REPORT ON

ENVIRONMENTAL STATUS OF RAIGAD REGION



MAHARASHTRA POLLUTION CONTROL BOARD

Kalpataru Point, 3rd floor, Opp. Sion Circle, Sion (East), Mumbai-400 022.

Website: http://mpcb.mah.nic.in (2004-2005)

-: Prepared by: -

Regional Office, M.P.C. B., Raigad Raigad Bhavan, 6th Floor Sec-11, C.B.D. Belapur Navi Mumbai 400 614.

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1. Introduction:

The district Raigad is a part of West coast of Arabian sea. It has approximately 240 km coast in the West. The district is rich in natural resources.

The district is geographically subdivided into three parts as 1) Sea Coast, 2) Central Belt, 3) Hilly areas of Sahyadri range, but the principle industrial development has taken place in the vicinity of rivers only.

The industrial development of Raigad district has really catalyzed when in 1970 the industrial establishment had been banned in Mumbai Metropolitan. The MIDC has developed the full-facilitated industrial estates at Patalganga, Roha and Mahad. Mainly chemical industries established in these industrial estates.

The Raigad District is having various prominent industrial areas which includes MIDC areas & Co-operative Industrial Estates and scattered industrial development. The industrialization in this District warranted protection of environment in general.

There are three major industrial Estates developed by MIDC namely MIDC Patalganga, MIDC Dhatav-Roha & MIDC Mahad, located in catchments of Patalganga River Basin, Kundlika River Basin & Savitri River basin respectively in their A-II class & Balganga, Amba covered under A-I catchment as per RRZ notification.

2. Water Environment

The four rivers namely Patalganga, Kundlika, Amba and Savitri are of great importance for water supply to the industries as well as for drinking purposes.

The River Patalganga:-

The river Patalganga originates from the hilly range of Sahyadri near Khopoli and flows to the west side through Khopoli city, Khalapur Taluka and ultimately joins to Dharamtar creek near Kharpada village. Many industries had been established in the vicinity of the said river. The river became not only main source of water supply to these industries but also for the drinking water supply to nearby villages.

A) Reasons of probable pollution of River:

The reasons of probable pollution of river are summarized as below.

- 1) The domestic waste water of Khopoli city is a main and substantial source of pollution.
- 2) The accidental discharges of effluents directly or indirectly from the industries
- 3) The use of, explosives or other poisonous chemicals for fishing at many places.
- 4) Unauthentic disposal of solid waste at the bank of river & vicinity which may find way into the river in rainy season.
- 5) The washing of chemical takers in the river at many places may cause pollution of river water.

B) Remedies and proposed Action Plan/Action Taken

Sr. No.	Point of Action	Implementing Agency
1)	To provide the sewage treatment &	Maharashtra Jeevan Pradhikar
	disposal scheme of Khopoli City	& Municipal Council, Khopoli
2)	To treat the effluents from industries	MIDC & Industries.
	of stretch from Khalapur-Patalganga	The CETP is now being
	MIDC in common ETP & disposal of	commissioned from Feb. 2005
	the treated effluent in deep sea by	and being operated by PRIA
	closed pipe line	CETP. The performance is
		generally satisfactory.
3)	To provide Common effluent	
	treatment plant (CETP) in Patalganga	do
	MIDC	
4)	The disposal point at Kharpada for	MIDC & Industries

	treated effluent from Patalganga	
	MIDC & HOC, Hindustan Insecticide	
	Ltd. Of Rasayani shall be shifted in	
	deep sea in consultation with NIO.	
5)	The provision of common treatment &	J.V.C., Association and
	Scientific disposal facility Centre for	MIDC. Presently almost all the
	industrial Hazardous Waste	industries have become member
		of CHWTSDF.
6)	The efforts for enhancement of fish	Fisheries Department.
	growth in river	

The River Kundlika:-

The river Kundlika originates from the mountain range of Sahyadri flow from city, Roha and ultimately merges in the creek. The MIDC has established a industrial estate at Dhatav on the bank of this river. The river Kundlika is a prime source of water for these industries and also for the nearby villages & Roha city. However, the intake of water supply is at the upstream of the industrial estate.

A) The Probable reasons of Pollution of River:

The probable reasons for the pollution of river are summarized as below.

- The domestic waste from Roha city is directly discharged into the river without any treatment and becomes a regular & substantial source of pollution.
- 2) Accidental discharges of effluents directly or indirectly into the river through Ganga Nalla & other nallas, from industrial area.
- 3) Unauthorized disposal of Hazardous waste on the bank & vicinity of river which may find its way into the river in rainy season.
- 4) The washing of chemical tankers into the river at many places.

B) Remedies and proposed Action Plan/Action Taken:-

Sr. No.	Point of Action	Implementing Agency
1)	To provide the sewage	Municiple Council Roha
	treatment scheme for Roha	
	City	
2)	To install common effluent	J.V.C. Association of industries. The
	treatment plant at MIDC	CETP work is completed & it is under
	Dhatao.	stabilization.
3)	Shifting a present effluent	MIDC. MIDC should complete the
	disposal point in consultation	balance work of pipeline between
	with NIO	Arekhurd & Mahadeokhar.
4)	To Provide a common facility	MIDC. Presently almost all the industries
	center for scientific treatment	have become member of CHWTSDF.
	and disposal of hazardous	
	solid waste from industries.	

The River Savitri:-

The River Savitri originates from the mountains at Mahabaleshwar and flows towards Poladpur and meets to creek after Mahad town. Onward the said creek known as Bankot creek. The water is supplied from this river to Navenagar of Mahad., the industrial estate and to some nearby villages.

A) The probable Reasons of River Pollution:

The probable reasons for river pollution are summarized as below:

- 1) The discharge of Domestic waste from Mahad is the regular and substantial source of river pollution.
- 2) Accidental discharges from industries into temphar nalla which meets to river.
- 3) Unauthorized disposal of Hazardous waste on the bank of river & vicinity which may find its way into the river in rainy seasons.
- 4) Washing of chemical tankers in the river at many places.

B) Remedies and proposed Action Plan/Action Taken

Sr. No.	Point of Action	Implementing Agency	
1)	To complete the sewage treatment	Municipal Council, Mahad	
	scheme for Mahad		
2)	To install common effluent	JVC, Association of industries. The	
	treatment plant for MIDC, Mahad	CETP is completed in all respect & is	
		under stabilization.	
3)	To shift the point of effluent	The pipeline is now extended upto	
	disposal suitably in consultation	Ambet however frequently breakages	
	with NIO.	cause discharge near village	
		Muthawale.	
4)	To provide common facility for	MIDC, Mahad. Many industries have	
	scientific treatment and disposal	become member of CHWTSDF.	
	for hazardous solid waste		
5)	Change the old effluent disposal	MIDC, Mahad has taken the work in	
	line by new one	hand regatding effluent collection line	
		within MIDC.	
6)	To shift location of water supply	MIDC, Mahad. Proposal to construct	
	intake from downstream of MIDC	additional weir on Savitri is under	
	to upstream of it (important)	consideration before confluence with	
		river Kalu	

The River Amba:-

The river Amba originates from the mountains range of Sahyandri, flows through Sudhagad Taluka and ultimately meets to Dharamtar creek at Nagothane. Though any industrial estate is not established, some scattered industries are established on the bank of this river. The river is a source of water supply for these industries, R.C.F. and Alibag city.

Water quality of rivers in Raigad region at different points is enclosed as **Annexure I**

3. Industrial Statistics:

There are about 915 Nos. of industries in Raigad Region. out of which 336 Nos. falls under RED Category, 202 orange category & remaining falls under green category. The majority of polluting industries are located in declared industrial Estates of MIDC. Hence the M.P.C. Board has given priority for these areas for prevention & control of pollution. All the individual industries have been compelled to provide treatment facility & further disposal thereof on land for gardening/irrigation purpose except the industries located in MIDC areas wherein the facility of collection of effluent from the individual industries upto to CETP & further disposal after treatment in CETP upto saline zone. There are three CETPs at Roha, Patalganga & Mahad MIDC. The CETPs at Mahad, Patalganga & Roha has already been commissioned in the year 2003 & 2004 respectively. The CETP at Patalganga has the capacity of 15 MLD, costing 7 crores, CETP at Roha 12 MLD capacity costing 12 crores & CETP at Mahad 7.5 MLD costing 7.5 Crores.

Industries located in Arabian coastal region such as Alibag, Murud-Janjira Area are discharging treated effluent into the Arabian sea at the point recommended by NIO.

The industries located in R.O. Raigad generates effluent quantity to the tune of 104 MLD & 70 to 80 % of this effluent is discharged after treatment into the saline zone of creek/sea & remaining else is discharged on land for gardening/tree plantation etc. besides recycle/reuse of some industries partly.

4. Procedure to initiate legal action against industries.

The Board has granted consent to industries subject to certain terms and conditions therein. The officers are visiting industries to check the compliance of the consent conditions and observe that whether the industries have provided pollution control system or they are operating the

same to achieve the standards as prescribed in the consent order. The Board initiated the legal action against the industries who have not provided pollution control system and those who are not operating the same, if provided. The officers of the Board are collecting samples of industrial effluents under Section 21 of the Water (P & CP) Act, 1974 and the sample of pollutant emitted from process stack under Section 26 of the Air (P & CP) Act, 1981. The said samples are sent to Board Analyst / Govt Analyst for analysis purpose. After the receipt of the analysis report the prosecution proposal is submitted to our Head Office for sanction The Regional Officers and Sub-Regional through our Law Officer. Officers are authorized to file the complaint against the industries in the Court of law after due sanction from the Board. It is experienced that the complaints filed in the court are pending for a long period and therefore the Board has decided to initiate action against the industries under Section 33A of Water (P & CP) Act, 1974 and Section 31A of the Air (P & CP) Act, 1981 & H.W. (Management & Handling) Rules, 1989 amended time to time. Procedure followed to initiate action under section 33A & 31A is as under:

- 1. The proposed directions are issued to the industries which includes even the closure of unit.
- 2. After receipt of reply the proposed direction, hearing is given to the factory representatives.
- 3. Proposal of the Effluent Treatment Plant (ETP) or up-gradation of the same along with time bound programme, undertaking and bank guarantee is taken from the industries, if they proposed.
- 4. If the industry is observed actually polluting and create alarming situation the Board direct the industry to stop the production.
- 5. If the industry fails to upgrade pollution control system as per the undertaking given by them the Board revokes the bank guarantee.

During the reporting year 2004-05, Bank Guarantee from 25 establishments have been collected which includes Bank Guarantee of Rs. 25 Lakhs from MMA CETP Company.

5) WATER ENVIRONMENT IN LOCAL BODIES:-

There are 10 local bodies in the jurisdiction of R.O. Raigad. The Panvel Municipal Council falls under A-Class Municipal councils. Whereas all other 9 falls under B & C class municipal council. The domestic sewage generated from all the municipal councils to the tune of <u>42.5 MLD</u> and out of this about <u>39 MLD</u> of effluent is discharged into various rivers directly/indirectly without any treatment & remaining else is discharged into creek.

The Board has prosecuted, Khopoli Mun. Council under the provisions of Water (P. & C.P.) Act, 1974, the same is subjudice in the court of law at Khalapur.

The Board is continuously pursuing the matter with municipal authorities at higher level, though the directions have been issued by the Board, the progress in the matter is not so encouraging. Information regarding local bodies, is enclosed as **Annexure-II**

6. Air Quality Monitoring:-

Raigad region accommodates highly polluted areas like Panvel, Khopoli & also major industrial areas like Patalganga, Roha & Mahad. The problem of major Air Pollution arises due to heavy traffic density near Panvel & Kamothe area. There is typical problem of non-availability of buffer zone between the residential zone and the industrial zone., resulting in problems of air pollution & nuisance.

Ambient Air Quality:-

Board monitors the Air quality at MIDC Patalganga, Mahad & Roha. Data is presented in the Table below.

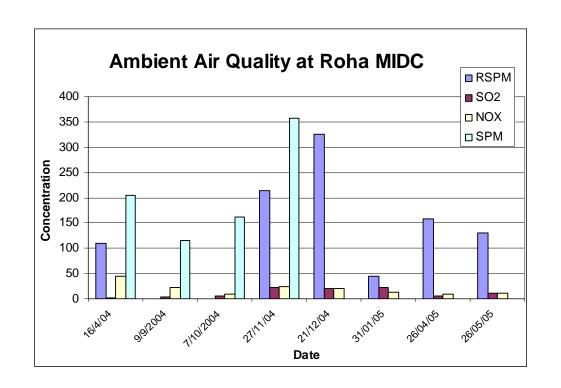
In MIDC Patalganga, Mahad & Roha, No. of Industries have installed dust collector, scrubbing systems, cyclones. However, sometimes due to poor O/M problems may occurs, at that time, Board has taken action against defaulting units & directed them to take preventive measures. Some industries have given training to Boiler operators & utility related workers which has resulted in better operation of Air pollution equipments

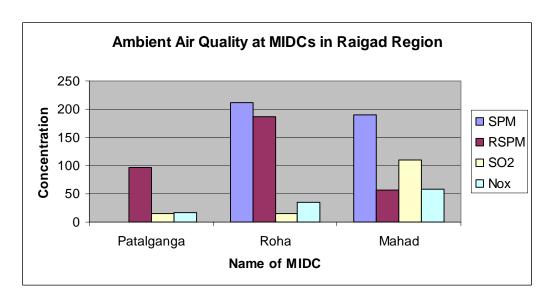
Ambient Air Quality at MIDC Roha.

Sr.	Date	SPM	RSPM	SO2	NOX	NH3
No.						
1	16/4/04	204	110	2	45	
2	09/09/04	115		4	22	
3	07/10/04	161		5	10	
4	27/11/04	357	214	22	24	105
5	21/12/04		326	20	20	
6	31/01/05		44	21.5	12.5	
7	26/04/05		158	5	9	
8	26/05/05		130	11.5	10.5	

Ambient Air Quality at MIDC in the Raigad District.

Name of the	SPM	RSPM	SO2	NOX
MIDC				
Patalganga		96	15	16
ROHA	211.7	186	15.8	35
MAHAD	190.6	56.6	109.7	58.96





The Mobile Van of Raigad region is used extensively for City monitoring. Board has also monitored the noise level during festivals which are tabulated in table

NOISE LEVEL IN RAIGAD REGION (2004-2005):-

City	Location	Class	No of	Moise Levels in dB		
			Observation			
				Minimum	Maxium	Avarage
Panvel	Panvel &	Residential	06	61.0	90.0	75.5
	new Panvel					
Kalamboli	Kalamboli	Residential	04	65	72	67.8
Khopoli	Khopoli,I.E.	Residential	01	55	60	57.5
Pen	Kasar Lake	Commercial	05	59	98	72
Pali	Near Temple	Residential	05	57	101	69
Alibaug	Near Bus	Commercial	05	59	100	77
	Station					
Shivaji	Shivaji	Residential	05	55	60	57.5
Chawk,Mahad	chawk					
Mahad	Near	Commercial	05	60	90	70
	Bagawandas					
	Backery					
Mahad	Bazar Peth	Commercial	05	66	70	88

7. Municipal solid waste:

There are 10 municipal councils namely Panvel, Khopoli, Matheran, Karjat, Pen, Roha, Alibag, Murud-Janiras, Mahad & Shrivardhan Municipal Council & CIDCO in the jurisdiction of R.O. Raigad. The Board has granted authorisation under the MSW (M&H) Rules 2000 to all municipal councils & CIDCO.

The solid waste generated to the tune of <u>75 T/d</u> is dumped on open land presently. However, as per the conditions of MSW (M&H) Rules 2000, this waste has to be segregated and shall be processed & disposed off by way of (i) Composting & land filling, (ii) Waste like metallic paper, plastic etc. shall be disposed by sale to Recycler, (iii) Construction material by way of sanitary landfill & (iv) Non-biodegradable waste by way of secured landfill.

To develop a model plant, Board has taken the specific case of Murud-Janjira Municipal Council for the development of treatment & disposal system of MSW and has already sanctioned an amount of Rs. 75 Lakhs. The work of the same is under process. Status of local bodies as per the MSW Rules 2000 is enclosed as **Annexure-III**

8. BIO-MEDICAL WASTE:-

In the jurisdiction of R.O. Raigad, the hospitals covered under BMW (M&H) Rules, 1998, as amended till date, the category thereof is tabulated as below:-

Sr.	Category	No. of Hospitals	Authorization
No.			issued
1	500 & above	1	1
2	200 - 500	1	1
3	200 - 50	4	3
4	50 & below	212	184

Majority of BMW units falls in Panvel municipal areas, have joined to the

Common facility at Taloja. The BMW units mainly M/s. MGM Kamothe (500

beds), Dhirubhai Ambani Hospital (80 beds), MGM Kalamboli (120 beds)

Mangaon Hospital, have provided individual treatment facilities & they found in

operation.

Status of Bio-medical waste management, is enclosed as **Annexure-IV**

9. HAZARDOUS WASTE STATUS:-

There are about 216 Hazardous waste generating units as identified as

HW(M&H) Rule, 1989 as amended in May 2003 in which 23 units are found

closed, 167 inds. have joined to CHWTSDF, 20 inds. are selling/reusing the

waste, one ind. is having their own treatment & 5 inds. sending waste to other

units for treatment. Thus all units are observed complied. Details of Hazardous

Waste Generation is given below;

Status of Hazardous Waste Generation of Raigad region:-

1) Incinerable

- 22078

2) Landfillable

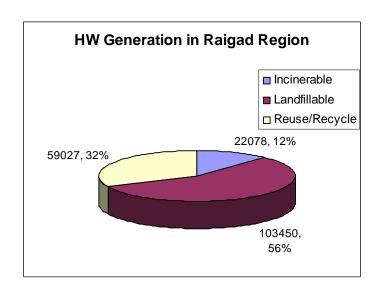
-103450

3) Recyclable/Reuse

- 59027.0

Total Qty. of H.W. Gen. - 184555

15



The industries that have been covered presently under compliance category are considered on the basis of their membership with common facility at CHWTSDF Taloja & TTC and hereafter further follow up is being undertaken to check the manifest system of the individual industries so as to have further compliance by the industries under H.W.(M&H) Rules 2003 & directions of the Hon'ble Supreme Court of India.

10) Hazardous Waste Reprocessing Units:

Raigad region accommodates industries engaged in reprocessing of Hazardous waste such as Waste/Used oil, lead battery scrap, Non ferrous scrap etc. The details of these units are presented in table below:

HW Reprocessing Industries in Raigad Region

Sr. No.	Name of Industry	Raw Material
1	M/s Vishudha Rasayanee (P) Ltd.,	Waste/Used oil
	Vill.Rabgaon, Tal: Sudhagad Pali,	
2	M/s Lube Star Petrochem Ltd, MIDC	Waste/Used oil
	Mahad.	

11) STATUS OF CETP

In Raigad region there are three CETPs in MIDC areas namely PRIA CETP Co.Op. Society; MIDC Patalganga, RIA CETP Co.Op. Society; MIDC Roha, MMA CETP Co.Op.Society; MIDC Mahad. All these CETPs are commissioned in the year 2004-2005. Details are as under.

Status of CETP

Sr. No.	CETP	Capacity (MLD)	Cost (Crs)	Year of Establishment	Compliance Status	Remarks
1	Patalganga (PRIA)	15	7.0	2004-05	Complied	-
2	Roha (RIA)	10	12.0	2004-05	Complied	Plant under stabilization
3	Mahad	7.5	7.5	2004-05	Complied	Plant under stabilization

MIDC has provided infrastructure facilities i.e. collection system of effluent & disposal system up to saline zone of creek/sea.

MPCB regularly monitors performance of CETP. It reveals from the JVS results & observations that CETP at Roha & Mahad seems under stabilization & the results of CETP at Patalganga generally achieve the consented standards.

Board has taken performance bank gurantee of Rs. 25.00 lakhs from MMA CETP., Mahad.

12) ENVIRONMENTAL AWARENESS ACTIVITIES

Environmetal Awareness is one of the important functions of the Board. The Regional office Raigad is actively involved in Environmental Awareness activities.MPCB has organized programs to commemorate World Environment Day at Mahad & Roha. MPCB has identified Environment Awareness in school/colleges as important for educating students & has roped in industries to organize special awareness programme.

- 1) Zilla Parishad School, Deshmukh Kamble.
- 2) Sundarrao college of Arts & Commerce, Poladpur
- 3) M/s. Exon Laboratories Ltd
- 4) M/s. Kopran Ltd.
- 5) MMA CETP Co.Op.Society.
- 6) M/s. Sudarshan Ind. Ltd.
- 7) M/s. Sandoz Ltd.
- 8) M/s. Ispat Industries Ltd, Dolvi, tal:- Pen, Dist:- Alibaug.

ANNEXURE - I River Water Quality of Raigad Region Patalganga River

At Gagangiri Maharaja Temple, Khopoli

Parameters	Min	Max	Avg.
рН	7.2	7.6	7.4
BOD	4	7	5.3
COD	16	28	23.3
SS	13	20	16.5
DO	4.6	7.2	6.13

At Turade Water Works

Parameters	Min Max		Avg.
рН	6.8	7.2	7.1
BOD	3	8	5.5
COD	16	32	24.7
SS	14	20	17
DO	4.8	6.9	5.7

At Vayal Pump House

Parameters	Min	Max	Avg.
рН	6.5	7.2	6.92
BOD	3	8	5.3
COD	12	28	21.3
SS	14	17	15.83
DO	5.1	7.3	5.93

At Shilphata Bridge , Khopoli

Parameters	Min	Max	Avg.
рН	6.9	7.9	7.4
BOD	3	7	4.7
COD	20	24	22
SS	10	20	15.7
DO	5.6	6.5	6.2

At Kharpada Bridge

Parameters	Min	Max	Avg.
рН	6.5	7.5	7.08
BOD	5	21	10.33
COD	32	112	63.33
SS	14	63	26.5
DO	2.6	6.9	5.32

Kundalika River

At Kolad Bridge

Parameters	Min	Max	Avg.
рН	7.4	7.9	7.7
BOD	3	8	5.5
COD	12	32	22.7
SS	12	18	15.3
DO	6.3	7.5	6.85

At Are Khurd

Parameters	Min	Max	Avg.
рН	6.9	7.4	7.1
BOD	6	35	15.5
COD	32	120	70.6
SS	18	64	32.3
DO	2.9	6.6	5.2

Amba River at Wakan Bridge

Parameters	Min Max		Avg.
рН	7.4	7.9	7.65
BOD	3	9	6.16
COD	12	36	26.67
SS	16	20	18.33
DO	5.3	7.4	6.41

Note: Except pH all values are in mg/l

Savitri River

At Shedav Doh

Parameters	Min	Max	Avg.
рН	7.19	8.62	7.93
BOD	1.8	2.6	2.17
COD	12	36	22.28
DO	6.2	7.1	6.8
Total Solids	107	270	160.86

At Dadali Bridge

Parameters	Min	Max	Avg.	
pН	7.25	8.13	7.66	
BOD	2.2	9	3.96	
COD	16	208	71.67	
DO	3.9	6.7	6.06	
Total Solids	125	8940	6794	

Note: Except pH all values are in mg/l

At MIDC Jackwell Nagalwadi

Parameters	Min	Max	Avg.
рН	7.38	8.53	8.06
BOD	1.8	2.8	2.23
COD	12	48	21.7
DO	5.9	7.7	6.94
Total Solids	85.6	214	130

Kalu River at Birwadi Jackwell

Parameters	Min	Max	Avg.
рН	7.42	8.74	7.91
BOD	1.8	4.5	2.58
COD	12	84	30.7
DO	4.5	7.1	6.17
Total Solids	115	342	204

ANNEXURE – II
Information Regarding Local Bodies

1	2	3	5	6	7	8
Name of Local Body	Population	Source of Water	Quantity of Water Consumption	Quantity of Domestic Effluent	Treatment Facility Provided whether Adequate/Inadequate	Mode of Disposal
			MLD	MLD		
Pen	29500	Bhogeshwari River	3.20	2.40	No STP	Through open Gutters
Karjat	30000	Ulhas River	3.25	2.60	No STP	Into near by stream through open gutters
Matheran	60000	Ulhas River through MJP	1.50	1.20	No STP	Soak pits and open gutters & close pipes
Roha	14785	Kundalida River through MIDC	1.60	1.30	No STP	Through open Gutters
Murud-Janjira	12111	Garambhi tank	1.30	1.00	No STP	Through open Gutters
Alibag	16289	Amba River	1.75	1.40	No STP	Through open Gutters
Mahad	18662	Ladiwali Jackwell & Kurla Dam	4.5	3.375	No	Savitri River
Shriwardhan	15187	Ranawali MI Tank	1.03	1.0	No	Into Creek
Panvel	104058	Patalganga River	18.0	15.0	Inadequate	Into Patalganga river
Khopoli	58000	Morbe Dam/ Patalganga River	21.0	11.0	Inadequate	Into Panvel Creek

ANNEXURE-III STATUS OF LOCAL BODIES AS PER MSW (M&H) RULES 2000

Sr. No.	Name of local body	Class	Population	Area in Sq. K.M.	Quantity of MSW in MT/Day	Details of Existing site if any	Details of proposed site	Waste processing technology	Detailed compliance of site selection & development	Detailed compliance of waste processing
1	2	3	4	5	6	7	8	9	10	11
1	Khopoli	В	58,657	30.5	15	Existing site is located in Khopoli town near Shilphata	New site located at Vill-Mill 3 KM away from Khopoli town area @ 3-5 accers	No	Site is selected Presently Khopoli Municipal council has send solid waste at Mill	Not complied
2	Panvel Municipal Council	А	1,04,051	13	18	located at Vill- Karagale, Tal- Panvel	@ 2 accer At Vill-Chawl, near Taloja MIDC	No	At vill Chawl site is identified development work of the site is under progress	Not complied
3	CIDCO		1,50,000		50	Near Khaghar Railway station	At village Chawl near Taloja MIDC	(Proposed Site)	At vill Chawl site is identified development work of the site is under progress	(Proposed)
4	Matheran Municipal Council	С	5,139	6	5	Plot no. 114, Matheran, Tal-Karjat		Vermi composting	Site selected vermi composting pit In operation	Operative
5	Roha Municipal Council	С	14,762		3	DP site no. 51, 54 within Municipal area	S.N 128 A – 4(1), 128 A – 3, Vill- Astami, Tal-Roha Bhuwaneshwari vill site		Site is identified	Not complied

6	Karjat Municipal Council	С	25,544	7.5	8	Vill- Dahindle, Tal-Karjat	S.N 60, Tal-Karjat	_	Site is identified	Not complied
7	Pen Municipal Council	С	30,201	9.82	12	At the bank of Bhogawati River	S.N- 156, H.N 1.05, Ambegan, Tal-Pen	Composting Proposed	Site is identified	Not complied
8	Alibag Municipal Council	С	19,491	1.81	5	Near Raigad Bazar in Alibag town	Vill-Bhadane, Group Grampanchayat Khanav, Tal-Alibag	_	Site is identified	Not complied
9	Murud-Janjira Municipal Council	O	12,551	3.65	2.5	_	S.N 19, H.N 4, & S.N 20,H.N1, At Telwade, Tal- Murud		Site is identified	Not complied
10	Mahad Municipal Council	С	24276	4.07	5	At Kajalpura	Authorisation granted to set up and operate waste processing/waste disposal facility	Not provided		Not provided
11	Shriwardhan Municipal Council	С	14774	4.05	3	On Sr.No.357 near Mohalla	Authorisation granted to set up and operate waste processing/waste disposal facility at Sr.No.267 at Walvati vill. Road	Not provided		Not provided

Annexure- IV

STATUS OF IMPLEMENTATION OF BMW (M&H) RULE 1998

Sr. No	Region	Total No. of HCEs (beded hospital)	Total No. of HCEs applied	Total No. of HCEs granted	Application under process	No. of HCEs member of CTSDF	Show Cause Notices issued/being issued			
							Not applied for authorization	Given authorization, but not joined to CBMWTSDF	Member of CBMWTSDF but not sending waste	
1	Raigad	218	202	189	13	62	16	01		