REPORT ON ACTION PLAN FOR CLEAN-UP OF POLLUTED STRETCH OF GODAVARI RIVER

March, 2019

CONTENTS

LIST OF TABLES

LIST OF FIGURES

GODAVARI RIVER (Someshwar Temple, Nasik to Raher)

1.1 Executive Summary

Sr. No.	Description of Item		Details
1.	Name of the identified polluted river and its tributaries	:	Someshwar Temple to Rahed Tributaries: Darna, Manjara, Purna, Pravara, Sindphana
2.	Is river is perennial and total length of the polluted river	:	Non- perennial Length- 504 Km
3.	Revised priority as per Jan. to Dec.2018 Analysis results	:	Priority I
4.	No of drains contributing to pollution and names of major drains	:	1. Chikhali Nalla 2. Gangapur/Bardan phata nalla. 3. Someshwar Nalla. 4. Anadwali Nalla 5. Kaplicha Nallah, Tal. Gangakhed, Dist. Parbhani 6. Chunal Nallah (Back side of Kadhakpur to Godavari river)
5.	Major Towns on the banks of the river with population	:	1. Nashik - 1,486,053 2. Kopargaon - 65,273 3. Tryambakeshwar - 168,423 4. Paithan - 41,536 5. Gangakhed - 49,891 6. Nanded - 550,439
6.	a. Sewage generation & Treatment in MLD	:	Total Water consumption 1. Nanded– 60 MLD 2. Gangakhed- 2.0 MLD 3. Paithan – 2.4 MLD 4. Nashik-450 MLD Total Sewage generation 1. Nanded– 48.0 MLD 2. Gangakhed- 1.5 MLD 3. Paithan – 1.9 MLD 4. Nashik-280 MLD
	b. Total no. of existing STPs and the total capacities in MLD	:	1. Paithan-1.7 MLD 2. Nanded- 03 Nos of STPs with Capacity 132 MLD 3. Nashik- 07 Nos of STPs with Capacity-342 MLD
	c. Gaps in sewage treatment in MLD and no. of towns not having STPs	:	Gap in the Treatment is 33.4 MLD. Nashik and Nanded cities have almost 100% treatment capacity. STPs for small towns will be completed by 2019. For rest of the towns MPC Board has proposed funding

<table>
<tr><td></td><td></td><td></td><td>plan to install sewage treatment facilities in next three years. e.g. Gangakhed</td></tr>
<tr><td rowspan="5">7.</td><td rowspan="2">Major industrial estates located with total no. of industries</td><td rowspan="2">:</td><td rowspan="2"><table><tr><td>Industrial Estate</td><td>No. of Industries</td></tr><tr><td>Satpur, Ambad, Krushnoor and Nanded</td><td>201 (Effluent generating)</td></tr></table></td></tr>
<tr></tr>
<tr><td>a. Total water consumption and total industrial effluent generation in MLD</td><td>:</td><td>Total Water consumption – 28.70 MLD
Total Eff. Generation – 15.30 MLD</td></tr>
<tr><td>b. No. of industries having captive ETPs and their treatment capacity in MLD</td><td>:</td><td>201
MPCB does not permit treated/untreated industrial effluent discharge into the River.</td></tr>
<tr><td>c. No of CETP’s and their treatment capacity</td><td>:</td><td>Proposed CETP of capacity 0.5 MLD at MIDC Satpur</td></tr>
<tr><td>d. Gaps in treatment of industrial effluent</td><td>:</td><td>No gap in effluent treatment.</td></tr>
<tr><td rowspan="3">8.</td><td>Waste Management</td><td>:</td><td></td></tr>
<tr><td>a. Solid Waste Generation & processing</td><td>:</td><td>1. Nanded– 250 MT/day
2. Gangakhed- 16 MT/day
3. Paithan – 6.0 MT/day
4. Nashik – 558 MT/day
• Municipal Council, Paithan has provided composting facility at Panthewadi, which is about 2.5 km away from river Godavari.
• Municipal Council, Gangakhed near the polluted stretch has provided landfill site with dry and wet processing technology.
• Municipal Corporation Nanded has provided dumping ground at a distance of more than 2 km from river Godavari.
• Nashik Municipal Corporation treats 501 MT/day through Composting, Biomethanization, RDF System.</td></tr>
<tr><td>b. Biomedical Waste Generation & treatment</td><td>:</td><td><table><tr><th>District</th><th>Qty Generated (Kg/day)</th><th>Treatment Capacity</th></tr><tr><td>Nashik</td><td>3000</td><td>Incinerator - 250 Kg/Hr
Autoclave - 400 litr/cycle</td></tr><tr><td>Aurangab</td><td>1600</td><td>Incinerator - 250 Kg/Hr</td></tr></table></td></tr>
</table>

			ad | | Autoclave - 400 litr/cycle Nanded | 904 | Incinerator - 100 kg/hr Autoclave - 50 litr/cycle
	c. E-Waste Management Generation & treatment	:	E-waste generated by industries is sent to MPCB authorized E-waste reprocessor.
	d. Hazardous waste Management	:	HW generated from industry is disposed through CHWTSDF. MEPL Ranjangaon:- Direct Landfilling:-60000 MT/A, Stabilization :- 15,000 MT/A, Incineration :-25,000 MT/A Lifespan – 25 years from 2007.
9.	Action plan includes mainly covering aspect such as (Proposal for utilisation of sewage, ground water recharging or rain water harvesting, measures for regulating ground water use, protection and management of flood plain zone, maintaining minimum E-flows and water shed management, plantation on both sides of the river, setting up of bio-diversity parks etc., as per Hon'ble NGT Orders dated 20.09.2018 and 19.12.2018)	:	RRC has already communicated to Water Resource Dept, GoM for maintaining minimum E-flows and water shed management, plantation on both sides of the river, setting up of bio-diversity parks.
10.	Min. and Max. required time period for implementation of action plans		Min 2 Years, Max 4 Years
11.	Total estimated budget in crores towards implementation of proposed action plans with break-up (e.g. No. of STPs, capacity, total cost; No of CETPs, total capacity, Cost towards interception and diversion of sewage/effluent to STPs/CETPs etc.,)	:	Nanded – 72 Cr Paithan – 46 Cr Nashik – 59 Cr
12.	Whether 'River Rejuvenation Committee (RRC) constituted by the State Govt./UT Administration and If so, Date of constitution of 'RRC'.	:	River Rejuvenation Committee (RRC) constituted as per the Maharashtra Government G.R. issued by the Environment Dept, GoM vide No. NGT 2018/PC-2/TC-3 dtd.13.12.2018.
13.	Responsible Organisation (s) for implementation of proposed action plans (Please enclose details as annexure)	:	1. Water Resource Department, GoM 2. Urban Development Department 3. Nashik Municipal Corporation 4. Nanded – Waghala Municipal Corporation

			5. Gangakhed Municipal Council 6. Paithan Municipal Council
14.	Expected deliverables w r to achieving Goals	:	1. To achieve 100% sewage collection and treatment 2. To achieve 100% MSW collection, transportation and treatment. 3. To achieve river water quality of Bathing standards by 2022. 4. Augmentation of River Flow and restoration of water quality-2022
15.	Initiatives taken by Govt. of Maharashtra and MPCB.	:	• Maharashtra Government through it's forest department has announced The Plantation Program in 2016 with the aim of planting 2 crore & planted 2.82 crore saplings. Forest Department has set the target of plantation of 4Crore, 13Crore and 33Crore saplings under the mission of 50Crore plantation which shall be accomplished in the three consecutive years viz. 2017, 2018 and 2019. • GOM, announced 'Namami Chandrabhaga Abhiyan' in year 2016. It is an initiative taken to revive and rejuvenate the river Chandrabhaga and to restore its historic glory. Government of Maharashtra has prepared a comprehensive plan for cleaning of the river on the lines of 'Namami Gange'. The aim of the mission is to make the Chandrabhaga river pollution free and conserve its purity and sanctity up to year 2022. • MPC Board will provide financial & technical assistance to villages in next three years to comply with sewage & waste management. • MPC Board has issued Direction to the local bodies to make 25% budgetary provision for scientific treatment and disposal of Sewage and Solid Waste. Accordingly, Municipal Corporations have passed resolution in their General Body meeting and reserved the funds. These funds are reserved and made mandatory to utilise for preparation of DPR, establishing treatment facility, O & M of treatment facility etc. The review of the same is taken from time to time by the Board. • MPC Board has issued directions to 08 Municipal Corporations to penalize to the tune of 1pais/litre of sewage generation under 'Polluter pays principle'.

			• MPC Board has issued directions to non-complying CETPs to penalize to the tune of 2 paisa/litre for remediation & upgradation to comply with the consented standards.
	Budget Estimates & Pooling of Resources from Local Bodies, State Pollution Control Board, State Government & Central Government		• Aurangabad Municipal Council, Gangapur Municipal Council, Paithan Municipal Council, Nanded Municipal Council, Beed Municipal Council, Pimpalgaon Municipal Council & Nashik Municipal Corporation will provide following funds of Rs. 283.33.Crs. for STPs & management of sewerage system. The said work will be completed by 2022 • Maharashtra Government has already received proposal of Rs. 1104.54Cr. Under State River Conservation Program & form this amount State Government will provide necessary funds in next 3 years by 2022 for Sewage management • The Maharashtra Pollution Control Boards has also reserved Rs. 461.42Cr. for preparation of action plan for abetment & Control of Pollution of River Water due to sewage & solid waste disposal from B & C Municipal Councils (342Nos of Urban Local Bodies.), Nagar Panchayat & Gram Panchayat for reducing polluted stretches in compliance with Hon'ble NGT, principal bench directions w.r.t. "More River Stretches are now Critically Polluted. The said funds will be used for DPR preparation, development of infrastructure for sewage collection & treatment & development of infrastructure for Solid Waste Management. The DPR preparation & implementation of the same will be completed by year 2022 (i.e in next 3 years). • The Maharashtra Government through Urban Development Department has approved DPR of all 388 Urban Local Bodies for Solid Waste Management. The funds for the same amounting to Rs. 2560.0Cr has been already approved by Government & the said DPRs will be implemented & Solid Waste Management issues will be resolved by December'2019.

Preamble -

In the matter of OA No. 673 of 2018-"More river stretches are critically polluted now: CPCB", the Hon'ble NGT has passed order dated 20.09.2018 for constitution of River Rejuvenation Committee (RRC) and Special Environment Surveillance Task Force (SESTF). The report comprises 351 polluted river stretches in India out of which 53 polluted river stretches are in Maharashtra. In the state, 9 polluted stretches in priority I & 6 polluted stretches in priority II. It has been mandated to prepare Action Plan for River Stretches and make them pollution free. In compliance of the orders of the Hon'ble NGT, the State Government has constituted RRC.

River Rejuvenation Committee (RRC) constituted as per the Maharashtra Government G.R. issued by the Environment Dept, GoM vide No. NGT 2018/PC-2/TC-3 dtd.13.12.2018 with 5 members under the guidance of Principal Secretary for preparation of action plans and to monitor the implementation of these action plans. The members of RRC are as mentioned under:

1. Commissioner / Director, Directorate of Municipal Administration
2. Chief Executive Officer – Maharashtra Industrial Development Corporation
3. Director (Environment)
4. Director (Industries)
5. Member Secretary – Maharashtra Pollution Control Boards- Member & Co-ordinator of RRC

Further State Government also constituted District Level Special Task Force comprising of the following:

1. Representative of District Collector
2. Representative of District Superintendent of Police
3. Representative of Regional Officer, MPCB
4. Representative of the District Judge of the concerned District

Meetings of the RRC Committee:

- 1st Meeting of River Rejuvenation Committee (RRC) convened on 14.12.2018.
  RRC reviewed draft action plans of polluted river stretches of Priority I prepared by Maharashtra PCB. It was decided by the all the committee members, to take review of local bodies and accordingly to communicate the outcomes of the meeting to the Hon'ble NGT, Principal Bench. Maharashtra PCB submitted nine draft action plans of polluted river stretches of Priority I to CPCB along with minutes of 1st meeting of RRC and submitted progress report of polluted river stretches to Hon'ble NGT on 15.12.2018

- 2nd Meeting of River Rejuvenation Committee (RRC) convened on 09.01.2019.
  RRC reviewed draft action plans of polluted river stretches of Priority II prepared by Maharashtra PCB. It was decided in the meeting to add in the draft action plans funding details like source, name of scheme, timeline etc for proposed STPs by concern local bodies.

- 3rd Meeting of River Rejuvenation Committee (RRC) convened on 23.01.2019.
  RRC reviewed and finalised draft action plans of polluted river stretches of Priority I, II, III, IV and V prepared by Maharashtra PCB. RRC also decided to call the local bodies and review the timelines proposed in action plans from time to time.

- Maharashtra PCB submitted 53 draft action plans of polluted river stretches of Priority I, II, III, IV and V to CPCB along with minutes of 2nd & 3rd meeting of RRC and submitted progress report of polluted river stretches to Hon'ble NGT on 31.01.2019.

- CPCB Task Team on Polluted River Stretches called MPCB to give presentation on Action Plan for Priority-I & II polluted river stretches on 12.02.2019. Accordingly, the presentations were reviewed by Task team & few improvements in the action plan were suggested.

- 4th Meeting of River Rejuvenation Committee (RRC) held on 16/02/2019 & it was decided to communicate with Water Resource Department to maintain e-flow in the rivers of Maharashtra adopting good irrigation practices, protection & management of flood plain zone (FPZ), rain water harvesting, ground water charging, planation on both sides of river, Setting up of biodiversity parks on flood plains by removing encroachments and Urban Development department communicated to take necessary steps to provide adequate funds to urban local bodies for installation of sewage treatment & MSW processing facilities in a time bound manner so as to comply with the Hon'ble NGT.

Achievable goal:

The objective/goal of the action plan is that the quality of river water should meet with the required value as given under:-

Quality Parameter	**Standard to be achieved**
BOD	3.0 mg/l.
Dissolved Oxygen (DO)	More than 5.0 mg/l.
Faecal Coliform	Less than 500 MPN/100ml.

1.2 Background

The Godavari River rises in northwestern Maharashtra state in the Western Ghats range, only about 50 miles (80 km) from the Arabian Sea, and flows for most of its course generally eastward across the broad plateau of the Deccan (peninsular India). From its source to the Eastern Ghats, the Godavari River flows through gentle, somewhat monotonous terrain, along the way receiving the Darna, Purna, Manjra, Pranhita, and Indravati rivers.

Considering the ever increasing problem of river water pollution, Central Pollution Control Board (CPCB) decided to carry out comprehensive study on polluted river stretches. Hence accordingly directions were given to Maharashtra Pollution Control Board (MPCB) to carry out such comprehensive studies on prescribed river stretches. To assess the river water quality and ground truthing, field visits, sample collection and group discussion were carried out at all locations. The sample collection, preservation and analysis of samples were done as per methods given in the manual of American Public Health Association (APHA, 2001) and each water sample were analyzed for physico-chemical and microbiological parameters. Polluted river stretches on river Godavari is from Someshwar temple to Raher (10 locations). Major Cities/ Towns on Polluted River Stretches Major cities/ towns on polluted river stretches are Trimbakeshwar, Nasik, Kopargaon, Paithan, Gangakhed and Nanded. The sampling was carried out for all identified polluted stretches. The samples were tested for physico-chemical analysis including the metals and pesticides. With these laboratory results, it will enable to analyze the impact of human activities on the identified locations with respect to its upward and downward stream.

Figure 1 Stretch of Godavari River

Table 1 Principal Tributaries of River Godavari and its Length in km

Sr. No.	Name of River	Elevation of Source	Length of Tributary (km)	Catchment Area (sq.km.)
1.	Upper Godavari (source to Manjira confluence)	1,067	675	33502

2.	Pravara	1,050	208	6537
3.	Purna	838	373	15579
4.	Manjra	823	724	30844
5.	Middle Godavari(between Confluence points Manjra and Pranhita)	323	328	17205
6.	Maner	533	225	13106
7.	Painganga	686	676	23898
8.	Wardha	777	483	24087
9.	Pranhita	640	721	61093
10.	Lower Godavari (Pranhita Confluence to sea)	107	462	24869
11.	Indravati	914	535	41665
12.	Sabari	1,372	418	20427

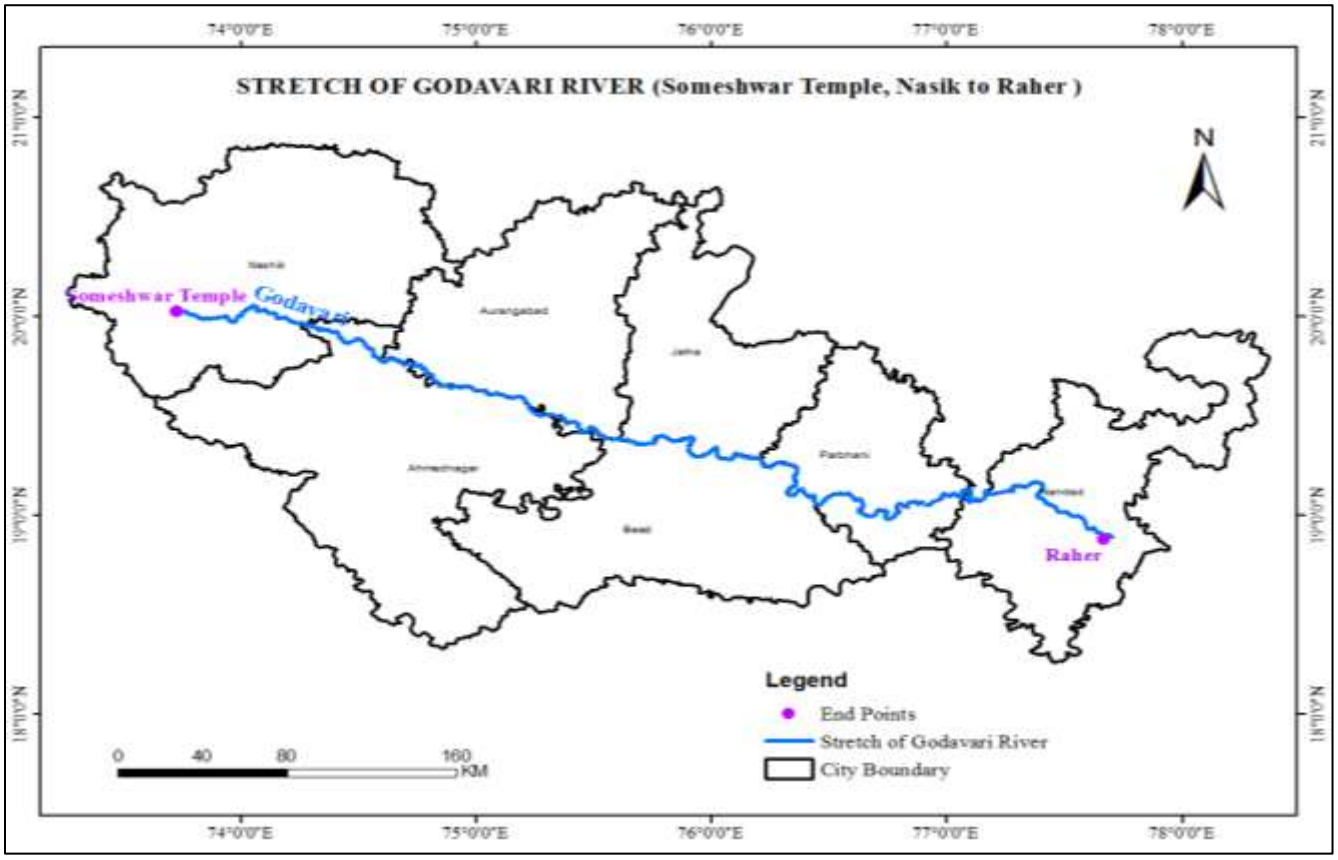


Figure 2 Map Showing Stretch of River Godavari

Table 2 Polluted River Stretches of River Godavari

River	Polluted Stretch	Monitoring Location
Godavari	Nasik D/s to Paithan	U/S of Gangapur Dam, Nasik
		Near Someshwar Temple
		Hanuman Ghat, Nasik
		Panchavati at Ramkund
		Tapovan
		Kapila Godavari, confl. Point, Tapovan
		Saikheda
		U/s of Paithan,Jayakwadi
		D/s of Paithan, Pathegaon
		Raher

The river is non-perennial in nature and the flow in non-monsoon is attributed to the release of water from various dams. Most of the river basin remains dry in lean season. The river stretch extends from Someshwar Temple in Nashik to Raher in Nanded District. Length of the stretch is approximately 504 Km. Major towns like Nashik, Nanded, Paithan, Gangakhed & Tryambakeshwar are situated on the bank of Godavari.

The current status of the river as per the monthly sampling conducted between January to December 2018 reveals that water quality of the river falls in Priority III i.e. max BOD 32 mg/l.

Table 3 Introduction of river stretch

Sr. No.	Description of item	Details
1	Approx. length of stretch	504 km
2	Major Towns located on the bank along with Population	1. Nashik 2. Tryambakeshwar 3. Paithan 4. Gangakhed 5. Nanded
3	Stretch of River Perennial or Non Perennial	Non Perennial The river flows only when water discharge from dam & rainy season.
4	Water usage in the stretch	Irrigation purpose
5	Current status of polluted river stretch (Jan – Dec 2018)	Priority I

1.3 Status of Sewage Generation and Treatment

Major cities/towns on polluted river stretches are Tryambakeshwar, Nasik, Kopargaon, Paithan, Gangakhed and Nanded.

Table 4 Status of Sewage Treatment

City Name	STP Location	STP Commissioned in (Year)	Status (Operational/Non-Operational/Under Construction)	STP Installed Capacity (MLD)	STP utilization capacity (MLD)	Technology (UASB/ASP/OP/SBR/MBR/FAB etc.)	Disposal (land, River, Sea or any other)
Nanded	STP at Elichpur, Nanded	2012	Operational	30	12	Primary & Secondary	Godavari River
	STP at Bondar, Nanded	2012	Operational	87	30	Primary & Secondary	Godavari River
	STP at Sangvi, Nanded	--	Under Construction	15	--	Primary & Secondary	--
Nashik	Chehedi STP	2006	Operational	22	20	UASB	Darna River
	Chehedi STP	2012	Operational	20	18	ASP	
	Panchak STP	2004	Operational	7.5	7	ASP	Godavari River
	Panchak STP	2012	Operational	21	20	ASP	
	Panchak STP(New)	2016	Operational	32	30	UASB+MBPR	
	Agartakali STP	2015	Operational	70	68	ASP	
	Agartakali STP	2016	Operational	40	38	UASB+MBPR	
	Tapovan STP	2003	Operational	78	75	UASB	
	Tapovan STP	2010	Operational	52	50	UASB	
	Gangapur STP	Work is in progress	Proposed	18	-	SBR	Godavari River

	Pimpalgaon Khamb STP	Work is in progress	Proposed	32	-	SBR	
Trimbakeshwar (Municipal Council)	Trimbakeshwar	-	Operational	0.7	-	Primary & Secondary	
Paithan (Municipal Council)	Paithan	-	Operational	1.7	-	Primary & Secondary	

Administrative details of these cities/towns are represented in table below:

Table 5 Major Cities/Towns on Polluted River Stretches

Sr. No.	Name of City/Town	Name of Administrative District	Class of Local Body	Population as per Census 2011
1.	Tryambakeshwar	Nasik	C class Municipal Council	168,423
2.	Nasik	Nasik	B class Municipal Corporation	1,486,053
3.	Kopargaon	Ahemadnagar	B class Municipal Council	65,273
4.	Paithan	Aurangabad	C class Municipal Council	41,536
5.	Gangakhed	Parbhani	B class Municipal Council	49,891
6.	Nanded	Nanded	C class Municipal Corporation	550,439

1.4 An insight of the Cities/ Towns Located on Godavari from Nasik D/s to Paithan

1.4.1 Tryambakeshwar

Water Supply and Sewage Generation: The source for water supply to Trimbak city is Amboli dam at a distance of 11 km from Trimbakeshwar. The capacity of the dam is 129.37 ML/ft2. The water reservation for the city is 26MCFT. During 2003, during *Sinhastha Kumbhmela*, a sewage treatment plant is constructed with MBR technology. The plant is located at the back side of the Shiva Temple with a capacity of 1.0 MLD.

1.4.2 Nasik

Water Supply Sewage Generation and Treatment: Nasik city receives piped water from two sources Gangapur dam headwork's on river Godavari, which supplies almost 1.6 million residents of NMC area and Headwork's on river Darna which services Nasik Road area.

Presently Nasik Municipal Corporation is pumping 392 MLD raw water from these two sources. The average supply of drinking water to citizen is at 150 LPCD. Nasik has Sewage Treatment Plant shaving combined capacity of 270.5 CMD and all are operating. Details of STPs are mentioned in Table below

1.4.3 Kopargaon

Situated in 19°54' north latitude and 74°33' east longitude.Kopargaon is the head-quarters of the taluka. Municipality was established in1947. Kopargaon Municipal Council is a B class Municipal Council. Water source for Kopargaon Municipal Council is Darna and Nandur Madhyameshwar dam. Water consumption of Kopargaon Municipal Council is 11 MLD and Quantity of domestic effluent generated is 7 MLD whereas there is no adequate treatment facility available to treat the sewage generated. Sanjivini (Takli) S.S. K. Ltd. is located in close proximity of river generating trade effluent 313 CMD and Domestic effluent 104 CMD. Godavari Biorefineries Ltd is also located in close proximity of river where as industry is not generating effluent.

1.4.4 Paithan

An ancient town in the Aurangabad district is located on the north bank of the river Godavari. A shrine of saint Eknath Maharaj rests on the banks of river Godavari. Paithan Municipal Council is a C class Municipal Council. Having water consumption 2.4 MLD and Sewage generation is of 1.7 MLD. There is no adequate treatment facility available to treat the sewage generated. No effluent generating industries were identified from river pollution point of view.

1.4.5 Gangakhed

It is a city and a municipal council in Parbhani district. It is situated on the bank of Godavari river it has largest number of various temples on the bank of the holly river. Water sources for town is Godavari and Masoli river. Water consumption for town is 5 MLD. Domestic waste water generation is 3.5MLD. There is no adequate treatment facility available to treat the sewage generated. No effluent generating industries were identified from river pollution point of view.

1.4.6 Nanded

It is one of the historical places in Marathwada region of Maharashtra State. It is situated on the north bank of Godavari river. It is famous for Sikh Gurudwaras. Nanded City is getting treated water from the W.S. operated by Corporation and CIDCO. The total supply is considered at 135 lpcd. City is having Godavari River as source with four head works situated on the banks of Godavari 2 in submergence of Shankar Sagar (Vishnupuri Dam) and two downstream of Dam. Treated water is served to CIDCO from WTP of capacity12.5 MLD. Major Part of the city is being served with the WTP having capacity 60MLD. Presently average rate of water supply is 85 LPCD. There are two STPs available having capacity of 87 MLD and 30 MLD.

All **domestic sewage** should be properly treated and its entry into river water should be prevented. The treatment can be carried out as follows:

- **For small villages (population less than 1000)** – root zone technology, Phytoremediation techniques can be used.
- **For small villages or municipal councils (Population 1000 to 10000)** – underground drainage system (100%) can be developed.
- **For towns and cities (Population more than 10000)** – underground drainage system (100%) can be developed

Table 6 Details of Under Construction /Proposed Sewage Treatment Plants

City/ Town	Name and Address of STP	Designed Capacity (MLD)	Source of Funds	Present status of work	Stage of Completion	Target date of Completion
Aurangabad	**Banewadi**	10	Central Government (80%) State Government (10%) ULB (10%)	-	-	Intermediate STP, DRP/design is ready. GB not granted approval.
Gangapur	**Municipal Council STP Gangapur**	4.5 + 1.0 = 5.5	Nagarothan scheme State - 90% ULB- 10%	-	-	DPR of Rs. 40.0 Cr sanctioned, tender is ready will float shortly
Paithan Municipal Council	**Paithan**	7	Paithan Apegaon Vikas Pradhikaran State - 90% ULB- 10%	underground drainage system work is in progress	Mar-19	DPR & design is ready. Out of 53 km of Undergrou

						nd drainage system 40 km is completed.
Nanded Waghala Municipal Corporation Nanded	**Sangvi**	15	Central Government 36,39,69,424 (50%) State Government 18,19,84,712 (25%) ULB 18,19,84,712(25 %)	Continues in operation	Mar-19	31/3/2019
Nashik	**Gangapur**	18	AMRUT	STP Completed SPS Ongoing	STP& SPS will be Commissioned by June 2019	June - 2019 / Delay due to land issue in Court
Nashik	**Pimpalgaon Khamb**	32	AMRUT	SPS work in progress	Work order issued	March - 2021 / Land acquisition process for required land is in progress. After getting possession of land, STP work will be started.

Table 7 Domestic sewage aspects on the river stretch

Sr No	Particular	Remarks
1	Details of drainage system/sewerage network present/proposed	Drainage work is taken up along with the STP construction work.
2	Proposal for utilization of sewage	The Infrastructure Projects are mandated by MPCB to recycle 60% of treated sewage for secondary use by providing duel pipeline. The Local Bodies will be encouraged to reuse treated sewage for various purposes including to Thermal Power Plants wherever possible. e.g. Koradi TPS is receiving 100 MLD of treated sewage from Nagpur city.
3	Ground water extraction & consumption	There is groundwater extraction either for irrigation or for domestic purpose. Specially in the dry areas of Marathwada.
4	STP sludge management	STP sludge is disinfected and used as manure.
5	Proposal for ground water recharging/rain water harvesting	The EC has mandated rainwater harvesting.
7	Adopting good irrigation practices	Agriculture Department, GoM & Water Resource Department, GoM is requested for implementation.
8	Protection and management of Flood Plain Zones (FPZ)	Water Resource Department, GoM is requested for implementation.
9	Plantation on both sides of the river	Water Resource Department, GoM is requested for implementation.
10	Setting up of biodiversity parks on flood plains by removing encroachment	Water Resource Department, GoM is requested for implementation.

Further, there are 4 STPs in Aurangabad Region, two of which have been provided by Aurangabad Municipal Corporation. The other two have been provided by the Nanded-Waghala City Municipal Corporation. The total treatment capacity of these STPs is 128.5 MLD. The total domestic effluent received at these STPs during the year 2017-18 was 51 MLD and all of it was treated by these STPs. The mean of annual performance and analysis of all STPs provided in Aurangabad Region are represented in **Table 8.**

Table 8 Mean of Annual Performance of STPs in Aurangabad Region.

Location	Parameters (mg/l)					
	pH		BOD (Mean)		S.S. (Mean)	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
CIDCO STP near Chikalthana Airport, Aurangabad	-	8.02	-	48.75	-	-
STP at Saleem Ali Sarovar, HUDCO, Aurangabad	-	7.5	-	39.63	-	-
Nanded Waghala City Municipal Corporation, Bondar STP, Nanded (87 MLD)	-	7.83	-	97	-	57
Nanded Waghala City Municipal Corporation, Elichpur STP Nanded (30 MLD)	-	7.8	-	95.14	-	53.14

It can be observed from **Table 8.** that the outlet values of BOD and suspended solids were not within the prescribed discharge standards at all locations.

In Nashik Region, There are 10 STPs in this Region of which one STP at Nandurbar is not operational as it has been commissioned only recently. The collective treatment capacity of eight of the remaining STPs is 220.8 MLD. The total domestic effluent received at these STPs during the year 2017-18 was 409.14 MLD, and the total quantity of domestic effluent treated at these STPs was 302.74 MLD. The mean of annual performance and analysis of all STPs provided in Nashik Region are represented in **Table 9.**

Table 9 Mean of Annual Performance of STPs in Nashik Region

Location	Parameters (mg/l)					
	pH		BOD (Mean)		S.S. (Mean)	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
Trimbakeshwar	7.8	7.6	101	98	NA	NA
Panchak (7.5 MLD)	7.65	7.59	118.56	46.65	NA	NA
Panchak (21 MLD)	7.59	7.46	202.78	58.85	NA	NA
Chehedi (20 MLD)	7.71	7.6	134.55	26.93	NA	NA
Chehedi (22 MLD)	7.84	7.82	97.2	35.2	NA	NA
Tapowan (78 MLD)	7.62	7.56	101.22	48.52	NA	NA
Tapowan (52 MLD)	7.69	7.67	93.78	41.08	NA	NA
Shirdi Nagar Panchyat	7.8	7.7	25	15	NA	NA
Shirpur Municipal Council, Taluka Shirpur, District Dhule	7.3	7.26	38	12	140	122

It can be seen from above **Table,** that the BOD outlet values exceeded the prescribed standard at all locations except Shirdi and Shirpur, while the outlet value of suspended solids at Shirpur was beyond the prescribed standard.

1.5 Drain out-falling in River Godavari

There are six drains that falls into the River Godavari which are as follows:

Table 10 Primary Details of Drains in Nasik city

1	**Name of Drain**		**1. Chikhali Nalla 2. Gangapur/Bardan phata nalla. 3. Someshwar 1 / 2 Nalla. 4. Anadwali Nalla**
2	Source of pollution load		1. Domestic Waste 2. Domestic Waste 3. Domestic Waste 4. Domestic Waste
3	If industrial/Mixed (name of the units & sector) and details to be confirmed from the regional officers of SPCB		NA
4	Traceable length (in km) before meeting the river (through Google earth map)		1. 2.5 Kms 2. 0.5 Kms 3. 1 kms 4. 0.5 Kms
5	Coordinate of the confluence point(if not reachable indirect through Google earth /map) (decimal units)	Latitude	1. 20°01'14.2"N 2. 20°02'09.1"N 3. 20°01'20.4"N 4. 20°01'08.4"N
		Longitude	1. 73°44'21.9"E 2. 73°43'04.3"E 3. 73°43'49.5"E 4. 73°44'49.6"E
6	Landmarks/Address of the Location		1. Near blue leaf hotel. 2. Gangapur Vilage. 3. Near Someshwar temple. 4. Near Chandasi Road.
7	Flow (if in MLLD)if Zero, indicate weather dry or stagnant		--
8	Observations		1. Domestic effluent is directly discharged into chikhali nalla by vekhe nalla from satpur area. 2. Domestic effluent is directly discharged into nalla by residential area.

		3. Domestic effluent is directly discharged into nalla by residential area. 4. Domestic effluent is directly discharged into snalla by residential area.

Table 11 Primary Details of Drain in Gangakhed city

1	Name of Drain	Kaplicha Nallah, Tal. Gangakhed, Dist. Parbhani
2	Source of pollution load	Domestic
3	If industrial/Mixed (name of the units & sector) and details to be confirmed from the regional officers of SPCB	NA
4	Traceable length (in km) before meeting the river (through Google earth map)	0.5 Km
5	Landmarks/Address of the Location	Back side of Hanuman Temple, Tal. Gangakhed, Dist. Parbhani
6	Flow (if in MLLD)if Zero, indicate weather dry or stagnant	About 5 MLD
7	Observations	1. At Present the water was stored & channelized for collection of impurities before entering into Godavari River. 2. AT present the nallah is dry

Table 12 Primary Details of Drain in Nanded City

1	Name of Drain	Chunal Nallah (Back side of Kadhakpur to Godavari river)
2	Source of pollution load	Domestic
3	If industrial/Mixed (name of the units & sector) and details to be confirmed from the regional officers of SPCB	NO
4	Traceable length (in km) before meeting the river (through Google earth map)	03 Km
5	Landmarks/Address of the Location	Nalla meets River Godavari Near Urvashi Mahadev Mandir at Daikan

6	Flow (if in MLLD)if Zero, indicate weather dry or stagnant	1 MLD
7	Observations	-

Table 13 Particulars of Drains Falling into River Godavari

S.N	Location	Name of drain	Length in kms	Discharge (MLD)
1	Nashik	Chikhali Nalla	2.5	1.5
2	Nashik	Gangapur/Bardan phata nalla.	0.5	2.5
3	Nashik	Someshwar 1 / 2 Nalla	1.0	1.0
4	Nashik	Anadwali Nalla	0.5	0.5
6	Nanded	Chunal Nalla	3	2.0

Table 14 Status of Water Quality in Drain

Sr. No.	Regional Office	Major Drain	BOD(mg/l)	COD(mg/l)
1	Nashik	Chikhali Nalla	18.0	55.2
3	Nanded	Chunal Nalla	87.0	164.0

1.6 Status of Water Quality

The river water analysis was carried out to show that the general status of the river Godavari at various stretches in the four districts viz Nasik, Ahmadnagar, Aurangabad and Nanded. These are river pollution stretches identified by the CPCB. The sampling was carried out for all identified pollution stretches. The samples were tested for physico-chemical analysis including the bacteriological analysis.

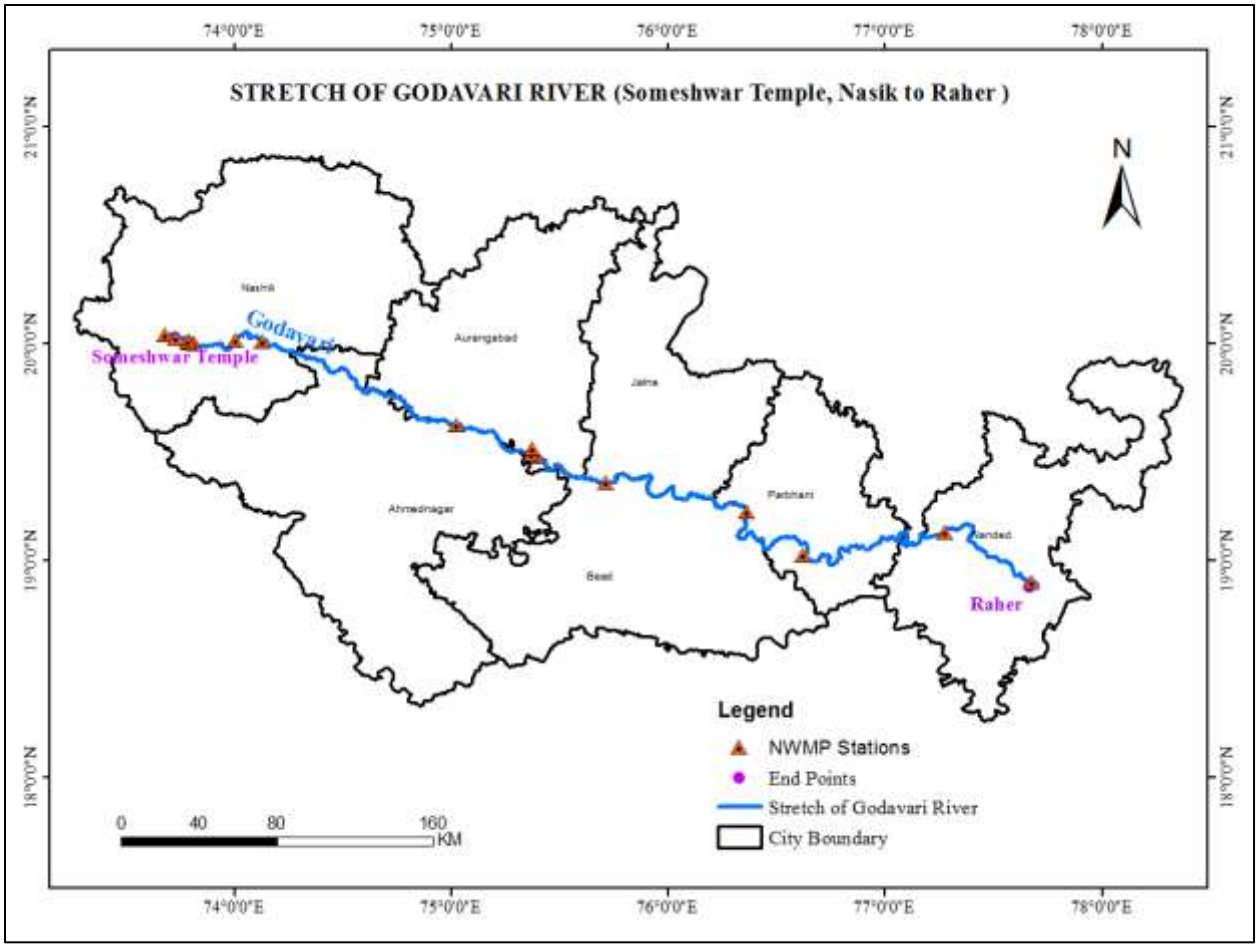


Figure 3 Map Showing NWMP Stations across Stretch of Godavari River

With these laboratory results, it will enable to analyze the impact of human activities on the identified locations with respect to its upward and downward stream. The monthly status of water quality for the year 2017 & 2018 at two NWMP locations for different parameters such as pH, DO, BOD, FC and TC are provided in the following table:

Table 15 Water Quality Monitored at Dhalegaon

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing
January	2017	8.1	7.1	4	2	140	Non Complying
	2018	8.2	5.6	6.2	2	140	Non Complying
February	2017	7.6	7	4	2	130	Non Complying
	2018	7.6	5.6	4.6	2	130	Non Complying

March	2017	8	6.8	4	2	110	Non Complying
	2018	7.7	3.2	8.2	4	130	Non Complying
April	2017	7.7	6.9	4	2	110	Non Complying
	2018	7.48	5.32	5.2	4	280	Non Complying
May	2017	7.7	6.8	4	2	140	Non Complying
	2018	7.7	5.5	5	2	140	Non Complying
June	2017	7.9	7.3	4.4	2	130	Non Complying
	2018	7.4	5	6.8	2	140	Non Complying
July	2017	8.2	6.1	3	9	250	Complying
	2018	8.1	6.6	2.9	2	140	Complying
August	2017	8.4	6.4	3	2	140	Complying
	2018	7.7	7.2	4.4	2	170	Non Complying
September	2017	8.4	7	3.2	4	170	Non Complying
	2018	7.9	6.6	4.2	2	130	Non Complying
October	2017	8.6	7	3	2	110	Complying
	2018	7.6	7.3	3.2	4	170	Non Complying
November	2017	8	6.2	4.4	2	140	Non Complying
	2018	8.18	7.37	2.6	4	140	Complying
December	2017	8.3	5.8	4.2	2	140	Non Complying
	2018	8.2	7.39	2.4	4	170	Complying

Table 16 Water Quality Monitored at U/s of Gangapur Dam

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing
January	2017	7.26	6	5	<2.0	130	Non Complying
	2018	7.89	6.2	2.8	2	58	Complying
February	2017	7.92	7.0	3.0	2	130	Complying

	2018						
March	2017	8.67	6.5	3.0	<2.0	130	Complying
	2018	7.91	6.4	3.2	2	150	Non Complying
April	2017	8.62	6.3	2.5	<2.0	130	Complying
	2018	8.21	7.2	3	1.8	170	Complying
May	2017	7.44	5.1	4	<2.0	110	Non Complying
	2018	8.16	6.3	3	4.1	140	Complying
June	2017	7.92	6.6	3	<2.0	22	Complying
	2018	8.3	5.7	5.6	2	140	Non Complying
July	2017	7.59	6.4	2.8	<2.0	22	Complying
	2018	7.24	7.1	3	1.8	150	Complying
August	2017	7.54	1.2	7	<2.0	70	Non Complying
	2018	7.69	6.5	3	1.8	140	Complying
September	2017	7.79	6.1	2.8	2	70	Complying
	2018	7.9	6.2	3	1.8	170	Complying
October	2017	8.59	6	3.2	2	58	Non Complying
	2018	7.78	6.1	3	1.8	170	Complying
November	2017	8.19	6.0	3.0	2	70	Complying
	2018	7.65	6.4	3.2	1.8	170	Non Complying
December	2017	8.31	6.1	3.6	2	58	Non Complying
	2018	7.5	6.4	3.4	1.8	140	Non Complying

Table 17 Water Quality Monitored at Panchvati, Ramkund

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing
January	2017	7.18	7	3	2	220	Complying
	2018	7.59	5.8	3.8	7	540	Non Complying
February	2017	7.18	2.1	30.0	2	350	Non Complying

	2018						
March	2017	7.97	6.7	2.5	<2	400	Complying
	2018	7.75	5.1	11.6	3.6	280	Non Complying
April	2017	7.99	5.3	6.0	9	350	Non Complying
	2018	8.09	7.1	3	1.8	240	Complying
May	2017	8.07	5	5	22	400	Non Complying
	2018	8.04	5.9	6	1.8	280	Non Complying
June	2017	7.92	6.5	3	2	26	Complying
	2018	7.94	5.9	5	4	350	Non Complying
July	2017	8.06	6.3	3	2	26	Complying
	2018	7.53	6.9	6	2	350	Non Complying
August	2017	7.63	1.6	6	2	140	Non Complying
	2018	7.58	5.7	8	1.8	220	Non Complying
September	2017	7.43	5	3.4	2	140	Non Complying
	2018	7.82	5.9	6	2	220	Non Complying
October	2017	7.83	6.1	3.2	33	350	Non Complying
	2018	7.69	5.8	6	2	220	Non Complying
November	2017	8.06	5.4	4.6	4	120	Non Complying
	2018	7.71	5.5	6.2	2	280	Non Complying
December	2017	8.30	5.9	3.8	14	280	Non Complying
	2018	7.72	5.9	4	2	240	Non Complying

Table 18 Water Quality Monitored at Raher

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing
January	2017	8.1	7.2	5	2	170	Non Complying
	2018	8.4	6	4.2	4	130	Non Complying

February	2017	7.9	7.1	3.6	2	130	Non Complying
	2018	8.1	5.5	4.6	2	110	Non Complying
March	2017	8	7.2	3	2	170	Complying
	2018	7.7	4.8	6.6	2	140	Non Complying
April	2017	7.3	7.3	3	2	130	Complying
	2018	7.9	5.1	6.4	4	120	Non Complying
May	2017	7.9	6.9	3	2	170	Complying
	2018	7.4	6.9	3.4	4	120	Non Complying
June	2017	7.9	6.8	4	2	170	Non Complying
	2018	7.2	5.1	6.6	2	130	Non Complying
July	2017	8.6	6.6	8.2	2	140	Non Complying
	2018	8.3	6.1	3.3	2	170	Non Complying
August	2017	8.4	5.6	6.2	2	110	Non Complying
	2018	7.2	7	4.6	2	140	Non Complying
September	2017	8.2	6.8	3	6	170	Complying
	2018	8.4	7.2	4.2	2	140	Non Complying
October	2017	8.6	6.2	4.8	2	130	Non Complying
	2018	8.26	7.2	4	2	130	Non Complying
November	2017	8.4	6.2	4.6	2	110	Non Complying
	2018	8	7.41	2.4	4	130	Complying
December	2017	8.2	4.8	6.2	2	140	Non Complying
	2018	7.9	7.23	3	2	130	Complying

Table 19 Water Quality Monitored at Intake of Pump house

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing
January	2017	8.1	7.2	4	2	110	Non Complying

	2018	8.4	6.8	3	2	110	Complying
February	2017	8.0	7.1	3.20	2	110	Non Complying
	2018	8.0	6.6	3.20	4	130	Non Complying
March	2017	7.9	7.0	4.00	2	130	Non Complying
	2018	8.0	5.4	4.60	2	110	Non Complying
April	2017	7.6	7.2	4.00	2	110	Non Complying
	2018	7.6	7.0	3	2	110.0	Complying
May	2017	8.3	7.1	3.80	2	140.0	Non Complying
	2018	7.2	6.6	4.80	2	110	Non Complying
June	2017	8.0	7.0	3.20	2	140	Non Complying
	2018	7.1	5.5	5.20	2	120.0	Non Complying
July	2017	8.5	6.5	6.40	4	170.0	Non Complying
	2018	8.3	7.1	2.40	2	130	Complying
August	2017	8.4	6.0	4.20	2	130	Non Complying
	2018	7.6	7.2	3.40	2	170	Non Complying
September	2017	8.1	5.2	4.80	4	140	Non Complying
	2018	8.4	7.0	5	4	170	Non Complying
October	2017	8.5	5.9	4.20	4	130	Non Complying
	2018	8.2	7.3	3.20	2	140	Non Complying
November	2017	8.5	6.8	3.20	4	130	Non Complying
	2018	8.1	7.3	2.80	2	140	Complying
December	2017	8.3	5.6	4.80	2	110	Non Complying
	2018	8	7.19	3.2	2	110	Non Complying

Table 20 Water Quality Monitored at Nasik D/s near Amardham

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing

January	2017	7.3	7.1	2.4	2	280	Complying
	2018	7.96	5.0	4	4	500	Non Complying
February	2017	7.31	2.4	22	2	280	Non Complying
	2018						
March	2017	8.16	6.4	4.0	<2	500	Non Complying
	2018	7.93	5.2	9.8	4	220	Non Complying
April	2017	8.01	4.7	8.0	<2	110	Non Complying
	2018	7.50	5.7	7	3.6	280	Non Complying
May	2017	8.37	3	6	22	400	Non Complying
	2018	8.12	5.4	7	1.8	240	Non Complying
June	2017	7.87	6.1	3.4	2	120	Non Complying
	2018	7.9	6.1	4.8	2	280	Non Complying
July	2017	8	2.5	8	2	70	Non Complying
	2018	7.51	6.9	7	1.8	210	Non Complying
August	2017	7.72	2.8	6	17	220	Non Complying
	2018	7.78	5.1	14	2	240	Non Complying
September	2017	7.69	5.9	3	2	170	Complying
	2018	7.62	5.6	8	4	300	Non Complying
October	2017	8.01	5.9	3.2	46	540	Non Complying
	2018	7.52	5.7	7.6	2	220	Non Complying
November	2017	8.00	5.8	3.6	12	150	Non Complying
	2018	7.7	5.1	6.4	2	240	Non Complying
December	2017	8.31	5.9	4.2	14	500	Non Complying
	2018	7.81	6.1	5.8	2	220	Non Complying

Table 21 Water Quality Monitored at Jaikwadi Dam

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing
January	2017	7.7	6.9	4	4	110	Non Complying
	2018	8.3	6.3	3.2	2	130	Non Complying
February	2017	8.1	7.1	3.0	2	130	Complying
	2018	8.3	6.2	3.2	4	120	Non Complying
March	2017	8.1	7.2	3.0	2	140	Complying
	2018	7.7	6.4	3.2	2	170	Non Complying
April	2017	8	7.1	3.0	2	140	Complying
	2018	7.84	6.8	4.6	4	130.0	Non Complying
May	2017	8.1	6.8	4.0	2	130.0	Non Complying
	2018	7.7	6.1	3	4	170	Complying
June	2017	8	7.0	3.0	2	140	Complying
	2018	7.3	5.5	5	2	120.0	Non Complying
July	2017	8.8	6.8	3.0	4	120.0	Complying
	2018	8.5	7.6	2	2	140	Complying
August	2017	8.3	5.9	4.4	4	170	Non Complying
	2018	7.9	7.2	3.6	2	170	Non Complying
September	2017	8.4	7.2	3.2	2	170	Non Complying
	2018	8.4	7.2	3.6	4	130	Non Complying
October	2017	8.5	7	3	2	130	Complying
	2018	8.2	7.4	3.2	2	120	Non Complying
November	2017	8.3	6.2	4.2	2	140	Non Complying
	2018	8.23	7.4	2.6	2	110	Complying
December	2017	8.3	7.0	3.0	2	170	Complying
	2018	7.93	1.7	9.5	250	1800+	Non Complying

Table 22 Water Quality Monitored at Latur Water Intake near Pump house

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing
January	2017	8.3	7	4	2	140	Non Complying
	2018	8.1	5.8	4.2	2	140	Non Complying
February	2017	8	7.0	3.0	4	170	Complying
	2018	7.6	6.4	3.4	2	140	Non Complying
March	2017	8.1	7.2	4.0	2	110	Non Complying
	2018	7.8	5.6	4.6	2	140	Non Complying
April	2017	7.8	6.9	4.0	2	170	Non Complying
	2018	7.54	5.5	5	2	130.0	Non Complying
May	2017	8.2	7.0	3.00	2	130.0	Complying
	2018	7.2	6.0	3.2	2	170	Non Complying
June	2017	8.2	6.6	4.20	2	130	Non Complying
	2018	7.5	5.6	5.2	2	110.0	Non Complying
July	2017	8.7	6.2	4.60	4	130.0	Non Complying
	2018	8.4	6.9	2.8	2	140	Complying
August	2017	7.9	4.8	8.00	4	170	Non Complying
	2018	7.5	7.3	4.2	4	170	Non Complying
September	2017	8.14	5.2	4.80	2	110	Non Complying
	2018	8.5	7.2	4	4	130	Non Complying
October	2017	8.7	6.6	4.20	4	120	Non Complying
	2018	8.32	7.3	3.1	2	110	Non Complying
November	2017	8.4	5.2	6.40	2	110	Non Complying
	2018	8.33	7.3	2.8	2	140	Complying
December	2017	8.5	6.8	3.0	2	110	Complying
	2018	8.1	7.15	3.8	2	140	Non Complying

Table 23 Water Quality Monitored at Paithan U/s of Paithan Intake Pump house

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing
January	2017	8.04	7.1	3	2	130	Complying
	2018	8.3	6.4	4.8	4	120	Non Complying
February	2017	7.7	6.8	5.0	2	140	Non Complying
	2018	8.3	5.3	4.2	2	110	Non Complying
March	2017	8	7.2	4.0	4	170	Non Complying
	2018	7.8	3.1	8	2	130	Non Complying
April	2017	8.1	7.1	3	2	130	Complying
	2018	7.79	6.9	3.2	2	110.0	Non Complying
May	2017	8	6.9	3.0	2	140.0	Complying
	2018	7.9	6.6	4.6	2	110	Non Complying
June	2017	8.7	7.3	2.8	2	130	Complying
	2018	7.3	5.3	6.4	2	130.0	Non Complying
July	2017	8.9	6.6	6.2	2	110.0	Non Complying
	2018	8.5	7.3	2.2	4	120	Complying
August	2017	8.2	5.2	6.4	4	130	Non Complying
	2018	7.9	7.3	3.6	2	140	Non Complying
September	2017	8.3	4.8	4.6	2	130	Non Complying
	2018	8.2	7.3	3.4	2	110	Non Complying
October	2017	8.6	6.8	4.8	2	140	Non Complying
	2018	8.17	7.2	3.3	2	140	Non Complying
November	2017	8.4	6.8	3.0	2	170	Complying
	2018	8.35	7.4	2.4	2	120	Complying
December	2017	8.3	5.6	6.2	2	110	Non Complying
	2018	7.9	7.35	2.6	2	110	Complying

Table 24 Water Quality Monitored at D/s of Paithan at Pathegaon Bridge

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing
January	2017	8.11	7	5	2	140	Non Complying
	2018	8.2	5.4	6.4	2	110	Non Complying
February	2017	8	6.9	4.0	4	170	Non Complying
	2018	8.3	6.8	3	2	140	Complying
March	2017	8	7.0	5	2	130	Non Complying
	2018	8	6.8	3	4	120	Complying
April	2017	8	7.1	4	2	130	Non Complying
	2018	7.83	6.2	4.4	2	140.0	Non Complying
May	2017	8.2	7.1	2.8	2	170.0	Complying
	2018	7.9	5.0	6.6	4	130	Non Complying
June	2017	8.4	7.4	2.6	2	170	Complying
	2018	7.3	6.8	3.2	2	110.0	Non Complying
July	2017	8.9	6.6	3.2	4	130.0	Non Complying
	2018	8.5	7.3	2.2	2	110	Complying
August	2017	8.2	6.4	3.2	2	110	Non Complying
	2018	7.9	7.3	3.4	2	140	Non Complying
September	2017	8.4	7.0	3.2	4	130	Non Complying
	2018	8	7.5	3	2	130	Complying
October	2017	8.5	6.2	4.8	4	170	Non Complying
	2018	8.18	7.1	3.9	2	140	Non Complying
November	2017	8.4	6.8	3.0	2	130	Complying
	2018	8.47	7.3	2.8	2	120	Complying
December	2017	8.1	5.8	6.2	2	130	Non Complying
	2018	8	7.38	2.4	2	140	Complying

Table 25 Water Quality Monitored at U/s of Aurangabad Reservoir Kaigaon Tokka near Kaigaon Bridge

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing
January	2017	8.08	7.1	4	4	170	Non Complying
	2018	8.4	6.2	4	2	170	Non Complying
February	2017	7.8	6.9	5	2	140	Non Complying
	2018	8.3	5.2	4	4	130	Non Complying
March	2017	8.1	7.1	3	2	140	Complying
	2018	7.7	4.7	6.6	2	110	Non Complying
April	2017	8.1	6.9	3.0	2	140	Complying
	2018	7.8	4.6	6.2	2	170.0	Non Complying
May	2017	8.1	7.2	3.2	2	140.0	Non Complying
	2018	8	5.2	6.4	2	110	Non Complying
June	2017	8.4	6.8	3.2	2	130	Non Complying
	2018	6.9	3.9	8.2	4	170.0	Non Complying
July	2017	8.9	6.9	4.4	6	170.0	Non Complying
	2018	8.5	7.2	2.4	2	110	Complying
August	2017	8.1	6.4	3.2	2	130	Non Complying
	2018	7.8	7.5	3.2	4	130	Non Complying
September	2017	8.5	5.2	6.4	2	140	Non Complying
	2018	8.3	7.4	3.2	2	140	Non Complying
October	2017	8.5	7.2	3	4	120	Complying
	2018	8.14	7.2	3.8	4	130	Non Complying
November	2017	8.4	7.2	3.0	2	110	Complying
	2018	8.51	7.3	3.2	2	140	Non Complying
December	2017	8.2	6.4	4.2	4	120	Non Complying
	2018	8.1	7.28	2.28	2	130	Complying

Table 26 Water Quality Monitored at Jalna Intake Water Intake Water Pump house, Shahagad

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing
January	2017	8	7	7	2	130	Non Complying
	2018	8.4	6.2	4	2	110	Non Complying
February	2017	8.0	6.9	6	2	110	Non Complying
	2018	7.9	5.5	4.6	4	170	Non Complying
March	2017	8.3	6.9	4.0	2	130	Non Complying
	2018	7.9	5.3	4.8	2	110	Non Complying
April	2017	7.6	7.2	4.0	2	140	Non Complying
	2018	7.6	5.5	5	2	140.0	Non Complying
May	2017	8.3	7.1	3.2	2	130.0	Non Complying
	2018	7.7	6.8	3.2	2	140	Non Complying
June	2017	8.0	6.7	4.4	2	140	Non Complying
	2018	7.2	5.5	5	2	110.0	Non Complying
July	2017	8.7	6.5	8.0	2	110.0	Non Complying
	2018	8.4	7.0	2.8	2	110	Complying
August	2017	8.0	6.0	4.2	2	140	Non Complying
	2018	7.7	7.4	3.6	4	170	Non Complying
September	2017	8.0	7.2	3.2	2	110	Non Complying
	2018	8.5	7.5	3.2	4	120	Non Complying
October	2017	8.7	6.9	3.0	2	110	Complying
	2018	8.2	7.3	3.6	2	130	Non Complying
November	2017	8.0	6.8	3.0	4	170	Complying
	2018	8.3	7.3	3	2	140	Complying
December	2017	8.1	6.6	3.0	4	130	Complying
	2018	8	7.24	3	2	120	Complying

Table 27 Water Quality Monitored at Someshwar Temple

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing
January	2017	7.27	6.2	6	<2	140	Non Complying
	2018	7.62	6.0	3	2	110	Complying
February	2017	7.88	NIL	60	2	170	Non Complying
	2018						
March	2017	8.17	6.7	2.5	2	240	Complying
	2018	8.09	5.3	8.6	2	280	Non Complying
April	2017	8.91	6.0	3.0	<2	110	Complying
	2018	8.09	7.0	3	1.8	210	Complying
May	2017	7.47	5	4	2	140	Non Complying
	2018	8.22	6.8	3	1.8	170	Complying
June	2017	7.8	6.5	3	2	70	Complying
	2018	8.19	6	4.2	1.8	140	Non Complying
July	2017	7.93	5.8	4	2	70	Non Complying
	2018	7.87	7.2	3.2	1.8	220	Non Complying
August	2017	7.68	2.2	6	2	130	Non Complying
	2018	8.11	5.9	7.2	1.8	170	Non Complying
September	2017	7.81	5.8	3	2	140	Complying
	2018	7.8	5.8	7	2	280	Non Complying
October	2017	8.26	5.3	4.2	17	210	Non Complying
	2018	7.8	5.6	6.2	1.8	170	Non Complying
November	2017	8.13	6.1	3.0	4	140	Complying
	2018	7.7	5.9	4.8	1.8	140	Non Complying
December	2017	8.31	6.2	3.0	2	150	Complying
	2018	7.76	5.9	6.2	1.8	220	Non Complying

Table 28 Water Quality Monitored at Hanuman Ghat

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing
January	2017	7.69	6	5	2	280	Non Complying
	2018	7.69	5.8	4	11	500	Non Complying
February	2017	7.36	2.6	26	2	220	Non Complying
	2018						
March	2017	8.14	6.5	3	2	220	Complying
	2018	8.56	2.9	20	4	350	Non Complying
April	2017	7.93	5.8	4.5	<2	130	Non Complying
	2018	8.03	6.4	4	1.8	220	Non Complying
May	2017	7.96	4.5	6	14	150	Non Complying
	2018	7.94	5.9	6	1.8	220	Non Complying
June	2017	7.79	6.8	3	2	140	Complying
	2018	7.74	6.4	3.8	2	220	Non Complying
July	2017	8.14	5.5	4	2	140	Non Complying
	2018	7.46	6.0	4.8	1.8	280	Non Complying
August	2017	7.7	1.2	8	17	230	Non Complying
	2018	7.53	4.9	13	2	240	Non Complying
September	2017	7.9	5.9	3	11	220	Complying
	2018	7.6	5.2	8	4	350	Non Complying
October	2017	7.95	6	3.2	33	350	Non Complying
	2018	7.8	6	4.2	1.8	170	Non Complying
November	2017	7.85	4.2	4.0	25	430	Non Complying
	2018	7.5	6	6.8	2	220	Non Complying
December	2017	8.20	5.9	3.0	4	220	Complying
	2018	7.76	6.5	8	1.8	170	Non Complying

Table 29 Water Quality Monitored at Tapovan

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing
January	2017	7.36	4.2	8	<2	220	Non Complying
	2018	7.90	5.2	3.8	7	500	Non Complying
February	2017	7.26	NIL	80.0	7	350	Non Complying
	2018						
March	2017	8.66	6.6	3.0	<2	220	Complying
	2018	8.13	4.4	17	3.6	280	Non Complying
April	2017	8.66	5.1	9	4	220	Non Complying
	2018	8.03	5.9	6	1.8	210	Non Complying
May	2017	8.35	2.3	6.8	40	710	Non Complying
	2018	8.1	5.8	6	1.8	210	Non Complying
June	2017	7.8	6.1	4	2	150	Non Complying
	2018	7.98	5.9	4.6	2	240	Non Complying
July	2017	8.3	5.4	4	120	540	Non Complying
	2018	7.61	5.4	9	1.8	220	Non Complying
August	2017	7.65	2.9	6	11	280	Non Complying
	2018	7.74	3.6	21	2	220	Non Complying
September	2017	7.81	6	3	11	210	Complying
	2018	7.7	5	13	2	280	Non Complying
October	2017	7.7	4.6	6	63	540	Non Complying
	2018	7.7	5.9	5.6	1.8	220	Non Complying
November	2017	8.10	6.1	3.0	21	540	Complying
	2018	7.7	6.1	5.2	2	220	Non Complying
December	2017	8.15	5.7	4.0	120	540	Non Complying
	2018	7.84	5	12	2	220	Non Complying

Table 30 Water Quality Monitored at Kapila-Godavari Confluence Point

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing
January	2017	7.24	6.4	4	<2	140	Non Complying
	2018	7.81	5.0	4.4	7	540	Non Complying
February	2017	6.81	NIL	70.0	4	350	Non Complying
	2018						
March	2017	8.21	6.9	3.0	<2	280	Complying
	2018	8.14	4.2	21	4	430	Non Complying
April	2017	8.52	5.2	8	2	240	Non Complying
	2018						
May	2017	8.14	1.8	10	22	400	Non Complying
	2018	8.16	5.6	7	1.8	170	Non Complying
June	2017	7.75	4.6	5.8	2	150	Non Complying
	2018						
July	2017	8.07	4.9	4.4	120	540	Non Complying
	2018	7.54	5.8	6	1.8	280	Non Complying
August	2017	7.4	1.2	9	14	400	Non Complying
	2018	7.39	2.4	32	2	280	Non Complying
September	2017	7.51	4.8	5	17	270	Non Complying
	2018	7.7	4.2	18	4	300	Non Complying
October	2017	7.76	6.2	2.4	63	540	Complying
	2018	7.7	6	6.4	1.8	170	Non Complying
November	2017	7.59	BDL	10.0	21	540	Non Complying
	2018	7.7	6.1	4.4	1.8	170	Non Complying
December	2017	8.05	5.8	4.0	120	540	Non Complying
	2018	7.81	5.4	10	2	280	Non Complying

Table 31 Water Quality Monitored at Saikheda

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing
January	2017	7.86	6.2	4.2	<2	140	Non Complying
	2018	7.80	5.8	3.4	4	350	Non Complying
February	2017	7.76	6.0	5.0	2	110	Non Complying
	2018						
March	2017	7.16	6.0	6.0	2	130	Non Complying
	2018	8.30	5.8	4.8	2	120	Non Complying
April	2017	8.36	5.6	4.0	<2	130	Non Complying
	2018	8.17	6.8	4	1.8	170	Non Complying
May	2017						
	2018	8.16	5.7	6	1.8	170	Non Complying
June	2017	7.35	6.3	3	2	140	Complying
	2018	7.46	5.4	4.8	1.8	240	Non Complying
July	2017	8.29	3.1	6	2	150	Non Complying
	2018	7.9	6.8	4.8	1.8	280	Non Complying
August	2017	7.69	5	4.2	2	110	Non Complying
	2018	7.9	5.9	6	1.8	140	Non Complying
September	2017	7.44	5.8	2.6	2	110	Complying
	2018	7.78	6.0	5	1.8	140	Non Complying
October	2017						
	2018	7.64	6.1	5.8	1.8	220	Non Complying
November	2017	8.32	5.1	4.0	2	110	Non Complying
	2018	7.65	6.1	4.8	2	280	Non Complying
December	2017	7.86	6.4	3.0	2	70	Complying
	2018	7.16	6.2	3	1.8	170	Complying

Table 32 Water Quality Monitored at Nandur-Madhameshwar Dam

Month	Year	pH (6.5-8.5)	DO (mg/L), 05 Mg/L or More	BOD (mg/L), 03 Mg/L or Less	FC MPN /100ml	TC MPN /100ml	Water Qality Criteria of Bathing
January	2017	8.02	6.8	3.2	<2	130	Non Complying
	2018	7.59	6.1	3	4.9	150	Complying
February	2017	7.72	6.0	5	2	170	Non Complying
	2018						
March	2017	8.15	6.6	3.0	2	110	Complying
	2018	8.41	6.4	3.8	2	150	Non Complying
April	2017	8.90	6.2	3.0	<2	110	Complying
	2018	8.32	7.1	3	1.8	240	Complying
May	2017	8.1	5.6	4	<2	110	Non Complying
	2018	8.11	6.0	5	1.8	110	Non Complying
June	2017	7.42	6.5	3	2	110	Complying
	2018	7.42	6.2	3.4	1.8	170	Non Complying
July	2017	8.27	6.4	2.8	2	140	Complying
	2018	7.58	6.1	5	1.8	170	Non Complying
August	2017	7.9	4.8	4.4	2	120	Non Complying
	2018	7.9	6.2	6	1.8	130	Non Complying
September	2017	7.5	6.1	2.6	2	110	Complying
	2018	7.66	6.8	5	2	170	Non Complying
October	2017						
	2018	7.78	5.7	7.2	1.8	170	Non Complying
November	2017	8.32	5.7	3.6	2	150	Non Complying
	2018	7.64	6.2	3.6	1.8	220	Non Complying
December	2017	8.19	6.1	3.6	2	58	Non Complying
	2018	7.34	6.5	4.2	1.8	130	Non Complying

It is observed from above analysis, that most of the location are not complying to the bathing standards of 3mg/lit of BOD. That is due to non-availability of the dilution water at disposal location in the river bed. The necessary dilution will be achieved by way of discharging necessary water quantum required to maintain e-flow from dam in a periodical manner. The usual water cycle of the release of water is mostly for irrigation and domestic purposes from interval of 21 days to 45days. The continuous e-flow will be achieved subject to availability of the water in the dam.

The stations located at Nasik are showing higher levels of the BOD, whereas other locations downstream of Nasik shows BOD in the range of <10mg/lit. Only at 5 locations in the entire analysis is showing BOD >10mg/lit due non availability of the sewaerage system in Nasik city to collect sewage from slum area.

1.7 Status of Ground Water Quality

Maharashtra Pollution Control Board (MPCB) regularly monitors the water quality across 250 Water Quality Monitoring Stations (WQMS) for both surface (155 on rivers, 34 on sea/creeks, 10 on drains, 1 dam) and ground water (24Borewells, 24Dugwell, 1 Handpumps, 1 Tubewell) under two programs of NWMP (National Water Monitoring Programme) project titled GEMS (Global Environment Monitoring System) and MINARS (Monitoring of Indian National Aquatic Resources). Surface water samples are monitored every month whereas the ground water samples are monitored every six months.

WQI for ground water

MPCB monitors ground water quality once in six months. Based on the stringency of the parameters and its relative importance in the overall quality of water for drinking purposes each parameter has been assigned specific weightage by CPCB. These weights indicate the relative harmfulness when present in water. Nine parameters (pH, Total Hardness, Calcium Hardness, Magnesium Hardness, Chloride, Total Dissolved Solids, Fluoride, Nitrate, Sulphate) are considered for calculating Water Quality Index of ground water.

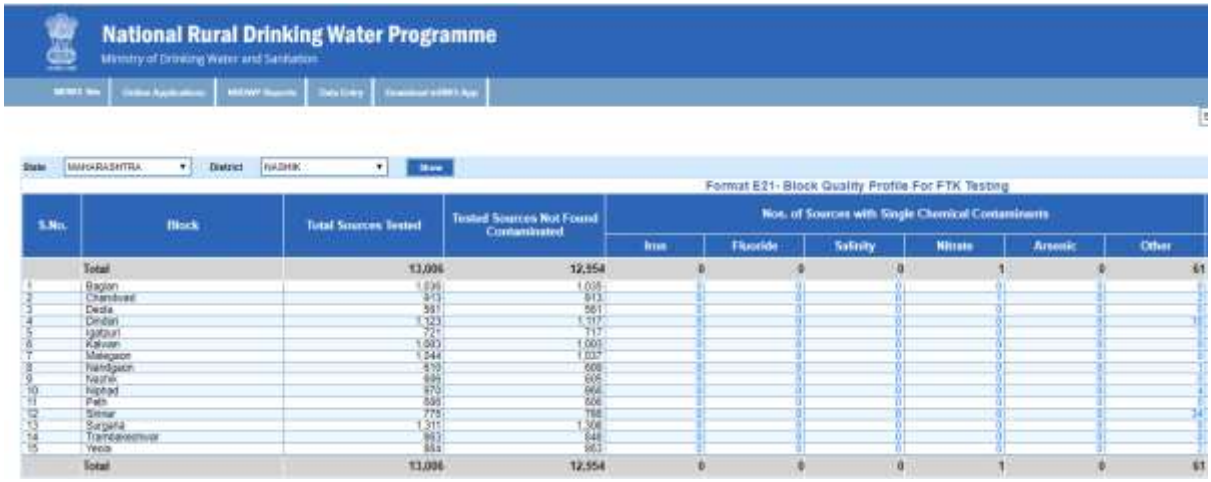
Water Quality Index - Ground Water		
WQI	**Water Quality**	**Colour Code**
<50	Excellent	
50-100	Good Water	
100-200	Poor Water	
200-300	Very Poor Water	
>300	Water Unsuitable for drinking	

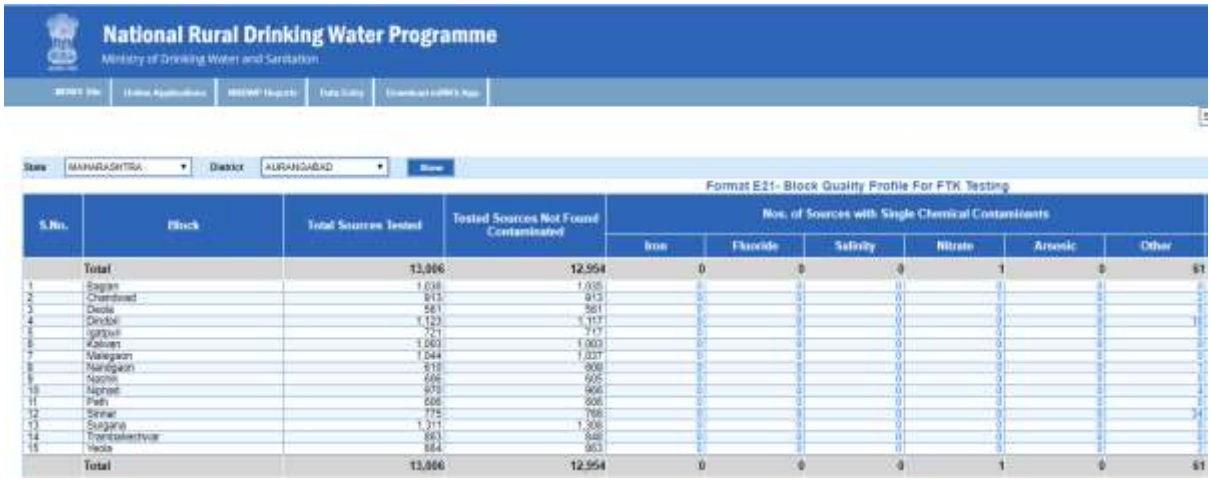
Table 33 Water Quality Index for 156 locations (surface water & ground water) during January - 2019

WQI Category	WQI	Number of WQI values in different category	
		No. of WQI	% of WQI
Good to Excellent	63-100	98	73.68
Medium to Good	50-63	12	9.02
Bad	38-50	9	6.77
Bad to Very Bad	38 and less	14	10.53
Total WQI values		133	100

Summary:

1. 110 WQI values or 82.70 % values are in category of Good to Excellent and Medium to Good.
2. 9 WQI values or 6.77 % are in category of Bad.
3. 14 WQI values or 10.53 % are in category of Bad to Very Bad.





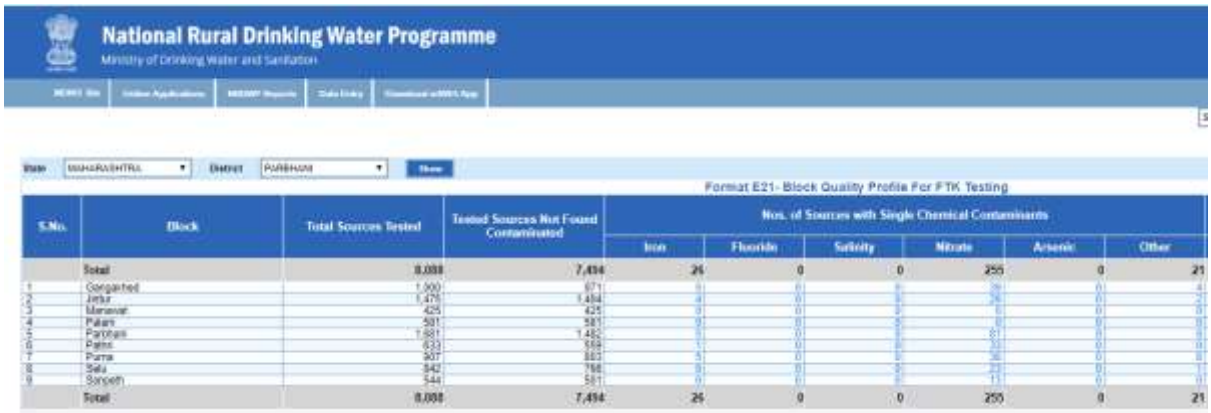
National Rural Drinking Water Programme

Ministry of Drinking Water and Sanitation

State: MAHARASHTRA District: AURANGABAD

Format E21- Block Quality Profile For FTK Testing

S.No.	Block	Total Sources Tested	Tested Sources Not Found Contaminated	Nos. of Sources with Single Chemical Contaminants					
				Iron	Fluoride	Salinity	Nitrate	Arsenic	Other
	Total	13,006	12,954	0	0	0	1	0	51
1	Sagar	1,038	1,035	0	0	0	0	0	3
2	Chambad	913	913	0	0	0	0	0	0
3	Deola	561	561	0	0	0	0	0	0
4	Dindori	1,123	1,117	0	0	0	0	0	6
5	Igatpuri	721	717	0	0	0	0	0	4
6	Kalwan	1,003	1,003	0	0	0	0	0	0
7	Malegaon	1,044	1,037	0	0	0	0	0	7
8	Nandgaon	918	909	0	0	0	0	0	9
9	Nashik	606	605	0	0	0	0	0	1
10	Niphad	970	966	0	0	0	0	0	4
11	Peth	686	686	0	0	0	0	0	0
12	Sinnar	799	765	0	0	0	0	0	34
13	Surgana	1,311	1,308	0	0	0	0	0	3
14	Trambakeshwar	863	848	0	0	0	0	0	15
15	Yeola	864	863	0	0	0	0	0	1
	Total	13,006	12,954	0	0	0	1	0	51



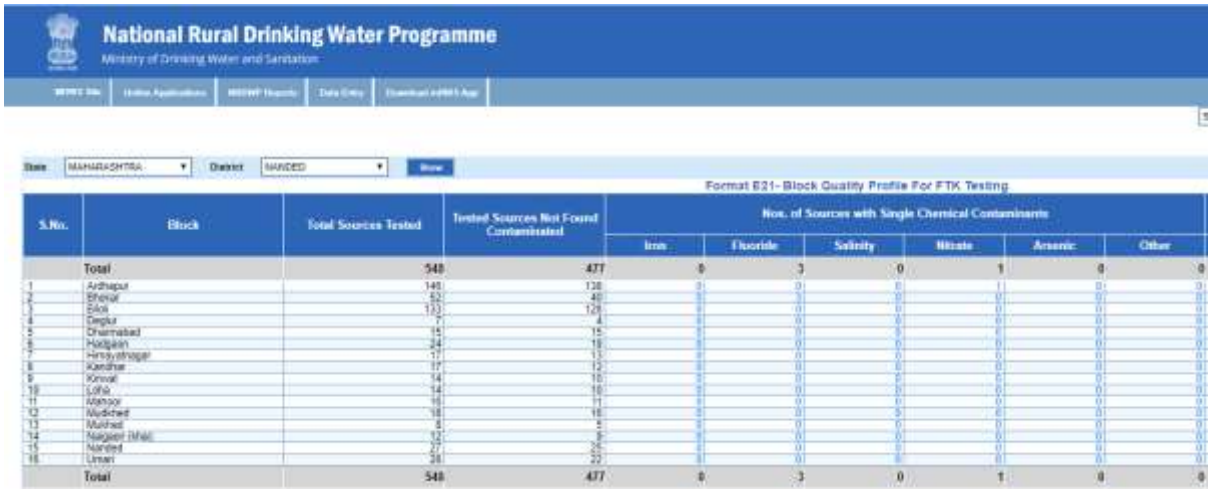
National Rural Drinking Water Programme

Ministry of Drinking Water and Sanitation

State: MAHARASHTRA District: PARBHANI

Format E21- Block Quality Profile For FTK Testing

S.No.	Block	Total Sources Tested	Tested Sources Not Found Contaminated	Nos. of Sources with Single Chemical Contaminants					
				Iron	Fluoride	Salinity	Nitrate	Arsenic	Other
	Total	8,008	7,494	26	0	0	255	0	21
1	Gangakhed	1,300	671	0	0	0	26	0	4
2	Jintur	1,470	1,454	0	0	0	14	0	2
3	Manwat	425	425	0	0	0	0	0	0
4	Palam	581	581	0	0	0	0	0	0
5	Parbhani	1,881	1,482	0	0	0	81	0	8
6	Pathri	833	559	0	0	0	92	0	0
7	Purna	907	883	5	0	0	31	0	8
8	Selu	842	766	0	0	0	20	0	1
9	Sonpeth	544	581	0	0	0	11	0	0
	Total	8,008	7,494	26	0	0	255	0	21



National Rural Drinking Water Programme

Ministry of Drinking Water and Sanitation

State: MAHARASHTRA District: NANDED

Format E21- Block Quality Profile For FTK Testing

S.No.	Block	Total Sources Tested	Tested Sources Not Found Contaminated	Nos. of Sources with Single Chemical Contaminants					
				Iron	Fluoride	Salinity	Nitrate	Arsenic	Other
	Total	548	477	0	3	0	1	0	0
1	Ardhapur	148	138	0	0	0	1	0	0
2	Bhokar	52	48	0	0	0	0	0	0
3	Biloli	133	128	0	0	0	0	0	0
4	Degloor	4	4	0	0	0	0	0	0
5	Dharmabad	15	15	0	0	0	0	0	0
6	Hadgaon	19	19	0	0	0	0	0	0
7	Himayatnagar	17	13	0	0	0	0	0	0
8	Kandhar	17	12	0	0	0	0	0	0
9	Kinwat	14	10	0	0	0	0	0	0
10	Loha	14	10	0	0	0	0	0	0
11	Mahoor	16	11	0	0	0	0	0	0
12	Mudkhed	18	10	0	0	0	0	0	0
13	Mukhed	5	5	0	0	0	0	0	0
14	Naigaon (Khe)	12	9	0	0	0	0	0	0
15	Nanded	27	26	0	0	0	0	0	0
16	Umari	28	23	0	0	0	0	0	0
	Total	548	477	0	3	0	1	0	0

Shows there is no contamination of metals in above mentioned blocks in Nashik, Aurangabad and Parbhani district as per the published data of NRDWP, Ministry of drinking water and sanitation.

Nanded District shows a little amount of Fluoride contamination due to leaching of rocks.

1.8 Status of Industrial Effluent and Treatment facilities

The industrial Statistics in Aurangabad & Nashik region is represented in following Table.

Aurangabad		
LSI	**MSI**	**SSI**
269	22	5378
136	80	2004
208	105	854
White - 26		
Nashik		
LSI	**MSI**	**SSI**
337	45	6117
173	61	2312
458	112	2056
White - 93		

In Aurangabad Region, there is one operational CETP provided viz. M/s. Waluj CETP Pvt. Ltd. located at MIDC Area, Waluj with a treatment capacity of 10 MLD. The collective amount of effluent generated by industries in Aurangabad was 63 MLD. However, data on quantity of industrial effluent being treated at this CETP is not currently available. Performance of the CETP is presented in **Table 34.**

Table 34 Statistical Analysis Data for CETP Performance in Aurangabad Region

Parameters (mg/l)			**Location**
			SMS Waluj CETP Pvt. Ltd.
Inlet	**BOD (mg/l)**	**Min.**	0
		Max.	1750
		Mean	187
		SD.	152
	COD (mg/l)	**Min.**	0
		Max.	4320
		Mean	474
		SD.	340
Outlet	**BOD (mg/l)**	**Min.**	27
		Max.	170
		Mean	38
		SD.	2
	COD (mg/l)	**Min.**	88
		Max.	520

		Mean	116
		SD.	16

From Table 34. it is evident that the CETP at Aurangabad was performing well with more than 80% efficiency in reducing BOD and more than 74% efficiency in reducing COD. Also the post treatment concentrations of BOD and COD were within the prescribed discharge limits of 100 mg/l and 250 mg/l respectively.

In Nanded no Industrial Estate and No Industry is located about 2 km radius of the river. 2 Nos of MIDC's i.e MIDC Nanded and MIDC Krushnoor are located more than 2.0 kms and 10.0 kms from the river respectively. Major industries are Agrobase and Engineering industries. No CETP exists in this jurisdiction.

In Nashik No Industrial Estate and No Industry is located about 1 kms radius of the river. 2 nos of MIDC's i.e MIDC Satpur and MIDC Ambad located more than 2.5 kms and 4.0 kms from the river respectively. Major industries are Engineering and Automobile Industries. No CETP exists in this jurisdiction.

In Paithan no effluent generating industry is located in the catchment area of the Godavari river basin.

In Gangakhed no industry located in the catchment area.

Table 35 District wise particulars of Industries

	Category of Industries	**No of Industries**	**Remarks**
Nanded	Orange	487	1. No Industrial Estate and No Industry is located about 2 km radius of the river 2. No CETP exists in this jurisdiction. 3. 2 Nos of MIDC's i.e MIDC Nanded and MIDC Krushnoor located more than 2.0 kms and 10.0 kms from the river respectively. Major industries are Agrobase and Engineering industries. 4. 8 effluent generating units: Water consumption – 2 MLD Industrial effluent – 0.45 MLD Domestic effluent – 0.15 MLD
	Red	224	

Nashik	Orange	1221	1. No Industrial Estate and No Industry is located about 1 kms radius of the river 2. No CETP existing in this jurisdiction. 3. 2 nos of MIDC's i.e MIDC Satpur and MIDC Ambad located more than 2.5 kms and 4.0 kms for the river respectively. Major industries are Engineering and Automobile Industries. 4. However 1 no of Common Bio medical site is located at the bank of the River Godavari. They have provided Full-fledged Treatment facility. 5. MIDC Satpur – 0.5 MLD proposed CETP will be operational in 1 year with ZLD condition. Total 800 Industries. Most are engineering units except 45 effluent generating electroplating units. 21 MLD water supply – 16 MLD domestic effluent + 1.5 MLD industrial effluent
	Red	1326	
Aurangabad	Orange	934	1. Aurangabad (Paithan – River Godavari) - No any effluent generating industry is located in the catchment area of the Godavari river basin near Paithan city. 2. Water Consumption – Waluj MIDC – 18 MLD (40 Kms from river basin, 4.5 MLD CETP operational) Shendra – 5 MLD Chikalthana – 4 MLD Paithan – 1 MLD (Tiny industries – mostly green and orange)
	Red	1189	

Table 36 Particulars of Industries

Sr No	Particular	Remarks
1	Particulars of Industries	Details provided in Table 31
2	No. of Directions issued to Industries	Nil
3	Total water consumption and total	--

	industrial effluent generation	
4	No. of industries having captive ETPs	All Units
5	No. of CETPs existing in the catchment of the polluted river stretch and the treatment capacity	There is one CETP in MIDC waluj area of Capacity 10 MLD & its treated effluent discharge point is in the Kham River which further meets to Jaikwadi Dam. But, all water from Kham river is lifted by nearby farmers. The said CETP is not located in the catchment area of the polluted river stretch of Godavari River & the said CETP is most of the time complied with the consented standards. No CETP in Nashik District.
6	No. of Industries that are members of the CETPs	528 Nos. of industries are the members of CETP
7	Gaps in treatment of industrial effluent	The industries are achieving the consented standards. Hence, no Gap and no Industry is allowed to discharge effluent in river.
8	OCEMS installation Status by Industries	05
9	Status of Hazardous Waste Generation and Treatment	HW generated from industry is disposed through CHWTSDF. Maharashtra Enviro Power Ltd. MIDC, Ranjangaon, Dist. Pune Capacity – Landfill – 60000 TPA Incinerable – 20000 TPA Lifespan – 20 years

1.9 Waste Management

Table 37 Status of Waste Management

Sr. No	Particular	Remarks
1	Total MSW Generation	

City/Town	Population	Qty Generated (MT/day)
Nashik M. Corporation.	17,00,000	558.0
Trimbakeshwar M. Council	12,000	6.0
Gangakhed M. Council	49,891	16.0
Paithan M.Council	41,536	6.0
Nanded-Waghala M. Corporation	5,55,000	250.0

<table>
<tr><td>2</td><td>Existing MSW treatment and disposal facilities</td><td>
<table>
<tr><th>City/Town</th><th>Qty Treated (MT/day)</th><th>Identified Sites</th><th>MSW Processing facility</th></tr>
<tr><td>Nashik M. Corporation.</td><td>501.0</td><td>Sr. No. 278, Pathardi Shivar, Dist-Nashik</td><td>Composting , Leachate Treatment, RDF, Biomethanation, SLF, Plastic processing plant, Carcass incineration</td></tr>
<tr><td>Trimbakeshwar M. Council</td><td>4.0</td><td>G. N. 49,Vill-Kojuli, Trimbakeshwar</td><td>Composting Bio Methanation</td></tr>
<tr><td>Gangakhed M. Council</td><td>3.5</td><td>Gut. No. 72 of Village Pimpri,Dist-Parbhani</td><td>Composting, Landfill</td></tr>
<tr><td>Paithan M.Council</td><td>NIL</td><td>S. No 54, Panthewadi.,Dist-Aurnagabad</td><td>Dumping</td></tr>
<tr><td>Nanded-Waghala M. Corporation</td><td>NIL</td><td>Gut No.372,Vill-Tuppa Dist-Nanded.</td><td>Dumping</td></tr>
</table>
</td></tr>
<tr><td>3</td><td>Bio-medical waste Management</td><td>
<table>
<tr><th>District</th><th>Qty Generated (Kg/day)</th><th>Treatment Capacity</th></tr>
<tr><td>Nashik</td><td>3000</td><td>Incinerator - 250 Kg/Hr
Autoclave - 400 litr/cycle</td></tr>
<tr><td>Aurangabad</td><td>1600</td><td>Incinerator - 250 Kg/Hr
Autoclave - 400 litr/cycle</td></tr>
<tr><td>Nanded</td><td>904</td><td>Incinerator - 100 kg/hr
Autoclave - 50 litr/cycle</td></tr>
</table>
</td></tr>
<tr><td>4</td><td>E-Waste management</td><td>E-waste generated by industries is sent to MPCB authorized E-waste reprocessor.</td></tr>
<tr><td>5</td><td>Hazardous Waste Management</td><td>HW generated from industry is disposed through CHWTSDF.

Maharashtra Enviro Power Ltd.
MIDC, Ranjangaon, Dist. Pune
Capacity –
Landfill – 60000 TPA
Incinerable – 20000 TPA
Lifespan – 20 years</td></tr>
</table>

1.10 Dream Project of Government of Maharashtra (GOM), Namami Chndrabhaga

GOM, has announced Namami Chandrabhaga Abhiyan on 18/03/2016 in the Budgetary Assembly Session of 2016-17. Namami Chandrabhaga is an initiative taken to revive and

rejuvenate the river Chandrabhaga and to restore its historic glory. Considering the religious, social and economic importance of the river Chandrabhaga, the Government of Maharashtra has decided to prepare a comprehensive plan for cleaning of the river on the lines of 'NamamiGange'. Hon'ble Finance Minister, GOM, directed to issue the GR about finalization of working System of the Abhiyan, vide letter dt. 07/04/2016. The aim of the Namami Chandrabhaga Abhiyan is to make the Chandrabhaga river pollution free and conserve its purity and sanctity up to year 2022 and others are as mentioned below:

- To maintain the permanent minimum continuous flow of water in the river bed.
- To construct weirs in the river bed for maintaining water level.
- To maintain & keep minimum environmental flow of water.
- To make available sufficient public bathrooms & toilets as well as mobile bio-toilets to the publics during Pandharpur yatras.
- To install STP's for treatment of domestic wastes and scientific disposal facilities for solid waste generated from the villages & cities located on the bank of Chandrabhaga river.
- To carry out the beautification & forestation of river banks.
- To make reuse/recycle of treated industrial water generated from the industries and industrial estates located in the catchment area of chandrabhaga river.
- As per the local need to work for public participation and development of pilgrimage area.

"Namami Chandrabhaga Pradhikaran"

Established under the Chairmanship of Hon'ble Chief Minister, GoM & Co-Chairmanship of Hon'ble Finance Minister, GoM, having Divisional Commissioner, Pune as Member Secretary.

"High Power Committee"

Established under the Chairmanship of Hon'ble Chief Secretary, GoM of Maharashtra having Divisional Commissioner, Pune as Member Secretary.

In this context, the Government has identified CSIR National Environmental Engineering Research Institute (CSIR-NEERI) as 'Nodal Technical Expert Agency' the project. Bhimariver originates in Bhimashankar in Pune district. But when it reaches Pandharpur, it appears like a crescent moon, thus deriving the name Chandrabhaga. It flows in a 370-km stretch between Pune and Solapur districts. CSIR-NEERI was already involved by the Maharashtra Government to provide technological solutions for sanitation and sewage treatment at important cities and pilgrim centers like Nashik and Pandharpur. Furthermore, is retained CSIR-NEERI for technological interventions during the execution of the Project 'Namami Chandrabhaga'. The Maharashtra Government intends to cleanse and make the holy river Chandrabhaga pollution free by the year 2022.

Similarly, on the line of Namami Chandrabhaga Maharashtra Government is in process of undertaking various projects for clean-up of other rivers in the State.

1.11 Involvement of Civil Society/Creation of awareness

For sustainable development it is necessary to promote and create environmental awareness among communities, businesses and governments. Therefore the Board organizes various environmental awareness programs across the State of Maharashtra. During the year 2017-18 the following programs on environmental awareness were conducted by the Board.

Month	Subject	Details
22nd April 2017	World Earth Day	Public awareness messages published in leading newspapers namely Dainik Samna, Sakaal, Divya Marathi, Loksatta, Indian Express, Lokmat, Maharashtra Times of India, DNS, Hindustan Times and Midday on the occasion of World Earth Day.
5th June 2017	World Environment Day celebration	The main event was organized at the Yashwantrao Chavan Auditorium, Mumbai on 5th June, 2017 on occasion of World Environment Day. Hon'ble Chief Minister of Maharashtra, Shri Devendra Fadnavis, Hon'ble Minister of Environment, Shri Ramdas Kadam and Member Secretary of MPCB, Dr. P. Anbalagan attended this event. During this event, award ceremony for Vasundhara Award competition organized for industries, municipal corporations and CETPs was carried out. On the occasion of World Environment Day, Vasundhara Short Film Competition based on the environment was announced by Hon'ble Chief Minister of Maharashtra at the main event. This competition will be organized for professionals as well as amateurs. During this event, the award ceremony for Photothon 2017 took place. This ceremony was presented by Member Secretary of MPCB, Dr. P. Anbalagan. Villages which had participated in the water conservation activity 'Jalsanvardhan Panchayat – Ek Lok Chalwal' organized by Maharashtra Pollution Control Board, Vanrai Pune and Zee 24 Taas were awarded at the hands of Hon'ble Chief Minister of Maharashtra for their exceptional performance. During this event, a short film festival related to the environment was organized for three days at Yashwantrao Chavan Centre, Mumbai with assistance from Enviro-Vigil and as a joint effort by MPCB and Environment Department, Government of Maharashtra. A

		large number of environmentalists attended this festival. At this time, discussion sessions with directors, producers, environment experts and analysts were also organized.

Hon'ble Shri Devendra Fadnavis, Chief Minister, GoM lighting the lamp during inauguration of the World Environment Day program held at Y. B. Chavan Auditorium, Mumbai on 5th June 2017. Hon'ble Shri Ramdasji Kadam, Minister for Environment, GoM, Shri Sumit Mallik (IAS), Chief Secretary, GoM and Dr. P. Anbalagan (IAS), Member Secretary graced the occasion with their august presence.

On the eve of World Environment Day on 5th June 2017, Hon'ble Shri Devendra Fadnavis, Chief Minister, GoM giving away Vasundhara Awards to the entrepreneurs who have introduced best environment-friendly practices in their industry, at Y. B. Chavan Auditorium, Mumbai.		
5th June 2017	World Environment Day	On the occasion of World Environment Day (5th June, 2017) public awareness messages were published in Maharashtra Times, Time of India, Loksatta, Indian Express, DNA, Hindustan Times, Midday (Gujarati, Urdu and English), Lokmat, Dainik Sakaal, Samna, Divya Marathi and in other leading newspapers. Information about various control measures adopted for pollution control was published in this section on behalf of MPCB.
5th June 2017	World Environment Day	On the occasion of World Environment Day (5th June, 2017) public awareness programs related to the environment, canvas paintings with messages about the environment, brainstorming on public awareness and various other activities were organized by We Love India on 5th June, 2017 at Bandra. Famous movie artists, sportspersons and Hon'ble Environment Minister for State were present during these activities.
4th July 2017	'Paryavaranachi Vaari Pandharichya Daari'	An environmental public awareness campaign namely 'Paryavaranachi Vaari Pandharichya Daari' was organized on the occasion of Aashadhi Ekadashi and the foot pilgrimage to Pandharpur. As environmental issues are equally detrimental to urban and rural areas, fundamental messages such as plastic waste removal, proper use of water, electricity and natural resources, use of limited electrical power for agriculture, use of organic fertilizers, proper waste management of wet waste and dry waste were spread among the 10 lakh devotees who had gathered for the Pandharpur pilgrimage. These messages were made public through folk art, popularly known as Kirtan, Bharud, and Povada. In this 15 day long pilgrimage, Sangeet Natak Academy award winner, Smt. Chandabai Tiwari, famous Shahir Shree Devanand Mali and Hari Bhakta Parayan Shri Dnyaneshwar Maharaj Wabale created public awareness through Bharud, Povada and Kirtan respectively. This year's Pandharpur pilgrimage was inaugurated at Pune by Hon'ble Minister of State of Environment, Shri Ramdas Kadam. Honorable dignitaries such as Member Secretary of MPCB, Dr. P. Anbalagan and Hon'ble Mayor of Pune were present at this event. Guidance for this pilgrimage was sought from Dr. Prakash Khandge, a well-known researcher of folk arts. The

		conclusion of this pilgrimage was organized on the eve of Aashadhi Ekadashi in the presence of Hon'ble Chief Minister, Shri Devendra Fadnavis, Mrs. Amruta Fadnavis, Cabinet Minister (Solapur), Shri Vijay Deshmukh, Minister of Water and Sanitation, Shri Babanrao Lonikar, Senior Cabinet Minister, Shri Mahadev Jankar, Member Secretary of MPCB, Dr. P. Anbalagan and other honorable dignitaries.
 Hon'ble Shri Devendra Fadnavis, Chief Minister addressing pilgrims on the eve of environment public awareness campaign at Pandharpur on 4th July 2017, in the presence of Dr. P. Anbalagan (IAS), Member Secretary, GoM.		
August 2017	92.7 Big FM Big Green Ganesha	The Big Green Ganesha activity was co-organized by 92.7 Big FM and MPCB in the city of Mumbai. During this activity, the Big Green Ganesha van encouraged citizens at various locations to celebrate an eco-friendly Ganesh festival and to donate newspaper scrap for the even. During Ganesh festival a special studio was set up at Lalbaghcha Raja in Mumbai city for 10 days. At this time, Hon'ble Chief Minister of Maharashtra, Hon'ble Minister for Environment, Hon'ble State Minister for Environment and film celebrities spread messages for public awareness.
August 2017	Zee 24 Taas Eco-Friendly Household Ganesh Festival Competition	The Household Eco-friendly Ganesh Festival Competition was organized at the state level as a joint venture by MPCB and Zee 24 Taas. This competition has a large number of participants. Citizens celebrating household in a unique way had participated in this competition from all over the state. Response to this competition has been increasing over the years.
August	ABP Maza Eco-	A special public awareness campaign regarding celebrating an

2017	Friendly Ganesh Festival Competition	eco-friendly Ganesh festival in housing societies in major cities in the State was organized by MPCB and ABP Maza, a news channel. News about eco-friendly Ganesh festival celebrated in housing societies at cities such as Mumbai, Pune, Nashik and Nagpur was broadcast through the channel. Special programs on eco-friendly Ganesh festival celebrations at housing societies were also broadcast on the ABP Maza television channel. Well-known celebrities from Marathi film industry, Sayali Sanjeev and Rushi Saxena advertised the competition organized for celebrating an eco-friendly Ganesh festival through promos. Winners in this competition were awarded certificates by MPCB and Prasad. Public relations officer of MPCB was present at this time. These celebrities visited MPCB's Mantralaya. Special news regarding the event was broadcast by ABP Maza television channel.
August 2017	Household Eco-Friendly Ganesh Festival Competition 2017 organized by Loksatta and MPCB.	Eco-friendly household Ganesh festival decoration competition was organized jointly by MPCB and Loksatta at 6 divisions of Loksatta newspaper at Mumbai, Pune, Nashik, Nagpur, Ahmednagar and Aurangabad. More than 2000 people competed in this event. Prize distribution of this competition took place at Yashwantrao Chavan Pratishthan at the hands of Hon'ble Minister for Environment, Shri Ramdas Kadam, State Minister for Environment, Shri Pravin Pote-Patil and Member Secretary of MPCB, Dr. P. Anbalagan. A special column regarding this event was published in all editions of Loksatta newspaper.
August 2017	Eco-Friendly Ganesh Festival UFO Digital Movies financial assistance.	Public awareness messages by celebrities from Marathi and Hindi film industry were publicized at 205 digital theatres by UFO Digital Movies for two weeks to promote an eco-friendly Ganesh festival.
August 2017	Financial assistance for DNA Eco Ganesha public awareness campaign organized by DNA and MPCB.	To celebrate an environment friendly Ganesh festival, eco-friendly Ganesh idols based on the five natural elements were installed in selected malls in Mumbai city on behalf of the MPCB and DNA. MPCB played the role of co-convener in this campaign organized by DNA. Prominent celebrities from the Hindi film industry participated in this campaign.
August 2017	Financial assistance for public awareness activity, Times Green Ganesha.	Eco-Green Ganesha competition was organized jointly by Environment Department of MPCB, Government of Maharashtra and Times of India group for public Ganesh festival organizations and housing societies in Mumbai and

		Pune. During this campaign, public awareness activities were conducted in various malls, movie theatres and colleges. Eco-friendly Ganesh festival workshops were conducted for school students. Various activities and cleanliness campaigns were conducted by college students for the eco-friendly Ganesh ambassador during Ganesh idol immersion at Girgaon Chowpati, Juhu beach and Versova beach at Mumbai. This campaign was launched by popular actor, Vidyut Jammwal and Hollywood Director, Chuck Russel at Lala Lajpat Rai College. A special film for public awareness had been created by Times group for this campaign. A dedicated column for this campaign was published for 10 consecutive days in the newspaper, Times of India.
August 2017	Eco-Ganesha Public awareness campaign organized by Dainik Samna and MPCB.	Eco-friendly public Ganesh festival was organized at Mumbai, Pune and Aurangabad with assistance from the newspaper, Dainik Samna. The prize distribution event was conducted in the presence of Hon'ble Minister for Environment, Shri Ramdasbhai Kadam and Member Secretary, MPCB, Dr. P. Anbalagan.
 Hon'ble Shri Ramdasji Kadam, Minister for Environment, GoM giving away prizes to the participants on the eve of Eco-friendly Ganesha Public awareness campaign in the presence of Dr. P. Anbalagan (IAS), Member Secretary, MPCB		
August 2017	Public awareness messages about eco-friendly Ganesh festival displayed on	Public awareness message of 'Celebrate a pollution-free Diwali' by Hon'ble Chief Minister, Hon'ble Minister for Environment and Hon'ble State Minister for Environment were displayed on bus stops in Mumbai city for a period of 15 days.

	Times OOH BEST bus stop shelters.	
August 2017	Eco-friendly Dahi Handi 2017.	Eco Friendly Dahi Handi Festival 2017 was organized in association with IDEAL Book Company and MPCB. In this program, anti-noise pollution awareness rally was organized by famous Marathi film industry celebrities on the Open Deck Bus Service of Best Transport Service. Notable film and TV celebrities were present at this rally. On the eve of Dahi Handi, this rally was organized in the presence of street-play celebrities in Dadar, Lalbagh area. Eco-friendly Dahi Handi was smashed in the presence of young celebrities from Zee TV and ETV. At the time, in front of Chhabildas High School in Dadar, the noise-free eco-friendly Dahi Handi was smashed along with celebrities from the film and theatre industry. Public Relations Officer, MPCB was present during this event.

Anti-noise pollution awareness rally on the eve of Dahi-handi (Gopalkala) festival was organized with participation of famous Marathi film industry celebrities on the Open Deck Bus Service of Best Transport Service in the month of August 2017.

Anti-noise pollution awareness rally on the eve of Dahi-handi (Gopalkala) festival was organized with participation of famous Marathi film industry celebrities on the Open Deck Bus Service of Best Transport Service in the month of August 2017.

October 2017	Public Awareness message for Diwali on television.	A public awareness message saying 'Celebrate a pollution-free Diwali' by celebrities from the film industry was broadcast by the television channels Zee 24 Taas, ABP Maza, IBN Lokmat, Star Pravah, Mi Marathi, TV9 Maharashtra, Saam TV, Jay Maharashtra and Maharashtra One.
October 2017	Public Awareness message for Diwali on FM radio.	A public awareness message saying 'Celebrate a pollution-free Diwali' was broadcast on leading FM Radio channels in the State.
October 2017	Diwali Bus Stop messages in Mumbai, Pune and Nagpur.	A public awareness message saying 'Celebrate a pollution-free Diwali' by Hon'ble Chief Minister of Maharashtra, Hon'ble Minister for Environment and Hon'ble State Minister for Environment were displayed on bus stops in the cities of Mumbai, Nagpur and Pune for a period of 15 days.

October 2017	Pollution-free Diwali Resolution Campaign Pledge 2017.	Pollution-free Diwali Resolution Campaign Pledge 2017 was organized at Mantralaya to promote celebration of a pollution-free Diwali. A pollution-free Diwali was pledged by students from schools and colleges from the entire State in the presence of Hon'ble Chief Minister of Maharashtra, Shri Devendra Fadnavis. Hon'ble Minister for Environment, Shri Ramdas Kadam, Hon'ble Minister of Water Resources & Irrigation, Shri Girish Mahajan, Hon'ble State Tourism Minister, Shri Jaykumar Rawal, Hon'ble Additional Chief Secretary of Environment Department, Shri Satish Gavai, Hon'ble Chairman of Maharashtra Pollution Control Board, Shri Milind Mhaiskar and Hon'ble Member Secretary of MPCB, Dr. P. Anbalagan attended this event. Students from various colleges
March 2018	Eco-Friendly Holi.	From the last few years, the widespread public awareness campaigns organized by Maharashtra Pollution Control Board to promote the celebration of an eco-friendly Holi have been receiving an increasing response. This year on behalf of the MPCB, eco-friendly colours were distributed for free to employees and officers from MPCB, Hon'ble Ministers from Mantralaya, Hon'ble Secretaries, Hon'ble Chairman, Hon'ble Speaker and Members of Legislative Assembly and Legislative Councils. Messages to promote the celebration of an eco-friendly Holi were broadcast on television and radio channels.

1.12 Greenery Development Plan of Forest Department, Government of Maharashtra

Government of Maharashtra has been instrumental in increasing tree and forest cover all over the State. GOM through it's Forest Department has announced The Plantation Program in 2016 with the aim of planting 2Crore trees on 1st July 2016 was a resounding success with the final total reported figure of 2.82Crore saplings planted on a single day. After the successful implementation of 2Crore plantation program on 1st July, 20 16, the Government of Maharashtra has designed the 50Crore plantation program for 3 consecutive years viz. 4Crore, 13Crore and 33Crore for 2017, 2018 and 2019 respectively. 10% Bamboo, mangrove and medicinal plantation is also incorporated in this plantation drive.

In the Second Phase, though the target was of 4Crore plantation from 1st to 7th July, 2017, actually 5.43Crore seedlings were planted due to overwhelming response of Government employees and people at large. These saplings programs are driven with the involvement of 33

Government Departments along with Students of Schools and Colleges, NSS, NCC, CSR, NGOs, Railways, National Highways, Defense, NABARD and other stakeholders of Society.

"Limca Book of World Records" has taken cognizance of these remarkable achievements of Forest Department relating to plantation in 2016 and 2017 and felicitated with certificates. Thus Maharashtra is the first State in India who acquired the place three years consequently in "Limca Book of Records".

In the Third Phase, against the target of 13Crore plantation in 2018 between the period from 1st to 31st July 2018 we could plant 15.88Crore trees, again exceeding the said target. The response of the public was overwhelming.

GoM continued this good work for the protection, enrichment and secure environment through various Schemes and Programs. In the Fourth Phase, the year 2019 represents the most significant and important step in completing this Mission of 50 crore plantation. In this year it was intended to plant 33Crore saplings throughout Maharashtra. Preparation and Planning for the success of this year's target have been initiated from 3rd August, 2018 i.e. immediately after completion of 13Crore Plantation Program. Forest Officials along with Revenue machinery and all administrative departments are working extremely hard with the active support of all sections of the society. The details of this 2 Crore, 4Crore, 13Crore & 33Crore plantation program are attached as Annexure I, II, III & IV respectively.

In an attempt to boost conservation and protection of forests and wild life in Maharashtra, the State Forest Department has launched a drive aimed at roping in citizens to help the department in their massive 50Crore trees plantation drive. A dedicated website greenarmy.mahaforest.gov.in has been developed for registration of individuals and organizations as member of Green Army. I am happy to say that up-till now around 60 lakh members have been registered and we hope we could cross the 1Crore membership in near Future.

For maintaining the transparency, accountability and credibility, all the data relating to site selection for plantation with Geo-Tagging, development of Nurseries, digging of pits, availability of manpower, actual plantation and survival of the trees planted etc. is uploaded on the Digital

Platform of Forest Department so that people can access the· data at any given point of time. This has helped to build confidence amongst the people and their ever increasing participation in the plantation programme.

For the registration of plantation by the individuals, private NGOs and other stakeholders of society the mobile application called "My Plants" has been developed. Similarly, the programs like "Saplings at the Door Step", "Digital visibility on social media", "publicity campaign" are being implemented for greater public participation.

In Marathwada region of the State having low forest cover, a dedicated "Eco-Battalion" has been established at Aurangabad for tree plantation and its protection under the Defense Ministry of GIO considering establishing two more companies of this force at Beed & Latur.

The Forest Department is trying it's level its level best to increase the Forest and Tree cover in the State by various innovative ideas by involvement of people in the plantation & its protection especially on Non-Forest areas as forest area is limited. Massive tree plantation program in urban & rural areas under the scheme "Nurturing Trees is Worshiping Nature" has been launched by the Govt. in line with Ranmala Village in Khed Taluka of Pune District.

The Tree based Agriculture under Mahatma Gandhi National rural Employment Guarantee Scheme (MG-NREGS) Kanya Van Samruddhi Yojana, Bhausaheb Phundkar Horticulture Plantation Programme in co-ordination with Agriculture Department, Sericulture Plantation in coordination with Textile Department, Riverside Plantation are some of scheme initiated for increasing green cover in the Non- Forest areas.

- Status report on Forest for 2017 at all India level has been published by " Forest survey of India" in February 2018 vis-a-vis status of forest & related sectors in 2015. As far as Maharashtra is concerned the findings are as follows:
- Tree cover on non-forest area has increased by 273Km.sq – Maharashtra is a leading state
- Mangrove cover has increased by 82Km.sq - Maharashtra is a leading state
- Water bodies in forest areas has gone up by 432 km.sq – Maharashtra is having higher rank

- Increase in the bamboo plantation area by 4462 km.sq – Eventually Maharashtra is placed highest in the country

1.13 Plan for restoration of water quality

The samples were analyzed and presented graphically in comparison to all identified sampling locations. It was interpreted from the results that the water parameters are well within the prescribed standards of A-II River. The following measures are recommended:

1. **De-siltation of Gangapur Dam:** The requirement of water for religious, social and ecological functions needs to be carved out. The decrease in dam storage will be detrimental for all these stakeholders and sectors. Therefore, De-silting should be taken up on priority basis after proper assessment and techno-economic feasibility study. De-siltation of Gautami – Godavari, Kashyapi and Gangapur will be helpful in maintaining environmental flow of Godavari. Further it is also recommended that at de-siltation of other dams also need to be carried out.
2. **Religious Activities Impacting River Quality:** Devotees perform various kinds of Pujas at certain places at the bank of the river. This leads to addition of organic matter in to the river directly. Some of the activities are as below:
    - Proper use of collection facility for *nirmalya* should be placed at every religiously significant place like temples, ghats.
    - "Pindadan comprising of cooked rice during *Dashakriya* and *nirmalya* in the river at Ramkund.
    - Human body ash (*Asthi*) Visarjan activities at Ramkund.
    - *Bhaji bajar* and stalls of offerings to Devotees near river banks.

3. **Disposal of Nirmalya:** Placing of nets on the bridges to avoid throwing of *nirmalya* across the riverflow and also downstream of holy places such as Ramkund, Tapovan to collect floating Nirmalya disposed by the devotees can be helpful to reduce the amount of *nirmalya* in the river. At present, many permanent ghats have been constructed on the bank of River Godavari. As the river Godavari is a non-perennial river, the banks of the river must be protected. Hence temporary ghats may be built if more ghats are needed in the future. Volunteers should be appointed for effective collection and disposal of such material. Awareness programs should be organized for adoptions of the improved system for pollution prevention.
4. **Collection of Domestic Wastewater**: 100% collection of wastewater from the Nasik Municipal area should be achieved in order to avoid any wastewater directly entering into the river. Wherever collection process is not feasible in short time, in situ nallah treatment should be adopted. Prior to awarding permission for development of new residential areas in the outskirts of the city, there should be provision of sewerage network and STP of appropriate capacity and accordingly authorities should take prompt

action for construction of new STP. It is recommended to have soak pits for villages in close proximity of river in order to avoid direct discharge of sewage in to the river.

5. **Status of Sewer:** Regular operation and maintenance sewers and sewerage chambers should be done as leakages or breakages in either can lead to flow of huge quantity of sewage in to the river Godavari. Deliberate breakages of Sewage chambers should be checked and stopped by undertaking strict actions and providing alternatives by using treated water for irrigation through decentralized system. The centralized sewer system is always problematic due to multiple lines and expensive due to need for pumping which requires electricity. All conventional sewer and STPs require very high O&M costs, especially uninterrupted power and trained manpower. Hence Decentralized wastewater treatment is recommended at least for all multi complex projects.
6. **Maintenance and Up-Gradation of STPs:** Regular maintenance and up gradation of STPs should be carried out for effective treatment of wastewater. The working status of each STP performance unit should be strictly checked.
7. **Industrial Wastewater:** Reuse and recycle of treated wastewater for construction, gardening etc. Purposes should be implemented.

8. **Other Recommendations**
   - Activities such as soil excavation, brick making on the bank of river is seriously affecting the quality of river water, hence such activities should be strictly prohibited up to 500 m. from high flood line.
   - It is recommended to implement River Regulation Zone policy strictly to restrict activities in the river bank.
   - Encroachments, depositions, construction or any kind of developmental activities on the bank of rivers should be banned.
   - Nallah Treatment System shall be provided so as to stop sewage entering into the River.

Table 38 Time bound Action Plan to improve water quality for Godavari River

Sr. No.	Target/Action Plan Expected	Agency / Organization	Expected Duration for Implementation
1	Provide STP for treatment of sewage generation from Shahada city to avoid contamination of River	Nasik & Aurangabad Municipal Corporation	1.5 Years
2	Provide STP for treatment of sewage generation and MSW treatment Facility in the villages/towns located on the bank of river to avoid contamination of River	Concern Grampanchayat and Zilha Parishat	1.5 Years

3	In-Situ Nallah Treatment to stop sewage entering into the River	Municipal Corporation	6 Months
4	To stop bathing in river water & open defecation at bank of river. Also, proper disposal of human excreta and sewage.	Local Body & Police Department.	4-5 Months
5	Regular cleaning of river bed and regular flow monitoring should be initiated.	Local Body & Irrigation Department.	Continuous
6	To prevent growth of Algae/Eicchornia in river bed by installation of floating rafters and screen bars.	Local Body & Irrigation Department.	Continuous
7	Effective operation, collection & treatment of MSW.	Municipal Corporation	6 Months
8	Up-gradation of existing STPs to meet 10mg/lit BOD Outlet standard	Municipal Corporation	4 Years

Table 39 Long term action plan

Sr.No.	Activity	Responsibility	Time Frame
1	Compulsory application of water meter.	Nanded Municipal Corporation Nashik Municipal Corporation	1 Year
2	Maintaining continuous flow in the river	Nanded Municipal Corporation Nashik Municipal Corporation, Irrigation Department	1 Year
3	For the treatment of 100% waste water prepare a plan, construct & operate STP in scientific manner	Nanded Municipal Corporation Nashik Municipal Corporation	2 Years
4	Up-gradation of existing STPs to meet 10mg/lit BOD Outlet standard	Nanded Municipal Corporation Nashik Municipal Corporation	4 Years
5	Exploration, development and augmentation of groundwater resources	Groundwater Surveys & Development Agency (G.S.D.A.)	Continuous
6	Groundwater Monitoring	Maharashtra Pollution Control Board, Ministry of Drinking water & sanitation	Continuous
7	Provision of adequate funds	Urban Development	1 Year for

	to Local Bodies located at bank of the river	Department, Municipal Administration, Rural Development Department	planning & 3 years for implementation
8	Tree Plantation in catchment area & banks of the river	Forest Department, Water Resource Department	1 Year
9*	Maintaining e flow of the river, protection of flood plain zone, development of Bio Diversity Park	Forest Department, Water Resource Department	1 Year for planning & 3 years for implementation
10	Prevention of Agricultural run-off to the river	Agriculture Department	1 Year for planning & 3 years for implementation
11	Up-gradation of existing STPs to meet 10mg/lit BOD Outlet standard	Pune Municipal Corporation	4 Years*

***Note:** All existing STPs needs to be upgraded and modernized for achieving for 10BOD outlet standards as existing STPs are designed way back based on 30 BOD disposal standard i.e. stream standards as per EPA. Up-gradation will be completed in next 4 years as per the draft notification dated dated 24th November 2015 & directions of CPCB.

1.14 Budget Estimates & Pooling of Resources from Local Bodies, State Pollution Control Board, State Government & Central Government

- Aurangabad Municipal Council, Gangapur Municipal Council, Paithan Municipal Council, Nanded Municipal Council, Beed Municipal Council, Pimpalgaon Municipal Council & Nashik Municipal Corporation will provide following funds of Rs. 283.33.Crs. for STPs & management of sewerage system. The said work will be completed by 2022

- Maharashtra Government has already received proposal of Rs. 1104.54Cr. Under State River Conservation Program & form this amount State Government will provide necessary funds in next 3 years by 2022 for Sewage management

- The Maharashtra Pollution Control Boards has also reserved Rs. 461.42Cr. for preparation of action plan for abetment & Control of Pollution of River Water due to sewage & solid waste disposal from B & C Municipal Councils (342Nos of Urban Local Bodies.), Nagar Panchyat & Gram Panchayat for reducing polluted stretches in compliance with Hon'ble NGT, principal bench directions w.r.t. "More River Stretches are now Critically Polluted. The said funds will be used for DPR preparation, development of infrastructure for sewage collection & treatment & development of infrastructure for Solid Waste Management. The DPR preparation & implementation of the same will be completed by year 2022 (i.e in next 3 years).

- The Maharashtra Government through Urban Development Department has approved DPR of all 388 Urban Local Bodies for Solid Waste Management. The funds for the same amounting to Rs. 2560.0Cr has been already approved by Government & the said DPRs will be implemented & Solid Waste Management issues will be resolved by December'2019.

Proposed plans for maintaining e-flow: River flows only in Monsoon season & whenever dam water is released. The amount of water released from dam is such that it will not over flow from next weir at the downstream

1.15 Timelines for Implementation of Restoration Plan

Activities/Year	2017	2018	2019	2020	2021	2022	2023
Reconnaissance Survey							
Water Quality Sampling							
Execution (Setting up of STPs)							
Execution (MSWM system)							
Augmentation of River Flow if any and restoration of water quality							

1.16 Governance and Supervision

1.16.1 Two Tier Monitoring

Monitoring will be done by the concerned Departments/ Agencies, which are executing or responsible for particular activities and it will be their primary responsibility to ensure compliance of the Action Plan. In addition, there will be two level of Committees to review and monitor the status: (i) District Level Task Force (ii) River Rejuvenation Committee

1.16.2 District Level Special Task Force:

The District Level Special Task Force will monitor the Status of implementation of the Action Plan at the district Level.

1.16.3 River Rejuvenation Committee:

The River Rejuvenation Committee will monitor the Status of implementation of the Action Plan at the State Level

Annexure I

Table showing Districtwise Targer v/s Achievement for 2-crore plantation program

S.No.	Revenue Division	District	Forest Department					Non - forest Department					Achievement in %		
			Plantation Target	Plantation Achievement (online)	Plantation Achievement (offline)	Plantation Achievement (Total)	Total Plantation Achievement (%)	Plantation Target	Plantation Achievement (online)	Plantation Achievement (offline)	Plantation Achievement (Total)	Plantation Achievement (%)	Plantation Achievement	Plantation Achievement	Plantation Achievement (%)
A	B	C	1	2	3	4	5	1	2	3	4	5	1	2	3
1	Amravati	Akola	97000	106482	0	106482	109.78		170638	0	170638			277120	
2	Amravati	Amravati	110000	172653	0	172653	156.96		223895	0	223895			396548	
3	Amravati	Buldhana	110000	152000	500	152500	138.64		99162	0	99162			251662	
4	Amravati	Washim	96000	102100	0	102100	106.35		61134	0	61134			163234	
5	Amravati	Yavatmal	1232000	1326600	0	1326600	107.68		368877	0	368877			1695477	
	Division Subtotal		**1645000**	**1859835**	**500**	**1860335**	**113.09**		**923706**	**0**	**923706**			**2784041**	
6	Aurangabad	Aurangabad	483000	491500	0	491500	101.76		73918	0	73918			565418	
7	Aurangabad	Beed	603000	613137	0	613137	101.68		71871	0	71871			685008	
8	Aurangabad	Hingoli	345000	348400	0	348400	100.99		124846	0	124846			473246	
9	Aurangabad	Jalna	157000	165000	0	165000	105.10		126963	0	126963			291963	
10	Aurangabad	Latur	368000	374750	0	374750	101.83		28670	0	28670			403420	
11	Aurangabad	Nanded	488000	510000	0	510000	104.51		82043	46062	128105			638105	
12	Aurangabad	Osmanabad	363000	373000	0	373000	102.75		13427	0	13427			386427	
13	Aurangabad	Parbhani	153000	161500	0	161500	105.56		122980	0	122980			284480	
	Division Subtotal		**2960000**	**3037287**	**0**	**3037287**	**102.61**		**644718**	**46062**	**690780**			**3728067**	
14	Konkan	Mumbai City	0	0	0	0	0		8020	0	8020			8020	
15	Konkan	Mumbai suburban	0	5000	0	5000	0		4823	0	4823			9823	
16	Konkan	Palghar	116000	531409	2105	533514	459.93		279345	0	279345			812859	
17	Konkan	Raighad	88000	234109	27835	261944	297.66		36780	0	36780			298724	
18	Konkan	Ratnagiri	11000	26847	18425	45272	411.56		16763	142940	159703			204975	
19	Konkan	Sindhudurg	23000	27500	0	27500	119.57		117898	0	117898			145398	
20	Konkan	Thane	148000	656650	0	656650	443.68		287011	0	287011			943661	
	Division Subtotal		**386000**	**1481515**	**48365**	**1529880**	**396.34**		**750640**	**142940**	**893580**			**2423460**	
21	Nagpur	Bhandara	424000	684890	0	684890	161.53		109050	0	109050			793940	
22	Nagpur	Chandrapur	1145000	1556787	467580	2024367	176.80		446205	111007	557212			2581579	
23	Nagpur	Gadchiroli	420000	598636	0	598636	142.53		105995	13410	119405			718041	
24	Nagpur	Gondia	552000	828266	0	828266	150.05		2915	0	2915			831181	
25	Nagpur	Nagpur	686000	1002805	0	1002805	146.18		303441	8433	311874			1314679	
26	Nagpur	Wardha	270000	525002	0	525002	194.45		28681	0	28681			553683	
	Division Subtotal		**3497000**	**5196386**	**467580**	**5663966**	**161.97**		**996287**	**132850**	**1129137**			**6793103**	
27	Nashik	Ahmednagar	1054000	1591379	0	1591379	150.98		362789	17725	380514			1971893	
28	Nashik	Dhule	305000	515500	0	515500	169.02		178854	9531	188385			703885	
29	Nashik	Jalgaon	950000	1085050	0	1085050	114.22		85113	16400	101513			1186563	
30	Nashik	Nandurbar	869000	1033000	0	1033000	118.87		70199	8820	79019			1112019	
31	Nashik	Nashik	1402000	2492433	17415	2509848	179.02		17910	69744	87654			2597502	
	Division Subtotal		**4580000**	**6717362**	**17415**	**6734777**	**147.05**		**714865**	**122220**	**837085**			**7571862**	
32	Pune	Kolhapur	210000	405304	0	405304	193.00		171918	200540	372458			777762	
33	Pune	Pune	1010000	1135510	189392	1324902	131.18		11189	989678	1000867			2325769	
34	Pune	Sangli	230000	332000	0	332000	144.35		168833	0	168833			500833	
35	Pune	Satara	272000	527600	0	527600	193.97		60462	23511	83973			611573	
36	Pune	Solapur	410000	468700	144746	613446	149.62		8718	0	8718			622164	
	Division Subtotal		**2132000**	**2869114**	**334138**	**3203252**	**150.25**		**421120**	**1213729**	**1634849**			4838101	
	Grand Total		**15200000**	**21161499**	**867998**	**22029497**	**144.93**		**4451336**	**1657801**	**6109137**			**28138634**	

Cumulative target for non-forest departments for all districts put together was 50 lakh

Annexure II

Online - District Wise Forest & Non-Forest Details as on 9 th July 2017

Sr. No.	District	Total Target as per distributed by CCF(T) for Forest Departments	FOREST									Non Forest Agnecies								Grand Total of Forest and Non Forest No of Seedlings planted
			No. Of Site Registered	Site Area (in Ha.)	No of Seedlings to be planted (As per Data Filled up by Forest department till Date)	No. Of Pits Dug (As per Data Filled up by Forest Department till Date)	No of Seedlings planted	Plantation % Achivement Against Target of Forest Department	Plantation % Achivement Against no of Pits dug of Forest Department	Total Target as per distributed by District Collector for Non Forest Departments	No of participants	No. Of Site Registered	Site Area (in Ha.)	No Seedlings to be planted(As per Data Filled up by all Agencies till Date)	No. Of Pits Dug(As per Data Filled up by all Agencies till Date)	No of Seedlings planted	Plantation % Achivement Against Target of Forest Department	Plantation % Achivement Against no of Pits dug of Forest Department	No of participants	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Ahmednagar	**2228200**	222	2784.82	2221323	2219923	2219935	**99.63**	**100.00**	**807403**	17,902	1,805	15,928	813824	776587	**638607**	**79.09**	**82.23**	68,140	**2858542**
2	Akola	**283000**	67	537	367258	367258	367258	**129.77**	**100.00**	**357000**	16,266	2,044	3,196	346602	346032	**317949**	**89.06**	**91.88**	46,962	**685207**
3	Amravati	**405000**	122	699.84	503572	486732	488388	**120.59**	**100.34**	**565100**	10,784	3,926	74,381	630485	504855	**419928**	**74.31**	**83.18**	18,303	**908316**
4	Aurangabad	**510000**	70	616.45	510832	510732	510832	**100.16**	**100.02**	**692104**	10,108	2,692	9,097	787484	682734	**637178**	**92.06**	**93.33**	11,524	**1148010**
5	Beed	**448000**	72	1253.69	795452	795452	795452	**177.56**	**100.00**	**564572**	5,986	1,673	2,321	551380	433861	**488889**	**86.59**	**112.68**	15,738	**1284341**
6	Bhandara	**890000**	103	946.58	1058469	1058469	1048469	**117.81**	**99.06**	**85000**	9,901	1,251	19,412	349841	316362	**283914**	**334.02**	**89.74**	27,009	**1332383**
7	Buldhana	**414000**	131	431.3	432100	432100	431100	**104.13**	**99.77**	**495814**	8,197	3,015	2,342	487127	471738	**437882**	**88.32**	**92.82**	10,057	**868982**
8	Chandrapur	**2257883**	144	2357.28	3407746	3407746	3357121	**148.68**	**98.51**	**660000**	22,909	4,177	127,491	1456512	1181935	**1004395**	**152.18**	**84.98**	41,274	**4361516**
9	Dhule	**517000**	64	977.54	1196873	1196873	1196873	**231.50**	**100.00**	**285000**	3,648	1,209	21,307	277619	263469	**247573**	**86.87**	**93.97**	4,728	**1444446**
10	Gadchiroli	**1452500**	94	1672.77	2425548	2425548	2351675	**161.91**	**96.95**	**259732**	23,311	1,360	20,841	284890	258175	**211191**	**81.31**	**81.80**	24,851	**2562866**
11	Gondia	**1145000**	125	934.15	1193385	1193385	1187896	**103.75**	**99.54**	**151000**	41,396	3,870	143,813	414624	414124	**337925**	**223.79**	**81.60**	43,499	**1525821**
12	Hingoli	**438000**	76	823.82	703840	703840	686700	**156.78**	**97.56**	**328850**	3,545	1,046	5,465	326225	323532	**319249**	**97.08**	**98.68**	26,198	**1005949**
13	Jalgaon	**1440000**	103	1656.45	1715981	1715981	1715981	**119.17**	**100.00**	**649049**	5,899	5,763	111,548	794952	651012	**536564**	**82.67**	**82.42**	26,621	**2252545**
14	Jalna	**260000**	56	367.94	260000	260000	260000	**100.00**	**100.00**	**590250**	10,907	1,386	3,564	603904	590513	**595988**	**100.97**	**100.93**	29,449	**855988**
15	Kolhapur	**500000**	77	660.5	562222	562222	555722	**111.14**	**98.84**	**342000**	14,934	4,025	106,084	378429	327394	**357051**	**104.40**	**109.06**	59,205	**912773**
16	Latur	**310000**	88	478.59	453820	400118	404512	**130.49**	**101.10**	**583362**	10,303	2,436	11,488	661810	642492	**639028**	**109.54**	**99.46**	41,926	**1043540**
17	Mumbai City	**0**	0	0	0	0	0	**0.00**	**0.00**	**0**	0	54	550	4,730	4,392	**4037**	**0.00**	**91.92**	653	**4037**
18	Mumbai Suburban	**0**	1	1	500	0	500	**100.00**	**100.00**	**0**	100	256	3,806	23,899	5,715	**14411**	**100.00**	**252.16**	2,591	**14911**
19	Nagpur	**763000**	143	865.68	1024915	1024915	1024915	**134.33**	**100.00**	**276000**	4,729	5,773	42,237	673895	661305	**560967**	**203.25**	**84.83**	52,998	**1585882**
20	Nanded	**710000**	167	1764.75	1217300	1217300	1211050	**170.57**	**99.49**	**535576**	7,150	1,395	3,786	552358	545289	**544708**	**101.71**	**99.89**	40,779	**1755758**
21	Nandurbar	**712000**	79	598	712370	712270	712270	**100.04**	**100.00**	**346535**	6,211	5,639	6,357	921850	821758	**910922**	**262.87**	**110.85**	40,986	**1623192**
22	Nashik	**2635300**	194	2970.28	3490475	3489475	3487790	**132.35**	**99.95**	**777810**	17,864	4,416	556,270	1225548	923890	**856375**	**110.10**	**92.69**	35,406	**4344165**
23	Osmanabad	**250000**	120	571.08	534180	534180	532180	**212.87**	**99.63**	**472900**	56,730	1,954	48,531	578209	446815	**563453**	**119.15**	**126.10**	94,935	**1095633**
24	Palghar	**1125000**	144	1860.98	1647756	1639160	1634296	**145.27**	**99.70**	**495000**	17,916	2,281	169,544	757911	547671	**528322**	**106.73**	**96.47**	22,437	**2162618**
25	Parbhani	**350000**	40	538	309600	309600	309600	**88.46**	**100.00**	**372260**	2,746	2,999	4,148	414549	404125	**413312**	**111.03**	**102.27**	86,294	**722912**
26	Pune	**797000**	117	1185.02	1016063	1014713	1011063	**126.86**	**99.64**	**1413000**	14,967	3,463	505,320	1514091	1375085	**1266379**	**89.62**	**92.09**	70,363	**2277442**
27	Raigad	**551000**	158	573.71	728580	728580	728580	**132.23**	**100.00**	**483000**	14,690	2,098	122,918	451212	359128	**389537**	**80.65**	**108.47**	28,579	**1118117**
28	Ratnagiri	**33487**	58	77.37	51832	51832	38500	**114.97**	**74.28**	**209025**	2,142	1,851	108,842	345093	312397	**300577**	**143.80**	**96.22**	34,156	**339077**
29	Sangli	**464000**	81	921.31	504606	504606	504606	**108.75**	**100.00**	**461000**	17,155	1,510	18,969	486208	457206	**410057**	**88.95**	**89.69**	9,801	**914663**
30	Satara	**552000**	110	861.03	678796	678796	650983	**117.93**	**95.90**	**225000**	15,750	1,072	45,508	319468	278952	**235173**	**104.52**	**84.31**	2,754	**886156**
31	Sindhudurg	**71000**	27	165.21	65219	65219	65219	**91.86**	**100.00**	**188100**	2,888	2,178	7,246	551804	531276	**537136**	**285.56**	**101.10**	22,424	**602355**
32	Solapur	**400000**	62	498	447400	447400	447400	**111.85**	**100.00**	**534000**	11,444	1,256	3,824	433549	410291	**397190**	**74.38**	**96.81**	45,279	**844590**
33	Thane	**825000**	177	1227.43	947484	947484	944326	**114.46**	**99.67**	**1003000**	18,966	4,600	23,496	693843	559774	**363329**	**36.22**	**64.91**	10,749	**1307655**
34	Wardha	**684000**	155	897.27	706770	706770	693189	**101.34**	**98.08**	**399500**	16,534	1,307	34,545	620904	573596	**544952**	**136.41**	**95.01**	16,122	**1238141**
35	Washim	**189000**	43	259	227810	227810	225880	**119.51**	**99.15**	**318500**	8,417	944	63	397914	351189	**341592**	**107.25**	**97.27**	31,661	**567472**
36	Yavatmal	**1563000**	169	2365.07	2310225	2280416	2280758	**145.92**	**100.01**	**816000**	32,895	3,874	43,170	845905	684777	**650791**	**79.75**	**95.04**	50,281	**2931549**
	TOTAL	**26173370**	**3,659**	**35,399**	34430302	34316905	34081019	**130.21**	**99.31**	**16742442**	**4,85,290**	**90,598**	**24,27,408**	**20978648**	**18439446**	**17306531**	**103.37**	**93.86**	**11,94,732**	**51387550**

Annexure III

Table - 4 (Districtwise : Online data including no of sites of Forest and Non Forest Department)							
13-Crore Plantation Drive (1st-31st July 2018)							
Districtwise Final Detail Report Online							
Sr. No.	District	No. of Site Registered (As per Data Filled up by all Agencies Forest and non Forest)	Target Seedling (As per Data Filled up by all Agencies Forest and non Forest)	No. of Pits Dug (As per Data Filled up by all Agencies Forest and non Forest)	No. of Seedling Planted	No of Participants	Plantation % Achivement Against Target (As per Data Filled up by all Agencies)
1	2	3	4	5	6	7	8
1	Ahmednagar	2,772	51,08,370	50,15,315	48,61,408	3,06,543	95.17%
2	Akola	4,144	21,25,903	21,03,510	20,46,069	97,664	96.24%
3	Amravati	5,818	29,04,424	27,29,228	26,75,694	58,189	92.12%
4	Aurangabad	4,732	42,34,736	42,06,668	38,13,300	1,90,465	90.05%
5	Beed	1,678	32,80,561	32,66,578	31,84,650	1,64,332	97.08%
6	Bhandara	1,645	20,69,030	19,52,926	19,26,818	71,189	93.13%
7	Buldhana	4,737	28,66,716	26,20,663	26,15,863	44,262	91.25%
8	Chandrapur	10,624	76,89,774	73,22,882	70,22,285	1,28,804	91.32%
9	Dhule	2,531	44,03,806	40,05,121	39,78,375	23,948	90.34%
10	Gadchiroli	4,520	56,45,700	55,60,998	54,60,676	1,49,207	96.72%
11	Gondia	4,090	35,78,065	35,16,681	31,61,809	1,22,904	88.37%
12	Hingoli	3,474	33,24,604	33,20,524	33,15,847	60,876	99.74%
13	Jalgaon	7,718	46,76,921	43,72,652	43,51,516	1,28,362	93.04%
14	Jalna	4,416	37,71,870	37,46,711	37,28,979	1,48,654	98.86%
15	Kolhapur	4,682	27,29,339	27,14,656	26,99,189	1,74,431	98.90%
16	Latur	4,203	44,25,414	44,14,461	43,75,652	92,248	98.88%
17	Mumbai City	8	1,734	345	125	15	7.21%
18	Mumbai Suburban	21	1,77,239	1,77,104	1,77,054	3,640	99.90%
19	Nagpur	7,578	43,50,575	41,94,072	36,12,600	1,14,443	83.04%
20	Nanded	2,280	78,75,138	78,74,773	78,74,023	1,09,782	99.99%
21	Nandurbar	4,501	48,47,165	48,36,830	48,35,801	1,22,364	99.77%
22	Nashik	10,959	81,12,851	76,07,679	72,34,067	2,20,556	89.17%
23	Osmanabad	4,924	43,65,452	41,94,431	41,73,890	1,68,040	95.61%
24	Palghar	2,511	48,34,917	39,37,411	40,47,309	96,654	83.71%
25	Parbhani	3,035	33,43,340	28,29,588	26,56,513	31,643	79.46%
26	Pune	6,825	53,87,602	47,79,571	46,34,593	1,03,592	86.02%
27	Raigad	6,423	36,33,058	33,03,872	26,30,299	64,730	72.40%
28	Ratnagiri	1,650	12,50,643	11,36,124	11,28,532	24,767	90.24%
29	Sangli	2,136	29,46,189	29,38,110	29,24,149	57,204	99.25%
30	Satara	1,917	27,91,533	27,03,806	25,99,132	51,990	93.11%
31	Sindhudurg	3,890	15,91,404	15,69,542	15,34,156	29,785	96.40%
32	Solapur	1,887	22,25,306	21,31,315	20,89,491	3,21,701	93.90%
33	Thane	4,723	32,39,134	30,98,694	30,76,186	91,623	94.97%
34	Wardha	1,897	38,22,690	23,86,546	23,47,121	38,967	61.40%
35	Washim	1,159	16,79,735	15,21,253	15,17,885	43,832	90.36%
36	Yavatmal	5,575	62,75,861	61,26,193	59,95,076	1,70,267	95.53%
TOTAL		**1,45,683**	**13,55,86,799**	**12,82,16,833**	**12,43,06,132**	**38,27,673**	**91.68%**

Annexure IV

शा.नि. क्र:- सावि-2018/प्र.क्र.144/फ-11, दि. 6 सप्टेंबर, 2018 सोबतचे

विवरणपत्र

Revenue - District Wise, Agency wise Plantation Target Distrubution Under 33 Crore Plantation Program 2019

Sr. No.	Implementing Agency Name	Aurangabad	Jalna	Beed	Parbhani	Hingoli	Latur	Osmanabad	Nanded	Aurangabad Revenue division Total
		Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019
1	Agriculture Department	997050	1906800	601150	666350	581500	700550	865200	221650	6540250
2	Urban Development Department ** (Except Municipal Corporations)	206850	97100	150350	24950	30000	271550	434450	65000	1280250
3	Municipal Corporations	20700	NA*	NA*	2500	NA*	27150	NA*	6500	56850
4	PWD	138750	100150	28100	70000	23750	34950	120000	2950	518650
5	Water Resources Department	155450	19400	38400	51750	5100	60600	141250	63800	535750
6	Co-operation & Marketing Department	19500	10800	28100	10000	13200	10000	60200	4800	156600
7	Industries Department	119850	18800	25200	15750	25000	59000	31050	47750	342400
8	School Education Department	137700	49650	75000	348200	75300	200000	128400	65800	1080050
9	Sports Department	15000	15000	15000	15000	15000	15000	15000	15000	120000
10	Higher Education Department	24200	24200	24200	24200	24200	24200	24200	24200	193600
11	Technical Education Department	24200	24200	24200	24200	24200	24200	24200	24200	193600
12	Home Department (Police)	13500	34450	20000	8700	25300	3650	48550	16700	170850
13	Home Department (Jail)	21850	2800	5000	5000	5000	4850	9700	550	54750
14	Tribal Development Department	2450	2450	2450	2450	2450	2450	2450	2450	19600
15	Social Justice and Special Assistance	2250	10850	10100	12200	5350	1400	11300	5000	58450
16	VJNT & OBC welfare Department	1800	1800	1800	1800	1800	1800	1800	1800	14400
17	Tourism Department	16300	16300	16300	16300	16300	16300	16300	16300	130400
18	Cultural Affairs Department	1800	1800	1800	1800	1800	1800	1800	1800	14400
19	Public Health Department	9450	2550	53050	33450	4500	14800	18550	550	136900
20	Energy Department	18500	19950	6200	8750	4500	20000	7000	4000	88900
21	Medical education Department	300	300	300	300	300	300	300	300	2400
22	Food and Drug Administration Department	300	300	300	300	300	300	300	300	2400
23	State excise	1000	1000	1000	1000	1000	1000	1000	1000	8000
24	Transport (RTO)	1200	1200	1200	1200	1200	1200	1200	1200	9600
25	Transport (MSRTC)	1850	1850	1850	1850	1850	1850	1850	1850	14800
26	Labor Department	650	650	650	650	650	650	650	650	5200
27	Law and Judiciary Department	650	650	650	650	650	650	650	650	5200
28	Water Conservation Department	29350	19050	19750	10000	10000	4800	10150	10000	113100
29	Skills development and entrepreneurship	1750	1750	1750	1750	1750	1750	1750	1750	14000
30	Revenue Department	3000	29650	20000	29450	10600	22450	9700	20000	144850
31	Women and Child Welfare Department	200	200	200	200	200	200	200	200	1600
32	Water supply and Sanitation	950	950	950	950	950	950	950	950	7600
33	Animal Husbandry Department	3050	350	5000	9250	1700	11600	12000	1850	44800
34	Dairy Department	1000	1700	1000	3000	550	2850	4000	600	14700
35	Fisheries Department	1000	100	1000	3000	550	2850	4000	600	13100
36	Minority welfare department	8700	8700	8700	8700	8700	8700	8700	8700	69600
37	Finance - GST Department	900	900	900	900	900	900	900	900	7200
38	Finance - Accounts and Tresury Department	900	900	900	900	900	900	900	900	7200
39	Rural Development Department (Excluding Grampanchayat)	363000	262400	250700	1297950	38200	363000	14700	4200	2594150
40	Grampanchayat - 3200 Plants each GPs (RDD)	2759250	2493600	3300250	2253500	1802150	2509600	1991000	4190100	21299450
41	Housing Department	1000	300	300	300	300	300	300	300	3100
42	Railway under GoI	1250	1250	1250	1250	1250	1250	1250	1250	10000
43	National Highways under GoI	4500	4500	4500	4500	4500	4500	4500	4500	36000
44	Defence under GoI	300	300	300	300	300	300	300	300	2400
45	GoI offices In State	10550	10550	10550	10550	10550	10550	10550	10550	84400
46	Textiles & Sericulture Deparment	651700	1282300	1000000	1500000	324450	2181200	2000000	1000000	9939650
	TOTAL	**5795450**	**6484450**	**5760350**	**6485750**	**3108700**	**6628850**	**6043200**	**5854400**	**46161150**

***NA - Not Applicable.**

****UDD - Includes Municipal Councils, Nagar Panchayats, CIDCO and Various Pradhikarans Like MMRDA, PMRDA, NIT etc.**

Sr. No.	Implementing Agency Name	Nagpur	Wardha	Gondia	Chandrapur	Gadchiroli	Bhandara	Nagpur Revenue division Total
		Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019
1	Agriculture Department	150850	886700	718800	701850	71750	174000	2703950
2	Urban Development Department ** (Except Municipal Corporations)	23750	94000	21500	508400	5750	16150	669550
3	Municipal Corporations	82450	NA*	NA*	96700	NA*	NA*	179150
4	PWD	301300	217650	165750	364800	19500	112200	1181200
5	Water Resources Department	173450	154850	21600	152700	3650	8550	514800
6	Co-operation & Marketing Department	4350	2950	44850	92300	7250	2450	154150
7	Industries Department	112350	51750	18000	58150	1900	7700	249850
8	School Education Department	99750	534050	97950	363500	166250	83250	1344750
9	Sports Department	11100	59350	10900	40400	18450	9250	149450
10	Higher Education Department	4975	56600	850	1500	8900	375	73200
11	Technical Education Department	4975	56600	850	1500	8900	375	73200
12	Home Department (Police)	35050	118950	21750	32300	12350	4650	225050
13	Home Department (Jail)	5600	4400	2000	1400	2300	2800	18500
14	Tribal Development Department	17300	6600	7550	61350	24750	4200	121750
15	Social Justice and Special Assistance	2350	2350	2350	2350	2350	2350	14100
16	VJNT & OBC welfare Department	600	600	600	600	600	600	3600
17	Tourism Department	1000	1000	1000	1000	1000	1000	6000
18	Cultural Affairs Department	1000	1000	1000	1000	1000	1000	6000
19	Public Health Department	2300	30500	10150	40450	13150	17000	113550
20	Energy Department	350	16450	1900	114950	650	2250	136550
21	Medical education Department	1500	1500	1500	1500	1500	1500	9000
22	Food and Drug Administration Department	400	400	400	400	400	400	2400
23	State excise	450	450	450	450	450	450	2700
24	Transport (RTO)	1300	1300	1300	1300	1300	1300	7800
25	Transport (MSRTC)	2000	2000	2000	2000	2000	2000	12000
26	Labor Department	17100	14000	14000	14000	14000	14000	87100
27	Law and Judiciary Department	10050	10700	1550	2200	5000	5000	34500
28	Water Conservation Department	11650	50950	50400	13150	25000	20000	171150
29	Skills development and entrepreneurship	850	2450	3000	15400	1150	4200	27050
30	Revenue Department	9100	28300	17650	28300	2800	14000	100150
31	Women and Child Welfare Department	8750	10400	10000	17750	4100	5050	56050
32	Water supply and Sanitation	13450	42200	20000	17050	20000	20000	132700
33	Animal Husbandry Department	5200	9400	3200	10650	750	3500	32700
34	Dairy Department	1750	3150	1050	3550	250	1150	10900
35	Fisheries Department	1750	3150	1050	3550	250	1150	10900
36	Minority welfare department	8700	8700	8700	8700	8700	8700	52200
37	Finance - GST Department	700	700	700	700	700	700	4200
38	Finance - Accounts and Tresury Department	700	700	700	700	700	700	4200
39	Rural Development Department (Excluding Grampanchayat)	240000	141000	120000	246000	244300	120000	1111300
40	Grampanchayat - 3200 Plants each GPs (RDD)	2506400	1661300	1747750	2647250	1459650	1731750	11754100
41	Housing Department	700	700	700	700	700	700	4200
42	Railway under GoI	1250	1250	1250	1250	1250	1250	7500
43	National Highways under GoI	500	500	500	500	500	500	3000
44	Defence under GoI	8450	10000	14050	18100	10000	25100	85700
45	GoI offices In State	3700	8400	10000	10000	10000	10000	52100
46	Textiles & Sericulture Deparment	1205050	1452250	0	0	0	550	2657850
	TOTAL	**5096300**	**5762200**	**3181250**	**5702350**	**2185900**	**2443800**	**24371800**

***NA - Not Applicable.**

****UDD - Includes Municipal Councils, Nagar Panchayats, CIDCO and Various Pradhikarans Like MMRDA, PMRDA, NIT etc.**

Sr. No.	Implementing Agency Name	Amravati	Akola	Washim	Yavatmal	Buldhana	Amravati Revenue division Total
		Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019
1	Agriculture Department	135150	440700	217500	407650	397300	1598300
2	Urban Development Department ** (Except Municipal Corporations)	64100	88500	34850	109550	138850	435850
3	Municipal Corporations	20300	16300	NA*	NA*	NA*	36600
4	PWD	500150	121750	161750	411600	10400	1205650
5	Water Resources Department	67850	35400	24800	182550	4200	314800
6	Co-operation & Marketing Department	7050	18750	5000	5900	7950	44650
7	Industries Department	176050	134750	600	33950	30900	376250
8	School Education Department	151550	49200	24700	70600	317400	613450
9	Sports Department	16850	5450	2750	7850	35250	68150
10	Higher Education Department	3475	350	7625	875	425	12750
11	Technical Education Department	3475	350	7625	875	425	12750
12	Home Department (Police)	17650	19750	6100	5850	28100	77450
13	Home Department (Jail)	27250	4200	400	550	850	33250
14	Tribal Development Department	32500	28100	600	79150	4200	144550
15	Social Justice and Special Assistance	18760	1760	2760	11600	4840	39720
16	VJNT & OBC welfare Department	4690	440	690	2900	1210	9930
17	Tourism Department	1000	1000	1000	1000	1000	5000
18	Cultural Affairs Department	1000	1000	1000	1000	1000	5000
19	Public Health Department	23400	9000	17250	10800	6300	66750
20	Energy Department	3550	14850	13350	7850	7750	47350
21	Medical education Department	500	500	500	500	500	2500
22	Food and Drug Administration Department	500	500	500	500	500	2500
23	State excise	2650	350	550	1100	2800	7450
24	Transport (RTO)	1000	100	1000	2300	1200	5600
25	Transport (MSRTC)	1500	150	1500	3450	1750	8350
26	Labor Department	500	500	500	500	500	2500
27	Law and Judiciary Department	13100	9950	11250	2400	300	37000
28	Water Conservation Department	25300	14050	15000	28150	24650	107150
29	Skills development and entrepreneurship	5450	5600	5000	5350	5600	27000
30	Revenue Department	21500	13500	8550	34550	28100	106200
31	Women and Child Welfare Department	9200	3700	5650	21200	8950	48700
32	Water supply and Sanitation	6350	8600	7950	6250	6000	35150
33	Animal Husbandry Department	11550	5300	2750	5900	8450	33950
34	Dairy Department	3850	1750	900	1950	2800	11250
35	Fisheries Department	3850	1750	900	1950	2800	11250
36	Minority welfare department	8700	8700	8700	8700	8700	43500
37	Finance - GST Department	750	750	750	750	750	3750
38	Finance - Accounts and Tresury Department	750	750	750	750	750	3750
39	Rural Development Department (Excluding Grampanchayat)	48000	15000	1500	9300	2600	76400
40	Grampanchayat - 3200 Plants each GPs (RDD)	2688850	1706150	1571700	3844400	2784850	12595950
41	Housing Department	500	500	500	500	500	2500
42	Railway under GoI	1250	1250	1250	1250	1250	6250
43	National Highways under GoI	4500	4500	4500	4500	4500	22500
44	Defence under GoI	500	500	500	500	500	2500
45	GoI offices In State	500	500	500	500	500	2500
46	Textiles & Sericulture Deparment	100000	100000	100000	525550	100000	925550
	TOTAL	**4236900**	**2896500**	**2283500**	**5864850**	**3998150**	**19279900**

***NA - Not Applicable.**

****UDD - Includes Municipal Councils, Nagar Panchayats, CIDCO and Various Pradhikarans Like MMRDA, PMRDA, NIT etc.**

Sr. No.	Implementing Agency Name	Nashik	Ahamadnager	Dhule	Jalgaon	Nandurbar	Nashik Revenue division Total
		Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019
1	Agriculture Department	684800	672100	235750	162150	292650	2047450
2	Urban Development Department ** (Except Municipal Corporations)	171300	188750	144300	132500	5600	642450
3	Municipal Corporations	81650	22450	126400	25300	NA*	255800
4	PWD	398100	64150	91700	126700	39600	720250
5	Water Resources Department	158700	62750	20400	138000	350	380200
6	Co-operation & Marketing Department	35550	17000	17500	61050	13000	144100
7	Industries Department	51950	4450	12650	29800	400	99250
8	School Education Department	114850	72400	12450	111400	35550	346650
9	Sports Department	12750	8050	1400	12400	3950	38550
10	Higher Education Department	3075	11150	500	1925	900	17550
11	Technical Education Department	3075	11150	500	1925	900	17550
12	Home Department (Police)	54050	2800	4850	8450	4300	74450
13	Home Department (Jail)	29500	500	500	500	500	31500
14	Tribal Development Department	12350	10000	15950	55150	50900	144350
15	Social Justice and Special Assistance	3000	3000	3000	3000	3000	15000
16	VJNT & OBC welfare Department	700	700	700	700	700	3500
17	Tourism Department	1600	1600	1600	1600	1600	8000
18	Cultural Affairs Department	500	500	500	500	500	2500
19	Public Health Department	3200	3500	1450	46000	500	54650
20	Energy Department	8900	200	500	21300	500	31400
21	Medical education Department	500	500	500	500	500	2500
22	Food and Drug Administration Department	500	500	500	500	500	2500
23	State excise	300	11450	500	500	500	13250
24	Transport (RTO)	4450	650	500	1300	500	7400
25	Transport (MSRTC)	6650	950	500	1900	500	10500
26	Labor Department	15350	87900	500	500	500	104750
27	Law and Judiciary Department	4350	500	300	3250	500	8900
28	Water Conservation Department	35450	4850	11900	4650	24850	81700
29	Skills development and entrepreneurship	100	500	4700	7500	500	13300
30	Revenue Department	3150	45200	5550	14900	3150	71950
31	Women and Child Welfare Department	32350	500	500	1050	13600	48000
32	Water supply and Sanitation	9300	500	2900	1400	500	14600
33	Animal Husbandry Department	8700	13100	4400	3950	4300	34450
34	Dairy Department	2900	4350	1450	1300	1450	11450
35	Fisheries Department	2900	4350	1450	1300	1450	11450
36	Minority welfare department	8700	8700	8700	8700	8700	43500
37	Finance - GST Department	2900	2850	500	500	500	7250
38	Finance - Accounts and Tresury Department	2900	2850	500	500	500	7250
39	Rural Development Department (Excluding Grampanchayat)	60300	5400	2200	18000	18000	103900
40	Grampanchayat - 3200 Plants each GPs (RDD)	4423800	4199700	1731750	3677950	1904600	15937800
41	Housing Department	950	950	950	950	950	4750
42	Railway under GoI	1250	1250	1250	1250	1250	6250
43	National Highways under GoI	500	500	500	500	500	2500
44	Defence under GoI	500	8150	500	500	500	10150
45	GoI offices In State	37700	500	500	500	500	39700
46	Textiles & Sericulture Deparment	0	0	0	648900	0	648900
	TOTAL	**6496050**	**5563850**	**2476100**	**5343100**	**2444700**	**22323800**

***NA - Not Applicable.**

****UDD - Includes Municipal Councils, Nagar Panchayats, CIDCO and Various Pradhikarans Like MMRDA, PMRDA, NIT etc.**

Sr. No.	Implementing Agency Name	Ratnagiri	Sindhudurg	Thane	Raigad	Palgher	Mumbai City	Mumbai Suburbab	Kokan Revenue division Total
		Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019
1	Agriculture Department	738350	573500	366700	348400	238950	0	0	2265900
2	Urban Development Department ** (Except Municipal Corporations)	47000	11250	295800	59650	220200	0	0	633900
3	Municipal Corporations	NA*	NA*	219750	15050	195000	12100	124850	566750
4	PWD	11150	4450	62450	2450	24600	1250	0	106350
5	Water Resources Department	17300	850	500	11100	5700	0	0	35450
6	Co-operation & Marketing Department	20900	16350	500	650	1250	0	0	39650
7	Industries Department	500	500	11250	102450	32850	0	0	147550
8	School Education Department	120850	2600	120800	2600	143300	1900	0	392050
9	Sports Department	13450	300	13400	300	15900	200	0	43550
10	Higher Education Department	500	500	500	500	775	1600	175	4550
11	Technical Education Department	500	500	500	500	775	1600	175	4550
12	Home Department (Police)	2650	700	8150	8650	500	7200	550	28400
13	Home Department (Jail)	500	500	500	500	500	0	0	2500
14	Tribal Development Department	300	500	28100	300	93400	0	0	122600
15	Social Justice and Special Assistance	500	500	500	500	1760	0	0	3760
16	VJNT & OBC welfare Department	500	500	500	500	440	0	0	2440
17	Tourism Department	500	550	500	500	500	0	0	2550
18	Cultural Affairs Department	500	500	500	500	500	0	0	2500
19	Public Health Department	4600	750	23600	70100	250	300	0	99600
20	Energy Department	3000	500	350	8700	7900	50	0	20500
21	Medical education Department	550	500	500	500	500	0	0	2550
22	Food and Drug Administration Department	150	500	500	500	500	0	0	2150
23	State excise	750	500	500	1950	8550	150	0	12400
24	Transport (RTO)	300	100	1350	1750	500	0	0	4000
25	Transport (MSRTC)	450	150	2000	2650	500	0	0	5750
26	Labor Department	550	500	6000	8600	9350	0	0	25000
27	Law and Judiciary Department	500	500	500	500	500	0	0	2500
28	Water Conservation Department	500	500	500	500	500	0	0	2500
29	Skills development and entrepreneurship	500	500	500	500	500	0	0	2500
30	Revenue Department	4050	1500	2000	82200	87350	0	0	177100
31	Women and Child Welfare Department	3850	500	11500	32600	8450	300	0	57200
32	Water supply and Sanitation	100	500	500	7750	8600	0	0	17450
33	Animal Husbandry Department	1500	850	6150	2850	10200	850	0	22400
34	Dairy Department	500	300	2050	950	3400	300	0	7500
35	Fisheries Department	500	300	2050	950	3400	300	0	7500
36	Minority welfare department	8700	8700	8700	8700	8700	8700	8700	60900
37	Finance - GST Department	500	500	8800	500	5200	0	0	15500
38	Finance - Accounts and Tresury Department	500	500	8800	500	5200	0	0	15500
39	Rural Development Department (Excluding Grampanchayat)	40400	199200	42100	764800	95800	0	0	1142300
40	Grampanchayat - 3200 Plants each GPs (RDD)	2711250	1373250	1376450	2583200	1514050	0	0	9558200
41	Housing Department	500	500	500	500	500	500	500	3500
42	Railway under GoI	1250	1250	1250	1250	1250	1250	1250	8750
43	National Highways under GoI	500	500	500	4200	56200	0	0	61900
44	Defence under GoI	500	500	500	500	500	0	0	2500
45	GoI offices In State	500	500	500	500	5700	0	0	7700
46	Textiles & Sericulture Deparment	0	150000	0	0	0	0	0	150000
	TOTAL	**3762900**	**2358900**	**2639550**	**4143300**	**2820950**	**38550**	**136200**	**15900350**

***NA - Not Applicable.**

****UDD - Includes Municipal Councils, Nagar Panchayats, CIDCO and Various Pradhikarans Like MMRDA, PMRDA, NIT etc.**

Sr. No.	Implementing Agency Name	Pune	Solapur	Satara	Sangli	Kolhapur	Pune Revenue division Total
		Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019	Target for 2019
1	Agriculture Department	927650	209700	496850	784800	343750	2762750
2	Urban Development Department ** (Except Municipal Corporations)	342600	31550	20350	298300	108500	801300
3	Municipal Corporations	273200	220000	NA*	70250	10900	574350
4	PWD	345600	9250	110500	151700	161500	778550
5	Water Resources Department	136900	48650	21850	23050	35850	266300
6	Co-operation & Marketing Department	38850	1550	500	210950	125050	376900
7	Industries Department	61800	2800	55600	135550	74250	330000
8	School Education Department	104150	2600	46650	33450	102350	289200
9	Sports Department	11550	300	5200	3700	11350	32100
10	Higher Education Department	500	8925	6025	16075	19825	50850
11	Technical Education Department	500	8925	6025	16075	19825	50850
12	Home Department (Police)	22750	5600	500	13400	16650	58900
13	Home Department (Jail)	500	500	150	5900	2800	9850
14	Tribal Development Department	500	1400	500	500	500	3400
15	Social Justice and Special Assistance	500	500	500	22480	6880	29360
16	VJNT & OBC welfare Department	500	500	500	5620	1720	7340
17	Tourism Department	1200	500	500	500	1150	3850
18	Cultural Affairs Department	150	500	500	500	150	1800
19	Public Health Department	8100	11500	500	5150	5500	30750
20	Energy Department	850	500	500	400	500	2750
21	Medical education Department	500	450	500	450	500	2400
22	Food and Drug Administration Department	500	100	500	100	500	1700
23	State excise	1000	11250	500	5600	2400	20750
24	Transport (RTO)	750	500	500	2650	200	4600
25	Transport (MSRTC)	1150	500	500	3950	300	6400
26	Labor Department	500	500	500	500	1400	3400
27	Law and Judiciary Department	300	500	500	150	14050	15500
28	Water Conservation Department	500	500	500	6500	5050	13050
29	Skills development and entrepreneurship	500	500	450	500	3000	4950
30	Revenue Department	395800	500	150	23900	68850	489200
31	Women and Child Welfare Department	14800	500	1000	500	1400	18200
32	Water supply and Sanitation	1350	1700	500	500	4600	8650
33	Animal Husbandry Department	250	850	2150	8050	1200	12500
34	Dairy Department	500	500	500	2000	500	4000
35	Fisheries Department	500	500	500	2000	500	4000
36	Minority welfare department	8700	8700	8700	8700	8700	43500
37	Finance - GST Department	500	550	500	500	1000	3050
38	Finance - Accounts and Tresury Department	500	550	500	500	1000	3050
39	Rural Development Department (Excluding Grampanchayat)	410100	700900	66000	56700	51900	1285600
40	Grampanchayat - 3200 Plants each GPs (RDD)	4478200	3293850	4788700	2237500	3287450	18085700
41	Housing Department	500	500	500	500	500	2500
42	Railway under GoI	1250	1250	1250	1250	1250	6250
43	National Highways under GoI	500	4450	500	500	500	6450
44	Defence under GoI	500	500	500	500	700	2700
45	GoI offices In State	4800	300	500	500	500	6600
46	Textiles & Sericulture Deparment	0	835700	726150	338500	633450	2533800
	TOTAL	**7602800**	**5432350**	**6376750**	**4501350**	**5140400**	**29053650**

***NA - Not Applicable.**

****UDD - Includes Municipal Councils, Nagar Panchayats, CIDCO and Various Pradhikarans Like MMRDA, PMRDA, NIT etc.**

Annexure I

Prioritywise Polluted River Stretches as per CPCB Report September 2018

Priority I (9)	Priority II (6)	Priority III (14)	Priority IV (10)	Priority V (14)	
GODAVARI	BHIMA	GHOD	BINDUSAR	AMBA	
KALU	INDRAYANI	KANHAN	BORI	BHATSA	
KUNDALIKA	MULA-MUTHA	KOLAR (MAH)	CHANDRABHAGA	GOMAI	
MITHI	PAWANA	KRISHNA	DARNA	KAN	
MORNA	WAINGANGA	MOR	GIRNA	MANJEERA	
MULA	WARDHA	PATALGANGA	HIWARA	PANCHGANGA	
MUTHA		PEDHI	KOYNA	PANZARA	
NIRA		PENGANGA	PEHLAR	RANGAVALI	
VEL		PURNA	SINA	SAVITRI	
		TAPI	TITUR	SURYA	
		URMODI		TANSA	
		VENNA		ULHAS	
		WAGHUR		VAITARNA	
		WENA		VASHISTI	

Based on data of 2018 Prioritywise Polluted River Stretches as on January 2019

Priority I (4)	Priority II (4)	Priority III (8)	Priority IV (10)	Priority V (15)	Meeting to Bathing standards (3)
GODAVARI	BHIMA	INDRAYANI	DARNA	AMBA	PANCHGANGA
MITHI	KALU	KANHAN	KOLAR	BHATSA	URMODI
MORNA	KUNDALIKA	MULA	KRISHNA	BINDUSAR	VASHISTI
WAINGANGA	MUTHA	MULA-MUTHA	NIRA	CHANDRABHAGA	
		PAWANA	PANZARA	GHOD	
		PEDHI	PATALGANGA	KOYNA	
		PURNA	PENGANGA	MANZARA	
		WARDHA	RANGAVALI	PEHLAR	
			TAPI	SAVITRI	
			VEL	SURYA	
				TANSA	
				ULHAS	
				VAITARNA	
				VENNA	
				WENA	

Dry river stretches : BORI, GIRNA, GOMAI, HIWARA, KAN, MOR, SINA, TITUR, WAGHUR

Annexure II

Proactive Steps taken by the Board regarding 25% Budget Provision to be kept for the Sewage Management and Solid Wastes Management

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The Maharashtra Pollution Control Board has taken proactive action for protection of Environment under the Environment (Protection) Act, 1986 by issuing Directions u/s 33A of the Water (Prevention and Control of Pollution) Act, 1974 r/w 24, 25/26 of the Water (Prevention and Control of Pollution) act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 with Solid Wastes Management Rules vide letter dated 26.12.2014, 10,10,2016, 21.7.2016, 4.8.2017, 25.10.2018 and 23.1.2019 to the local bodies

Maharashtra state has 27 Municipal Corporations and are generating about 87% domestic sewage and remaining Local Bodies generate 13% domestic sewage. Therefore MPCB has concentrated on these 27 Municipal Corporations. The solid waste and sewage is not scientifically treated and disposed. Majority of the Local Bodies expressed financial incapability to provide waste management facilities. Hence, the Board has issued Direction u/s 33A of the Water (Prevention and Control of Pollution) Act, 1974 directing the local bodies to make 25% budgetary provision for scientific treatment and disposal of Sewage and Solid Waste.

Accordingly Municipal Corporations have passed resolution in their General Body meeting and reserved the funds. The utilisation of the said funds is reviewed from time to time. These funds are reserved and made mandatory to utilise for preparation of DPR, establishing treatment facility, O & M of treatment facility etc. The review of the same is taken from time to time by the Board. The details of Municipal Corporations is enclosed.

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25 % budgetary provision made by Municipal Corporations (in Cr)

Sr. No.	Name of Municipal corporations	Financial Year 2015-16 (Provision)	Financial Year 2015-16 (Expenditure)	Financial Year 2016-17 (Provision)	Financial Year 2016-17 (Expenditure)	Financial Year 2017-18 (Provision)	Financial Year 2017-18 (Expenditure)
1	Ulhasnagar Municipal corporation	174.31	31.5	164	40.94	39.6	26.76
2	Nagpur Municipal corporation	267.47	146.98	248.42	185.57	220.22	12.1
3	Thane Municipal Corporation	175.69	114.32	226.75	111.99	290.3	59.35
4	Mira Bhainder Municipal corporation	156.75	271.78	125.1	173.44	206.33	138.53
5	Vasi Virar Municipal Corporation	141.45	110	163.21	113.17	128.98	12.86
6	Parbhni Municipal Corporation	NIL	NIL	23.75	4.76	5	0.87
7	Pune Municipal Corporation	5600	387	1437	323	498.59	291.79
8	Amravati Municupal corporation	15	Not utilized	15	Not utilized	10	0.5
9	Akola Municipal Corpartion	3 from corporation fund	5.48 (Funds utilized from 13th finance commission)	2	Funds utilized from 14th finance commission	Not Reserved	26.16 Lakh funds utilized from 14th finance commission

10	Sangli Municipal Corporation	15	10.98	22	4.6001	40	0.79
11	Kolhapur Municipal Corporation	54.55	26.32	121	46.62	54.94	7.73
12	Solapur Municipal Corporation	1236.23	27.75	324.3	32.97	309.91	29.52
13	Latur Municipal Corporation	7.6	5.4	8.1	5.81	9.2	8.33
14	Navi Mumbai Municipal Corporation	319.14	203.61	246.65	133.91	473.58	Nil
15	Dhule Municipal Corporation	28.18	21.93	40.7	31.42	28.83	NIL
16	Jalgaoan Municipal Corporation	5	NIL	17.5	0.05	1.87	
17	Chandrapur Municipal Corporation	32lakh	6.73 Lakh	32 Lakh	16.56 Lakh	64.54 Lakh	9.32 Lakh
18	Kalyan Dombavli Municipal Corporation	27.25	8.86	49.5	23.24	50	7.24
19	Ahemednager Municipal Corporation	49.95	6.75	71.11	2.5	15	2.5
20	Bhivandi Municipal Corporation	69	26.88	151.03	30.17	95	78.98
21	Panvel Municipal Corporation	16.19	15.79	33.27	4.11	10.86	3.38
22	Pimpari Municipal Corporation	1000	9.14	297.36	101.46	169.11	152.2
23	Nanded Municipal Corporation	38	4.8	43	62.92	16.9	16.92
24	Aurangabad Municipal Corporation	84.5	26.41	76.85	14.19	50	

25	Nashik Municipal Corporation	174.75	31	136.43	136	150.66	137.53
26	Malegaoan Municipal Corporation	37.37	17.37	31.02	22.52	48.18	53.45
27	Mumbai Municipal Corporation	2970.09	1077.76	3365.17	950.78	2097.42	897

Annexure-III

A SUMMARY STATEMENT ON PROGRESS MADE BY LOCAL BODY IN RESPECT OF SOLID WASTE MANAGEMENT

In the state of Maharashtra there are total 271 local bodies , comprising of 27 Municipal Corporations, 16- 'A' Class Municipal Council, 54- 'B' Class Municipal Council, 154- 'C' Class Municipal Council, 14- Nagar Panchayat, 06-Cantonment Board generating about 22897.83 MT of municipal solid waste every day, of which the contribution in terms of percentage by the corporation is 84.72 %, by A class council is 4.25 %, by B class council is 5.04 % , by C Class Council is 5.07 % and by Others is 0.96 %. The overall percentage of treatment is 34.70 % i.e. 7945.544 MT/day quantity is treated and the remaining is disposed in an unscientific manner. Out of 27 Municipal corporations, 24 Corporations have obtained Authorization from MPCB for 22 Nos of approved sites having processing & disposal facilities and same are in operations. 109 Nos. of Municipal Councils having partially processing & disposal facilities.

Maharashtra Pollution Control Board has prepared a summary statement of all local bodies indicating class, populations, Quantum of Solid Waste generations, status of Authorization and Form–II submission by the local bodies. The Region wise abstract along with summery statement in the state of Maharashtra is enclosed.

The total generation of Solid Waste is **22897.83** MT/day in which terms of total waste generation in the corporation is **84.72 %,** A class council is **4.25 %**, B and C Class Council is **5.04 %** and **5.07 %** respectively and others is **0.96 %.** The Statement of Municipal Solid Waste generation in MT/day in the State is enclosed.

The present status of local bodies in the State of Maharashtra is enclosed.

MAHARASHTRA POLLUTION CONTROL BOARD

STATUS OF ULB's WITH RESPECT TO MSW RULES
IN THE STATE OF MAHARASHTRA (REGIONWISE ABSTRACT)

Sr. No.	Name of Region	No. of ULBs
1	**Mumbai**	**01**
2	**Navi Mumbai**	**02**
3	**Thane**	**06**
4	**Kalyan**	**07**
5	**Raigad**	**10**
6	**Kolhapur**	**26**
7	**Pune**	**37**
8	**Nashik**	**48**
9	**Amravati**	**32**
10	**Aurangabad**	**59**
11	**Nagpur**	**22**
12	**Chandrapur**	**21**
	Total	**# 271**

271 Local Bodies' (251 Corporations / Councils + 6 Cantonment Boards + 14 Nagar Panchayats)

Municipal Solid Waste Generation (MT/day) in the State of Maharashtra.

Region	Corporation	"A" Class	"B" Class	"C" Class	NP/Cant./ other
Mumbai	7500.0	-	-	-	--
Navi Mumbai	750.0	-	-	11.0	--
Thane	1890.0	--	36.0	3.0	--
Kalyan	1560.0	221.0	-	--	14.5
Raigad	90.0	-	28.0	61.96	--
Kolhapur	420.0	140.0	104.0	105.25	15.5
Pune	3315.0	143.0	171.46	175.515	98.0
Nashik	1268	98.0	286.4	174.4	70.78
Amravati	420.0	30.0	164.1	115.4	--
Aurangabad	948.0	188.0	158.03	308.41	21.5
Nagpur	1100.0	112.0	92.0	70.0	--
Chandrapur	140.0	43.0	115.23	121.39	--
Total	**19401.0**	**975.0**	**1155.22**	**1146.325**	**220.28**

Corporation : 19,401.0 - 84.72 %
A Class : 975.00 - 04.26 %
B Class : 1,155.22 - 05.04 %
C Class : 1,146.325 - 05.00 %
Others : 220.28 - 00.96 %

Total : 22,897.83 - 100.00%

Municipal Solid Waste Treatment (MT/day) in the State of Maharashtra

Corporation : 6998.0 - 88.07 %
A Class : 187.00 - 02.35 %
B Class : 367.96 - 04.63 %
C Class : 331.124 - 04.16 %
Others : 61.46 - 00.77 %

Total : 7945.544 - 100.00%

Note : Urban Development Department, Government of Maharashtra has approved DPR Plan of 245 Local Bodies and cost of the project is Rs 2650 Crores.

Annexure IV

District-wise Bio-Medical Waste Generation

S.No.	Region	Name of the CBMWTSDF / Union Territory	Bio-Medical Waste Generation (kg/day)	Existing Total Bio-Medical Waste treatment capacity (captive and CBMWTF) (kg/day)	
				Equipmnet	Total
1	**Mumbai**	MCGM area	22171	Incinerator	250 kg / Hr X 4
				Autoclave	450 litr/Cycle
				Deep Burial	NA
				Any Other	NA
2	**Navi-Mumbai and Raigad**	Navi Mumbai, Panvel, Khalapur, Mahad, Shriwardhan, Mangaon, Poladpur, Tala and Mhasala, Alibag, Roha, Pali, Mirudjangira, Sudhagad, Karjat	1972	Incinerator	250 Kg/Hr
				Autoclave	600 litr/cycle
				Deep Burial	NA
				Any Other	NA
		Uran	45	Incinerator	NA
				Autoclave	50 litr/Cycle
				Deep Burial	22 kg/day
				Any Other	NA
3	**Thane**	Thane	2382	Incinerator	50 kg/hr
				Autoclave	50 litr/cycle
				Deep Burial	NA
				Any Other	NA
		Palghar	530	Incinerator	75 kg/hr
				Autoclave	50 litr/cycle
				Deep Burial	NA
				Any Other	NA
4	**Kalyan**	Kalyan	160	Incinerator	Treated at MWML,Taloja
				Autoclave	
				Deep Burial	NA
				Any Other	NA
6	**Pune**	Pune	4949	Incinerator	150 Kg/Hr.
				Autoclave	200 litr/cycle
				Deep/Burial	NA
				Any Other	NA
		PCMC	1544	Incinerator	50 Kg/hr
				Autoclave	200 litr/cycle
				Deep/Burial	NA
				Any Other	NA
		Talegaon	900	Incinerator	50 kg/hr
				Autoclave	50 litr/cycle
				Deep/Burial	NA
				Any Other	NA
		Baramati	1400	Incinerator	150 kg/hr
				Autoclave	250 litr/cycle
				Deep/Burial	NA
				Any Other	NA
		Karad	145	Incinerator	30 kg/hr
				Autoclave	50 litr/cycle
				Deep/Burial	NA
				Any Other	NA

		Satara	1150	Incinerator	100 Kg/Hr
				Autoclave	50 litr/cycle
				Deep Burial	NA
				Any Other	NA
		Solapur	1625	Incinerator	100 Kg/Hr
				Autoclave	50 litr/cycle
				Deep Burial	NA
				Any Other	NA
7	**Nashik**	Nashik	3000	Incinerator	250 Kg/Hr
				Autoclave	400 litr/cycle
				Deep Burial	NA
				Any Other	NA
		Jalgaon	657	Incinerator	70 Kg/Hr
				Autoclave	430 litr/cycle
				Deep Burial	NA
				Any Other	NA
		Dhule	485	Incinerator	50 Kg/hr
				Autoclave	60 litr/cycle
				Deep Burial	NA
				Any Other	NA
		Nandurbar	503	Incinerator	50 Kg/Hr
				Autoclave	60 litr/cycle
				Deep Burial	NA
				Any Other	NA
		Ahmednagar	1800	Incinerator	200 Kg/hr
				Autoclave	100 litr/cycle
				Deep Burial	NA
				Any Other	NA
8	**Kolhapur**	Sindhudurg	245	Incinerator	
				Autoclave	50 litr/cycle
				Deep Burial	244 kg/day
				Any Other	NA
		Kolhapur	1500	Incinerator	50 kg/hr
				Autoclave	50 litr/cycle
				Deep Burial	NA
				Any Other	NA
		Ratnagiri & Chiplun	566	Incinerator	50 kg/hr
				Autoclave	50 litr/cycle
				Deep Burial	NA
				Any Other	NA
		Sangli	973	Incinerator	50 kg/hr
				Autoclave	50 litr/cycle
				Deep Burial	NA
				Any Other	
		Ichalkaranji	386	Incinerator	50 kg/hr
				Autoclave	50 litr/cycle
				Deep Burial	NA
				Any Other	
9	**Aurangabad**	Aurangabad	1600	Incinerator	250 Kg/Hr
				Autoclave	400 litr/cycle
				Deep Burial	NA
				Any Other	NA
		Latur	523	Incinerator	100 kg/hr
				Autoclave	50 litr/cycle
				Deep Burial	NA
				Any Other	NA

		Jalna	1189	Incinerator	50 kg/hr
				Autoclave	50 litr/cycle
				Deep Burial	NA
				Any Other	NA
		Beed & Osmanbad	898	Incinerator	50 kg/hr
				Autoclave	50 litr/cycle
				Deep Burial	NA
				Any Other	NA
		Nanded	904	Incinerator	100 kg/hr
				Autoclave	50 litr/cycle
				Deep Burial	NA
				Any Other	NA
10	**Amravati**	Amravati	747	Incinerator	100 Kg/Hr
				Autoclave	50 litr/cycle
				Deep Burial	NA
				Any Other	NA
11	**Nagpur**	Nagpur	3660	Incinerator	100 Kg/Hr
				Autoclave	50 litr/cycle
				Deep Burial	NA
				Any Other	NA
12	**Chandrapur**	Chadrapur	716	Incinerator	100 Kg/Hr
				Autoclave	50 litr/cycle
				Deep Burial	NA
				Any Other	NA

Captive Incinerator & Deep Burial

13	**Pune**	Krishna Hospital & Medical Research Center, Karad & KIMSDU. A/P: Dhebewadi road, Malakapur, Tal.: Karad, Dist.: Satara (02164)214555-58 Fax: (02164)242127	287	Incinerator	150 Kg/Hr
				Autoclave	30 litr/cycle
				Deep Burial	NA
				Any Other	NA
14	**Nashik**	M/s. Shri Bhausheb Hire Govt. Medical College, Surat By Pass Road, Tal. & Dist. Dhule	133	Incinerator	50 Kg/Hr
				Autoclave	30 litr/cycle
				Deep Burial	NA
				Any Other	NA
		M/s. Jawahar Medical Foundation ACPM Medical College, Dhule	164	Incinerator	45 Kg/Hr
				Autoclave	25 litr/cycle
				Deep Burial	NA
				Any Other	NA
15	**Kolhapur**	Bharati Vidyapeeth Deemed University Medical College and Hospital, Sangli – Maharashtra	39	Incinerator	60 Kg/Hr
				Autoclave	30 litr/cycle
				Deep Burial	NA
				Any Other	NA
		PHC's from Kolhapur District	48		
16	**Aurangabad**	M/s. MIMSR Medical college and Research Centre, Ambajogai Road, Latur	96	Incinerator	50 Kg/Hr
				Autoclave	12 litr/cycle
				Deep Burial	NA
				Any Other	NA
		PHC's from Nanded District	306	Deep Burial	
17	**Nagpur**	PHC's from Nagpur District	129	Deep Burial	
18	**Amravati**	PHC's from Amravati District	1392	Deep Burial	
		TOTAL	**61918**		