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

March, 2019

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MULA RIVER (Bopodi to Aundh Gaon)

1.1 Executive Summary

Sr.	Description of Item	Details		
No.				
1.	Name of the identified polluted river and its tributaries	:	Bopodi to Aundhgaon	
2.	Is river is perennial and total length of the	:	Non- perennial	
	polluted river		Length- 2.7 Km	
3.	Revised priority as per Jan. to Dec.2018 Analysis results	:	Priority III	
4.	No of drains contributing to pollution and names of major drains	:	One drain i.e. Botanical Garden Nallah in Pune City	
5.	Major Towns on the banks of the river with population	:	Dapdi, Bopodi & Aundh areas of Pune Municipal Corporation Pune: Population: 40 Lacs	
6.	a. Sewage generation & Treatment in MLD	:	Total Water consumption of PMC - 1222 MLD Total Sewage generation - 744 MLD	
	b. Total no. of existing STPs and the total capacities in MLD	:	On River Stretch: One with capacity 18 MLD at Bopodi. Presently 13 to 14 MLD sewage is received. In PMC – 10 having capacity 477 MLD.	
	c. Gaps in sewage treatment in MLD and no. of towns not having STPs	:	11 proposed STPs having capacity having capacity 396 MLD and one proposed by Pune Cantonment with capacity 20 MLD. Total Sewage generation - 744 MLD	

			Actual sewage treatment - 477 MLD
			Gaps in treatment - 267 MLD
7.	Major industrial estates located with total no. of industries	:	Industrial Estate No. of Industries No 18
	a. Total water consumption and total industrial effluent generation in MLD	:	No effluent generating industry in this river stretch. MPCB does not permit treated/untreated industrial effluent discharge into the River.
	b. No. of industries having captive ETPs and their treatment capacity in MLD	:	NA
	c. No of CETP's and their treatment capacity	:	No CETP in the catchment area of the river
	d. Gaps in treatment of industrial effluent	:	No gap in effluent treatment.
0	Waste Management	:	The charge of th
8.	a. Solid Waste Generation & processing	:	Total generation of MSW – 2100 MT/Day.
			The composition of waste is as follows.
			 Wet Waste :- 523 MT/day In organic / Mixed Waste :- 600 MT/day
			3. Untreated :- 750 MT/day
			MSW Treatment - 1078 MT/day through
			Composting, Vermicomposting, RDF,25 Bio- Methanation plant, Waste to Energy.
			Pune Municipal Corporation has MSW dumping ground at Urali Devachi – Fursungi where generated MSW is dumped partly and over all 48 MSW processing plants at various location are in operation in PMC area.
			PMC has proposed 10 New plants for processing of Mixed Waste. The waste quantity will be treated in these new plant to tune of 1600 MT/day.
	b. Biomedical Waste Generation & treatment	:	Hospitals are joined to CBMWTSDF-PASCCO Environmental Solution ltd.
			Total collection and treatment: 4948.5 Kg/day
	c. E-Waste Management Generation &	:	E-waste generated by industries is sent to MPCB
	treatment d. Hazardaya waata Managamant		authorized E-waste reprocessor.
	d. Hazardous waste Management	•	HW generated from industry is disposed through CHWTSDF.

		l	
9.	Action plan includes mainly covering aspect	•	Maharashtra Enviro Power Ltd. MIDC, Ranjangaon, Dist. Pune Capacity – Landfill – 60000 TPA Incinerable – 20000 TPA Lifespan – 20 years RRC has already communicated to Water Resource
	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)	•	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		Min - 2022
11.	implementation of action plans Total estimated budget in crores towards		Max - 2023 Budget Received from Central Govt.
11.	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.,)	•	57.74 Cr. Provision by PMC in the budget 2019-20 Rs.80.00Cr Details in Table 4.
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	:	Water Resource Department, GoM Urban Development Department
	(Please enclose details as annexure)		3. Pune Municipal Corporation
14.	Expected deliverables wr to achieving Goals	:	 To achieve 100% sewage collection and treatment To achieve 100% MSW collection, transportation and treatment. To achieve river water quality of Bathing standards by 2022. 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 1 pais/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. The Pune Municipal Corporation has sanctioned find of Rs. 990.26Cr; out of which Central Government as Central Government has component of 841.72Cr. & Pune Municipal Corporation has component 148.54Cr for management of sewerage systems & STPs; which 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 i.e. 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..

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)
- 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 Mula River in Pune region; dammed near the Western Ghats at the Mulshi Dam that forms the Mulshi Lake. Further downstream, in Pune city, it merges with the Pawana River on the left

bank and Mutha River on the right bank to form the Mula-Mutha River, which later meets the Bhima River. In 2010, areas surrounding the river experienced flash floods due to high levels of pollution and garbage dumped into the river. Due to high levels of pollution, including 125 MLD of untreated sewage being discharged into the river by the Pune Municipal Corporation, Maharashtra Pollution Control Board has classified the water quality to be of Class-IV. Mula is considered to be the lifeline of the Pune city. The water of Mula River is used for drinking, bathing, industrial and irrigation purposes. The increasing urban and industrial activity

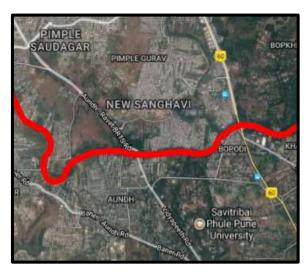


Figure 1 Stretch of Mula River

influences the water quality of Mula River. Mula and Mutha rivers covers almost whole city. Hence it receives disposal of solid wastes, domestic waste, hospitals and industrial effluents and some amount of agricultural runoff.

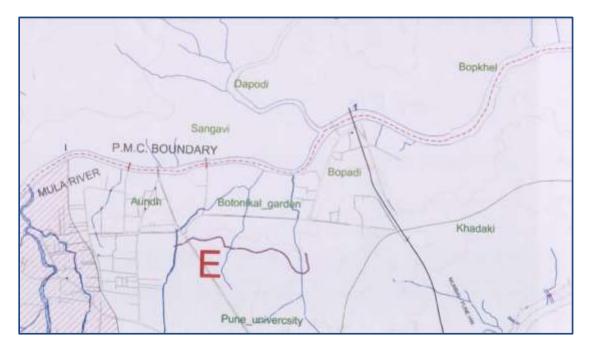


Figure 2 Map Showing Stretch of Mula River

The river is non-perennial in nature and the steady flow is attributed to the release of water from Mulshi dam.

The river stretch extends from Harrison Boridge, Bopodi to Aundhgaon. Length of the stretch is approximately 2.7 Km. Pimpri-Chinchwad Municipal Corporation is situated at one end of the stretch and Pune Municipal Corporation is situated at the other end. The population of Pune is 40 Lacs & the population of Pimpri-Chinchwad is about 17.3 Lacs as per the 2011 Census.

River water is used only for irrigation and drinking water to Pune & Pimpri-Chinchwad is supplied through 4 dams namely:

- a. Khadakwasla Dam
- b. Panshet Dam
- c. Warasgaon Dam
- d. Temghar Dam

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 15.5mg/l.

Table 1 Introduction of river stretch

Sr. No.	Description of item	Details
1	Approx. length of stretch	2.7 Km
2	Major Towns located on the bank along with Population	Pune Municipal Corporation Area at one end of the stretch and Pimpri - Chinchwad Corporation area at the another end. Population: Pune: 40 Lacs
3	Stretch of River Perennial or Non Perennial	Non Perennial. River flow due to discharge of Mulshi Dam.
4	Water usage in the stretch	Water used for irrigation. Water for potable purpose is supplied through a pipeline directly from the dams.
5	Current status of polluted river stretch (Jan – Dec 2018)	Priority III

1.3 Status of Sewage Generation & Treatment

Pune city generates about 744 MLD sewage. There are 10 Sewage Treatment Plants installed by Pune Municipal Corporation with capacity of 567 MLD. At present nine of them are in operation with effective treatment capacity of 477 MLD. The gap in treatment is about 267 MLD. PMC plans to bridge the gap in sewage treatment by installing 11 sewage treatment plants

of capacity 396 MLD at different locations. One 20 MLD plant is also proposed by Pune Cantonment Board which will be operational by 2022.

The PMC projects are funded by Central Government grant of 85% and own funds of 15%. For majority of the projects Tendering is in process & Work Order will be issued by end of April 2019 and the plants will be operational by 2022.

Table 2 Status of Sewage generation & treatment in Pune City

Sr. No.	City	Total Sewage Generated	STP capacity	Total effective Treatment Capacity	Gap in Treatment (MLD)
1	Pune	744	567	477	267

Table 3 Status of STPs in Pune City

Name of STP		Sewer District	Year of Commissioning	Capacity (MLD)	Present Inflow (MLD)
1	Mundhawa	SD2	2010	45.0	47.0
2	Bhairoba	SD3	2003	130.0	80.0
3	Naidu Old	SD4	1988	(90.0)	-
4	Naidu	SD4	2010	115.0	100.0
5	Vithalwadi	SD5	2010	32.0	33.0
6	Eradwane	SD8	2004	50.0	52.0
7	Tanajiwadi	SD9	2004	17.0	17.0
8	Bopodi	SD10	2003	18.0	15.0
9	Baner	SD11	2010	30.0	30.0
10	Kharadi	SD15	2012	40.0	42.0
Total		9	2010/2014	477	416

Table 4 Status of Proposed STPs in Pune City

Name and	Designed				Target date
Address of	Capacity	Source of		Stage of	of
STP	(MLD)	Funds	Present status of work	Completion	Completion
Pune Cantonment					
Board, Pune	20		Trial Run		2022
		Central			
Pune		Govt.	Land belongs to agriculture		
Municipal		Grant 85%	university correspondence		
Corporation,		& PMC	done with Govt. Proposal sent	Land	
Botonical		Component	to UD & revenue department	Acquisition	
Garden,	10	15%	regarding handover of land.	in process	2022
Pune	10		Process of Land Acquisition		
		Central	is under process. Total Station		
		Govt.	survey of land is completed.		
		Grant 85%	Land fee deposited to land &		
		& PMC	record department by PMC on	Land	
Pune		Component	17/11/2018. Demarcation map	Acquisition	
Municipal		15%	of land is available from Land	in process	
Corporation,			& Record Department.		2022
Baner, Pune	25				
		Central	For the acquisition of reserved		
		Govt.	land PMC has deposited the		
		Grant 85%	amount of Rs. 14.32 cr. on		
		& PMC	24.10.2017. The acquisition process is initiated by special	Land	
D		Component	land acquisition officer & it is	Acquisition	
Pune Municipal		15%	in progress. Also negotiations	in process	
Corporation,			with owners is in process.		2022
Warje, Pune	28		_		
			Out of 2.5 Ha. Land about		
		Central	1.26 Ha is Govt. land. Process		
			of handing over of the said		
		Govt. Grant 85%	land to PMC by collector		
		& PMC	office is in final stage. For the	Land	
Pune		Component	acquisition of reserved land	Acquisition	
Municipal		15%	PMC has deposited the	in process	
Corporation,		15/0	amount of Rs. 5.00 cr. on	III p100003	
Vadgaon,	9.5		01.08.2016 & Rs. 2.9 cr on		2022
Pune	26		24.10.2017 in collector office.		

			The acquisition process is initiated by special land acquisition officer & the same is in progress.		
Pune Municipal Corporation, Tanaji Wadi, Pune	15	Central Govt. Grant 85% & PMC Component 15%	Bid documents issued to prequalified bidders on 29/12/2018. Pre-Bid meeting is scheduled on 21/01/2019 and opening of bids is scheduled on 27/02/2019.	Tendering in process & Work Order will be issued by end of April 2019.	2022
Pune Municipal Corporation, Naydu, Pune	127	Central Govt. Grant 85% & PMC Component 15%	Bid documents issued to prequalified bidders on 29/12/2018. Pre-Bid meeting is scheduled on 16/01/2019 and opening of bids is scheduled on 25/02/2019.	Tendering in process & Work Order will be issued by end of April 2019.	2022
Pune Municipal Corporation, Dhanori, Pune	33	Central Govt. Grant 85% & PMC Component 15%	Bid documents issued to prequalified bidders on 29/12/2018. Pre-Bid meeting is scheduled on 21/01/2019 and opening of bids is scheduled on 27/02/2019.	Tendering in process & Work Order will be issued by end of April 2019.	2022
Pune Municipal Corporation, Bhairoba, Pune	75	Central Govt. Grant 85% & PMC Component 15%	Bid documents issued to prequalified bidders on 29/12/2018. Pre-Bid meeting is scheduled on 16/01/2019 and opening of bids is scheduled on 25/02/2019.	Tendering in process & Work Order will be issued by end of April 2019.	2022

Pune Municipal Corporation, Mundhva, Pune	20	Central Govt. Grant 85% & PMC Component 15%	Bid documents issued to prequalified bidders on 29/12/2018. Pre-Bid meeting is scheduled on 21/01/2019 and opening of bids is scheduled on 27/02/2019. For the acquisition of reserved land PMC has deposited the amount of Rs. 5.31 cr. on 19.01.2018.	Tendering in process & Work Order will be issued by end of April 2019.	2022
Pune Municipal Corporation, Kharadi, Pune	30	Central Govt. Grant 85% & PMC Component 15%	Proposal submitted to the forest dept. on 07.12.2017. Out of 0.70 Ha private land 0.3 Ha land came in possession of PMC in Nov.2018 in lieu of TDR. Regarding Forest Land NOC awaited from Collector Office.		2022
Pune Municipal Corporation, Matsyabij Kendra, Pune	7	Central Govt. Grant 85% & PMC Component 15%	Bid documents issued to prequalified bidders on 29/12/2018. Pre-Bid meeting is scheduled on 21/01/2019 and opening of bids is scheduled on 27/02/2019.	Tendering in process & Work Order will be issued by end of April 2019.	2022

PMC has received grant of Rs. 57.74 cr. under Japan International Cooperation Agency – JICA wherein diversion of nallah work is considered. Drainage system is proposed by Pune Municipal Corporation in rest of the unsewered area.

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.

Table 5 Domestic sewage aspects on the river stretch

Sr No	Particular	Remarks
		Existing drainage network- Map enclosed. > PMC area covered with 92% of sewerage network having 2,200 Kms of length.(excluding newly merged 11 villages)
1	Details of drainage system/sewerage network present/proposed	Proposed drainage network- ➤ PMC has received grant of Rs. 57.74 cr. Under JICA wherein diversion of nallah work is considered. ➤ For collection of untapped sewage – laying of 113.6 Kms of sewers with house connection & laterals in PMC area ➤ Presently sewage is more than existing STP capacity.
		However PMC has planned to cater the Sewage from this area considering the population till 2027 by adding new STP having capacity 10 MLD at Botonical Garden and 25 MLD at Baner.
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	Water to the Pune city is provided from dams. Hence ground water extraction is minimum. Water to industrial area is supplied by Maharashtra Industrial Development Corporation.
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 for projects above 20,000 Sq.m.
6	Adopting good irrigation practices	Agriculture Department, GoM & Water Resource Department, GoM is requested for implementation.
7	Protection and management of Flood Plain Zones (FPZ)	Water Resource Department, GoM is requested for implementation.
8	Plantation on both sides of the river	Water Resource Department, GoM is requested for implementation.
9	Setting up of biodiversity parks on flood plains by removing encroachment	Water Resource Department, GoM is requested for implementation.

1.4 Performance assessment of Sewage Treatment Plants

There is one STP in the stretch having capacity 18 MLD at Bopodi. However at present only 13 to 14 MLD sewage is received at this facility for treatment due to inadequate drainage network.

Table 6 Bopodi STP Outlet Sample Analysis results

Sr.No.	Parameters	STP Outlet standard as per consent	Bopodi STP Outlet sample, at Bhopodi PMC STP	
	Date of collection		12.7.2018	22.10.2018
1	рН	6.5-9.0	7.3	7.3
2	Dissolved Oxygen	> 4.0	4.2	2.9
3	BOD	< 30.0	14.5	8.0
4	COD	•••		24.0
5	SS			10.0
6	Oil & Grease		BDL	BDL
7	Nitrate		9.5	1.5
8	Phosphate		0.13	2.67
9	Total Coliform		1600	1600
10	Feacal Coliform	< 1000.0	200	170

It is observed from Table 6, the BOD of treated water of STP is in the range of 8 to 14.5mg/lit which well within the standard as per consent.

Further in entire Pune region, there are 28 operational STPs out of 36 in this Region with a collective treatment capacity of 1168.89 MLD. The total domestic effluent received at these STPs during the year 2017-18 was 1052.5 MLD while the total quantity of domestic effluent treated was 834.6 MLD. The mean of annual performance and analysis of all STPs provided in Pune Region are represented in Table 07.

Table 7 Mean of Annual Performance of STPs in Pune Region.

	Paramet	ers (mg/l)					
Location	pН		BOD (N	BOD (Mean)		S.S. (Mean)	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	
PMC STP at Tanajiwadi	-	6.9	-	14	-	-	
PMC STP at New Naidu	-	7	-	9.5	-	-	
PMC STP at Old Naidu	-	7	-	4.2	-	-	
PMC STP at Vittalwadi	-	7.1	-	8.6	-	-	
PMC STP at Erandwana	-	7.1	-	15	-	-	
PMC STP at Baner	-	7.3	-	3.8	-	-	
PCMC Akurdi	-	7.9	-	11.6	-	10.3	

PCMC Charholi	-	7.9	-	19.5	-	29
PCMC Chikhali Phase-I	-	7.4	_	12.4	-	15.2
PCMC Chikhali Phase-II	-	7.7	-	8.9	-	11.6
PCMC Chinchwad	-	7.5	-	17.3	-	12.3
PCMC Kasarwadi -I	-	9.1	-	7.5	-	14.3
PCMC Kasarwadi -II	-	7.3	-	12	-	16.2
PCMC Kasarwadi -III	-	7.6	-	14.7	-	14.9
PCMC Pimple Nilakh	-	7.8	-	10.2	-	32.3
PCMC Ravet	-	7.6	-	10.5	-	13.2
PCMC Sanghavi	-	7	-	5.8	-	11
PCMC Dapodi	-	7.8	-	10.1	-	17
PCMC Bhat Nagar	-	7.6	-	12.7	-	32
Mahabaleshwar Municipal Council-STP No.1- at Compartment No. 79 (City Survey		7.25	-	10.75	-	28
No. 257/1) Behind Karmachari Vasahat, at Mahabaleshwar, Taluka- Mahabaleshwar, District- Satara		7.65	-	147.5	-	640.5
Panchgani Municipal Council (0.65 MLD)	-	7.65	-	27	-	51
Panchgani Municipal Council (0.35 MLD)	-	7.5	-	8.55	-	27.5
Panchgani Municipal Council (1.5 MLD)	-	7.6	-	78		123
Karad Municipal Council	-	7.3	_	32.83		31.33
Malkapur City	-	8.5	_	7	-	24
Solapur Municipal Corporation, Solapur Kumathe STP	-	8.1	-	4.95	-	13
Solapur Municipal Corporation, Solapur Degaon STP	-	8.1	-	5.5	-	12
Solapur Municipal Corporation, Solapur Pratap Nagar STP	-	8.2	-	4.05	-	11.5
Pandharpur Municipal Corporation, Solapur Pandharpur STP	7.8	7.4	-	85	-	21.25

From above table it can observed that the BOD outlet values exceeded the prescribed standard of 20 mg/l at the STP provided by Mahabaleshwar Municipal Council, and those at Panchgani, Karad and Pandharpur. Outlet values of suspended solids were within the prescribed standard of

50 mg/l at all locations except at the STP provided by Mahabaleshwar Municipal Council and at Panchgani.

1.5 Drain out-falling into River Mula

There is one nallah that falls into the Mula river stretch named as botanical garden nallah. The details and water quality of the same are provided in table below:

Table 8 Details of Major Drains

Sr No	Location	Name of the drain	Length (km)	Width (m)	Depth (m)	Qty
1	Botanical Garden, Aundh Road	Botanical Garden Nallah	Approx. 9.5	Approx. 3.0	Approx. 0.3 -0.4	5.5 MLD

Table 9 Water Quality of nallah at Botanical Garden

Regional Office	Major Drain	BOD	(mg/l)	COD	(mg/l)
RO Pune	Botanical Garden	12.07.2018	22.10.2018	12.07.2018	22.10.2018
(SRO Pune-I)	Nallah				
		22.0	15.5	68.0	44.0

Similarly, the water quality of nallah at Botanical Garden is in the range of 15.5-22mg/lit during the month of July & October'2018 and the nallah is merging into the river.

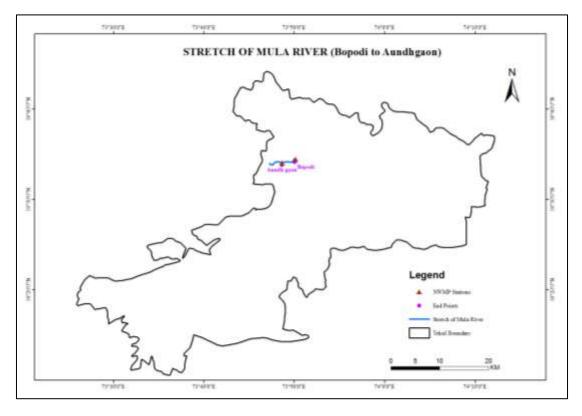


Figure 3 Map Showing NWMP Stations across Mula River Stretch

1.6 Status of water quality

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 10. The water quality of the river is determined referring to Water Quality Criteria set by CPCB for Outdoor bathing.

Table 10 Status of water quality of Mula River at Aundh Bridge-Aundhgaon

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	8.5	1.8	14.5	-	-	Non Complying
	2018	8.6	4.6	6.8	200	1800	Non Complying
February	2017	7.6	0.7	11.0	-	-	Non Complying
	2018	7.8	5.1	6.4	125	1800+	Non Complying
March	2017	7.6	2.8	13.0	-	-	Non Complying
	2018	8.1	5.6	6.4	195	1600	Non Complying
April	2017	7.4	1.8	12.0	225.0	1600	Non Complying
	2018	8.1	5.6	5.8	250	1600	Non Complying
May	2017	8.4	0.8	15.0	140.0	1600	Non Complying
	2018	8.44	5	6.2	195	1600	Non Complying
June	2017	8.2	1.4	13.0	225.0	1600	Non Complying
	2018	7.9	4.0	14.5	250	1800+	Non Complying
July	2017	7.5	6.3	5.4	200.0	1600	Non Complying
	2018	6.9	3.6	12.5	275	1800+	Non Complying
August	2017	8.1	6.4	6.6	250.0	1600	Non Complying
	2018	8.2	3.5	8.2	250	1800+	Non Complying
September	2017	7.1	5.0	3.2	275.0	1800	Non Complying
	2018	7.7	3.5	9.8	900	1800+	Non Complying
October	2017	7.6	5.6	6.8	200.0	1600	Non Complying
	2018	7.4	2.4	8.8	250	1800+	Non Complying

November	2017	7.9	5.2	5.4	275.0	1800+	Non Complying
	2018	7.4	1.9	9.0	350	1800+	Non Complying
December	2017	7.8	4.8	7.2	275.0	1800+	Non Complying
	2018	7.93	1.7	9.5	250	1800+	Non Complying

It is depicted from above Analysis that maximum 15mg/lit of BOD is monitored during May 2017 and minimum of 3.2mg/lit is observed in the September 2017. In 2018, maximum & minimum BOD is observed to be 14.5mg/lit in June & 5.8mg/lit in April respectively. All samples are observed to be beyond the CPCB standard of Water Quality Criteria of 3mg/lit.

Table 11 Status of Water Quality for Mula River at Harrison Bridge near Mula-Pawana Sangam

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	8.5	1.7	15.0	-	-	Non Complying
 	2018	8.4	4.8	9.5	275	1800	Non Complying
February	2017	7.4	0.5	14.0	-	-	Non Complying
	2018	8.1	4.1	13.5	250	1800+	Non Complying
March	2017	7.5	2	13.5	-	-	Non Complying
	2018	8.2	4.7	11.5	225	1800+	Non Complying
April	2017	7.4	1.4	14.0	275.0	1600	Non Complying
-	2018	7.6	4.6	10.0	225	1600	Non Complying
May	2017	8.1	Nil	22.0	140.0	1800	Non Complying
-	2018	8.37	4.4	13.0	250	1800+	Non Complying
June	2017	8.4	1.1	14.0	350.0	1800+	Non Complying
-	2018	7.8	4.0	15.5	275	1800+	Non Complying
July	2017	7.3	6	6.0	170.0	900	Non Complying
-	2018	7.0	3.1	13.5	250	1800+	Non Complying
August	2017	8.1	6.3	6.8	275.0	1800+	Non Complying
	2018	8	2.8	7.5	200	1800+	Non Complying
September	2017	7.6	4.3	8.2	250.0	1800	Non Complying

	2018	7.5	1.6	13.5	1800+	1800+	Non Complying
October	2017	8.0	4.4	11.0	275.0	1800+	Non Complying
	2018	7.3	2.5	8.5	250	1800+	Non Complying
November	2017	8.3	4.6	11.5	250.0	1600	Non Complying
	2018	7.5	1.6	10.5	350	1800+	Non Complying
December	2017	7.9	3.8	14.0	225.0	1800+	Non Complying
	2018	7.79	1.4	10.5	250	1800+	Non Complying

It is observed from above analysis that maximum 22mg/lit of BOD is observed during May 2017 and minimum of 6.0mg/lit is observed in the July 2017. In 2018, maximum & minimum BOD is observed to be 15.5mg/lit in June 7.5mg/lit in August respectively. All samples are observed to be beyond the CPCB standard of Water Quality Criteria of 3mg/lit.

The values are mostly observed to be higher in non-flowing areas of the river. January to June of every year shows higher results as there is no dilution to sewage discharged from city. The river does not have flow in lean season and primarily only sewage is observed in river bed.

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 (24 Borewells, 24 Dugwell, 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 12 Water Quality Index for 156 locations (surface water & ground water) during January - 2019

WQI Category	WQI	Number of WQl	I values in different
		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:

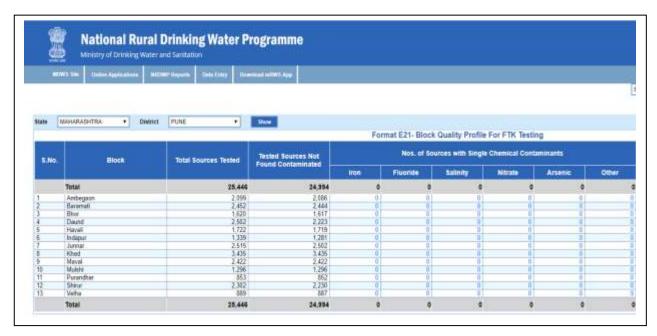
- 1. 110 WQI values or 82.70 % values are in category of Good to Excellent and Medium to Good.
- 2. 9 WQI values or 6.77 % are in category of Bad.
- 3. 14 WQI values or 10.53 % are in category of Bad to Very Bad.

Table 13 Ground water quality of dug well at MSW site Moshi, Dist. Pune

STN Code	Location Name						
1992	Dug well at MSW Site, owned by Shri. Dattu Kondiba Borate at Borate Vasthi, Village- Moshi, Pimpri Chinchwad, Taluka- Haweli, District- Pune.						
Sampling Date	4/5/2018	Drinking Water Standards	Water Quality bathing criteria				
Dissolved O2	6.5	6	5 or more				
pН	8.4	6.5 – 8.5	6.5 - 8.5				
BOD	2.6	0	3 or less				
Total Coliform	425.0	Should not be detectable in any	500 or less				

100ml	sample
1001111	sample

Heavy metals like Nickel, Cadmium, Copper, Lead, Chromium, Mercury & pesticides like Alpha BHC, Beta BHC, OPDT, PPDDT, DDT_DDE_DDD, Endosulphan, Aldrin are observed to be Below Detectable Limits



Above Figure shows there is no contamination of metals in above mentioned blocks in Pune district as per the published data of NRDWP, Ministry of drinking water and sanitation.

1.8 Status of Industrial Effluent Generation & Treatment

Maharashtra is one of the most highly industrialized states in India. With a rise in industrial estates in the State, areas like Mumbai, Thane, Navi Mumbai, Kalyan, Nashik, Pune and Pimpri-Chinchwad that have a large number of pollution-prone industries are facing chronic industrial pollution. In order to maintain a safe distance between industrial units and rivers to avoid discharge of effluent into water bodies, the State has its policy which also states that no industry will be allowed to establish along a river bank. Industries are being encouraged to recycle and reuse waste. This region mostly harbors multi facet forms of industries ranging from IT & Biotech parks to complicated process & manufacturing industries Industrial Statistics in Pune region is demonstrated as following;

Pune					
LSI	MSI	SSI			
493	291	7101			
1270	563	4608			
1323	322	3637			
White - 203					

There are 18 industries in the catchment area of river and adjoining areas. Maharashtra Pollution Control Board does not allow any industry to discharge treated/untreated effluent to the river.

The brief details about these industries are as under:

Table 14 Particulars of Industries in Pune District

Sr	Particular	Remarks
No		
1	Particulars of Industries in Pune	Orange 3782
	District	Red 3633
		Majorly domestic pollution from Pune Municipal Corporation area. MPCB do not allow any industry to discharge effluent to the river.
		Industries along the stretch:
		Industrial Estate No. of Industries
		No 18
		However, Non Polluting Engineering units are
		located on the stretch.
2	No. of Directions issued to	Nil
2	Industries	No office of consenting industry in this given started
3	Total water consumption and total industrial effluent generation	No effluent generating industry in this river stretch. MPCB does not permit treated/untreated industrial
	industrial emuent generation	effluent discharge into the River.
4	No. of industries having captive	NA
	ETPs and their treatment capacity	
	in MLD	
5	No. of CETPs existing in the	No CETP located in this area
	catchment of the polluted river	
	stretch and the treatment capacity	
6	No. of Industries that are	No CETP located in this area
7	members of the CETPs	NT A
7	Gaps in treatment of industrial	NA
0	effluent	NI.
8	OCEMS installation Status by Industries	No
	Hidustifes	

To monitor compliance of Consent conditions, performance of ETP, ECS and other measures, the Board officials inspect industries regularly. There are 489 industries identified under "Highly Polluting Industries". Following Table shows region-wise details of these highly polluting industries.

Table 15 Highly Polluting Industries as on 31/3/2018

Industry	Amr avati	Aur anga bad	Chan drapu r	Kalyan	Kolhap ur	Mumba i	Nagp ur	Nashi k	Navi Mu mbai	Pune	Raigad	Tha ne	Grand Total
Cement	-	-	5	-	1	-	1	-	-	-	-	-	7
Distillery	1	15		-	17	-	1	22	-	36	-	-	92
Dyes and Dye- intermediat es	-	-	2	3	2	-	1	-	1	-	7	2	18
Fertilizer	1	2	-	-	-	1	1	4	-	1	3	-	13
Integrated Iron and Steel	-	-	1	-	1	-	4	-	-	1	2	-	9
Oil Refinery	-	-	-	-	-	2	-	-	-	-	-	-	2
Pesticide	-	-	-	1	5	-	-	1	3	-	3	3	16
Pharmaceu ticals	-	13	-	12	4	-	-	2	15	9	14	23	92
Pulp & Paper	-	-	1	-	-	-	-	-	-	1	-	-	2
Sugar	1	55	2	-	41	-	5	35	-	63	-	-	202
Tannery		1	-	-	-	-		-	-	-	-	-	1
Thermal Power Plant	2	1	7	-	2	1	12	3	-	-	-	1	29
Petro- chemical	-	-	-	-	-	-	-	-	1	-	5	-	6
Grand Total	5	87	18	16	73	4	25	67	20	111	34	29	489

Further in entire Pune region, there are 5 operational CETPs in Pune Region. Their collective treatment capacity is 12.5 MLD. The total industrial effluent generated in this Region during the year 2017-18 was 379.62 MLD. Data on the quantity of effluent treated by these CETPs during this year is not currently available. The minimum SD. was found at Greenfield CET Plant P. Ltd. while the maximum SD. was found at Kurkumbh Environment Protection Co-op. Society. The performance of these CETPs is shown in Table 16.

Table 16 Statistical Analysis Data for CETP Performance in Pune Region

Parameters (mg/l)		Location					
		Kurkumbh Environment Protection Co-op. Society	Ranjangaon CETP	Greenfield CET Plant P. Ltd	Hydro Air Tectonics (PCD)	Akkalkot CETP	
		Min.	52	2	70	11	88
	BOD	Max.	1200	2650	490	1550	865
	(mg/l)	Mean	660	475	138	135	335
Inlet		SD.	341	321	68	92	151
met		Min.	504	44	132	32	264
	COD	Max.	3520	8240	1488	620	2592
	(mg/l)	Mean	2067	1416	392	378	967
		SD.	1370	941	202	275	431
		Min.	17	13	11	32	38
	BOD	Max.	80	775	130	450	320
	(mg/l)	Mean	54	111	32	159	95
Ovelot		SD.	30	71	26	68	65
Outlet		Min.	56	36	40	100	116
	COD	Max.	272	2192	328	1360	952
	(mg/l)	Mean	163	250	101	465	282
		SD.	88	229	80	187	189

From Table 16 it is evident that the CETP at Kurkumbh Environment Protection Co-op. Society is performing very well at about 92% efficiency. The CETP at Hydro Air Tectonics (PCD) had the lowest performance with about 38% efficiency. The remaining CETPs were performing at about 71% efficiency in BOD and COD reduction. The discharge limit for BOD were being met at all CETPs and the limit for COD was being attained at all CETPs except Akkalkot CETP.

1.9 Waste Management

1.9.1 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.

Total generation of MSW from Pune city is about 2100 MT/Day. Out of which 1078 MT/day waste is treated through Composting, Vermicomposting, RDF, Bio-Methanation plants & Waste to Energy.

Pune Municipal Corporation has MSW dumping ground at Urali Devachi where MSW generated in Pune City is dumped partly and over all 48 MSW processing plants at various locations are in operation in PMC area.

1.9.2 Bio-medical waste Management

Total Bio-medical waste generation in Pune is 4948.5 Kg/day. 100% waste is collected, transported and treated at CBMWTSDF-PASCCO located at Sangamwadi, Pune. The CBMWTSDF has installed capacity of Incinerator 150 Kg/Hr and Autoclave 200 litre/cycle

1.9.3 E-Waste management

- Maharashtra Pollution Control Board awarded work order to M/s. IRG Systems South Asia Pvt. Ltd. to carry out inventorisation of E-Waste generation in the State of Maharashtra.
- Interim inventorisation report is submitted to MPCB and final report will be ready within one month.
- As per the Interim inventory report submitted to MPCB, the E-Waste generation for the year 2015 is approx. 6,46,509 MT.
- Number of authorized dismantlers/ recyclers in the state of Maharashtra

Present Sta	Present Status of E-Waste dismantling and recycling capacity					
1	E-Waste Dismantlers	70	77525 MTA			
2	E-waste Recyclers	08				
	Total	78				

• E-Waste Treated (Recycled/Dismantled)

o Year 2015-16: 4041.72 MT

o Year 2016-17:6720.69 MT

o Year 2017-18: 7031.5 MT

• CPCB has approved EPR of 261 producers for Maharashtra. The list of the producers is enclosed here.

• Annual report for the year 2017-18 is submitted.

Action Taken by MPCB

- MPCB is undertaking regular monitoring of EPR Authorization conditions and regular inspection of the collection points/ centers mentioned in EPR Plan.
- MPCB has issued Directions u/s 5 of the Environment (Protection) Act, 1986 read with E-waste (Management) Rules, 2016 to all Municipal Corporations in Maharashtra on 06/12/2018 for provision of collection centers.
- Co-ordination with Various State Government Departments
- Co-ordination with Urban Local Bodies (Municipal Committee /Council /Corporation).
- Awareness through Public Notice

Constraints:

- Channelization E-waste from informal sector to formal sector.
- Awareness about impact of E-waste on Environment and Rules of E-waste is required.
- Authorized collections and Segregation centers are required to be established by Local Bodies.

1.9.4 Hazardous Waste Management

The state of Maharashtra has four Common Hazardous Waste Treatment, Storage and Disposal Facilities. These facilities are located at MIDC Taloja, Trans-Thane Creek Industrial Area, MIDC Ranjangaon, Pune and MIDC Butibori, Nagpur. These facilities collectively handle 340,847 MT of Hazardous waste per annum.

There are 993 Hazardous waste generating industries in Pune district. These industries generated about 61596 MT of Hazardous waste in year 2017-18. The HW from Pune district is scientifically disposed through CHWTSDF - Maharashtra Enviro Power Ltd MIDC, Ranjangaon, Dist. Pune having capacity – Landfill – 60000 TPA, Incinerable – 20000 TPA and Lifespan of the facility is 20 years.

Out of the 61596 MT generations in 2017-18, 32873 MT was Landfillable, 11428 MT was Incinerable, 10670 was Recyclable and 6625 was utilizable.

Table 17 Status of Waste Management in Pune city

Sr.	Particular	Remarks
No		
1	Total MSW Generation	Total generation of MSW – 2100 MT/Day. The composition of waste is as follows. 4. Wet Waste :- 523 MT/day 5. In organic / Mixed Waste :- 600 MT/day 6. Untreated :- 750 MT/day
2	Existing MSW treatment and disposal facilities	MSW Treatment – 1078 MT/day through Composting, Vermicomposting, RDF,25 Bio- Methanation plant, Waste to Energy. Pune Municipal Corporation has MSW dumping ground at Urali Devachi – Fursungi where generated MSW is dumped partly and over all 48 MSW processing plants at various location are in operation in PMC area. PMC has proposed 10 New plants for processing of Mixed Waste. The waste quantity will be treated in these new plant to tone of 1600 MT/day.
3	Bio-medical waste	Hospitals are joined to CBMWTSDF-PASCCO
	Management	Environmental Solution ltd. Total collection and treatment: 4948.5 Kg/day
4	E-Waste management	E-waste generated by industries is sent to MPCB authorized E-waste reprocessor.
5	Hazardous Waste Management	HW generated from industry is disposed through CHWTSDF, Ranjangaon Maharashtra Enviro Power Ltd. MIDC, Ranjangaon, Dist. Pune Capacity — Landfill — 60000 TPA Incinerable — 20000 TPA Lifespan — 20 years

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	World Earth Day	Public awareness messages published in leading newspapers
2017			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	World Environment	The main event was organized at the Yashwantrao Chavan
2017		Day celebration	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	World Environment	On the occasion of World Environment Day (5th June, 2017)
2017		Day	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	World Environment	On the occasion of World Environment Day (5th June, 2017)
2017		Day	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	'Paryavaranachi	An environmental public awareness campaign namely
2017	•	Vaari Pandharichya	'Paryavaranachi Vaari Pandharichya Daari' was organized on
		Daari'	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
			Sili Devenura Faunavis, Ivirs. Amilia Faunavis, Cabillet

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	92.7 Big FM Big	The Big Green Ganesha activity was co-organized by 92.7 Big
2017	Green Ganesha	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	Zee 24 Taas Eco-	The Household Eco-friendly Ganesh Festival Competition was
2017	Friendly Household	organized at the state level as a joint venture by MPCB and
	Ganesh Festival	Zee 24 Taas. This competition has a large number of
	Competition	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	eco-friendly Ganesh festival in housing societies in major
	Festival Competition	cities in the State was organized by MPCB and ABP Maza, a
		news channel. News about eco-friendly Ganesh festival

August 2017	Household Eco- Friendly Ganesh Festival Competition 2017 organized by Loksatta and MPCB.	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 Saxema 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. 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	Financial assistance	To celebrate an environment friendly Ganesh festival, eco-
2017	for DNA Eco Ganesha public awareness campaign organized by DNA and MPCB.	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	Financial assistance	Eco-Green Ganesha competition was organized jointly by
2017	for public awareness activity, Times Green Ganesha.	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. Ecofriendly Ganesh festival workshops were conducted for school

	T	
		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	Eco-Ganesha Public	Eco-friendly public Ganesh festival was organized at Mumbai,
2017	awareness campaign	Pune and Aurangabad with assistance from the newspaper,
	organized by Dainik	Dainik Samna. The prize distribution event was conducted in
	Samna and MPCB.	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	Public awareness F	Public awareness message of 'Celebrate a pollution-free
2017	messages about eco- I	Diwali' by Hon'ble Chief Minister, Hon'ble Minister for
	friendly Ganesh H	Environment and Hon'ble State Minister for Environment were
	festival displayed on d	displayed on bus stops in Mumbai city for a period of 15 days.
	Times OOH BEST	
	bus stop shelters.	
August	Eco-friendly Dahi E	Eco Friendly Dahi Handi Festival 2017 was organized in

2017 Handi 2017.

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	Public Awareness	A public awareness message saying 'Celebrate a pollution-free
2017	message for Diwali	Diwali' by celebrities from the film industry was broadcast by
	on television.	the television channels Zee 24 Taas, ABP Maza, IBN Lokmat,
		Star Pravah, Mi Marathi, TV9 Maharashtra, Saam TV, Jay
		Maharashtra and Maharashtra One.
October	Public Awareness	A public awareness message saying 'Celebrate a pollution-free
2017	message for Diwali	Diwali' was broadcast on leading FM Radio channels in the
	on FM radio.	State.
October	Diwali Bus Stop	A public awareness message saying 'Celebrate a pollution-free
2017	messages in Mumbai,	Diwali' by Hon'ble Chief Minister of Maharashtra, Hon'ble
	Pune and Nagpur.	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	Pollution-free Diwali	Pollution-free Diwali Resolution Campaign Pledge 2017 was
2017	Resolution Campaign	organized at Mantralaya to promote celebration of a pollution-
	Pledge 2017.	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.
March 2018	Eco-Friendly Holi.	Anhalagan attended this event Students from various colleges 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 2.82 Crore 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 50Crore Α in their massive trees plantation drive. 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

Table 18 Short term action plan for Mula River

Sr.	Activity	Responsibility	Time Frame
No.			
1	Organize awareness programs about	Pune Municipal	One Month
	environment pollution	Corporation	
2	To prepare quantum of Solid Waste and	Pune Municipal	6 Months
	Sewage generated and Provision of	Corporation	
	MSW treatment facility		
3	Operate existing STP round the clock in	Pune Municipal	Immediately
	scientific manner	Corporation	
4	Organize awareness programs about	Agriculture	Immediately
	promotion of organic farming on the	Department, Pune	
	River bank of villages. Restriction of		
	chemical Pesticide, insecticide, fertilizer		
	etc.		
5	Common toilets should be constructed in	Pune Municipal	6 months
	all areas to be covered. Stop open	Corporation	
	deification and awareness program		
	should be conducted in these areas		
6	Vehicle, cloths, animal wash should be	Pune Municipal	6 months
	stopped on the bank of river and	Corporation	
	awareness program should be conducted		
	in river bank areas		
7	Environment expert should be appointed	Pune Municipal	Immediately
	by the every concern municipal council	Corporation	
	and ZP to monitor the environmental		
	aspects in the area. (Referred by MPCB)		
8	Installation of In-Situ Nallah Cleanup	Pune Municipal	3 Months
	system so as to stop sewage entering to	Corporation	
	the River Mula		

Table 19 Long term action plan for Mula River

Sr.No.	Activity	Responsibility	Time
			Frame
1	Compulsory application of	Pune Municipal Corporation	1 Year
	water meter.		
2	Maintaining continuous flow	Pune Municipal Corporation,	1 Year

	in the river	Irrigation Department	
3	For the treatment of 100% waste water prepare a plan, construct & operate STP in	Pune Municipal Corporation	2 Years
	scientific manner		4.77
4	Up-gradation of existing STPs to meet 10mg/lit BOD Outlet standard	Pune 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 to Local Bodies located at bank of the river	Urban Development Department, Municipal Administration, Rural Development Department	1 Year for planning & 3 years for implementa tion
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 implementa tion
10	Prevention of Agricultural run-off to the river	Agriculture Department	1 Year for planning & 3 years for implementa tion
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 24th November 2015 & directions of CPCB.

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

- ➤ The Pune Municipal Corporation has sanctioned fund of Rs. 990.26Cr; out of which Central Government has component of 841.72Cr. & Pune Municipal Corporation has component 148.54Cr for management of sewerage systems & STPs; which 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 i.e. 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. Water Resource Department shall release water in the river as per availability in the Dam/Reservoir.

Recommendations:

- 1. Entry of raw sewage in to the river should be prohibited.
- 2. Installation of In-Situ Nallah Cleanup system so as to stop sewage entering to the River Mula.
- 3. Garbage thrown in the form of flowers, garlands, plastic etc. should be stopped.
- 4. Awareness programs should be carried out.
- 5. Disinfection system should be provided in existed treatment plants.
- 6. Evaluation of treatment processes should be taken care of and reuse of treated must be practiced.
- 7. Regular Monitoring should be carried out on sewage treatment plant installed along the cities.

8. Installation of online monitoring system for water quality.

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)							
1. Botanical Garden, Pune							
2. Baner, Pune							
3. Warje, Pune							
4. Vadgaon, Pune							
5. Tanaji Wadi, Pune							
6. Naydu, Pune							
7. Dhanori, Pune							
8. Bhairoba, Pune							
9. Mundhva, Pune							
10. Kharadi, Pune							
11. Matsyabij Kendra, Pune							
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



					Table sh	owing Districtwi	se Targer v/s Ach	nievement for 2	-crore plantati	on program							
S.No.	Revenue Division	District			Forest Departm	nent	Non - forest Department							Achievement in %			
			Plantation	Plantation	Plantation	Plantation	Total	Plantation	Plantation	Plantation	Plantation	Plantation	Plantation	Plantation	Plantation		
			Target	Achievement	Achievement	Achievement	Plantation	Target	Achievement	Achievement	Achievement	Achievement	Achievement	Achievement	Achievement		
			_	(online)	(offline)	(Total)	Achievement		(online)	(offline)	(Total)	(%)			(%)		
				, ,	l' '	,	(%)			,		,			[
Α	В	С	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	<u> </u>	368877	0	368877			1695477			
		on Subtotal	1645000	1859835	500	1860335	113.09	_	923706	0	923706			2784041			
6	Aurangabad	Aurangabad	483000	491500	0	491500	101.76	4	73918	0	73918			565418			
7	Aurangabad	Beed	603000	613137	0	613137	101.68	4	71871	0	71871			685008	1		
8	Aurangabad	Hingoli	345000	348400	0	348400	100.99	4	124846	0	124846			473246	+		
9	Aurangabad	Jalna	157000	165000	0	165000	105.10	4	126963	0	126963			291963	1		
10	Aurangabad	Latur	368000	374750	0	374750	101.83	_	28670	0	28670			403420	1		
11		Nanded	488000	510000	0	510000	104.51		82043	46062	128105			638105			
12	·	Osmanabad	363000	373000	0	373000	102.75	_	13427	0	13427			386427	1		
13	Aurangabad	Parbhani	153000	161500	0	161500	105.56	_	122980	0	122980			284480	1		
		on Subtotal	2960000	3037287	0	3037287	102.61	_	644718	46062	690780			3728067			
14	Konkan	Mumbai City	0	0	0	0	0	_	8020	0	8020			8020	1		
15	Konkan	Mumbai suburban	0	5000	0	5000	0	4	4823	0	4823			9823			
16 17	Konkan Konkan	Palghar Raighad	116000 88000	531409 234109	2105 27835	533514 261944	459.93 297.66	Cumulative	279345 36780	0	279345 36780			812859 298724			
18	Konkan		11000	26847	18425	45272	411.56	target for non	16763	142940	159703			204975			
19	Konkan	Ratnagiri Sindhudurg	23000	27500	0	27500	119.57	-forest	117898	0	117898			145398			
20		Thane	148000	656650	0	656650	443.68	departments	287011	0	287011			943661			
20		on Subtotal	386000	1481515	48365	1529880	396.34	for all	750640	142940	893580			2423460			
21	Nagpur	Bhandara	424000	684890	0	684890	161.53	districts put	109050	0	109050			793940	1		
22	Nagpur	Chandrapur	1145000	1556787	467580	2024367	176.80	together was	446205	111007	557212			2581579			
23	Nagpur	Gadchiroli	420000	598636	0	598636	142.53	50 lakh	105995	13410	119405			718041			
24	Nagpur	Gondia	552000	828266	0	828266	150.05	1	2915	0	2915			831181			
25	Nagpur	Nagpur	686000	1002805	0	1002805	146.18	1	303441	8433	311874			1314679			
26		Wardha	270000	525002	0	525002	194.45		28681	0	28681			553683			
		on Subtotal	3497000	5196386	467580	5663966	161.97		996287	132850	1129137			6793103			
27		Ahmednagar	1054000	1591379	0	1591379	150.98	1	362789	17725	380514			1971893			
28	Nashik	Dhule	305000	515500	0	515500	169.02	1	178854	9531	188385			703885	1		
29	Nashik	Jalgaon	950000	1085050	0	1085050	114.22	1	85113	16400	101513			1186563			
30	Nashik	Nandurbar	869000	1033000	0	1033000	118.87	1	70199	8820	79019			1112019			
31	Nashik	Nashik	1402000	2492433	17415	2509848	179.02	1	17910	69744	87654			2597502			
	Divisi	on Subtotal	4580000	6717362	17415	6734777	147.05		714865	122220	837085			7571862			
32	Pune	Kolhapur	210000	405304	0	405304	193.00	1	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			
	Divisi	on Subtotal	2132000	2869114	334138	3203252	150.25		421120	1213729	1634849			4838101			
	Gra	and Total	15200000	21161499	867998	22029497	144.93		4451336	1657801	6109137			28138634			

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

Sr. No. District	Online - District Wise Forest & Non-Forest Details as on 9 th July 2017 FOREST Non Forest Agnecies																		
Ji. No.	Total Target as	No. Of Site	Site Area		No. Of Pits Dug (As	No of Seedlings	Plantation %	Plantation %	Total Target as pe	No of participants	No. Of Site	Site Area (in	No Seedlings		No of	Plantation %	Plantation %	No of	Grand Total
	per distributed by		(in Ha.)	Seedlings to	per Data Filled up	planted	Achivement	Achivement	distributed by		Registered	Ha.)	to be	Dug(As per	Seedlings	Achivement		participants	of Forest and
	CCF(T) for Forest			be planted (As	· ·		Against Target of	Against no of	District Collector				planted(As	Data Filled	planted	Against	Against no of		Non Forest
	Departments			l •	Department till Date)		Forest Departmen	t Pits dug of Forest	for Non Forest Departments				per Data Filled up by	up by all Agencies till		Target of Forest	Pits dug of Forest		No of Seedlings planted
				department till	I			Department	Departments				all Agencies	Date)		Department	Department		planteu
				Date)									till Date)	,					
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

Table - 4 (Districtwise : Online data including no of sites of Forest and Non Forest Department) 13-Crore Plantation Drive (1st-31st July 2018)

		Distric	twise Final Detail Re	eport 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 III

शा.नि. क्र:- साववि-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								
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 Gol	1250	1250	1250	1250	1250	1250	1250	1250	10000
43	National Highways under Gol	4500	4500	4500	4500	4500	4500	4500	4500	36000
44	Defence under Gol	300	300	300	300	300	300	300	300	2400
45	Gol 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						
1	Agriculture Department	150850	886700	718800	701850	71750	174000	2703950
2	Urban Development Department **	23750	94000	21500	508400	5750	16150	669550
	(Except Municipal Corporations)	23730	94000	21300	308400	3730	10130	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 Gol	1250	1250	1250	1250	1250	1250	7500
43	National Highways under Gol	500	500	500	500	500	500	3000
44	Defence under Gol	8450	10000	14050	18100	10000	25100	85700
45	Gol 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 **	C4100	00500	24050	100550	120050	425050
2	(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 Gol	1250	1250	1250	1250	1250	6250
43	National Highways under Gol	4500	4500	4500	4500	4500	22500
44	Defence under Gol	500	500	500	500	500	2500
45	Gol offices In State	500	500	500	500	500	2500
46	Textiles & Sericulture Deparment	100000	100000	100000	525550	100000	925550
40	TOTAL	4236900	2896500	2283500	525550 5864850	3998150	925550 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					
1	Agriculture Department	684800	672100	235750	162150	292650	2047450
2	Urban Development Department **	171300	188750	144300	132500	5600	642450
2	(Except Municipal Corporations)	1/1300	188750	144300	132500	5000	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
	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 8700	4350 8700	1450 8700	1300 8700	1450 8700	11450 43500
36	Minority welfare department	2900				8700 500	7250
37	Finance - GST Department		2850 2850	500 500	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 Gol	1250	1250	1250	1250	1250	6250
43	National Highways under Gol	500	500	500	500	500	2500
44	Defence under Gol	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							
1	Agriculture Department	738350	573500	366700	348400	238950	0	0	2265900
2	Urban Development Department **	47000	11250	295800	59650	220200	0	0	633900
2	(Except Municipal Corporations)	47000	11250	295800	59650	220200	U	U	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
20	Rural Development Department	40.400	400200	42400	764000	05000	0	_	4442200
39	(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 Gol	1250	1250	1250	1250	1250	1250	1250	8750
43	National Highways under Gol	500	500	500	4200	56200	0	0	61900
44	Defence under Gol	500	500	500	500	500	0	0	2500
45	Gol 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					
1	Agriculture Department	927650	209700	496850	784800	343750	2762750
2	Urban Development Department **	342600	31550	20350	298300	108500	801300
2	(Except Municipal Corporations)	342000	31330	20550	296300	108300	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	410100	700900	66000	56700	51900	1285600
39	(Excluding Grampanchayat)		700900			31900	
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 Gol	1250	1250	1250	1250	1250	6250
43	National Highways under Gol	500	4450	500	500	500	6450
44	Defence under Gol	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)

	(Provision)	(Expenditure)	2016-17 (Provision)	2016-17 (Expenditure)	Year 2017-18 (Provision)	2017-18 (Expenditure)
Ulhasnagar Municipal	174.31					
corporation		31.5	164	40.94	39.6	26.76
Nagpur Municipal corporation	267.47	146.98	248.42	185.57	220.22	12.1
Thane Municipal Corporation	175.69	114.32	226.75	111.99	290.3	59.35
Mira Bhainder Municipal corporation	156.75	271.78	125.1	173.44	206.33	138.53
Vasi Virar Municipal Corporation	141.45	110	163.21	113.17	128.98	12.86
Parbhni Municipal Corporation	NIL	NIL	23.75	4.76	5	0.87
Pune Municipal Corporation	5600	387	1437	323	498.59	291.79
Amravati Municupal corporation	15	Not utilized	15	Not utilized	10	0.5
Akola Municipal Corpartion	from corporation fund	5.48 (Funds utilized from 13th finance commission)	2	Funds utilized from 14th finance	Not Reserved	26.16 Lakh funds utilized from 14th finance commission
	corporation Nagpur Municipal corporation Thane Municipal Corporation Mira Bhainder Municipal corporation Vasi Virar Municipal Corporation Parbhni Municipal Corporation Pune Municipal Corporation Amravati Municupal corporation Akola Municipal	corporation Nagpur Municipal corporation Thane Municipal Corporation Mira Bhainder Municipal corporation Vasi Virar Municipal Corporation Parbhni Municipal Corporation Pune Municipal Corporation Amravati Municupal corporation Akola Municipal Corporation	corporation31.5Nagpur Municipal corporation267.47Thane Municipal Corporation175.69Mira Bhainder Municipal corporation156.75Vasi Virar Municipal Corporation141.45Parbhni Municipal CorporationNILPune Municipal CorporationNILPune Municipal Corporation5600Amravati Municupal corporation15Akola Municipal CorporationNot utilizedAkola Municipal Corporation3From corporation fund5.48Funds utilized from 13th finance	corporation 31.5 164 Nagpur Municipal corporation 267.47 146.98 248.42 Thane Municipal Corporation 175.69 114.32 226.75 Mira Bhainder Municipal Corporation 156.75 271.78 125.1 Vasi Virar Municipal Corporation 110 163.21 Parbhni Municipal Corporation NIL NIL 23.75 Pune Municipal Corporation 5600 387 1437 Amravati Municupal corporation 15 Not utilized 15 Akola Municipal Corporation fund 3 5.48 2 Corpartion from corporation fund (Funds utilized from 13th finance	corporation 31.5 164 40.94 Nagpur Municipal corporation 267.47 248.42 185.57 Thane Municipal Corporation 175.69 226.75 111.99 Mira Bhainder Municipal Corporation 156.75 271.78 125.1 173.44 Vasi Virar Municipal Corporation 110 163.21 113.17 Parbhni Municipal Corporation NIL NIL 23.75 4.76 Pune Municipal Corporation 387 1437 323 Amravati Municupal corporation 15 Not utilized 15 Not utilized Akola Municipal Corporation fund 3 (Funds utilized from 13th finance commission) Funds utilized	corporation 31.5 164 40.94 39.6 Nagpur Municipal corporation 267.47 146.98 248.42 185.57 220.22 Thane Municipal Corporation 175.69 226.75 111.99 290.3 Mira Bhainder Municipal Corporation 156.75 271.78 125.1 173.44 206.33 Vasi Virar Municipal Corporation 110 163.21 113.17 128.98 Parbhni Municipal Corporation NIL NIL 23.75 4.76 5 Pune Municipal Corporation 387 1437 323 498.59 Amravati Municupal corporation 15 Not utilized 15 Not utilized 10 Akola Municipal Corporation 3 (Funds utilized from 13th finance commission) 13th finance commission) Funds utilized from 14th finance Not Reserved

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

	Nashik Municipal	174.75					
25	Corporation		31	136.43	136	150.66	137.53
	Malegaoan Municipal	37.37					
26	Corporation		17.37	31.02	22.52	48.18	53.45
	Mumbai Municipal	2970.09					
27	Corporation		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.	Name of Region	No. of ULBs
No.		
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"	"B" Class	"C"	NP/Cant./
		Class		Class	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	Navi Mumbai, Panvel, Khalapur,	1972	Incinerator	250 Kg/Hr		
	Raigad	Mahad, Shriwardhan,		Autoclave	600 litr/cycle		
		Mangaon, Poladpur, Tala and		Deep Burial	NA		
		Mhasala, Alibag, Roha, Pali, Mirudjangira, Sudhagad, Karjat		Any Other	NA		
		Uran	45	Incinerator	NA NA		
		Ordin	43	Autoclave	50 litr/Cycle		
				Deep Burial	22 kg/day		
				Any Other	NA 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		
7	Kaiyaii	Kaiyaii	100	Autoclave	Treated at WWW.L, raioja		
				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 NA		
		Va :l	145	Any Other	NA		
		Karad	145	Incinerator	30 kg/hr		
				Autoclave	50 litr/cycle		
				Deep/Burial Any Other	NA NA		

	ı			T	1,55,4,6,
		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
		Jaigaon	037	Autoclave	430 litr/cycle
				Deep Burial	NA
					NA
		Dhula	405	Any Other	
		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	
		5 5 5 5 5		Autoclave	50 litr/cycle
				Deep Burial	244 kg/day
				Any Other	NA
		Kolhapur	1500	Incinerator	50 kg/hr
		Komapai	1300	Autoclave	50 litr/cycle
				Deep Burial	NA NA
					NA
		Data a sivi & Chinlun	566	Any Other	
		Ratnagiri & Chiplun	300	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
		S		Autoclave	400 litr/cycle
				Deep Burial	NA
				Any Other	NA
		Latur	523	Incinerator	100 kg/hr
		Latui]	Autoclave	50 litr/cycle
					NA NA
				Deep Burial	
I	l l			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

4.2		1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	207	I	4501/ /11
13	Pune	Krishna Hospital & Medical	287	Incinerator	150 Kg/Hr
		Research Center, Karad &			
		KIMSDU. A/P: Dhebewadi road,		Autoclave	30 litr/cycle
		Malakapur, Tal.: Karad, Dist.:		Deep Burial	NA
		Satara (02164)214555-58 Fax:		Any Other	NA
		(02164)242127			
14	Nashik	M/s. Shri Bhausheb Hire Govt.	133	Incinerator	50 Kg/Hr
		Medical College,		Autoclave	30 litr/cycle
		Surat By Pass Road, Tal. & Dist.		Deep Burial	NA
		Dhule		Any Other	NA
		M/s. Jawahar Medical	164	Incinerator	45 Kg/Hr
		Foundation ACPM Medical		Autoclave	25 litr/cycle
		College, Dhule		Deep Burial	NA
				Any Other	NA
15	Kolhapur	Bharati Vidyapeeth Deemed	39	Incinerator	60 Kg/Hr
		University Medical College and		Autoclave	30 litr/cycle
		Hospital, Sangli – Maharashtra		Deep Burial	NA
				Any Other	NA
		PHC's from Kolhapur District	48		
16	Aurangabad	M/s. MIMSR Medical college	96	Incinerator	50 Kg/Hr
		and Research Centre,		Autoclave	12 litr/cycle
		Ambajogai Road, Latur		Deep Burial	NA
		Airibajogai Noau, Latui		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		
				4	