	**0.00**	**460.00**	**0.00**	**0.00**	64.00	0.00	0.00
6	**Ambadi**	**180.00**	**0.00**	**0.00**	**40.00**	**0.41**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**63.00**	**0.00**	**0.00**	26.00	1.00	0.00
7	**Shivana Takli**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	0.00	0.00	0.00
	Total of G	**311.00**	**0.00**	**0.00**	**154.00**	**0.41**	**0.00**	**271.00**	**0.00**	**0.00**	**412.00**	**0.16**	**0.00**	**2330.00**	**0.00**	**0.00**	**330.00**	**3.00**	**0.00**
H	**Jayakwadi Project**																		

ANNEXURE-5

ation about Kharif utilizations from Major and Medium projects in Upper Godavari (upto Paithan dam) fig. in MCM

Sr. No.	Name of Dam/ System	2018-19			2019-20			2020-21			2021-22			2022-23			Average		
		Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)
1	2	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	Paithan Dam	16918.00	306.58	0.00	9088.00	64.66	0.00	4379.00	41.00	0.00	2579.00	0.00	0.00	8332.00	26.40	0.00	7200.40	64.36	0.00
	Majalgaon Feeding	..	..	..	..	..	..	..	19.97	..	..	..	..	..	105.61	..	..	..	..

Note : water was re

(Er. Mahendra Amale)
S. E. & Administrator
C.A.D.A ,Nashik &
Member Secretary

(Er. Samadhan Sabbinwar)
Superintending Engineer& Administrtor,
CADA ,Chhatrapati Sambhaji Nagar.
Special Invitee Member.

(Er.Pramod Mandade)
Director General ,
Maharashtra Engineering Reasech
(MERI) ,Nashik. & Chairman

ANNEXURE -6

Information about Rabi utilizations from Major ,Medium Projects in Upper Godavari (upto Paithan dam) Sub Basin

Sr. No.	Name of Dam/ System	Planned Rabi Use		2012-13			2013-14			2014-15			2015-16			2016-17			2017-18		
		Area irrigated (Ha.)	Water Use (Mm^3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	**Mula Complex**																				
1	Mandohal	1427	7.41	237	0.00	-	579	4.48	-	277	0.00	-	0	0.00	-	857	4.26	0.498	841.50	4.45	
2	Mula	47668	400.60	41618	118.63	0.39	58206	193.74	0.49	62712	233.56	0.48	37990	132.03	0.66	62449	220.48	0.54	46905	132.72	0.67
	Total Mula Complex	**49095**	**408.01**	**41855**	**118.63**	**0.39**	**58785**	**198.23**	**0.49**	**62989**	**233.56**	**0.48**	**37990**	**132.03**	**0.66**	**63306**	**224.74**	**1.04**			
B	**Pravara Complex**																				
1	Bhandardara	**15235**	**139.80**	**15922**	**24.33**	**0.00**	**15881**	31.37	3.32	**15483**	21.73	0.02	**14120**	46.90	0.00	**18194**	94.42	0.80	21223.00	14.30	
2	Nilwande	**59900**	**185.26**	**0**	**0.00**		**0**	0.00		**36**	0.24		**40**	2.24		**64**	0.30		880.00	13.91	
3	Ozer Weir																				
	Pravara Canal			**8610**	**67.96**	**36.53**	**7224**	75.90	23.63	**8669**	66.62	0.00	**7793**	69.20	19.83	**6908**	97.32	15.18	5856.00	82.13	0.00
	Total	**75135**	**325.06**	**24532**	**92.29**	**36.53**	**23105**	**107.27**	**26.95**	**24188**	**88.59**	**0.02**	**21953**	**118.34**	**19.83**	**25166**	**192.04**	**15.98**	**27959.00**	**110.34**	**0.00**
4	Adhala	**3134**	**13.45**	**2734**	**13.37**	**-**	**3867**	18.91	-	**3121**	17.84	1.04	**3127**	19.60	0.82	**1720**	13.08	1.40	2092.55	10.89	0.00
5	Bhojapur+Flood canal	**2500**	**8.04**	**534**	**3.29**	**-**	**1046**	4.14	0.62	**1272**	6.43	-	**101**	0.00	-	**1601**	5.41	-	**1850**	**7.12**	
	Total Pravara Complex	**80769**	**346.55**	**27800**	**108.95**	**36.53**	**28018**	**130.32**	**27.57**	**28581**	**112.85**	**1.06**	**25181**	**137.94**	**20.65**	**28487**	**210.53**	**17.38**	**31901.80**	**128.35**	**0.00**
C	**Gangapur Complex**																				
1	Gautami Godavari	**0**	**0.00**	**295**	**1.21**	**-**	**309**	2.12	-	**469**	4.95	-	**157**	0.91	-	**470**	0.94	-	**492**	**4.33**	**6.03**
2	Kashyapi	**0**	**0.00**	**131**	**0.95**	**-**	**136**	1.33	-	**157**	1.40	-	**23**	0.17	-	**175**	0.92	-	**167**	**1.67**	**1.65**
3	Gangapur	**10374**	**116.21**	**12547**	**27.88**	**0.00**	**18646**	28.84	0.00	**15707**	22.59	0.00	**5624**	6.99	0.42	**6925**	24.37	0.03	**5750**	**22.99**	
Total Gangapur Complex		**10374.00**	**116.21**	**12973.22**	**30.03**	**0.00**	**19091.03**	**32.29**	**0.00**	**16332.85**	**28.94**	**0.00**	**5803.77**	**8.07**	**0.42**	**7569.64**	**26.23**	**0.03**	**6408.99**	**28.98**	**7.68**
E	**Darna System**																				
1	Alandi	4030	24.21	2715	9.66	0.89	2744	7.95	0.85	2744	7.68	0.83	2330	4.96	1.01	3001	8.45	1.65	2938	5.66	2.51
2	Kadwa	4603	35.61	5161	30.28	-	5222	37.12	-	5734	39.72	-	4903	21.77	0.64	5190	32.83	0.85	5419	27.71	0.39
3	Bham	0	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00			
4	Bhawali Dam	476	5.61	50	0.42	0.70	65	0.58	0.99	71	1.08	1.47	0	0.00	0.21	123	1.18	0.73	133	0.81	0.35
5	Waki	0	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00			
6	Darna Dam	0	0.00	3146	5.27	4.18	2764	8.24	2.74	5644	21.89	2.98	12830	5.08	3.12	12968	18.33	5.81	16273	19.33	6.71
7	Mukane Dam	204	1.16	740	2.25	0.00	676	2.66	0.14	744	4.85	0.00	180	0.94	0.00	843	5.71	0.33	751	5.02	
8	Waldevi Dam	815	5.84	477	1.45	0.00	441	2.15	0.39	450	1.76	0.00	254	1.75	1.92	447	3.05	1.68	789	3.24	
9	N.M. Weir																				
	a) N.M.Express Canal	19248	153.10	0	19.22	28.36	8130	63.38	11.56	4400	63.14	0.00	4525	23.88	11.48	14363	72.78	16.46	15854	57.95	
	b) Godavari canal	27441	207.45	19059	53.57	33.19	25322	115.61	6.15	20450	98.68	0.00	10762	20.82	4.91	19107	61.86	6.17	17063	60.96	
	Total Darna System	**56817.00**	**432.98**	**31347.53**	**122.11**	**67.32**	**45364.65**	**237.67**	**22.81**	**40237.19**	**238.79**	**5.27**	**35784.32**	**79.20**	**23.28**	**56041.59**	**204.18**	**33.67**	**59219.74**	**180.68**	**9.96**
F	**Palkhed Complex**																				
1	Karanjwan	1009	5.12	1358	4.70	1.32	1430	7.24	3.63	1430	4.76	2.67	288	0.53	1.00	1700	5.51	2.04	1487	5.237	1.628
2	Waghad	4320	26.90	4502	23.88	0.69	4109	21.42	0.66	5234	21.96	0.66	3321	11.04	0.50	4168	19.50	0.67	4179.58	15.561	0.729
3	Palkhed	20341	168.20	5402	8.26	2.99	17210	84.07	7.54	19168	100.36	0.27	6259	12.11	5.23	22300	83.27	11.24	21452.23	59.739	3.227
	Total	**25670**	**200.22**	**11262**	**36.83**	**5.00**	**22749**	**112.73**	**11.83**	**25832**	**127.07**	**3.60**	**9868**	**23.67**	**6.73**	**28169**	**108.27**	**13.95**	**27118.81**	**80.54**	**5.58**

ANNEXURE -6

Information about Rabi utilizations from Major ,Medium Projects in Upper Godavari (upto Paithan dam) Sub Basin

Sr. No.	Name of Dam/ System	Planned Rabi Use		2012-13			2013-14			2014-15			2015-16			2016-17			2017-18		
		Area irrigated (Ha.)	Water Use (Mm^3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
4	Punegaon	3475	16.34	1818	6.47	0.83	1389	8.42	0.43	1451	6.77	0.25	968	1.39	0.28	1485	7.00	0.32	1387.98	6.007	0.216
5	Ozarkhed	8323	41.68	1697	1.86	0.14	3342	16.23	0.13	2939	11.40	0.44	1683	1.55	0.44	3445	17.74	0.69	3827.36	14.401	0.652
	Ozarkhed + Punegaon)	0	0.00		0.00	-		0.00	-		0.00	-		0.00	-		0.00	-		0.00	
6	Tisgaon	1105	6.12	214	0.49	0.04	320	1.55	0.07	262	1.31	0.10	392	2.11	0.50	411	5.88	0.5	398	0.929	0.00
Total	**Palkhed Complex**	**38573**	**264.36**	**14991**	**45.65**	**6.00**	**27800**	**138.92**	**12.46**	**30483**	**146.55**	**4.39**	**12911**	**28.71**	**7.95**	**33510**	**138.89**	**15.46**	**32732.15**	**101.87**	**6.45**
	Total CADA Nashik	**235628.00**	**1568.11**	**128966.60**	**425.38**	**110.24**	**179058.18**	**737.44**	**63.33**	**178622.88**	**760.70**	**11.20**	**117670.51**	**385.95**	**52.96**	**188914.26**	**804.56**	**67.57**	**130262.68**	**439.89**	**24.09**
G	U/s of Jayakwadi																				
1	Tembhapuri	4528	12.75	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	813	5.42	0.00	573.00	0.00	0.00
2	Dheku	1370	8.42	79	0.65	0.00	0	0.00	0.00	0	0.00	0.00	702	2.36	0.00	1398	9.32	0.00	340.00	1.45	0.00
3	Kohli	231	1.10	64	0.55	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	476	3.17	0.00	78.00	0.00	0.00
4	Narangi	800	2.28	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	815	5.43	0.00	75.00	0.00	0.00
5	Bor Dahegaon	1280	7.38	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	1320	8.80	0.00	70.00	0.00	0.00
6	Ambadi	1009	2.78	0	0.00	0.00	714	5.08	0.00	46	0.22	0.00	0	0.00	0.00	1111	7.41	0.00	33.00	0.00	0.00
7	Shivana Takli	4105	32.69	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00
	Total of G	**13323**	**67.40**	**143**	**1**	**0**	**714**	**5**	**0**	**46**	**0**	**0**	**702**	**2**	**0**	**5933**	**39.55**	**0**	**1169.00**	**1.45**	**0.00**
H	**Jayakwadi Project**																				
1	**Paithan Dam**	**198009**	**1126.76**	**17762**	**109.99**	**0.00**	**48147**	**248.01**	**0.00**	**90366**	**477.94**	**0.00**	**19892**	**105.46**	**0.00**	**95953**	**510.61**	**0.00**	92586.00	663.19	0.00
	Majalgaon Feeding	**..**	**39.34**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**

Note : water was released from upstream reservoirs for Jayakwadi in 2012-13 (249.78 MCM), 2014-15 (201.61 MCM), 2015-16 (294.49 MCM)

ANNEXURE -6

Information about Rabi utilizations from Major ,Medium Projects in Upper Godavari (upto Paithan dam) Sub Basin

Sr. No.	Name of Dam/ System	2018-19			2019-20			2020-21			2021-22			2022-23			Average		
		Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)
1	2	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
A	**Mula Complex**																		
1	Mandohal	0.00	0.00	0.00	821.60	1.92		640.40	1.01		804.40	4.43		870.70	4.02		539.00	3.00	1.00
2	Mula	65874	174.54	0.69	59367	137.7	0.41	58528	130.06	0.59	53090	108.06	66	49853.81	137.22	0.76	54236.00	157.00	7.00
	Total Mula Complex																24085.00	83.00	1.00
B	**Pravara Complex**																0.00	0.00	0.00
1	Bhandardara	20151.50	2.46		21901.65	3.46		23165.40	3.33		19166.20	14.12		19204.08	15.12		18583.00	25.00	1.00
2	Nilwande	2224.47	14.83		2222.24	14.81		3009.44	15.70		3078.44	16.40		3288.98	15.70		1350.00	9.00	0.00
3	Ozer Weir																0.00	0.00	0.00
	Pravara Canal	7598.77	133.10		3530.00	39.74		2939.00	62.54		3008.55	59.95		2250.70	62.11		5854.00	75.00	9.00
	Total	**29974.74**	**150.39**	**0.00**	**27653.89**	**58.02**	**0.00**	**29113.84**	**81.56**	**0.00**	**25253.19**	**90.47**	**0.00**	**24743.76**	**92.93**	**0.00**	25786.00	108.00	10.00
4	Adhala	2283.00	9.82		1265.36	4.86		1143.54	3.83		1215.91	4.68		1826.24	6.19		2218.00	12.00	1.00
5	Bhojapur+Flood canal	**253**	2.03		**1133**	9.49		**1536**	9.34	0.73	**317**	0.14	0.15	**1425**	4.52	5.07	1007.00	5.00	1.00
	Total Pravara Complex	**32510.34**	**162.23**	**0.00**	**30052.35**	**72.37**	**0.00**	**31793.69**	**94.73**	**0.73**	**26785.60**	**95.29**	**0.15**	**27994.90**	**103.64**	**5.07**	**29011.00**	**125.00**	**12.00**
C	**Gangapur Complex**																#VALUE!	0.00	0.00
1	Gautami Godavari	**561**	2.92	3.80	**574**	1.12	2.07	**572**	3.21	2.74	**608**	1.76	5.82	512.41	0.56	4.54	457.00	3.00	3.00
2	Kashyapi	**200**	2.51	1.17	**223**	1.32	0.91	**221**	0.44		**283**	0.56	0.83	168.03	0.35	3.48	172.00	2.00	1.00
3	Gangapur	**6712**	28.21		**5904**	14.93	0.14	**6915**	14.00		**6713**	12.41		6348.40	12.77	6.96	8891.00	20.00	1.00
Total Gangapur Complex		**7471.88**	**33.65**	**4.97**	**6700.24**	**17.36**	**3.12**	**7707.50**	**17.65**	**2.74**	**7603.65**	**14.74**	**6.66**	**7028.84**	**13.68**	**14.97**	**9520.00**	**25.00**	**5.00**
E	**Darna System**																#VALUE!	0.00	0.00
1	Alandi	2869	9.30	4.30	2889	11.41	2.13	3089	6.71	1.34	2953	10.17	0.02	2,664.40	7.42	0.75	2813.00	9.00	2.00
2	Kadwa	5401	21.82	0.19	5036	14.76	2.08	5496	29.58	1.31	5008	27.58	0.36	5,232.00	21.96	0.09	0.09	0.09	0.09
3	Bham																0.00	0.00	0.00
4	Bhawali Dam	277	1.38		230	1.41	0.06	232	1.42		223	1.36		171.52	1.04	0.31	144.00	1.00	1.00
5	Waki																0.00	0.00	0.00
6	Darna Dam	12119	16.52	2.95	9199	15.61	8.99	91148	15.83	2.40	11858	15.43	3.26	12,218.82	10.89	6.50	17289.00	14.00	5.00
7	Mukane Dam	686	4.49	2.16	751	4.44	4.35	643	3.46	1.41	645	3.79	1.40	645.00	3.47	3.62	664.00	4.00	2.00
8	Waldevi Dam	683	3.44	4.96	715	3.34		686	2.61		639	2.32	0.33	583.60	2.83		561.00	3.00	1.00
9	N.M. Weir																0.00	0.00	0.00
	a) N.M.Express Canal	23151	56.07		10596	34.75		7589	33.15		22803	31.83		15943.00	22.00		11578.00	44.00	7.00
	b) Godavari canal	14964	68.40	6.60	13559	23.44		27098	10.33		15322	17.40		12719.54	9.00		17767.00	50.00	6.00
	Total Darna System	**60150.49**	**181.41**	**21.16**	**42974.49**	**109.16**	**17.60**	**135981.82**	**103.09**	**6.46**	**59450.80**	**109.89**	**5.37**	**50177.88**	**78.60**	**11.28**	**50816.09**	**125.09**	**24.09**
F	**Palkhed Complex**																0.00	0.00	0.00
1	Karanjwan	1278.1	3.42	0.312	1379	5.91	0.286	1555.1	7.625	0.000	1595	6.473	0.000	1513	10.465	0.00	1365.00	6.00	2.00
2	Waghad	4945.03	21.377	0.738	5431.27	15.546	2.137	6000.39	18.15	1.149	5620.13	13.595	0.326	5403.39	18.451	0.312	4811.00	19.00	1.00
3	Palkhed	17552.66	49.764	0.552	17393.73	31.162	0.496	18762.96	38.35	5.075	19628.65	39.936	4.055	18675.02	44.545	0.503	16710.00	51.00	4.00
	Total	**23775.79**	**74.56**	**1.60**	**24204.00**	**52.62**	**2.92**	**26318.45**	**64.13**	**6.22**	**26843.78**	**60.00**	**4.38**	**25591.41**	**73.46**	**0.82**	22885.00	74.00	6.00

ANNEXURE -6

Information about Rabi utilizations from Major ,Medium Projects in Upper Godavari (upto Paithan dam) Sub Basin

Sr. No.	Name of Dam/ System	2018-19			2019-20			2020-21			2021-22			2022-23			Average		
		Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)
1	2	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
4	Punegaon	1743.57	8.36	0.099	1380.85	4.32	0.135	1581.1	5.501	0.695	1442.7	4.385	0.000	1453.83	4.906	0.495	1464.00	6.00	1.00
5	Ozarkhed	5087.19	19.559	0.652	3074.09	9.277	0.59	3403.3	13.062	0.523	2693.39	5.848	0.438	3391.54	12.005	0.438	3144.00	12.00	1.00
	Ozarkhed + Punegaon)		0.00			0.00			0.00			0.00			0.00		0.00	0.00	0.00
6	Tisgaon	829.5	7.181	0.328	496.25	3.19	0.000	525.1	4.311	0.000	307.8	1.59	0.000	1279	4.595	0.00	495.00	4.00	1.00
Total	**Palkhed Complex**	**31436.05**	**109.66**	**2.68**	**29155.19**	**69.41**	**3.64**	**31827.95**	**87.00**	**7.44**	**31287.67**	**71.83**	**4.82**	**31715.78**	**94.97**	**1.75**	27987.00	94.00	7.00
	Total CADA Nashik	**131568.76**	**486.95**	**28.81**	**108882.27**	**268.30**	**24.36**	**207310.96**	**302.47**	**17.37**	**125127.72**	**291.74**	**17.00**	**116917.40**	**290.89**	**33.07**	**141419.09**	**452.09**	**49.09**
G	U/s of Jayakwadi																0.00	0.00	0.00
1	Tembhapuri	173.00	0.00	0.00	40.00	0.00	0.00	545.00	1.79	0.00	**505.00**	2.00	0.00	1438.00	3.84	0.00	372.00	2.00	0.00
2	Dheku	60.00	0.00	0.00	529.00	1.72	0.00	576.00	2.50	0.00	920.00	2.57	0.00	1301.00	0.85	0.00	537.00	2.00	0.00
3	Kohli	107.00	0.00	0.00	153.00	0.87	0.00	155.00	0.00	0.00	305.00	0.13	0.00	247.00	0.14	0.00	145.00	1.00	0.00
4	Narangi	145.00	0.00	0.00	24.00	0.00	0.00	281.00	0.00	0.00	302.00	0.00	0.00	608.00	0.39	0.00	205.00	1.00	0.00
5	Bor Dahegaon	103.00	0.00	0.00	19.00	0.00	0.00	176.00	0.00	0.00	247.00	0.52	0.00	764.00	0.16	0.00	246.00	1.00	0.00
6	Ambadi	200.00	0.00	0.00	245.00	1.28	0.00	316.00	3.05	0.00	698.00	3.18	0.00	598.00	1.93	0.00	361.00	3.00	0.00
7	Shivana Takli	0.00	0.00	0.00	389.00	2.72	0.00	1502.00	7.69	0.00	1200.00	8.50	0.80	0.00	0.00	0.00	281.00	2.00	1.00
	Total of G	**788.00**	**0.00**	**0.00**	**1399.00**	**6.59**	**0.00**	**3551.00**	**15.03**	**0**	**4177.00**	**16.89**	**0.80**	**4956**	**7.30**	**0**	**2147.00**	12.00	1.00
H	**Jayakwadi Project**																0.00	0.00	0.00
1	**Paithan Dam**	66391.00	508.64	0.00	65813.00	314.93	0.00	64634.00	400.82	0	67282.00	342.06	0	68088.00	453.941	0	63356.00	376.00	0.00
	Majalgaon Feeding	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Note : water was releas

(Er. Mahendra Amale)
S. E. & Administrator
C.A.D.A ,Nashik &
Member Secretary

(Er. Samadhan Sabbinwar)
Superintending Engineer& Administrtor,
CADA ,Chhatrapati Sambhaji Nagar.
Special Invitee Member.

(Er.Pramod Mandade)
Director General ,
Maharashtra Engineering Reasech Institute
(MERI) ,Nashik. & Chairman

ANNEXURE -7

Information about Hot Weather utilizations from Major & Medium Projects in Upper Godavari (upto Paithan dam) sub-basin fig. in MCM

Sr. No.	Name of Dam/ System	Planned H.W. Use		2012-13			2013-14			2014-15			2015-16			2016-17		
		Area irrigated (Ha.)	Water Use	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
A	**Mula Complex**																	
1	Mandohal	0.00	0.00	0	0.00	-	281	2.33	-	0	0.00	-	0	0.00	-	232	2.25	0.31
2	Mula	0.00	0.00	4384	1.27	0.29	50345	212.76	0.37	22461	146.86	0.30	1386	9.10	0.28	49041	296.51	0.314
	Total Mula Complex	**0.00**	**0.00**	**4384**	**1.27**	**0.29**	**50626**	**215.09**	**0.37**	**22461**	**146.86**	**0.30**	**1386**	**9.10**	**0.28**	**49273**	**298.76**	**0.63**
B	**Pravara Complex**																	
1	Bhandardara	**6072.00**	**164.30**	4949	36.81	0.00	6830	9.17	1.58	7433	30.05	0.00	3199	0.00	0.00	10875	16.97	0.43
2	Nilwande	**0.00**	**0.00**	0	0.00		0	0.00		0	0.00		0	0.00		0	2.05	
3	Ozer Weir																	
	Pravara Canal			6728	60.72	35.65	6668	98.64	42.04	6540	120.73	31.10	0	0.00	0.00	6783	144.66	43.68
	Total	**6072.00**	**164.30**	**11677**	**97.53**	**35.65**	**13498**	**107.81**	**43.62**	**13973**	**150.78**	**31.10**	**3199**	**0.00**	**0.00**	**17658**	**163.68**	**44.12**
4	Adhala	**1354.00**	**8.98**	0	2.92	-	0	2.68	-	430	2.62	0.40	0	1.09	0.42	599	6.46	0.78
5	Bhojapur+Flood canal	**0.00**	**0.00**	0	0.00	-	25	0.00	-	42	0.00	-	42	0.00	-	102	0.00	-
	Total Pravara Complex	**7426.00**	**173.28**	**11677**	**100.45**	**35.65**	**13523**	**110.48**	**43.62**	**14445**	**153.40**	**31.50**	**3241**	**1.09**	**0.42**	**18359**	**170.14**	**44.90**
C	Gangapur Complex																	
1	Gautami Godavari	**0.00**	**0.00**	0	0.00	-	0	0.00	-	0	0.00	-	0	0.00	-	0	0.00	1.27
2	Kashyapi	**0.00**	**0.00**	0	0.00	-	0	0.00	-	0	0.00	-	0	0.00	-	0	0.00	-
3	Gangapur	**4150.00**	**73.36**	2955	9.21	0.12	7595	19.02	1.58	5411	14.79	2.25	3216	4.42	0.00	4105	20.09	0.11
Total Gangapur Complex		**4150.00**	**73.36**	**2955.22**	**9.21**	**0.12**	**7595.20**	**19.02**	**1.58**	**5410.80**	**14.79**	**2.25**	**3216.16**	**4.42**	**0.00**	**4104.77**	**20.09**	**1.38**
E	**Darna Complex**																	
4	Alandi	**0.00**	**0.00**	2640	8.78	0.35	2452	9.57	0.67	2266	9.68	0.69	2329	8.22	1.13	2685	10.89	1.18
1	Kadwa	**202.00**	**3.67**	0	5.15	-	149	0.51	-	0	0.00	-	56	0.08	-	80	1.44	0.99
1	Bham	**0.00**	**0.00**	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
2	Bhawali	**49.00**	**1.95**	0	0.00	0.25	0	0.00	0.99	0	0.00	0.55	0	0.00	0.38	0	0.00	0.69
3	Waki	**0.00**	**0.00**	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
4	Darna	**0.00**	**0.00**	909	0.00	0.06	1441	2.64	1.00	774	0.09	0.74	2507	0.00	1.81	3933	2.34	0.65
5	Mukane	**0.00**	**0.43**	295	0.92	0.00	100	0.39	0.12	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
6	Waldevi	**0.00**	**0.00**	225	0.50	0.00	239	1.12	1.20	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
7	N.M. Weir																	
	a) N.M.Express Canal	**1706.00**	**65.33**	0	9.16	27.53	1311	38.20	14.79	1800	21.29	30.67	0	0.00	9.91	255	29.50	39.87
	b) Godavari canal	**4743.00**	**65.52**	2442	1.23	0.22	5993	36.27	10.51	4383	20.66	14.83	894	0.08	0.00	4904	73.02	21.18
	Total Darna Complex	**6700.00**	**136.90**	**6511.46**	**25.74**	**28.40**	**11685.63**	**88.70**	**29.29**	**9223.08**	**51.72**	**47.49**	**5786.15**	**8.38**	**13.22**	**11857.56**	**117.18**	**64.56**
E	**Palkhed Complex**																	
1	Karanjwan	**0.00**	**0.00**	318	1.38	0.64	430	1.44	0.79	431	1.63	0.50	262	0.57	0.23	409	1.03	0.52
2	Waghad	**0.00**	**0.00**	3137	13.16	0.42	3207	14.09	0.35	2876	15.32	0.28	557	0.48	0.32	3110	13.24	0.37
3	Palkhed	**450.00**	**4.93**	2543	4.32	1.43	3299	4.78	0.98	3325	5.26	1.27	1568	1.82	0.51	4853	5.67	1.25
	Total	**450.00**	**4.93**	**5998**	**18.86**	**2.48**	**6936**	**20.31**	**2.12**	**6632**	**22.20**	**2.04**	**2387**	**2.87**	**1.06**	**8372**	**19.94**	**2.14**

ANNEXURE -7

Information about Hot Weather utilizations from Major & Medium Projects in Upper Godavari (upto Paithan dam) sub-basin fig. in MCM

Sr. No.	Name of Dam/ System	Planned H.W. Use		2012-13			2013-14			2014-15			2015-16			2016-17		
		Area irrigated (Ha.)	Water Use	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
4	Punegaon	0.00	0.00	1105	4.22	0.16	1471	6.99	0.14	1443	6.43	-	759	1.81	0.14	1544	8.33	0.03
5	Ozarkhed	0.00	0.00	216	0.00	0.06	2955	17.30	0.73	2720	17.38	0.32	719	3.56	0.24	3141	24.13	0.26
	Daraswadi Pohoch kalwa (Water from Punegaon)				0.00	-		0.00	-		0.00	-		0.00	-		0.00	-
6	Tisgaon	0.00	0.00	160	0.37	-	351	1.97	0.15	422	2.14	0.41	705	2.13	0.47	440	3.29	0.33
Total Palkhed Complex		**450.00**	**4.93**	**7479**	**23.44**	**2.70**	**11713**	**46.56**	**3.13**	**11216**	**48.15**	**2.78**	**4569**	**10.37**	**1.91**	**13497**	**55.69**	**2.76**
	Total CADA Nashik	**18726.00**	**388.47**	**33006.71**	**160.11**	**67.15**	**95142.67**	**479.86**	**77.99**	**62756.10**	**414.92**	**84.32**	**18198.47**	**33.36**	**15.83**	**97091.60**	**661.87**	**114.21**
G	**U/s of Jayakwadi**																	
1	Tembhapuri	**0**	**0**	0	0.00	0	0	0	0	0	0	0	0	0	0	260	1.3	0
2	Dheku	**0**	**0**	0	0.00	0	0	0	0	0	0	0	50	0.35	0	0	0	0
3	Kohli	**10**	**0.31**	0	0.00	0	0	0	0	0	0	0	0	0	0	50	0.25	0
4	Narangi	**0**	**0**	0	0.00	0	0	0	0	0	0	0	0	0	0	64	0.32	0
5	Bor Dahegaon	**0**	**0**	0	0.00	0	0	0	0	0	0	0	0	0	0	83	0.42	0
6	Ambadi	**0**	**0**	0	0.00	0	0	0	0	0	0	0	0	0	0	60	0.3	0
7	Shivana Takli	**0**	**0**	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total of G	**10.00**	**0.31**	**0**	**0.00**	**0.00**	**0**	**0.00**	**0.00**	**0**	**0.00**	**0.00**	**50**	**0.35**	**0.00**	**517**	**2.59**	**0.00**
H	**Jayakwadi Project**																	
1	**Paithan Dam**	**25914.00**	**324.83**	**14096**	**62.86**	**0.00**	**27375**	**136.57**	**0.00**	**32012**	**142.79**	**0.00**	**11920**	**48.46**	**0.00**	**50011**	**480.22**	**0.00**
	Majalgaon Feeding	**..**	**232.91**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**	**..**

Note : water was released from upstream reservoirs for Jayakwadi in 2012-13 (249.78 MCM), 2014-15 (201.61 MCM), 2015-16 (294.49 MCM)

ANNEXURE -7

Information about Hot Weather utilizations from Major & Medium Projects in Upper Godavari (upto Paithan dam) sub-basin fig. in MCM

Sr. No.	Name of Dam/ System	2017-18			2018-19			2019-20			2020-21			2021-22			2022-23			Average		
		Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)
1	2	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
A	**Mula Complex**																					
1	Mandohal	455.70	2.47		0.00	0.00	0.00	436.20	3.21		713.03	5.60		662.60	4.08		411.00	2.92		291.00	3.00	1.00
2	Mula	55,790.000	336.375	0.410	4,987.000	7.135	0.450	63,435	345.507	0.291	54,085.90	320.713	0.386	55,006.60	317.74	0.400	50,697.11	309.032	0.043	0.043	0.043	0.043
	Total Mula Complex	**56245.70**	**338.84**	**0.41**	**4987.00**	**7.14**	**0.45**	**63871.20**	**348.72**	**0.29**	**54798.93**	**326.31**	**0.39**	**55669.20**	**321.82**	**0.40**	**51108.11**	**311.95**	**0.04**	37711.00	212.00	1.00
B	**Pravara Complex**																			0.00	0.00	0.00
1	Bhandardara	12421.00	13.75		13356.33	1.42		15760.00	2.19		17399.00	2.79	0.00	15093.00	17.22	0.00	15462.17	17.39	2.03	11162.00	14.00	1.00
2	Nilwande	571.00	5.19		1028.00	9.34		1345.90	12.24		1839.66	11.88	0.00	1906.22	11.88	0.00	2130.85	13.45		802.00	7.00	0.00
3	Ozer Weir																			0.00	0.00	0.00
	Pravara Canal	7129.00	170.26	0.00	3925.00	44.97		4970.00	135.99		4130.00	148.44		3507.15	116.91		3308.90	130.23		4881.00	107.00	14.00
	Total	**20121.00**	**189.19**	**0.00**	**18309.33**	**55.73**	**0.00**	**22075.90**	**150.42**	**0.00**	**23368.66**	**163.10**	**0.00**	**20506.37**	**146.01**	**0.00**	**20901.92**	**161.07**	**2.03**	16845.00	126.00	15.00
4	Adhala	1372.07	10.55	0.00	299.00	1.62		1526.55	12.35		1433.99	10.15		1327.80	9.78		1311.87	7.50		755.00	7.00	1.00
5	Bhojapur+Flood canal	70		0.69	66		3.45	75	1.05	0.92	80	0.53	1.16	104		1.04	-	-	0.54	56.00	1.00	1.00
	Total Pravara Complex	**21563.07**	**199.74**	**0.69**	**18674.33**	**57.35**	**3.45**	**23677.45**	**163.82**	**0.92**	**24882.65**	**173.79**	**1.16**	**21938.17**	**155.79**	**1.04**	**22213.79**	**168.57**	**2.57**	17655.00	133.00	16.00
C	Gangapur Complex																					
1	Gautami Godavari		0.00	3.38			4.47	115	1.06	2.78	103	0.32	1.93	103	0.59		47.49	0.33	3.75	34.00	1.00	2.00
2	Kashyapi			2.20			2.87	31	0.43	0.62		0.23		41	0.56	1.00	10.00	0.32	4.22	8.00	1.00	1.00
3	Gangapur	3838	18.83		3041	9.20		4159	16.40	0.87	3816	12.93		4482	16.46		3801.81	13.89	9.85	4220.00	15.00	2.00
Total Gangapur Complex		**3838.38**	**18.83**	**5.58**	**3040.85**	**9.20**	**7.34**	**4305.28**	**17.89**	**4.27**	**3918.44**	**13.47**	**1.93**	**4625.25**	**17.61**	**1.00**	**3859.30**	**14.54**	**17.82**	**4262.00**	**17.00**	**5.00**
E	**Darna Complex**																			0.00	0.00	0.00
4	Alandi	2611	10.49	1.71	2553	8.00	1.79	2558	10.07	3.77	2450	8.26	2.37	2447	11.86	1.17	2,254.62	11.59	0.55	2477.00	10.00	2.00
1	Kadwa	241	1.82	1.27	160	2.67	2.35	3436	11.46	0.95	475	1.09	0.00	395	2.40	0.13	305.00	6.57	0.15	482.00	4.00	1.00
1	Bham																			0.00	0.00	0.00
2	Bhawali	38	0.27	0.74				43	0.32		92	0.67		83	0.61		81.68	0.59	0.05	31.00	1.00	1.00
3	Waki																			0.00	0.00	0.00
4	Darna	4381	7.31	2.43	2773		1.50	4882	8.44	0.96	4969	8.83	0.01	4973	9.03		4,540.20	7.34	1.04	3281.00	5.00	1.00
5	Mukane	350	1.00					562	4.22	1.64	486	1.86	0.30	449	2.08	0.91	455.00	2.11	0.87	246.00	2.00	1.00
6	Waldevi	200	1.43				2.96	235	1.54		245	2.54		245	3.64		245.00	1.32	0.00	149.00	2.00	1.00
7	N.M. Weir																			0.00	0.00	0.00
	a) N.M.Express Canal	9225	39.95		2104	5.45		5638	54.25		7774	61.37		25567	71.16		14174.00	70.78		6168.00	37.00	12.00
	b) Godavari canal	7052	84.45		941	16.57		5983	94.46		14849	90.44		8088	67.56		7835.63	86.94		5761.00	52.00	5.00
	Total Darna Complex	**24097.74**	**146.71**	**6.14**	**8531.00**	**32.69**	**8.60**	**23336.75**	**184.76**	**7.32**	**31339.08**	**175.06**	**2.68**	**42248.32**	**168.32**	**2.22**	**29891.13**	**187.24**	**2.67**	**18595.00**	**113.00**	**24.00**
E	**Palkhed Complex**																		**s**	0.00	0.00	########
1	Karanjwan	405	1.149	0.522	230	1.236	0.057	211	1.16	0.040	310	2.16	0.000	698	3.968	0.000	627	2.133	0.00	394.00	2.00	1.00
2	Waghad	3599.55	17.234	0.625	3536.19	13.146	0.234	3294.79	14.707	0.574	3674.2	14.202	0.682	3942.15	17.685	0.240	3649.86	13.033	0.348	3144.00	14.00	1.00
3	Palkhed	3784.36	3.564	0.00	3974.55	5.467	0.250	9440.79	40.765	0.000	8919.55	41.204	0.690	11183.4	38.756	0.668	10108.7	27.995	0.00	5728.00	17.00	1.00
	Total	**7788.91**	**21.95**	**1.15**	**7740.74**	**19.85**	**0.54**	**12946.58**	**56.63**	**0.61**	**12903.75**	**57.57**	**1.37**	**15823.55**	**60.41**	**0.91**	**14385.56**	**43.16**	**0.35**	9265.00	32.00	2.00

ANNEXURE -7

Information about Hot Weather utilizations from Major & Medium Projects in Upper Godavari (upto Paithan dam) sub-basin fig. in MCM

Sr. No.	Name of Dam/ System	2017-18			2018-19			2019-20			2020-21			2021-22			2022-23			Average		
		Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)	Area irrigated (Ha.)	Water Use (Mm^3)	Losses (Mm3)
1	**2**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
4	Punegaon	1553.22	7.706	0.088	1292.09	7.276	0.010	1509.26	7.715	0.000	1469.79	6.328	0.460	1546.34	7.272	0.000	1376.44	6.384	0.220	1370.00	7.00	1.00
5	Ozarkhed	4157.28	26.21	0.192	2350.56	14.512	0.140	3573.54	15.119	0.322	3703.49	14.716	0.336	4515.22	18.148	0.256	4255	18.718	0.196	2937.00	16.00	1.00
	Daraswadi Pohoch kalwa		0.00			0.00			0.00			0.00			0.00			0.00		0.00	0.00	0.00
6	Tisgaon	508.9	4.502	0.00	476.05	3.155	0.146	770	7.326	0.000	795.31	6.319	0.000	870	9.506	0.000	981.8	5.940	0.000	590.00	5.00	1.00
Total Palkhed Complex		**14008.31**	**60.37**	**1.43**	**11859.44**	**44.79**	**0.84**	**18799.38**	**86.79**	**0.94**	**18872.34**	**84.93**	**2.17**	**22755.11**	**95.34**	**1.16**	**20998.80**	**74.20**	**0.76**	**14161.00**	**58.00**	**2.00**
	Total CADA Nashik	**119753.20**	**764.49**	**14.24**	**47092.62**	**151.17**	**20.68**	**133990.06**	**801.97**	**13.74**	**133811.44**	**773.56**	**8.33**	**147236.05**	**758.88**	**5.83**	**128071.13**	**756.50**	**23.87**	**92384.00**	**533.00**	**48.00**
G	**U/s of Jayakwadi**																			0.00	0.00	0.00
1	Tembhapuri	196	0	0	25	0	0	0	0	0	462	1.08	0	2005	6.637	0	1620	6.93	0	416.00	2.00	0.00
2	Dheku	0	0.4	0	0	0	0	283	0.8	0	267	0.75	0	249	0.45	0	442	0.3	0	118.00	1.00	0.00
3	Kohli	70	0	0	3	0	0	0	0	0	169	0.63	0	388	1.064	0	174	0.225	0	78.00	1.00	0.00
4	Narangi	93	0	0	3	0	0	0	0	0	162	0.286	0	252	1.575	0	547	1.2	0	102.00	1.00	0.00
5	Bor Dahegaon	121	0	0	2	0	0	0	0	0	179	0.2	0	204	0.746	0	213	0.291	0	73.00	1.00	0.00
6	Ambadi	1	0	0	11	0	0	65	0.408	0	95	0.534	0	172	1.192	0	149	0.496	0	51.00	1.00	0.00
7	Shivana Takli	0	0	0	55	0	0	0	0	0	2195	8.082	0	1000	7.1	2.8	0	0	0	296.00	2.00	1.00
	Total of G	**481.00**	**0.40**	**0.00**	**99.00**	**0.00**	**0.00**	**348.00**	**1.21**	**0.00**	**3529.00**	**11.56**	**0.00**	**4270.00**	**18.76**	**2.80**	**3145.00**	**9.44**	**0.00**	**1131.00**	**5.00**	**1.00**
H	**Jayakwadi Project**																			0.00	0.00	0.00
1	**Paithan Dam**	**84870.00**	**732.38**	**0.00**	**35917.00**	**106.37**	**0.00**	**67231.00**	**641.88**	**0.00**	**73683.00**	**651.16**	**0.00**	**94817.00**	**641.24**	**0**	**92051**	**674.81**	**0**	53090.00	393.00	0.00
	Majalgaon Feeding																			..	..	..

Note : water was releas

(Er. Mahendra Amale)
S. E. & Administrator
C.A.D.A ,Nashik &
Member Secretary

(Er. Samadhan Sabbinwar)
Superintending Engineer& Administrtor,
CADA ,Chhatrapati Sambhaji Nagar.
Special Invitee Member.

(Er.Pramod Mandade)
Director General ,
Maharashtra Engineering Reasech
(MERI) ,Nashik. & Chairman

Statement - 1

Statement Showing Live Storage Below & Above Crest of Spillway in Various Gated Upstream Dams of Upper Godavari (up to Paithan dam) Sub Basin

Sr. No.	Name of dam	Type of overflow section	Design Live storage in Mcum	Revised live storage (Excluding silt as per survey) in Mcum	Live storage below crest of spillway (Excluding silt as per survey) in Mcum	Live storage above crest of spillway (Excluding silt as per survey) in Mcum	% of live storage below crest level of spillawy (Excluding silt as per survey) in Mcum	Mandatory live storage	
								Percentage	Storage in Mcum
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
1	Mula	Gated	608.81	546.91	243.24	303.67	45	54	295.33
2	Bhandardara	Gated	304.10	307.61	184.69	122.92	60	54	166.11
3	Nilwande	Gated	228.75	228.75	178.01	50.74	78	54	123.53
4	Gauatami	Gated	52.90	46.13	36.83	9.30	80	54	24.91
5	Kashyapi	Gated	51.75	59.06	43.18	15.88	73	54	31.89
6	Gangapur	Gated	203.88	159.42	78.54	80.88	49	54	86.09
7	Kadwa	Gated	52.90	50.59	15.82	34.77	31	54	27.32
8	Darna	Gated	219.82	188.66	91.69	96.97	49	54	101.88
9	Mukane	Gated	204.98	198.39	105.97	92.42	53	54	107.13
10	Karanjwan	Gated	166.22	152.00	79.13	72.87	52	54	82.08
11	Punegaon	Gated	17.57	16.64	4.10	12.54	25	54	8.99
12	Palkhed	Gated	21.24	18.49	2.74	15.75	15	54	9.98
13	Waki	Gated	70.57	70.57	46.86	23.71	66	54	38.11
		Total	**2203.49**	**2043.22**	**1110.80**	**932.42**	**54**	**54**	**1103.34**
	Jayakwadi	Gated	2171.94	1991.98	60.64	1931.34	3	NA	NA

(Er. Mahendra Amale)
S. E. & Administrator
C.A.D.A ,Nashik &
Member Secretary

(Er. Samadhan Sabbinwar)
S.E.& Administrtor,
CADA ,Ch. Sambhaji Nagar.
Special Invitee Member.

(Er.Pramod Mandade)
Chairman Godavari Study Group-II
& Director General, D.T.H.R.S (MERI)
Nashik

Statement - 2

Statement Showing Non Irrigation Use from Major & Medium Projects in Upper Godavari (up to Paithan dam) sub-basin

(All Figures in Mm^3)

Sr. No.	Name of Dam	NI Provision in Project Report	Domestic Use		Industrial Use		Total	
			Sanctioned (Active)	Actual 2022-23	Sanctioned (Active)	Actual 2022-23	Sanctioned (Active)	Actual 2022-23
1	2	3	4	5	7	8	10	11
1	Mandohal	0.00	1.23	1.34	0.00	0.00	1.23	1.34
2	Mula	59.12	86.07	57.19	7.29	3.71	93.36	60.90
3	Bhandardara	0.00	45.19	90.46	23.12	5.01	68.31	95.47
4	Nilwande	0.00	13.15	11.54	0.00	0.00	13.15	11.54
5	Adhala	0.00	1.82	1.11	0.00	0.00	1.82	1.11
6	Bhojapur	2.57	3.04	15.91	0.00	0.00	3.04	15.91
7	Gautami	0.00	49.20	1.21	0.05	0.01	49.25	1.22
8	Kashyapi	33.98	31.15	0.00	0.00	0.00	31.15	0.00
9	Gangapur	2.83	77.23	151.01	59.37	14.15	136.60	165.16
10	Alandi	0.00	1.07	0.00	0.21	0.12	1.28	0.12
11	Kadwa	0.60	18.70	15.55	0.00	0.00	18.70	15.55
12	Bham	0.00	0.81	0.00	0.00	0.00	0.81	0.00
13	Bhavali	0.00	18.78	0.01	0.00	0.12	18.78	0.13
14	Waki	9.12	0.00	0.00	0.00	0.00	0.00	0.00
15	Mukane	71.81	73.11	56.54	2.77	5.55	75.88	62.09
16	Darna	0.00	93.65	132.93	8.07	13.40	101.72	146.33
17	Waldevi	12.18	0.14	2.50	12.19	5.43	12.33	7.93
18	Karanjwan	0.00	1.57	0.31	1.30	0.36	2.87	0.67
19	Ozarkhed	1.27	9.87	8.65	1.09	0.50	10.96	9.15
20	Waghad	0.00	1.30	0.30	0.78	0.00	2.08	0.30
21	Punegaon	0.00	0.39	0.34	0.00	0.00	0.39	0.34
22	Palkhed	19.35	40.30	107.18	6.78	2.84	47.08	110.02
23	Tisgaon	0.00	1.94	0.15	0.00	0.00	1.94	0.15
	Sub-Total (1 - 23)	**212.83**	**569.71**	**654.22**	**123.01**	**51.21**	692.73	705.43

Statement - 2

Statement Showing Non Irrigation Use from Major & Medium Projects in Upper Godavari (up to Paithan dam) sub-basin

(All Figures in Mm^3)

Sr. No.	Name of Dam	NI Provision in Project Report	Domestic Use		Industrial Use		Total	
			Sanctioned (Active)	Actual 2022-23	Sanctioned (Active)	Actual 2022-23	Sanctioned (Active)	Actual 2022-23
1	2	3	4	5	7	8	10	11
24	Tembhapuri	0.56	2.14	0.89	0.00	0.00	2,14	0.89
25	Dheku	0.00	1.59	0.52	0.00	0.00	1.59	0.52
26	Kohli	0.00	0.00	0.65	0.00	0.00	0.00	0.65
27	Narangi	5.30	4.30	0.56	0.00	0.00	4.30	0.56
28	Bor Dahegaon	0.23	1.15	0.13	0.00	0.00	1.15	0.13
29	Ambadi	2.50	3.48	2.02	0.11	0.10	3.59	2,12
30	Shivana Takli	3.79	3.69	0.13	0.00	0.00	3.69	0.13
	Sub-Total (24 - 30)	12.38	**16.35**	**4.90**	**0.11**	**0.10**	16.46	4.90
31	**Paithan Dam**	**0.00**	**401.90**	**75.03**	**117.27**	**41.82**	519.17	116.85
	Grand Total	**225.21**	**987.96**	**734.16**	**240.39**	**93.13**	1228.36	827.18

(Er. Mahendra Amale)
S. E. & Administrator
C.A.D.A ,Nashik &
Member Secretary

(Er. Samadhan Sabbinwar)
S.E.& Administrtor,
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Special Invitee Member.

(Er.Pramod Mandade)
Chairman Godavari Study Group-II
& Director General, D.T.H.R.S (MERI)
Nashik

Annual Observed Net Yield Series at Paithan Dam
for the Period from 1975 to 2022

Sr. No.	Year	Annual Yield (Mm^3)	Year	Annual Yield in Decending Order (Mm^3)	Dependable Yield		
					Depend-ability	Yield (Mm^3)	Year
1	2	3	4	5	6	7	8
1	1975	4296.07	2006	7658.18			
2	1976	7283.82	1976	7283.82			
3	1977	2198.86	2022	6426			
4	1978	974.63	2005	4727.63			
5	1979	3201.87	1975	4296.07			
6	1980	3303.82	1994	4084.38			
7	1981	3007.86	1990	3701.66			
8	1982	1162.88	1991	3606.95			
9	1983	3090.99	2019	3469			
10	1984	1376.88	2020	3451			
11	1985	515.25	1980	3303.82			
12	1986	638.88	1979	3201.87			
13	1987	706.99	1983	3090.99			
14	1988	2334.90	2008	3046.28			
15	1989	1753.44	1981	3007.86			
16	1990	3701.66	2021	2925			
17	1991	3606.95	2007	2657.04			
18	1992	843.13	1998	2645.62			
19	1993	844.21	2017	2465.23			
20	1994	4084.38	2004	2354.52			
21	1995	339.54	1988	2334.9			
22	1996	1115.16	2016	2199.74			
23	1997	1267.69	1977	2198.86			
24	1998	2645.62	1999	1920.09	**50%**	**1753.44**	**1989**
25	1999	1920.09	1989	1753.44			
26	2000	855.64	1984	1376.88			
27	2001	580.38	2010	1345.05			
28	2002	541.45	1997	1267.69			
29	2003	566.96	1982	1162.88			
30	2004	2354.52	2011	1135.53			
31	2005	4727.63	1996	1115.16			
32	2006	7658.18	2014	1071.74			
33	2007	2657.04	1978	974.63			
34	2008	3046.28	2013	949.69			
35	2009	388.15	2000	855.64			
36	2010	1345.05	1993	844.21	**75%**	**844.21**	**1993**
37	2011	1135.53	1992	843.13			
38	2012	174.27	2018	778.04			
39	2013	949.69	1987	706.99			

Annual Observed Net Yield Series at Paithan Dam
for the Period from 1975 to 2022

Sr. No.	Year	Annual Yield (Mm^3)	Year	Annual Yield in Decending Order (Mm^3)	Dependable Yield		
					Depend-ability	Yield (Mm^3)	Year
40	2014	1071.74	1986	638.88			
41	2015	309.22	2001	580.38			
42	2016	2199.74	2003	566.96			
43	2017	2465.23	2002	541.45	**90%**	**541.45**	**2002**
44	2018	778.04	1985	515.25			
45	2019	3469.01	2009	388.15			
46	2020	3451.49	1995	339.54			
47	2021	2924.84	2015	309.22			
48	2022	6426.32	2012	174.27	**100%**	**174.27**	**2012**
	Average	**2170.13**		**2198.86**	**Average**	**2198.86**	**1977**

टिप : सन 2018-22 साठी महामंडळात उपलब्ध होणारा 15/10 च्या पाणीसाठ्यातील आवक गृहित धरण्यात आलेली आहे.

(Er. Mahendra Amale)
S. E. & Administrator
C.A.D.A ,Nashik &
Member Secretary

(Er. Samadhan Sabbinwar)
S.E.& Administrtor,CADA
Ch. Sambhaji Nagar.
Special Invitee Member.

(Er.Pramod Mandade)
Chairman Godavari Study Group-II
& Director General, D.T.H.R.S (MERI)
Nashik

Statement - 4

Statement Showing Observed Yeild & Corresponding Spills at Dependable Year of Jayakwadi Project

(All figures in Mm^3)

Sr. No.	Name of Dam / Complex	Yield					Spills				
		2012-13	2002-03	1993-94	1977-78	2017-18	2012-13	2002-03	1993-94	1977-78	2017-18
		100% Dependable Year	90% Dependable Year	75% Dependable Year	Average Yield Year	Good Year	100% Dependable Year	90% Dependable Year	75% Dependable Year	Average Yield Year	Good Year
1	**2**	**4**	**3**	**5**	**6**	**7**	**9**	**8**	**10**	**11**	**12**
1	Mula	530.17	473.78	641.51	705.07	850.47	0.00	0.00	1.22	29.15	33.36
2	Ozer Weir	546.12	578.17	708.80	970.94	957.97	2.51	47.06	104.63	242.57	329.39
3	Gangapur	261.62	222.46	369.44	245.53	495.75	0.00	0.00	48.40	0.00	236.34
4	Palkhed	262.86	286.00	262.32	0.00	627.28	5.66	0.00	4.27	0.00	205.76
5	N. M. Weir	931.91	866.49	1908.91	1939.03	2683.91	249.38	0.00	934.05	1107.92	1879.64
6	Paithan Dam	174.27	541.45	844.21	2198.86	2465.23	0.00	0.00	0.00	0.00	300.00

(Er. Mahendra Amale)
S. E. & Administrator
C.A.D.A ,Nashik &
Member Secretary

(Er. Samadhan Sabbinwar)
S.E.& Administrtor,
CADA ,Ch. Sambhaji Nagar.
Special Invitee Member.

(Er.Pramod Mandade)
Chairman Godavari Study Group-II
& Director General, D.T.H.R.S (MERI)
Nashik

Statement - 5

Statement Showing the Live Storage and Design Water Utilisation of Irrigation Projects in Upper Godavari (up to Paithan dam) Sub Basin

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Design Live Storage				Effective Live Storage After Silt Survey If Any	Design Water Use			
		Major	Medium	Minor	Total		Major	Medium	Minor	Total
1	2	3	4	5	6	7	7	8	9	10
A	**Mula System**									
1	Mandohal		8.78		**8.78**	5.68		13.15		**13.15**
2	Mula	608.45			**608.45**	546.55	704.61			**704.61**
	U.S.Mula									
3	M.I.& KTW.(State) (38 Nos.)			82.96	**82.96**	82.96			91.79	**91.79**
4	MI,KT,PT,ST ...(Local Sector - 97)			25.79	**25.79**	25.79			25.79	**25.79**
	Total of A	**608.45**	**8.78**	**108.75**	**725.98**	**660.98**	**704.61**	**13.15**	**117.58**	**835.34**
B	**Pravara System**									
1	Bhandardara	304.10			**304.10**	307.61	33.97			**33.97**
2	Nilwande	228.75			**228.75**	228.75	326.06			**326.06**
3	Adhala		27.61		**27.61**	21.97		38.73		**38.73**
4	Bhojapur + Flood Canals		10.22		**10.22**	9.86		20.30		**20.30**
5	Ozar weir (Pravara Canal)				**0.00**	0.00	421.90			**421.90**
	U.S.Ozer Weir									
6	M.I.(State) 5 Nos			17.21	**17.21**	17.21			16.90	**16.90**
7	MI,KT,PT,ST ...(Local Sector - 27)			6.84	**6.84**	6.84			6.84	**6.84**
	Total of B	**532.85**	**37.83**	**24.05**	**594.73**	**592.24**	**781.93**	**59.03**	**23.74**	**864.70**

Statement - 5

Statement Showing the Live Storage and Design Water Utilisation of Irrigation Projects in Upper Godavari (up to Paithan dam) Sub Basin

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Design Live Storage				Effective Live Storage After Silt Survey If Any	Design Water Use			
		Major	Medium	Minor	Total		Major	Medium	Minor	Total
1	2	3	4	5	6	7	7	8	9	10
C	**Gangapur System**									
1	Gauatami		52.90		**52.90**	46.13		0.00		**0.00**
2	Kashyapi		51.75		**51.75**	59.06		33.98		**33.98**
3	Gangapur	203.88			**203.88**	159.42	231.82			**231.82**
	U.S.Gangapur									
4	M.I.(State) (5 Nos.)			15.33	**15.33**	15.33			16.40	**16.40**
5	MI,KT,PT,ST...(Local Sector -19)			11.61	**11.61**	11.61			11.61	**11.61**
	Total of C	**203.88**	**104.65**	**26.94**	**335.47**	**291.55**	**231.82**	**33.98**	**28.01**	**293.81**
E	**Darna System**									
1	Alandi		27.47		**27.47**	23.85		40.67		**40.67**
2	Kadwa	52.90			**52.90**	50.59	80.70			**80.70**
3	Bham	69.76			**69.76**	69.76	10.18			**10.18**
4	Bhavali	40.79			**40.79**	40.79	17.06			**17.06**
5	Waki	70.57			**70.57**	70.57	18.16			**18.16**
6	Darna	219.82			**219.82**	188.66	56.91			**56.91**
7	Mukane	204.98			**204.98**	198.39	105.00			**105.00**
8	Waldevi		32.09		**32.09**	32.09		25.76		**25.76**

Statement - 5

Statement Showing the Live Storage and Design Water Utilisation of Irrigation Projects in Upper Godavari (up to Paithan dam) Sub Basin

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Design Live Storage				Effective Live Storage After Silt Survey If Any	Design Water Use			
		Major	Medium	Minor	Total		Major	Medium	Minor	Total
1	2	3	4	5	6	7	7	8	9	10
9	N.M.Weir									
	(A)NM Express Canal				**0.00**	0.00	317.37			**317.37**
	(B) Godavari canals				**0.00**	0.00	362.45			**362.45**
	U.S.of Darna									
9	MI (State)-- 6 nos			13.77	**13.77**	13.77			15.09	**15.09**
10	MI,KT,PT,ST...(Local Sector -18)			4.93	**4.93**	4.93			4.93	**4.93**
	Total of E	**658.82**	**59.56**	**18.70**	**737.08**	**693.40**	**967.83**	**66.43**	**20.02**	**1054.28**
F	**Palkhed System**									
1	Karanjwan	166.22			**166.22**	152.00	24.92			**24.92**
2	Waghad	72.23			**72.23**	64.95	46.29			**46.29**
3	Punegaon	17.57			**17.57**	16.64	21.22			**21.22**
4	Ozarkhed (including C.A. of Punegaon)	60.32			**60.32**	56.69	79.59			**79.59**
	Daraswadi (Water from Ozarkhed & Punegaon)				**0.00**		10.13			**10.13**
5	Palkhed	21.24			**21.24**	18.49	283.06			**283.06**
6	Tisgaon	12.87			**12.87**	10.78	3.20			**3.20**
	U.S.of Palkhed									
7	M.I.(State) (9 Nos.)			20.77	**20.77**	20.77			20.77	**20.77**
8	MI,KT,PT,ST...(Local Sector -59)			15.90	**15.90**	15.90			15.90	**15.90**
	Total of F	**350.45**	**0.00**	**36.67**	**387.12**	**356.22**	**468.41**	**0.00**	**36.67**	**505.08**

Statement - 5

Statement Showing the Live Storage and Design Water Utilisation of Irrigation Projects in Upper Godavari (up to Paithan dam) Sub Basin

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Design Live Storage				Effective Live Storage After Silt Survey If Any	Design Water Use			
		Major	Medium	Minor	Total		Major	Medium	Minor	Total
1	2	3	4	5	6	7	7	8	9	10
G	**Remaining Upto Paithan**									
1	**Below Mula**									
	M.I.& KTW.(State) (13 Nos.)			16.83	**16.83**	16.83			18.99	**18.99**
	MI,KT,PT,ST...(Local Sector -17)			5.80	**5.80**	5.80			5.80	**5.80**
2	**Below N M Weir**									
	M.I.& KTW.(State) (25 Nos.)			78.43	**78.43**	78.43			80.20	**80.20**
	MI,KT,PT,ST...(Local Sector -138)			36.61	**36.61**	36.61			36.61	**36.61**
3	**Below Ozar weir**									
	M.I.& KTW.(State) (16 Nos.)			32.62	**32.62**	32.62			34.56	**34.56**
	MI,KT,PT,ST...(Local Sector -33)			9.48	**9.48**	9.48			9.48	**9.48**
	Total of G	**0.00**	**0.00**	**179.77**	**179.77**	**179.77**	**0.00**	**0.00**	**185.64**	**185.64**
H	**U/s of Jayakwadi**									
1	Tembhapuri		19.61		**19.61**	19.61		22.13		**22.13**
2	Dheku		12.17		**12.17**	12.17		13.00		**13.00**
3	Kohli		3.24		**3.24**	3.24		3.10		**3.10**
4	Narangi		11.50		**11.50**	11.50		13.30		**13.30**
5	Bor Dahegaon		11.47		**11.47**	11.47		15.10		**15.10**
6	Ambadi		9.42		**9.42**	9.42		12.78		**12.78**

Statement - 5

Statement Showing the Live Storage and Design Water Utilisation of Irrigation Projects in Upper Godavari (up to Paithan dam) Sub Basin

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Design Live Storage				Effective Live Storage After Silt Survey If Any	Design Water Use			
		Major	Medium	Minor	Total		Major	Medium	Minor	Total
1	2	3	4	5	6	7	7	8	9	10
7	Shivana Takli		36.45		**36.45**	36.45		45.58		**45.58**
8	M. I. Projects (45 No.)			99.69	**99.69**	99.69			108.46	**108.46**
9	MI,KT,PT,ST...(Local Sector -93)			28.25	**28.25**	28.25			28.25	**28.25**
	Total of H	**0.00**	**103.86**	**127.94**	**231.80**	**231.80**	**0.00**	**124.99**	**136.71**	**261.70**
	Total of A to H	**2354.45**	**314.68**	**522.82**	**3191.95**	**3005.96**	**3154.60**	**297.58**	**548.37**	**4000.55**
J	**Paithan Dam (Including LIS on Backwater)**	2170.94			**2170.94**	**1991.98**	2618.21			**2618.21**

(Er. Mahendra Amale)
S. E. & Administrator
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Special Invitee Member.

(Er.Pramod Mandade)
Chairman Godavari Study Group-II
& Director General, D.T.H.R.S (MERI)
Nashik

Statement - 6

Statement Showing water planning in Upper Godavari (up to Paithan dam) Sub Basin considering 100% dependable year (2012-13)

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Gated / Ungated	Yield in Year 2012	Spills	Design Live Storage (Excluding Silt as per Survey)	Mandatory Live Storage Below Crest	Domestic Use (87.19% Allocation)	Industrial Use (82.92% Allocation)	Kharif Use (80% Allocation)	Rabi Use (0% Allocation)	H. W. Use (0% Allocation)	Evaporation	Total Use (Col 8 to 13) Restricted to Yield	Balance Yeild After Total Use (Col 4 - Col 14)	Balance Water available for Jayakwadi (Col 15 or [Col 4-7] which ever is less)
Ref	Annexure Ref.	Anx 1 Col 12	CADA Nashik Mar 2019		Anx 1 Col 10	Anx 1 Col 14	Anx 4 Col 4 X 0..8719	Anx 4 Col 7 X 0.8292	Anx 3 Col 22 X 0.8	Anx 3 Col 23 X 0.0	Anx 3 Col 24 X 0.0				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	**Mula System**														
1	Mandohol	Ungated	2.55		5.68	5.68	1.07	0.00	3.09	0.00	0.00	0.23	4.39		
2	Mula	Gated	527.62	0.00	546.55	243.24	75.04	6.04	126.64	0.00	0.00	51.51	259.24		
	Total of A		**530.17**	**0.00**	**552.23**	**248.92**	**76.12**	**6.04**	**129.73**	**0.00**	**0.00**	**51.74**	**263.63**	**266.54**	**266.54**
B	**Pravara System**														
1	Bhandardara	Gated	310.51		307.61	176.14	39.40	19.17	78.98	0.00	0.00	18.04	155.60		
2	Nilwande	Gated	123.28		228.75	178.01	11.47	0.00	98.26	0.00	0.00	12.60	122.32		
3	Adhala	Ungated	17.39		21.97	21.97	1.59	0.00	10.02	0.00	0.00	0.00	11.60		
4	Bhojapur	Ungated	12.99		9.86	9.86	2.65	0.00	6.48	0.00	0.00	1.32	10.45		
5	Ozar weir	Ungated	81.95	2.51											
	Total of B		**546.12**	**2.51**	**568.19**	**385.98**	**55.10**	**19.17**	**193.74**	**0.00**	**0.00**	**31.96**	**299.97**	**246.15**	**160.14**
C	**Gangapur System**														
1	Gauatami	Gated	46.13		46.13	36.83	42.90	0.04	0.00	0.00	0.00	0.00	42.94		
2	Kashyapi	Gated	57.79		59.06	43.18	27.16	0.00	0.00	0.00	0.00	0.00	27.16		
3	Gangapur	Gated	157.70		159.42	78.54	67.34	49.23	2.54	0.00	0.00	18.33	137.43		
	Total of C		**261.62**	**0.00**	**264.61**	**158.55**	**137.39**	**49.27**	**2.54**	**0.00**	**0.00**	**18.33**	**207.53**	**54.09**	**54.09**
D	**Palkhed System**														
1	Karanjwan	Gated	94.44		152.00	79.13	1.37	1.08	1.43	0.00	0.00	9.73	13.61		
2	Waghad	Ungated	73.19		64.95	64.95	1.13	0.65	9.33	0.00	0.00	5.30	16.41		
3	Punegaon	Gated	17.97		16.64	4.10	0.34	0.00	2.07	0.00	0.00	1.31	3.72		
4	Ozarkhed	Ungated	21.77		56.69	56.69	8.61	0.90	13.07	0.00	0.00	6.73	29.31		
5	Tisgaon	Ungated	2.21		10.78	10.78	1.69	0.00	1.78	0.00	0.00	0.60	4.07		
6	Daraswadi (Water of Ozarkhed + Punegaon)						0.00		8.10	0.00	0.00		8.10		
7	Palkhed	Gated	53.28		18.49	2.74	35.14	5.62	55.95	0.00	0.00	8.10	104.81		
	Total of D		**262.86**	**5.66**	**319.55**	**218.39**	**48.28**	**8.25**	**91.74**	**0.00**	**0.00**	**31.77**	**180.03**	**82.83**	**44.47**

Statement - 6

Statement Showing water planning in Upper Godavari (up to Paithan dam) Sub Basin considering 100% dependable year (2012-13)

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Gated / Ungated	Yield in Year 2012	Spills	Design Live Storage (Excluding Silt as per Survey)	Mandatory Live Storage Below Crest	Domestic Use (87.19% Allocation)	Industrial Use (82.92% Allocation)	Kharif Use (80% Allocation)	Rabi Use (0% Allocation)	H. W. Use (0% Allocation)	Evaporation	Total Use (Col 8 to 13) Restricted to Yield	Balance Yeild After Total Use (Col 4 - Col 14)	Balance Water available for Jayakwadi (Col 15 or [Col 4-7] which ever is less)
Ref	Annexure Ref.	Anx 1 Col 12	CADA Nashik Mar 2019		Anx 1 Col 10	Anx 1 Col 14	Anx 4 Col 4 X 0..8719	Anx 4 Col 7 X 0.8292	Anx 3 Col 22 X 0.8	Anx 3 Col 23 X 0.0	Anx 3 Col 24 X 0.0				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	**Darna System**														
1	Alandi	Ungated	28.00		23.85	23.10	0.93	0.17	10.52	0.00	0.00	2.84	14.47		
2	Kadwa	Gated	80.78		50.59	15.82	16.30	0.00	18.10	0.00	0.00	10.28	44.68		
3	Bham	Ungated			69.76	69.76	0.71	0.00	0.00	0.00	0.00	6.62	7.33		
4	Bhavali	Ungated	39.78		40.79	40.79	16.37	0.00	2.10	0.00	0.00	4.30	22.78		
5	Waki	Gated			70.57	46.86	0.00	0.00	0.00	0.00	0.00	5.91	5.91		
6	Darna	Gated	215.43		188.66	91.69	81.65	6.69	0.00	0.00	0.00	26.38	114.72		
7	Mukane	Gated	107.71		198.39	105.97	63.74	2.30	0.43	0.00	0.00	24.72	91.19		
8	Waldevi	Ungated	31.81		32.09	32.06	0.12	10.11	1.84	0.00	0.00	5.00	17.07		
9	N.M.Weir		249.38												
	(A) NM Express Canal		55.79				0.00	0.00	63.49	0.00	0.00		63.49		
	(B) Godavari canals		123.23				0.00	0.00	59.98	0.00	0.00		59.98		
	Total of E		**931.91**	**249.38**	**674.70**	**426.05**	**179.84**	**19.28**	**156.46**	**0.00**	**0.00**	**86.05**	**441.62**	**490.29**	**490.29**
	Total A to E		**2532.68**		**2379.28**	**1437.89**	**496.73**	**102.01**	**574.20**	**0.00**	**0.00**	**219.85**	**1392.79**	**1139.89**	**1015.53**
Spills (Mula + Ozar Weir + N. M. Weir)				**251.89**											**763.64**
F	U/s of Jayakwadi														
1	Tembhapuri	Ungated	**0.00**	**0.00**	**19.61**	**19.61**	1.86	**0.00**	**2.50**	**0.00**	**0.00**	**0.00**	4.36	**-4.36**	**0.00**
2	Dheku	Ungated	**4.86**	**0.00**	**12.17**	**12.17**	1.38	**0.00**	**0.90**	**0.00**	**0.00**	**3.24**	5.52	**-0.66**	**0.00**
3	Kohli	Ungated	**0.00**	**0.00**	**3.24**	**3.24**	0.00	**0.00**	**0.79**	**0.00**	**0.00**	**0.00**	0.79	**-0.79**	**0.00**
4	Narangi	Gated	**0.00**	**0.00**	**11.50**	**0.00**	3.75	**0.00**	**0.11**	**0.00**	**0.00**	**0.00**	3.86	**-3.86**	**0.00**
5	Bor Dahegaon	Gated	**0.00**	**0.00**	**11.47**	**1.44**	1.00	**0.00**	**1.50**	**0.00**	**0.00**	**0.00**	2.50	**-2.50**	**0.00**
6	Ambadi	Ungated	**3.45**	**0.00**	**9.42**	**9.42**	3.04	**0.09**	**1.90**	**0.00**	**0.00**	**2.85**	7.88	**-4.42**	**0.00**
7	Shivana Takli	Gated	**23.12**	**0.00**	**36.45**	**2.26**	3.22	**0.00**	**2.68**	**0.00**	**0.00**	**3.39**	9.29	**13.83**	**13.83**
	Total of F		**31.43**	**0.00**	**103.86**	**48.14**	**14.25**	**0.09**	**10.37**	**0.00**	**0.00**	**9.48**	34.19	**-2.76**	**13.83**
	Total A to F		**2564.11**	**0.00**	**2483.14**	**1486.03**	**510.98**	**102.10**	**584.57**	**0.00**	**0.00**	**229.33**	1426.98	**1137.13**	**1078.08**

Statement - 6

Statement Showing water planning in Upper Godavari (up to Paithan dam) Sub Basin considering 100% dependable year (2012-13)

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Gated / Ungated	Yield in Year 2012	Spills	Design Live Storage (Excluding Silt as per Survey)	Mandatory Live Storage Below Crest	Domestic Use (87.19% Allocation)	Industrial Use (82.92% Allocation)	Kharif Use (80% Allocation)	Rabi Use (0% Allocation)	H. W. Use (0% Allocation)	Evaporation	Total Use (Col 8 to 13) Restricted to Yield	Balance Yeild After Total Use (Col 4 - Col 14)	Balance Water available for Jayakwadi (Col 15 or [Col 4-7] which ever is less)
Ref	Annexure Ref.	Anx 1 Col 12	CADA Nashik Mar 2019		Anx 1 Col 10	Anx 1 Col 14	Anx 4 Col 4 X 0..8719	Anx 4 Col 7 X 0.8292	Anx 3 Col 22 X 0.8	Anx 3 Col 23 X 0.0	Anx 3 Col 24 X 0.0				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Balance water available in Upper Complexes for equitable distribution after monsoon															
F	**Paithan Dam**	Gated	174.27	0.00	1991.98	60.64	350.42	97.24	283.89	0.00	0.00	206.71	938.26	-763.99	**-763.99**

Equitable Allocations :

1) In 100% dependable year, the available water scenario indicates that there is no adequate water to satisfy all design demands. Thus, following allocations are proposed;

Domestic : 87.19% of Sanctioned Use

Industry : 82.92% of Sanctioned Use (It is expected that minimum 10% demand shall be satisfied by recycling the domestic waste water).

Kharif : 80% of Planned Kharif Water Use (It is expected that water shall be used economically to give benefits to planned area in Kharif). , Rabi : NIL. , H.W. : NIL.

2) All complexes satisfy above mentioned allocations.

(Er. Mahendra Amale)
S. E. & Administrator
C.A.D.A ,Nashik &
Member Secretary

(Er. Samadhan Sabbinwar)
Superintending Engineer& Administrtor,
CADA ,Chhatrapati Sambhaji Nagar.
Special Invitee Member.

(Er.Pramod Mandade)
Chairman Godavari Study Group-II
& Director General, D.T.H.R.S (MERI)
Nashik

Statement - 7

Statement Showing water planning in Upper Godavari (up to Paithan dam) Sub Basin considering 90% dependable year (2002-2003)

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Gated / Ungated	Yield in Year 2002	Spills	Design Live Storage (Excluding Silt as per Survey)	Mandatory Live Storage Below Crest	Domestic Use (87.19% Allocation)	Industrial Use (82.92% Allocation)	Kharif Use (80% Allocation)	Rabi Use (32% Allocation)	H. W. Use (0% Allocation)	Evaporation	Total Use (Col 8 to 13) Restricted to Yield	Balance Yeild After Total Use (Col 4 - Col 14)	Balance Water available for Jayakwadi (Col 15 or [Col 4-7] which ever is less)
Ref	Annexure Ref.	Anx 1 Col 12	CADA Nashik Mar 2019		Anx 1 Col 10	Anx 1 Col 14	Anx 4 Col 4 X 0.8719	Anx 4 Col 7 X 0.8292	Anx 3 Col 22 X 0.8	Anx 3 Col 23 X 0.3	Anx 3 Col 24 X 0.0				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	**Mula System**														
1	Mandohol	Ungated	2.46	0.00	5.68	5.68	1.07	0.00	3.09	2.12	0.00	1.32	7.60		
2	Mula	Gated	469.32	0.00	546.55	243.24	75.04	6.04	126.64	120.48	0.00	36.03	364.24		
	Total of A		**471.78**	**0.00**	**552.23**	**248.92**	**76.12**	**6.04**	**129.73**	**122.60**	**0.00**	**37.35**	**371.84**	**99.94**	**99.94**
B	**Pravara System**														
1	Bhandardara	Gated	364.68		307.61	176.14	39.40	19.17	78.98	37.49	0.00	25.05	200.10		
2	Nilwande	Gated			228.75	178.01	11.47	0.00	98.26	56.80	0.00	12.60	179.12		
3	Adhala	Ungated	23.67		21.97	21.97	1.59	0.00	10.02	4.08	0.00	4.86	17.30		
4	Bhojapur	Ungated	12.62		9.86	9.86	2.65	0.00	6.48	2.50	0.00	1.60	13.23		
5	Ozar weir	Ungated	177.20	47.06											
	Total of B		**578.17**	**47.06**	**568.19**	**385.98**	**55.10**	**19.17**	**193.74**	**100.87**	**0.00**	**44.11**	**409.75**	**168.42**	**168.42**
C	**Gangapur System**														
1	Gauatami	Gated			46.13	36.83	42.90	0.04	0.00	0.00	0.00	1.10	44.04		
2	Kashyapi	Gated			59.06	43.18	27.16	0.00	0.00	0.00	0.00	2.43	29.59		
3	Gangapur	Gated	222.46		159.42	78.54	67.34	49.23	2.54	5.46	0.00	15.86	140.41		
	Total of C		**222.46**	**0.00**	**264.61**	**158.55**	**137.39**	**49.27**	**2.54**	**5.46**	**0.00**	**19.39**	**214.04**	**8.42**	**8.42**
D	**Palkhed System**														
1	Karanjwan	Gated	152.51	0.00	152.00	79.13	1.37	1.08	1.43	1.05	0.00	11.65	16.58		
2	Waghad	Ungated	72.01		64.95	64.95	1.13	0.65	9.33	8.15	0.00	9.41	28.66		
3	Punegaon	Gated	15.49		16.64	4.10	0.34	0.00	2.07	5.12	0.00	2.78	10.31		
4	Ozarkhed	Ungated	44.15		56.69	56.69	8.61	0.90	13.07	11.22	0.00	3.73	37.53		
5	Tisgaon	Ungated	6.63		10.78	10.78	1.69	0.00	1.78	1.53	0.00	0.06	5.06		
6	Daraswadi (Punegaon)						0.00		8.10	0.00	0.00		8.10		
7	Palkhed	Gated	17.33	0.00	18.49	2.74	35.14	5.62	55.95	47.89	0.00	6.63	151.24		
	Total of D		**286.00**	**0.00**	**319.55**	**218.39**	**48.28**	**8.25**	**91.74**	**74.97**	**0.00**	**34.25**	**257.48**	**28.52**	**28.52**

Statement - 7

Statement Showing water planning in Upper Godavari (up to Paithan dam) Sub Basin considering 90% dependable year (2002-2003)

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Gated / Ungated	Yield in Year 2002	Spills	Design Live Storage (Excluding Silt as per Survey)	Mandatory Live Storage Below Crest	Domestic Use (87.19% Allocation)	Industrial Use (82.92% Allocation)	Kharif Use (80% Allocation)	Rabi Use (32% Allocation)	H. W. Use (0% Allocation)	Evaporation	Total Use (Col 8 to 13) Restricted to Yield	Balance Yeild After Total Use (Col 4 - Col 14)	Balance Water available for Jayakwadi (Col 15 or [Col 4-7] which ever is less)
Ref	Annexure Ref.	Anx 1 Col 12	CADA Nashik Mar 2019		Anx 1 Col 10	Anx 1 Col 14	Anx 4 Col 4 X 0.8719	Anx 4 Col 7 X 0.8292	Anx 3 Col 22 X 0.8	Anx 3 Col 23 X 0.3	Anx 3 Col 24 X 0.0				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	**Darna System**														
1	Alandi	Ungated	26.69		23.85	23.10	0.93	0.17	10.52	7.48	0.00	5.22	24.33		
2	Kadwa	Gated			50.59	15.82	16.30	0.00	18.10	8.44	0.00	5.55	48.39		
3	Bham	Ungated			69.76	69.76	0.71	0.00	0.00	0.00	0.00	2.22	2.93		
4	Bhavali	Ungated			40.79	40.79	16.37	0.00	2.10	1.50	0.00	1.11	21.10		
5	Waki	Gated			70.57	46.86	0.00	0.00	0.00	0.00	0.00	5.91	5.91		
6	Darna	Gated	293.57		188.66	91.69	81.65	6.69	0.00	0.00	0.00	16.55	104.89		
7	Mukane	Gated			198.39	105.97	63.74	2.30	0.43	0.31	0.00	10.81	77.59		
8	Waldevi	Ungated			32.09	32.06	0.12	10.11	1.84	1.56	0.00	5.90	19.53		
9	N.M.Weir		382.25							0.00					
	(A)NM Express Canal						0.00	0.00	63.49	45.73	0.00		109.22		
	(B) Godavari canals		**163.98**				0.00	0.00	59.98	55.62	0.00		115.60		
	Total of E		**866.49**	**0.00**	**674.70**	**426.05**	**179.84**	**19.28**	**156.46**	**120.66**	**0.00**	**53.26**	**529.49**	**337.00**	**337.00**
	Total A to E		**2424.90**	**47.06**	**2379.28**	**1437.89**	**496.73**	**102.01**	**574.20**	**424.55**	**0.00**	**188.35**	**1782.60**	**642.30**	**642.30**
Spills (Mula + Ozar Weir + N. M. Weir)				**47.06**											
F	U/s of Jayakwadi														
1	Tembhapuri	Ungated	**0.00**	**0.00**	**19.61**	**19.61**	1.86	**0.00**	**2.50**	**3.68**	**0.00**	**5.36**	13.40	**-13.40**	**-19.61**
2	Dheku	Ungated	**3.84**	**0.00**	**12.17**	**12.17**	1.38	**0.00**	**0.90**	**2.26**	**0.00**	**3.24**	7.78	**-3.94**	**-8.33**
3	Kohli	Ungated	**0.00**	**0.00**	**3.24**	**3.24**	0.00	**0.00**	**0.79**	**0.35**	**0.00**	**0.00**	1.14	**-1.14**	**-3.24**
4	Narangi	Gated	**0.00**	**0.00**	**11.50**	**0.00**	3.75	**0.00**	**0.11**	**0.73**	**0.00**	**0.00**	4.59	**-4.59**	**-4.59**
5	Bor Dahegaon	Gated	**0.00**	**0.00**	**11.47**	**1.44**	1.00	**0.00**	**1.50**	**2.13**	**0.00**	**0.00**	4.63	**-4.63**	**-4.63**
6	Ambadi	Ungated	**11.77**	**0.00**	**9.42**	**9.42**	3.04	**0.09**	**1.90**	**1.02**	**0.00**	**2.85**	8.89	**2.88**	**2.35**
7	Shivana Takli	Gated	**0.00**	**0.00**	**36.45**	**2.26**	3.22	**0.00**	**2.68**	**9.98**	**0.00**	**0.00**	15.87	**-15.87**	**-15.87**
	Total of F		**15.61**		**103.86**	**48.14**	**14.25**	**0.09**	**10.37**	**20.15**	**0.00**	**11.45**	**56.31**	**-40.70**	**-40.70**

Statement - 7

Statement Showing water planning in Upper Godavari (up to Paithan dam) Sub Basin considering 90% dependable year (2002-2003)

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Gated / Ungated	Yield in Year 2002	Spills	Design Live Storage (Excluding Silt as per Survey)	Mandatory Live Storage Below Crest	Domestic Use (87.19% Allocation)	Industrial Use (82.92% Allocation)	Kharif Use (80% Allocation)	Rabi Use (32% Allocation)	H. W. Use (0% Allocation)	Evaporation	Total Use (Col 8 to 13) Restricted to Yield	Balance Yeild After Total Use (Col 4 - Col 14)	Balance Water available for Jayakwadi (Col 15 or [Col 4-7] which ever is less)
Ref	Annexure Ref.	Anx 1 Col 12	CADA Nashik Mar 2019		Anx 1 Col 10	Anx 1 Col 14	Anx 4 Col 4 X 0.8719	Anx 4 Col 7 X 0.8292	Anx 3 Col 22 X 0.8	Anx 3 Col 23 X 0.3	Anx 3 Col 24 X 0.0				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Total A to F			**2440.51**	**47.06**	**2483.14**	**1486.03**	**510.98**	**102.10**	**584.57**	**444.70**	**0.00**	**199.80**	1842.15	**601.60**	**601.60**
Balance water available in Upper Complexes for equitable distribution after monsoon															**595.24**
F	**Paithan Dam**	Gated	541.45	0.00	1991.98	60.64	350.42	97.24	283.89	340.59	0.00	214.26	1286.40	**-744.95**	**-744.95**

Equitable Allocations :

1) In 90% dependable year, the available water scenario indicates that there is no adequate water to satisfy all design demands. Thus, following allocations are proposed;
Domestic : 87.19% of Sanctioned Use
Industry : 82.92% of Sanctioned Use (It is expected that minimum 10% demand shall be satisfied by recycling the domestic waste water).
Kharif : 80% of Planned Kharif Water Use, Rabi : 32% of Planned Rabi Water Use. H.W. : NIL.
2) All complexes satisfy above mentioned allocations. (Except Jayakwadi Dam)
3) In year when it is decided to use this Strategy, if the balance water available for Jayakwadi Project (i. e. column no 16) is more than balance yield after total use of Jayakwadi (i.e. column no 15), Then the strategy will be applicable, Otherwise quantity of release of water to Jayakwadi shall be restricted to balance water available for Jayakwadi Project.

(Er. Mahendra Amale)
S. E. & Administrator
C.A.D.A ,Nashik &
Member Secretary

(Er. Samadhan Sabbinwar)
Superintending Engineer& Administrtor,
CADA ,Chhatrapati Sambhaji Nagar.
Special Invitee Member.

(Er.Pramod Mandade)
Chairman Godavari Study Group-II
& Director General, D.T.H.R.S (MERI)
Nashik

Statement - 8

Statement Showing water planning in Upper Godavari (up to Paithan dam) Sub Basin considering 75% dependable year (1993-94)

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Gated / Ungated	Yield in Year 1993	Spills	Design Live Storage (Excluding Silt as per Survey)	Mandatory Live Storage Below Crest	Domestic Use (87.19% Allocation)	Industrial Use (82.92% Allocation)	Kharif Use (100% Allocation)	Rabi Use (52% Allocation)	H. W. Use (0% Allocation)	Evaporation	Total Use (Col 8 to 13)	Balance Yeild After Total Use (Col 4 - Col 14)	Balance Water available for Jayakwadi (Col 15 or [Col 4-7] which ever is less)
Ref	Annexure Ref.	Anx 1 Col 12	CADA Nashik Mar 2019		Anx 1 Col 10	Anx 1 Col 14	Anx 4 Col 4 X 0.8719	Anx 4 Col 7 X 0.8292	Anx 3 Col 22 X 1.0	Anx 3 Col 23 X 0.5	Anx 3 Col 24 X 0.0				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	**Mula System**														
1	Mandohol	Ungated	8.46		5.68	5.68	1.07	0.00	3.86	3.45	0.00	0.06	8.44		
2	Mula	Gated	633.05	1.22	546.55	243.24	75.04	6.04	158.31	195.78	0.00	73.79	508.96		
	Total of A		**641.51**	**1.22**	**552.23**	**248.92**	**76.12**	**6.04**	**162.17**	**199.23**	**0.00**	**73.85**	**517.40**	**124.11**	**124.11**
B	**Pravara System**														
1	Bhandardara	Gated	417.03		307.61	176.14	39.40	19.17	98.73	60.92	0.00	24.30	242.53		
2	Nilwande	Gated			228.75	178.01	11.47	0.00	122.82	92.29	0.00	12.60	239.18		
3	Adhala	Ungated	35.62		21.97	21.97	1.59	0.00	12.52	6.64	0.00	2.20	22.94		
4	Bhojapur	Ungated	15.45		9.86	9.86	2.65	0.00	8.10	4.06	0.00	0.52	15.33		
5	Ozar weir	Ungated	240.70	104.63											
	Total of B		**708.80**	**104.63**	**568.19**	**385.98**	**55.10**	**19.17**	**242.17**	**163.91**	**0.00**	**39.62**	**519.98**	**188.82**	**188.82**
C	**Gangapur System**														
1	Gauatami	Gated			46.13	36.83	42.90	0.04	0.00	0.00	0.00	0.00	42.94		
2	Kashyapi	Gated			59.06	43.18	27.16	0.00	0.00	0.00	0.00	0.00	27.16		
3	Gangapur	Gated	369.44	153.59	159.42	78.54	67.34	49.23	3.17	8.87	0.00	20.38	148.98		
	Total of C		**369.44**	**48.40**	**264.61**	**158.55**	**137.39**	**49.27**	**3.17**	**8.87**	**0.00**	**20.38**	**219.08**	**150.36**	**150.36**
D	**Palkhed System**														
1	Karanjwan	Gated	115.98	0.00	152.00	79.13	1.37	1.08	1.79	1.70	0.00	11.82	17.76		
2	Waghad	Ungated	65.06		64.95	64.95	1.13	0.65	11.66	13.24	0.00	6.23	32.91		
3	Punegaon	Gated	0.00		16.64	4.10	0.34	0.00	2.59	8.32	0.00	2.24	13.49		
4	Ozarkhed	Ungated	52.99		56.69	56.69	8.61	0.90	16.34	17.54	0.00	7.08	50.46		
5	Tisgaon	Ungated	0.00		10.78	10.78	1.69	0.00	2.22	2.49	0.00	3.20	9.60		
6	Daraswadi (Water of Ozarkhed + Punegaon)						0.00		10.13	0.00	0.00		10.13		
7	Palkhed	Gated	28.29	4.27	18.49	2.74	35.14	5.62	69.94	77.83	0.00	8.00	196.53		
	Total of D		**262.32**	4.27	**319.55**	**218.39**	**48.28**	**8.25**	**114.67**	**121.12**	**0.00**	**38.57**	**330.89**	**-68.57**	**-68.57**

Statement - 8

Statement Showing water planning in Upper Godavari (up to Paithan dam) Sub Basin considering 75% dependable year (1993-94)

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Gated / Ungated	Yield in Year 1993	Spills	Design Live Storage (Excluding Silt as per Survey)	Mandatory Live Storage Below Crest	Domestic Use (87.19% Allocation)	Industrial Use (82.92% Allocation)	Kharif Use (100% Allocation)	Rabi Use (52% Allocation)	H. W. Use (0% Allocation)	Evaporation	Total Use (Col 8 to 13)	Balance Yeild After Total Use (Col 4 - Col 14)	Balance Water available for Jayakwadi (Col 15 or [Col 4-7] which ever is less)
Ref	Annexure Ref.	Anx 1 Col 12	CADA Nashik Mar 2019		Anx 1 Col 10	Anx 1 Col 14	Anx 4 Col 4 X 0.8719	Anx 4 Col 7 X 0.8292	Anx 3 Col 22 X 1.0	Anx 3 Col 23 X 0.5	Anx 3 Col 24 X 0.0				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	**Darna System**														
1	Alandi	Ungated	30.45		23.85	23.10	0.93	0.17	13.15	12.16	0.00	2.85	29.27		
2	Kadwa	Gated	95.82		50.59	15.82	16.30	0.00	22.62	13.72	0.00	10.28	62.92		
3	Bham	Ungated			69.76	69.76	0.71	0.00	0.00	0.00	0.00	6.62	7.33		
4	Bhavali	Ungated			40.79	40.79	16.37	0.00	2.63	2.44	0.00	4.30	25.75		
5	Waki	Gated			70.57	46.86	0.00	0.00	0.00	0.00	0.00	5.91	5.91		
6	Darna	Gated	253.48		188.66	91.69	81.65	6.69	0.00	0.00	0.00	24.28	112.62		
7	Mukane	Gated			198.39	105.97	63.74	2.30	0.54	0.50	0.00	24.72	91.81		
8	Waldevi	Ungated			32.09	32.06	0.12	10.11	2.30	2.54	0.00	5.00	20.07		
9	N.M.Weir		1340.14							0.00					
	(A)NM Express Canal						0.00	0.00	79.36	74.32	0.00		153.68		
	(B) Godavari canals		189.01				0.00	0.00	74.97	90.38	0.00		165.35		
	Total of E		**1908.90**	**934.05**	**674.70**	**426.05**	**179.84**	**19.28**	**195.57**	**196.07**	**0.00**	**83.96**	**674.72**	**1234.18**	**1234.18**
	Total A to E		**3890.97**		**2379.28**	**1437.89**	**496.73**	**102.01**	**717.75**	**689.20**	**0.00**	**256.38**	**2262.07**	**1628.90**	**1628.90**
Spills (Mula + Ozar Weir + N. M. Weir)				**1039.90**											
F	U/s of Jayakwadi														
1	Tembhapuri	Ungated	**0.00**	**0.00**	**19.61**	**19.61**	1.86	**0.00**	**3.12**	**5.99**	**0.00**	**5.36**	16.33	**-16.33**	**-19.61**
2	Dheku	Ungated	**6.71**	**0.00**	**12.17**	**12.17**	1.38	**0.00**	**1.12**	**3.67**	**0.00**	**3.24**	9.41	**-2.70**	**-5.46**
3	Kohli	Ungated	**0.00**	**0.00**	**3.24**	**3.24**	0.00	**0.00**	**0.99**	**0.57**	**0.00**	**0.00**	1.56	**-1.56**	**-3.24**
4	Narangi	Gated	**0.00**	**0.00**	**11.50**	**0.00**	3.75	**0.00**	**0.13**	**1.19**	**0.00**	**0.00**	5.07	**-5.07**	**-5.07**
5	Bor Dahegaon	Gated	**0.00**	**0.00**	**11.47**	**1.44**	1.00	**0.00**	**1.87**	**3.46**	**0.00**	**0.00**	6.34	**-6.34**	**-6.34**
6	Ambadi	Ungated	**8.34**	**0.00**	**9.42**	**9.42**	3.04	**0.09**	**2.37**	**1.65**	**0.00**	**2.85**	10.00	**-1.66**	**-1.66**
7	Shivana Takli	Gated	**0.00**	**0.00**	**36.45**	**2.26**	3.22	**0.00**	**3.35**	**16.21**	**0.00**	**0.00**	22.78	**-22.78**	**-22.78**
	Total of F		**15.05**	**0.00**	**103.86**	**48.14**	**14.25**	**0.09**	**12.96**	**32.74**	**0.00**	**11.45**	**71.49**	**-56.44**	**-64.16**

Statement - 8

Statement Showing water planning in Upper Godavari (up to Paithan dam) Sub Basin considering 75% dependable year (1993-94)

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Gated / Ungated	Yield in Year 1993	Spills	Design Live Storage (Excluding Silt as per Survey)	Mandatory Live Storage Below Crest	Domestic Use (87.19% Allocation)	Industrial Use (82.92% Allocation)	Kharif Use (100% Allocation)	Rabi Use (52% Allocation)	H. W. Use (0% Allocation)	Evaporation	Total Use (Col 8 to 13)	Balance Yeild After Total Use (Col 4 - Col 14)	Balance Water available for Jayakwadi (Col 15 or [Col 4-7] which ever is less)
Ref	Annexure Ref.	Anx 1 Col 12	CADA Nashik Mar 2019		Anx 1 Col 10	Anx 1 Col 14	Anx 4 Col 4 X 0.8719	Anx 4 Col 7 X 0.8292	Anx 3 Col 22 X 1.0	Anx 3 Col 23 X 0.5	Anx 3 Col 24 X 0.0				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Total A to F			**3906.02**	**0.00**	**2483.14**	**1486.03**	**510.98**	**102.10**	**730.71**	**721.93**	**0.00**	**267.83**	2333.56	**1572.46**	**1572.46**
Balance water available in Upper Complexes for equitable distribution after monsoon															**589.00**
F	**Paithan Dam**	Gated	844.21	0.00	1991.98	60.64	350.42	97.24	354.86	553.46	0.00	288.65	1644.00	-799.79	

Equitable Allocations

1) In 75% dependable year, the available water scenario indicates that there is no adequate water to satisfy all design demands. Thus, following allocations are proposed;

Domestic : 87.19% of Sanctioned Use

Industry : 82.92% of Sanctioned Use (It is expected that minimum 10% demand shall be satisfied by recycling the domestic waste water).

Kharif : 100% of Planned Kharif Water Use. Rabi : 52% of Planned Rabi Water Use. H.W. : NIL.

2) All complexes except Palkhed, satisfy above mentioned allocations. Carryover will have to be used in Jayakwadi.

3) In year when it is decided to use this Strategy, if the balance water available for Jayakwadi Project (i. e. column no 16) is more than balance yield after total use of Jayakwadi (i.e. column no 15), Then the strategy will be applicable, Otherwise quantity of release of water to Jayakwadi shall be restricted to balance water available for Jayakwadi Project.

(Er. Mahendra Amale)
S. E. & Administrator
C.A.D.A ,Nashik &
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(Er. Samadhan Sabbinwar)
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& Director General, D.T.H.R.S (MERI)
Nashik

Statement - 8

Statement Showing water planning in Upper Godavari (up to Paithan dam) Sub Basin considering 75% dependable year (1993-94)

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Gated / Ungated	Yield in Year 1993	Spills	Design Live Storage (Excluding Silt as per Survey)	Mandatory Live Storage Below Crest	Domestic Use (87.19% Allocation)	Industrial Use (82.92% Allocation)	Kharif Use (100% Allocation)	Rabi Use (52% Allocation)	H. W. Use (0% Allocation)	Evaporation	Total Use (Col 8 to 13)	Balance Yeild After Total Use (Col 4 - Col 14)	Balance Water available for Jayakwadi (Col 15 or [Col 4-7] which ever is less)
Ref	Annexure Ref.	Anx 1 Col 12	CADA Nashik Mar 2019		Anx 1 Col 10	Anx 1 Col 14	Anx 4 Col 4 X 0.8719	Anx 4 Col 7 X 0.8292	Anx 3 Col 22 X 1.0	Anx 3 Col 23 X 0.5	Anx 3 Col 24 X 0.0				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Statement - 9

Statement Showing water planning in Upper Godavari (up to Paithan dam) Sub Basin considering Average Yield Year (1977-1978)

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Gated / Ungated	Yield in Year 1977-1978	Spills	Design Live Storage (Excluding Silt as per Survey)	Mandatory Live Storage Below Crest	Domestic Use (87.19% Allocation)	Industrial Use (82.92% Allocation)	Kharif Use (100% Allocation)	Rabi Use (80% Allocation)	H. W. Use (0% Allocation)	Evaporation	Total Use (Col 8 to 13)	Balance Yeild After Total Use (Col 4 - Col 14)	Balance Water available for Jayakwadi (Col 15 or [Col 4-7] which ever is less)
Ref	Annexure Ref.	Anx 1 Col 12	CADA Nashik Mar 2019		Anx 1 Col 10	Anx 1 Col 14	Anx 4 Col 4 X 0.8719	Anx 4 Col 7 X 0.8292	Anx 3 Col 22 X 1.0	Anx 3 Col 23 X 0.8	Anx 3 Col 24 X 0.0				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	**Mula System**														
1	Mandohol	Ungated	9.24		5.68	5.68	1.07	0.00	3.86	5.30	0.00	0.88	11.12		
2	Mula	Gated	695.83	29.15	546.55	243.24	75.04	6.04	158.31	301.20	0.00	54.34	594.93		
Total of A			**705.07**	**29.15**	**552.23**	**248.92**	**76.12**	**6.04**	**162.17**	**306.50**	**0.00**	**55.22**	**606.05**	**99.02**	**99.02**
B	**Pravara System**														
1	Bhandardara	Gated	552.52		307.61	176.14	39.40	19.17	98.73	93.73	0.00	24.15	275.18		
2	Nilwande	Gated	134.96		228.75	178.01	11.47	0.00	122.82	141.99	0.00	12.60	288.88		
3	Adhala	Ungated			21.97	21.97	1.59	0.00	12.52	10.21	0.00	2.19	26.50		
4	Bhojapur	Ungated	18.32		9.86	9.86	2.65	0.00	8.10	6.25	0.00	1.03	18.03		
5	Ozar weir	Ungated	400.10	242.57											
Total of B			**970.94**	**242.57**	**568.19**	**385.98**	**55.10**	**19.17**	**242.17**	**252.18**	**0.00**	**39.97**	**608.59**	**362.35**	**362.35**
C	**Gangapur System**														
1	Gauatami	Gated	20.32		46.13	36.83	42.90	0.04	0.00	0.00	0.00	0.00	42.94		
2	Kashyapi	Gated	18.12		59.06	43.18	27.16	0.00	0.00	0.00	0.00	0.00	27.16		
3	Gangapur	Gated	227.41		159.42	78.54	67.34	49.23	3.17	13.64	0.00	20.38	153.76		
Total of C			**245.53**	**0.00**	**264.61**	**158.55**	**137.39**	**49.27**	**3.17**	**13.64**	**0.00**	**20.38**	**223.86**	**21.67**	**21.67**
D	**Palkhed System**														
1	Karanjwan	Gated	0.00	0.00	152.00	79.13	1.37	1.08	1.79	2.62	0.00	16.99	23.84		
2	Waghad	Ungated	0.00		64.95	64.95	1.13	0.65	11.66	20.38	0.00	7.07	40.89		
3	Punegaon	Gated	0.00		16.64	4.10	0.34	0.00	2.59	12.80	0.00	1.02	16.75		
4	Ozarkhed	Ungated	0.00		56.69	56.69	8.61	0.90	16.34	28.06	0.00	8.27	62.18		
5	Tisgaon	Ungated	0.00		10.78	10.78	1.69	0.00	2.22	3.83	0.00	1.60	9.34		
6	Daraswadi (Water of Ozarkhed + Punegaon)						0.00		10.13	0.00	0.00		10.13		
7	Palkhed	Gated	0.00	0.00	18.49	2.74	35.14	5.62	69.94	119.74	0.00	8.10	238.54		
Total of D			**0.00**	**0.00**	**319.55**	**218.39**	**48.28**	**8.25**	**114.67**	**187.42**	**0.00**	**43.05**	**401.66**	**-401.66**	**-401.66**

Statement - 9

Statement Showing water planning in Upper Godavari (up to Paithan dam) Sub Basin considering Average Yield Year (1977-1978)

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Gated / Ungated	Yield in Year 1977-1978	Spills	Design Live Storage (Excluding Silt as per Survey)	Mandatory Live Storage Below Crest	Domestic Use (87.19% Allocation)	Industrial Use (82.92% Allocation)	Kharif Use (100% Allocation)	Rabi Use (80% Allocation)	H. W. Use (0% Allocation)	Evaporation	Total Use (Col 8 to 13)	Balance Yeild After Total Use (Col 4 - Col 14)	Balance Water available for Jayakwadi (Col 15 or [Col 4-7] which ever is less)
Ref	Annexure Ref.	Anx 1 Col 12	CADA Nashik Mar 2019		Anx 1 Col 10	Anx 1 Col 14	Anx 4 Col 4 X 0.8719	Anx 4 Col 7 X 0.8292	Anx 3 Col 22 X 1.0	Anx 3 Col 23 X 0.8	Anx 3 Col 24 X 0.0				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	**Darna System**														
1	Alandi	Ungated	20.67		23.85	23.10	0.93	0.17	13.15	18.71	0.00	2.85	35.82		
2	Kadwa	Gated	45.29		50.59	15.82	16.30	0.00	22.62	21.10	0.00	7.94	67.97		
3	Bham	Ungated	69.76	69.76	69.76	69.76	0.71	0.00	0.00	0.00	0.00	6.62	7.33		
4	Bhavali	Ungated	35.20	35.20	40.79	40.79	16.37	0.00	2.63	3.76	0.00	4.30	27.07		
5	Waki	Gated	70.57	70.57	70.57	46.86	0.00	0.00	0.00	0.00	0.00	5.91	5.91		
6	Darna	Gated	227.51		188.66	91.69	81.65	6.69	0.00	0.00	0.00	17.70	106.04		
7	Mukane	Gated	105.14		198.39	105.97	63.74	2.30	0.54	0.78	0.00	10.51	77.87		
8	Waldevi	Ungated	23.95	23.95	32.09	32.06	0.12	10.11	2.30	3.91	0.00	5.00	21.44		
9	N.M.Weir		1405.69	1405.69						0.00					
	(A)NM Express Canal		98.29	98.29			0.00	0.00	79.36	114.34	0.00		193.70		
	(B) Godavari canals		134.73				0.00	0.00	74.97	139.05	0.00		214.02		
	Total of E		**1939.03**	**1107.92**	**674.70**	**426.05**	**179.84**	**19.28**	**195.57**	**301.65**	**0.00**	**60.83**	**757.16**	**1181.87**	**1181.87**
	Total A to E		**3860.57**		**2379.28**	**1437.89**	**496.73**	**102.01**	**717.75**	**1061.38**	**0.00**	**219.45**	**2597.32**	**1263.25**	**1263.25**
Spills (Mula + Ozar Weir + N. M. Weir)				**1379.64**											
F	U/s of Jayakwadi														
1	Tembhapuri	Ungated	**0.00**	**0.00**	**19.61**	**19.61**	1.86	**0.00**	**3.12**	**9.21**	**0.00**	**0.00**	14.19	**-14.19**	**-19.61**
2	Dheku	Ungated	**3.45**	**0.00**	**12.17**	**12.17**	1.38	**0.00**	**1.12**	**5.64**	**0.00**	**3.24**	11.39	**-7.94**	**-8.72**
3	Kohli	Ungated	**0.00**	**0.00**	**3.24**	**3.24**	0.00	**0.00**	**0.99**	**0.88**	**0.00**	**0.00**	1.87	**-1.87**	**-3.24**
4	Narangi	Gated	**0.00**	**0.00**	**11.50**	**0.00**	3.75	**0.00**	**0.13**	**1.82**	**0.00**	**0.00**	5.71	**-5.71**	**-5.71**
5	Bor Dahegaon	Gated	**0.00**	**0.00**	**11.47**	**1.44**	1.00	**0.00**	**1.87**	**5.33**	**0.00**	**0.00**	8.21	**-8.21**	**-8.21**
6	Ambadi	Ungated	**0.00**	**0.00**	**9.42**	**9.42**	3.04	**0.09**	**2.37**	**2.54**	**0.00**	**0.00**	8.04	**-8.04**	**-9.42**
7	Shivana Takli	Gated	**0.00**	**0.00**	**36.45**	**2.26**	3.22	**0.00**	**3.35**	**24.94**	**0.00**	**0.00**	31.51	**-31.51**	**-31.51**
	Total of F		**3.45**	**0.00**	**103.86**	**48.14**	**14.25**	**0.09**	**12.96**	**50.36**	**0.00**	**3.24**	**80.91**	**-77.46**	**-86.41**
	Total A to F		**3864.02**	**0.00**	**2483.14**	**1486.03**	**510.98**	**102.10**	**730.71**	**1111.75**	**0.00**	**222.69**	2678.23	**1185.79**	**1185.79**
Balance water available in Upper Complexes for equitable distribution after monsoon															**-116.39**

Statement - 9

Statement Showing water planning in Upper Godavari (up to Paithan dam) Sub Basin considering Average Yield Year (1977-1978)

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Gated / Ungated	Yield in Year 1977-1978	Spills	Design Live Storage (Excluding Silt as per Survey)	Mandatory Live Storage Below Crest	Domestic Use (87.19% Allocation)	Industrial Use (82.92% Allocation)	Kharif Use (100% Allocation)	Rabi Use (80% Allocation)	H. W. Use (0% Allocation)	Evaporation	Total Use (Col 8 to 13)	Balance Yeild After Total Use (Col 4 - Col 14)	Balance Water available for Jayakwadi (Col 15 or [Col 4-7] which ever is less)
Ref	Annexure Ref.	Anx 1 Col 12	CADA Nashik Mar 2019		Anx 1 Col 10	Anx 1 Col 14	Anx 4 Col 4 X 0.8719	Anx 4 Col 7 X 0.8292	Anx 3 Col 22 X 1.0	Anx 3 Col 23 X 0.8	Anx 3 Col 24 X 0.0				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
F	**Paithan Dam**	Gated	2198.86		1991.98	60.64	350.42	97.24	354.86	1064.36	0.00	323.10	2189.98	8.88	

Equitable Allocations

1) In Average dependable year, the available water scenario indicates that there is no adequate water to satisfy all design demands. Thus, following allocations are proposed;

Domestic : 87.19% of Sanctioned Use

Industry : 82.92% of Sanctioned Use (It is expected that minimum 10% demand shall be satisfied by recycling the domestic waste water).

Kharif : 100% of Planned Kharif Water Use. Rabi : 80% of Planned Rabi Water Use. H.W. : NIL.

2) All complexes except Palkhed,satisfy above mentioned allocations.

(Er. Mahendra Amale)
S. E. & Administrator
C.A.D.A ,Nashik &
Member Secretary

(Er. Samadhan Sabbinwar)
Superintending Engineer& Administrtor,
CADA ,Chhatrapati Sambhaji Nagar.
Special Invitee Member.

(Er.Pramod Mandade)
Chairman Godavari Study Group-II
& Director General, D.T.H.R.S (MERI)
Nashik

Statement - 10

Statement Showing water planning in Upper Godavari (up to Paithan dam) Sub Basin considering Yield observed in Good Year (2017-18)

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Gated / Ungated	Yield in Year 2017	Spills	Design Live Storage (Excluding Silt as per Survey)	Mandatory Live Storage Below Crest	Domestic Use (100% Allocation)	Industrial Use (100% Allocation)	Kharif Use (100% Allocation)	Rabi Use (100% Allocation)	H. W. Use (100% Allocation)	Evaporation	Total Use (Col 8 to 13)	Balance Yeild After Total Use (Col 4 - Col 14)	Balance Water available for Jayakwadi (Col 15 or [Col 4-7] which ever is less)
Ref	Annexure Ref.	Anx 1 Col 12	CADA Nashik Mar 2019		Anx 1 Col 10	Anx 1 Col 14	Anx 4 Col 4 X 1.0	Anx 4 Col 7 X1	Anx 3 Col 22 X 1.0	Anx 3 Col 23 X 0.7	Anx 3 Col 24 X 0.0				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	**Mula System**														
1	Mandohol	Ungated	21.02		5.68	5.68	1.23	0.00	3.86	6.63	0.00	1.31	13.03		
1	Mula	Gated	829.45	33.36	546.55	243.24	86.07	7.29	158.31	376.50	0.00	64.20	692.36		
	Total of A		**850.47**	**33.36**	**552.23**	**248.92**	**87.30**	**7.29**	**162.17**	**383.13**	**0.00**	**65.51**	**705.39**	**145.08**	**145.08**
B	**Pravara System**														
1	Bhandardara	Gated	271.92		307.61	176.14	45.19	23.12	98.73	117.16	137.70	25.98	447.88		
2	Nilwande	Gated	223.61		228.75	178.01	13.15	0.00	122.82	177.49	0.00	12.60	326.06		
3	Adhala	Ungated	26.67		21.97	21.97	1.82	0.00	12.52	12.76	8.52	6.28	41.90		
4	Bhojapur	Ungated	22.32		9.86	9.86	3.04	0.00	8.10	7.81	0.00	2.14	21.09		
3	Ozar weir	Ungated	413.45												
	Total of B		**957.97**	**329.39**	**568.19**	**385.98**	**63.20**	**23.12**	**242.17**	**315.22**	**146.22**	**47.00**	**836.93**	**121.04**	**121.04**
C	**Gangapur System**														
1	Gauatami	Gated	52.00		46.13	36.83	49.20	0.05	0.00	0.00	0.00	0.00	49.25		
2	Kashyapi	Gated	43.37		59.06	43.18	31.15	0.00	0.00	0.00	0.00	0.00	31.15		
3	Gangapur	Gated	400.38	236.34	159.42	78.54	77.23	59.37	3.17	17.05	10.76	16.04	183.62		
	Total of C		**495.75**	**236.34**	**264.61**	**158.55**	**157.58**	**59.42**	**3.17**	**17.05**	**10.76**	**16.04**	**264.02**	**231.73**	**231.73**
D	**Palkhed System**														
1	Karanjwan	Gated	154.81		152.00	79.13	1.57	1.30	1.79	3.27	0.00	12.33	20.26		
2	Waghad	Ungated	65.73		64.95	64.95	1.30	0.78	11.66	25.47	0.00	6.52	45.73		
3	Punegaon	Gated	19.68		16.64	4.10	0.39	0.00	2.59	16.00	0.00	3.83	22.81		
4	Ozarkhed	Ungated	62.23		56.69	56.69	9.87	1.09	16.34	35.07	0.00	8.54	70.91		
5	Tisgaon	Ungated	13.02		10.78	10.78	1.94	0.00	2.22	4.79	0.00	3.08	12.03		
6	Daraswadi (Water of Ozarkhed + Punegaon)						0.00		10.13	0.00	0.00		10.13		
7	Palkhed	Gated	311.81		18.49	2.74	40.30	6.78	69.94	149.67	4.39	5.37	276.45		
	Total of D		**627.28**	**205.76**	**319.55**	**218.39**	**55.37**	**9.95**	**114.67**	**234.27**	**4.39**	**39.67**	**458.32**	**168.96**	**168.96**

Statement - 10

Statement Showing water planning in Upper Godavari (up to Paithan dam) Sub Basin considering Yield observed in Good Year (2017-18)

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Gated / Ungated	Yield in Year 2017	Spills	Design Live Storage (Excluding Silt as per Survey)	Mandatory Live Storage Below Crest	Domestic Use (100% Allocation)	Industrial Use (100% Allocation)	Kharif Use (100% Allocation)	Rabi Use (100% Allocation)	H. W. Use (100% Allocation)	Evaporation	Total Use (Col 8 to 13)	Balance Yeild After Total Use (Col 4 - Col 14)	Balance Water available for Jayakwadi (Col 15 or [Col 4-7] which ever is less)
Ref	Annexure Ref.	Anx 1 Col 12	CADA Nashik Mar 2019		Anx 1 Col 10	Anx 1 Col 14	Anx 4 Col 4 X 1.0	Anx 4 Col 7 X1	Anx 3 Col 22 X 1.0	Anx 3 Col 23 X 0.7	Anx 3 Col 24 X 0.0				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	**Darna System**														
1	Alandi	Ungated	27.87		23.85	23.10	1.07	0.21	13.15	23.39	0.00	5.83	43.65		
1	Kadwa	Gated	73.25		50.59	15.82	18.70	0.00	22.62	26.38	1.90	7.22	76.82		
3	Bham	Ungated		69.76	69.76	69.76	0.81	0.01	0.00	0.00	0.00	6.62	7.44		
4	Bhavali	Ungated	35.43		40.79	40.79	18.78	0.01	2.63	4.70	1.14	4.88	32.14		
2	Waki	Gated	51.01		70.57	46.86	0.00	0.00	0.00	0.00	0.00	5.91	5.91		
3	Darna	Gated	214.20		188.66	91.69	93.65	8.07	0.00	0.00	0.00	22.97	124.69		
4	Mukane	Gated	200.07		198.39	105.97	73.11	2.77	0.54	0.97	0.25	9.64	87.28		
8	Waldevi	Ungated	33.01		32.09	32.06	0.11	12.19	2.30	4.89	0.00	4.40	23.89		
5	N.M.Weir		1949.40	1949.40						0.00					
	(A)NM Express Canal		35.02				0.00	0.00	79.36	142.92	43.64		265.92		
	(B) Godavari canals		64.65				0.00	0.00	74.97	173.81	54.90		303.68		
	Total of E		**2683.91**	**1879.64**	**674.70**	**426.05**	**206.23**	**23.25**	**195.57**	**377.06**	**101.84**	**67.47**	**971.42**	**1712.49**	**1712.49**
	Total A to E		**5615.38**		**2379.28**	**1437.89**	**569.68**	**123.02**	**717.75**	**1326.73**	**263.21**	**235.69**	**3236.08**	**2379.30**	**2379.30**
Spills (Mula + Ozar Weir + N. M. Weir)				**2242.39**											
	Tembhapuri		**0.00**	**0.00**	**19.61**	**19.61**	**2.14**	**0.00**	**3.12**	**11.51**	**0.00**	**0.00**	16.77	**-16.77**	**-19.61**
	Dheku		**5.23**	**0.00**	**12.17**	**12.17**	**1.59**	**0.00**	**1.12**	**7.05**	**0.00**	**3.24**	13.00	**-7.77**	**-7.77**
	Kohli		**3.13**	**0.00**	**3.24**	**3.24**	**0.00**	**0.00**	**0.99**	**1.10**	**0.00**	**0.00**	2.09	**1.04**	**-0.11**
	Narangi		**11.84**	**0.00**	**11.50**	**0.00**	**4.30**	**0.00**	**0.13**	**2.28**	**0.00**	**0.00**	6.71	**5.13**	**5.13**
	Bor Dahegaon		**11.10**	**0.00**	**11.47**	**1.44**	**1.15**	**0.00**	**1.87**	**6.66**	**0.00**	**0.00**	9.69	**1.42**	**1.42**
	Ambadi		**5.28**	**0.00**	**9.42**	**9.42**	**3.48**	**0.11**	**2.37**	**3.17**	**0.00**	**2.85**	11.99	**-6.71**	**-6.71**
	Shivana Takli		**12.15**	**0.00**	**36.45**	**2.26**	**3.69**	**0.00**	**3.35**	**31.17**	**0.00**	**3.39**	41.60	**-29.45**	**-29.45**
	Total of F		**48.73**	**0.00**	**103.86**	**48.14**	**16.34**	**0.11**	**12.96**	**62.96**	**0.00**	**9.48**	**101.85**	**-53.12**	**-57.11**
	Total A to F		**5664.11**	**0.00**	**2483.14**	**1486.03**	**586.03**	**123.13**	**730.71**	**1389.68**	**263.21**	**245.17**	**3337.93**	**2326.18**	**2322.19**
Balance water available in Upper Complexes for equitable distribution after monsoon															**136.91**
F	**Paithan Dam**	Gated	2465.23	300.00	1991.98	60.64	401.90	117.27	354.86	1064.36	356.72	323.10	2618.20	**-152.97**	

Statement - 10

Statement Showing water planning in Upper Godavari (up to Paithan dam) Sub Basin considering Yield observed in Good Year (2017-18)

(All figures in Mm^3)

Sr. No.	Name of Dam and System	Gated / Ungated	Yield in Year 2017	Spills	Design Live Storage (Excluding Silt as per Survey)	Mandatory Live Storage Below Crest	Domestic Use (100% Allocation)	Industrial Use (100% Allocation)	Kharif Use (100% Allocation)	Rabi Use (100% Allocation)	H. W. Use (100% Allocation)	Evaporation	Total Use (Col 8 to 13)	Balance Yeild After Total Use (Col 4 - Col 14)	Balance Water available for Jayakwadi (Col 15 or [Col 4-7] which ever is less)
Ref	Annexure Ref.	Anx 1 Col 12	CADA Nashik Mar 2019		Anx 1 Col 10	Anx 1 Col 14	Anx 4 Col 4 X 1.0	Anx 4 Col 7 X1	Anx 3 Col 22 X 1.0	Anx 3 Col 23 X 0.7	Anx 3 Col 24 X 0.0				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Equitable Allocations

1) In Good year, it is observed that there are spills from all complexes including Jayakwadi reservoir. Thus, water is adequate to meet all the 100% design demands. Therefore, following allocations are proposed;

Domestic : 100% of Sanctioned Use

Industry : 100% of Sanctioned Use (It is expected that minimum 10% demand shall be satisfied by recycling the domestic waste water).

Kharif : 100% of Planned Kharif Water Use. Rabi : 100% of Planned Rabi Water Use. H.W. : 100% of Planned H.W. Water Use.

2) The Kharif use shall be restricted to design Kharif use till Jayakwadi dam spills.

(Er. Mahendra Amale)
S. E. & Administrator
C.A.D.A ,Nashik &
Member Secretary

(Er. Samadhan Sabbinwar)
Superintending Engineer& Administrtor,
CADA ,Chhatrapati Sambhaji Nagar.
Special Invitee Member.

(Er.Pramod Mandade)
Chairman Godavari Study Group-II
& Director General, D.T.H.R.S (MERI)
Nashik

Table : 5

Distribution of Utilizable Water Available in the Upper Godavari (upto Paithan dam) Sub-basin among the various complex/systems of Reservoirs under different conditions of Probabilities of Inflows in Paithan dam

Review 2023

Strategy No.	Scenario						Utilizable Water including Kharif/Monsoon Use (Mcum)						
	Complex →						Mula	Pravara	Gangapur	Godavari - Darna	Palkhed	Paithan	Shivana
	Dams/Systems in complex →						Mandhol, Mula	Bhandardara, Nilwande, Adhala, Bhojapur	Gangapur, Kashyapi, Gautami	Alandi, Kadwa, Bham, Bhawali, Waki, Darna, Mukane, Waldevi	Karanjwan, Waghad, Punegaon, Ojharkhed, Palkhed, Tisgaon	Paithan	Ambadi, Dheku, Tembhapuri Kohli, Narangi, Bor, Shivana Takli
	Design Live storage (Mcum) →						725.98	594.73	335.47	737.08	387.12	2170.94	231.80
	Carry over (Mcum) →						28.32	0.00	11.64	0.00	0.00	381.70	0.00
	Design Water Use (Mcum) →						835.34	864.70	293.81	1054.28	505.08	2618.21	261.70
1	2						3	4	5	6	7	8	
	Paithan observed Net	**% Demands**											
		D-NI	I-NI	K-I	R-I	HW-I							
1	100% dep. Year	87.19	82.92	80	0	0	263.63	385.98	207.53	426.05	218.39	938.26	48.14
2	90% dep. Year	87.19	82.92	80	32	0	371.84	409.75	214.04	529.49	257.48	1286.40	56.31
3	75% dep. Year	87.19	82.92	100	52	0	517.40	519.98	219.08	674.72	330.89	1644.00	71.49
4	Average yield	87.19	82.92	100	80	0	606.05	608.59	223.86	757.16	401.66	2189.98	80.91
5	Good year	100	100	100	100	100	705.39	836.93	264.02	971.42	458.32	2618.20	101.85

Table : 6 (Modified) 2024 GSG-II

Upper Reservoirs' Storages to be synchronized with the state of Paithan dam storage for different Operating Strategies during filling (Monsoon) period

Operating Strategy	Utilizable Water including Kharif/Monsoon Use (Mcum) (% of Design Live Storage)													
Complex →	Paithan		Mula		Pravara		Gangapur		Godavari - Darna		Palkhed		Shivana	
Dams/Systems in complex →	Paithan		Mandhol, Mula		Bhandardara, Nilwande, Adhala, Bhojapur		Gangapur, Kashyapi, Gautami		Alandi, Kadwa, Bham, Bhawali, Waki, Darna, Mukane, Waldevi		Karanjwan, Waghad, Punegaon, Ojharkhed, Palkhed, Tisgaon		Ambadi, Dheku, Tembhapuri Kohli, Narangi, Bor, Shivana Takli	
Design Live storage (Mcum) →	**2171**		**726**		**595**		**335**		**737**		**387**		**232**	
Carry over (Mcum) →	**381.70**		**28.32**		**0.00**		**11.64**		**0.00**		**0.00**		**0.00**	
Design Water Use (Mcum) →	**2618**		**835**		**865**		**294**		**1054**		**505**		**262**	
1	2	%	3	%	4	%	5	%	6	%	7	%	8	%
Strategy -I	557	26	235	32	386	65	196	58	426	58	218	56	48	21
Strategy - II	905	42	344	47	410	69	202	60	529	72	257	67	56	24
Strategy - III	1262	58	489	67	520	87	207	62	675	92	331	86	71	31
Strategy -IV	1808	83	578	80	609	102	212	63	757	103	402	104	81	35
Strategy - V	2237	103	677	93	837	141	252	75	971	132	458	118	102	44

Table : 6 (Old) 2013 as per GSG-I(Mendhegiri Report)

Upper Reservoirs' Storages to be synchronized with the state of Paithan dam storage for different Operating Strategies during filling (Monsoon) period

Operating Strategy	Utilizable Water including Kharif/Monsoon Use excluding carry over (Mcum) (% of Design Live Storage)					
Complex →	Paithan	Mula	Pravara	Gangapur	Godavari - Darna	Palkhed
Dams/Systems in complex →	Paithan	Mandhol, Mula	Bhandardara, Nilwande, Adhala, Bhojapur	Gangapur, Kashyapi, Gautami	Alandi, Kadwa, Bham, Bhawali, Waki, Darna, Mukane, Waldevi	Karanjwan, Waghad, Punegaon, Ojharkhed, Palkhed, Tisgaon
Design Live storage (Mcum) →	2171	618	571	309	718	350
Carry over (Mcum) →	381.70	28.32	0.00	11.64	0.00	0.00
Design Water Use (Mcum) →	2618	811	870	341	941	512
1	2	3	4	5	6	7
Strategy -I	797 (37%)	303 (49%)	320 (56%)	187 (61%)	461 (64%)	254 (73%)
Strategy - II	1173 (54%)	402 (65%)	425 (74%)	227 (74%)	604 (84%)	254 (73%)
Strategy - III	1409 (65%)	489 (79%)	500 (88%)	252 (82%)	736 (102%)	287 (82%)
Strategy -IV	1645 (76%)	576 (93%)	575 (101%)	277 (90%)	870 (121%)	345 (99%)
Strategy - V	1738 (80%)	611 (99%)	605 (106%)	287 (93%)	918 (128%)	369 (105%)
Strategy -VI	2237 (103%)	689 (112%)	836 (146%)	313 (101%)	1220 (170%)	457 (130%)