



MMR-ENVIRONMENT IMPROVEMENT SOCIETY
ANNUAL REPORT
2019-20



Cover Image: Along Rail-Route to Matheran

Cover Image Courtesy: Yuhina Eco-Media

NOTE: All images pertaining to project are provided by the respective project proponents unless otherwise mentioned

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1. BOARD OF GOVERNORS OF THE SOCIETY

A. EX-OFFICIO GOVERNORS

- | | | |
|----|--|-----------|
| 1. | Mr. R.A.Rajeev
Metropolitan Commissioner, MMRDA | President |
| 2. | Principal Secretary to the Govt. of Maharashtra
Urban Development Department-I | Governor |
| 3. | Principal Secretary to the Govt. of Maharashtra
Environment Department | Governor |
| 4. | Representative of Municipal Commissioner,
Thane Municipal Corporation | Governor |
| 5. | Representative of Municipal Commissioner,
Mira-Bhayandar Municipal Corporation | Governor |
| 6. | Dr. Rakesh Kumar
Director, Council of Scientific and Industrial Research, NEERI | Governor |
| 7. | Dr. V.P. Venugopalan (upto 28/02/2020)
Mr. S.T.Mehetre (29/02/2020 onwards)
Scientific Officer, Nuclear Agriculture and Biotechnology Division, BARC | Governor |

B. NOMINEES OF ORGANISATIONS/ASSOCIATIONS

- | | | |
|----|--|----------|
| 8. | Mr. N. Vasudevan (upto 31/12/2019)
Mr. Virendra Tiwari (01/01/2020 onwards)
Additional Principal Chief Conservator of Forests & Head,
Mangrove Cell, Govt. of Maharashtra (from 24/07/2018) | Governor |
| 9. | Mr. A.K.Choubey
Chief Scientist, National Institute of Oceanography (NIO) | Governor |

- | | | |
|-----|--|----------|
| 10. | Dr. Pradnya Prabhu
Principal, K.J. Somaiya College of Science & Commerce, Vidyavihar | Governor |
| 11. | Dr. Deepak Kantawala
Director, Indian Environment Association | Governor |

C. INDIVIDUAL EXPERTS

- | | | |
|-----|--|----------|
| 12. | Shri S.P. Pendharkar
Ex. Chief, Planning Division, MMRDA | Governor |
| 13. | Dr. Ajay Deshpande
Ex. Regional Officer, MPCB | Governor |

D. PRINCIPAL OFFICERS OF THE SOCIETY

- | | | |
|----|--|---------------------------|
| 1. | Ms. Uma Adusumilli
Chief, Planning Division, MMRDA | Director |
| 2. | Shri Madhav Nagargoje
Financial Advisor, MMRDA | Treasurer |
| 3. | Mr. Abhijit Ekbote | Secretary |
| 4. | Ms. Supriya Singh | Environment Planner |
| 5. | Shri. C.S. Shetty | Admin. & Accounts Officer |

2. INTRODUCTION

In order to focus attention on various environmental concerns in the Region, Mumbai Metropolitan Region Development Authority (MMRDA) approved the proposal to establish the MMR-Environment Improvement Society. in its meeting held on 30th May, 1996.

Accordingly, the Mumbai Metropolitan Region - Environment Improvement Society was registered under the Societies Registration Act, 1860 on 14th November, 1996 and under the Mumbai Public Trust Act, 1950 on 6th February, 1997.

3. OBJECTIVES OF THE SOCIETY

The Society functions to support the programmes, projects, studies, investigations, research, training, etc. in keeping with the objectives of the Society within the Mumbai Metropolitan Region (MMR) area. Briefly, the objectives of the Society are as under –

- i) To promote protection, preservation, improvement and monitoring of environment in the Mumbai Metropolitan Region (MMR) through all constitutional means including legal, and
- ii) To adopt all such means to achieve the objects incidental or ancillary to the attainment of the main objects including but not restricted to the following:





A. Ecological Restoration and Greening Programmes :

a) To undertake protection or conservation or rejuvenation programmes leading to environmental improvements including the following :

- (i) Development of lakes in low lying areas which are subjected to uncontrolled disposal of sewage, municipal refuse etc.;
- (ii) Rejuvenation of deteriorated / eutrophicated lakes;
- (iii) Programmes for rehabilitation / landscaping of quarried areas;
- (iv) Ecological restoration programmes for degraded lands;
- (v) Cleaning up or purification of polluted surface water bodies and coastal waters;
- (vi) Promoting eco-friendly technologies to improve the environment;
- (vii) Precognition of degradation of flora and fauna and also environmental heritage.

b) To undertake or promote greening programmes such as :

- (i) Urban forestry / Urban plantation;
- (ii) Green belt development programmes (particularly of tolerant/resistant species) including around heavily industrialised area or in the areas where soil conservation is necessary;
- (iii) Tree plantation programmes including along roadside (particularly of species capable of trapping dust);
- (iv) Programmes for protection or preservation or rejuvenation of mangroves and wetland areas.

B. Developing Capabilities of Local Governments :

To develop capabilities of local authorities for environmental protection, improvement and monitoring, and to provide technical guidance and financial assistance for various activities including the following :

C. Solid Waste Management Programmes :

To provide technical guidance and financial assistance for solid waste management activities including the following:

- (i) Promoting environmentally appropriate methods of disposal of hospital waste by local authorities/ hospitals;
- (ii) Conversion of organic waste into manure/soil conditioners by vermi-composting or other innovative methods;
- (iii) Disposal of solid waste by sanitary land filling along with biogas recovery;
- (iv) Promoting programmes for separation of organic and inorganic waste at source linking with existing/new available approach;
- (v) Management and disposal of hazardous waste including toxic.

D. Technology Conversion Programmes :

To promote application of programmes, which will help to reduce air pollution impacts on the environment through industrial, domestic and vehicular emission control, including the technology conversion programmes such as :

- (i) Installation of electric/diesel crematori

- (ii) Retrofitting vehicles for conversion to CNG operations;
- (iii) Retrofitting vehicles with toxic gas absorbing units/other such pollution control apparatus
- (iv) Conversion of diesel/petrol vehicles to Solar Cells / Nickel-Cadmium battery operated vehicles;
- (v) Modifications of industrial manufacturing processes and operations.

E. Conducting Studies, Surveys and Research :

a) To promote studies, surveys, research and their application for protecting or improving environmental processes and operations such as those related to the following :

- (i) Ambient air quality through domestic, industrial and vehicular emissions control;
- (ii) Solid waste collection and management including identification of suitable disposal sites
- (iii) Hazardous wastes and industrial wastes handling and disposal;
- (iv) Resources conservation including recycling and reuse;
- (v) Environmental and health impact assessment
- (vi) Water resources including the coastal waters;
- (vii) Noise pollution;
- (viii) Water quality for conventional & non-conventional pollutants.

b) To promote application of designs for resource conservation and reuse, such as the following :

- (i) Pilot scale/demonstration projects in the field of waste recycling and emission control;
- (ii) Recycling of waste water for gardening or greening or for industrial purposes;

- (iii) Recycling of solid and industrial waste.

F. Undertake training, education and awareness activities, such as the following :

- (i) To organise Training Programmes for non-governmental organisations/schools/colleges in environment related matters;
- (ii) To publish a journal and organise other publications on various aspects related to environmental improvement;
- (iii) To promote awareness about environmental protection and improvement related movement by educating general public as well as students at the school level, by organising exhibitions/competitions on environment;
- (iv) To sponsor candidates for participating in training courses in India/Abroad for students and local authority staff in environment improvement and related subjects.

G. To act as advisors, consultants, appraisers and assessors :

In addition, MMR-EIS can act as an advisor, consultant, appraiser and assessor in environmental protection and improvement related matters.

Jurisdiction of the Society is the Mumbai Metropolitan Region (MMR) area. The project proposals are invited in the format prescribed by the Society from local bodies, university, colleges, societies, institutions, voluntary organisations, NGOs and individuals working in the field of environment improvement.

4. OVERVIEW OF SOCIETY'S ACTIVITIES (1996-2020)

During the last 24 years, the MMR-Environment Improvement Society has supported **90** projects with an approved grant of **Rs. 9.28 crores** in the related areas of Research, Implementation and Innovation and Awareness Creation. The Society has released financial assistance of Rs. 7.93 crores to the projects upto 31.03.2020. Some of the important completed projects are :

Environmental Management Plans for :

- Sanjay Gandhi National Park, Borivli
- Powai and Vihar Lakes and surroundings
- Matheran

Conservation and Beautification of Water Bodies :

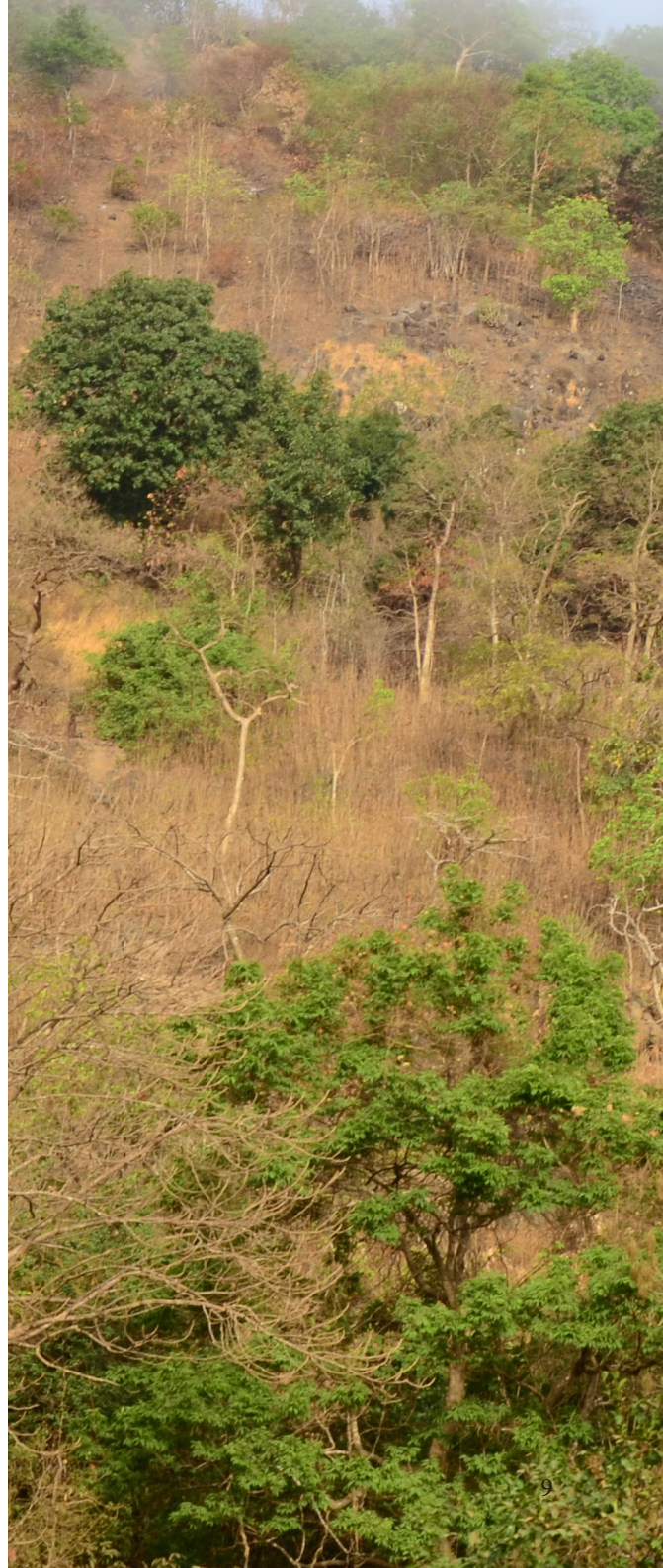
- Totale Lake at Virar
- Sheetal Talav at Kurla
- Ghosale Lake at Thane
- Traditional Water Ponds in Vasai
- Water Body at Wadala

Mapping and Inventorisation:

- Mapping of Mangroves
- Inventorisation of environmental features like Water Courses, Large Urban Green areas and Coastline Features in Greater Mumbai

Training and Awareness Creation

- Development of Manual for Urban Greening in MMR
- 'Chakachak Parisar' – A street play on Solid Waste Management Practices
- Development of Mobile Apps for Cell Phone Nature Tours at Sanjay Gandhi National Park, Borivli.





Implementation & Innovation Projects :

- 'Nisargruna' Biogas Plant in Matheran
- Rain Water Harvesting and Construction of Eco-San Toilet with Biogas Unit in Kulgaon-Badlapur Municipal Council Area;
- Ecology Conservation programme through Marine Museum, Nhava;
- Construction of Artificial Ponds for Idol Immersion during Ganesh Festival;
- Development of chimney along with dust collector for cleaning flue gases from crematorium in Ambarnath
- Infrastructure upgradation project for Conservation Education Centre;
- Integrated Waste Management of Kalyan Slaughter House, Mutton Market and Dombivli Fish Market;
- Erection of LPG Cremator, Mouje Dahivali, Karjat;
- Building an Aquaponics and Spirulina eco-park to demonstrate Sustainable Models of Urban Aquaculture and Agriculture at Central Institute of Fisheries Education (CIFE), Mumbai;
- Development of Environment Education Centre at Koparkhairane in Navi Mumbai;
- Development of methodology for modelling the propagation of pollutant plume and estimation of futuristic impact on coastal ecology using remote sensing and GIS;
- Mumbai Urban Biodiversity project;
- Programme for Climate Change communication for Mumbai City.

Research & Development:

- Research on making bricks from the decomposed Municipal Solid Waste;
- Study of Flora, intertidal macro benthic fauna and fisheries of Ulhas River Estuary and Thane creek.;
- Assessment of Fine PM Emissions due to construction and demolition activities for development of Emission Factors – Possible measures and guidelines for construction practices;
- Testing of Microbial Contamination of water in selected villages in Navi Mumbai and Awareness generation of Water Purification Techniques among the nearby school children and villagers;
- Ecological sustainability of Geothermal Zone of Tansa River Basin;
- Evaluation of water quality of Rain Water Harvesting pond within former landfill site of Maharashtra Nature Park;
- Traffic Congestion & More Cars - A Major City Health Hazard (“ Parking” - A First step towards its mitigation in MMR);
- Green Guide for Teachers.



5. ACTIVITIES DURING THE YEAR 2019-20

5.1 NEW PROJECTS

During the year 2019-20, the Society received 3 project proposals, which were appraised by the Sub-Committee of the Society. On the basis of the recommendations of the Sub-Committee, the Board of Governors rejected 2 proposals and 1 project proposal was under scrutiny.

5.2 ON-GOING PROJECTS

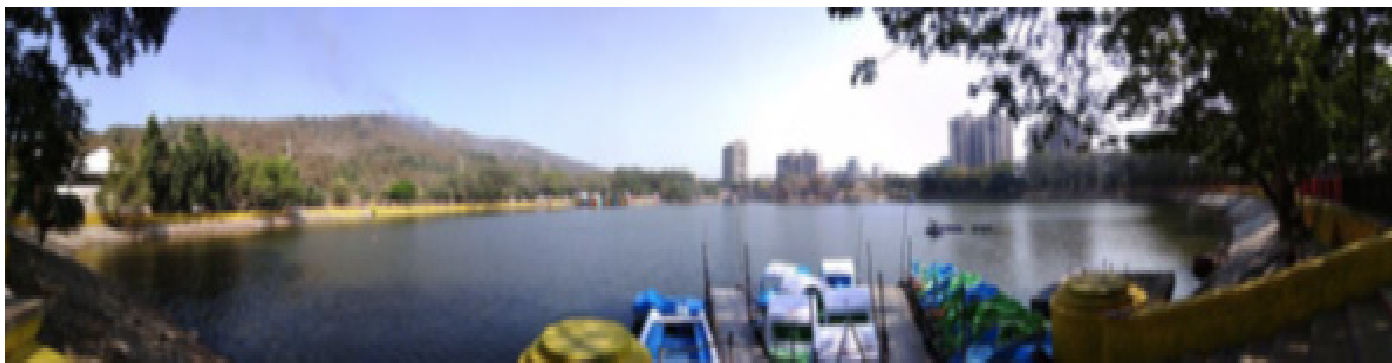
1. **Consultancy project on “Inventorisation of water bodies in MMR excluding Greater Mumbai”**
by Terracon Ecotech Pvt. Ltd.

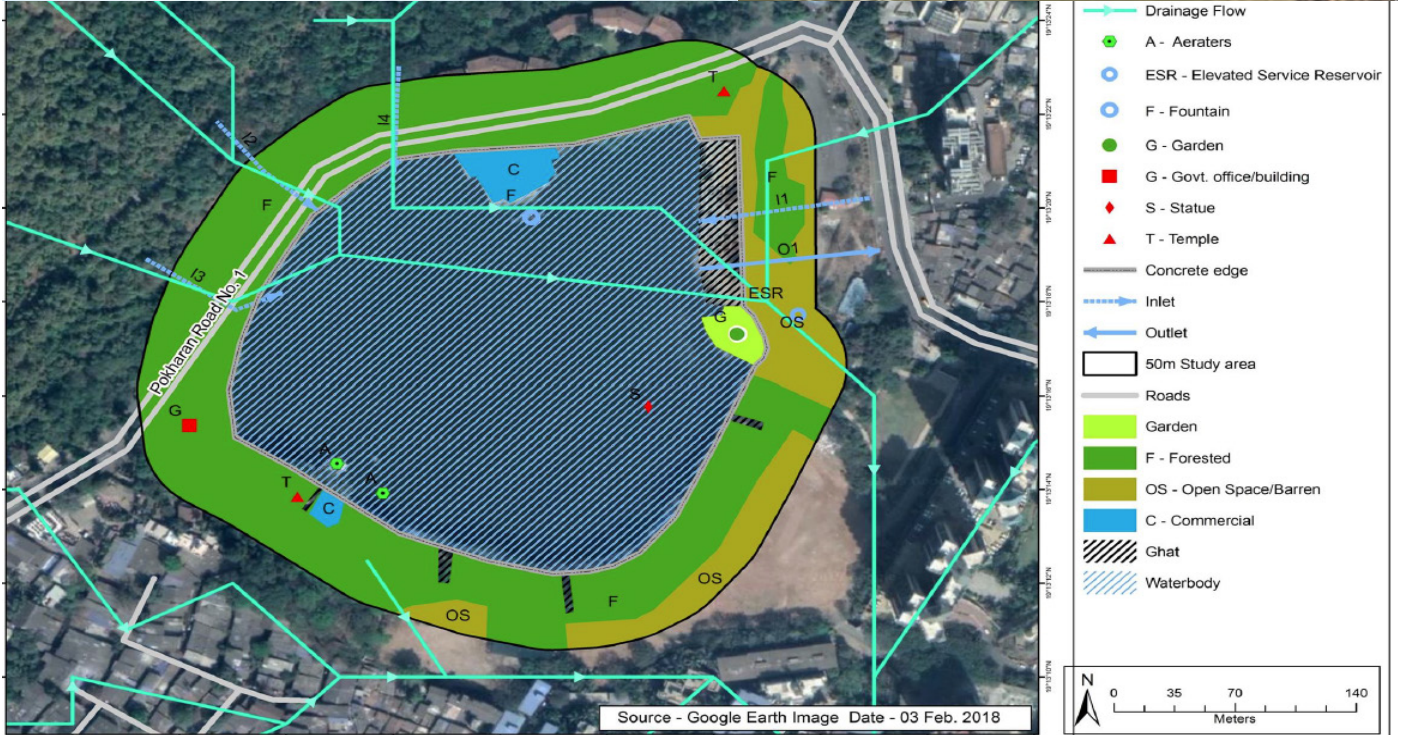
Date of Approval : 26th September, 2018 Grant : Rs. 49.98 lakh + GST Project duration : 64 weeks

The main objective of the project is to prepare a database of all surface water bodies in the MMR other than Greater Mumbai (except rivers, Creeks and Nallahs) identified in the Draft Regional Plan 2016-36 along with wetlands in MMR that shall be as per Wetland Atlas of the Government of India.

The project is intended to strengthen the Environmental Database for the Mumbai Metropolitan Region with information on location, condition, existing and proposed use, ownership details, water quality, threats etc. of the above mentioned environmental features. Such a database will not only help in targeting the efforts of various concerned agencies, including the MMR-EIS, towards protection of these environmental features but also will be helpful in planning decisions and help in formulating guidelines towards protecting them. The project also involves identification of priority areas for environment improvement of water bodies.

An amount of Rs. 20,64,174/- (including GST) was released for the project till March, 2020.





Upvan Lake

2. “Microalgae Cultivation- An effective solution to Air Pollution”

by Department of Biotechnology, University of Mumbai

Date of Approval : 24th March, 2017

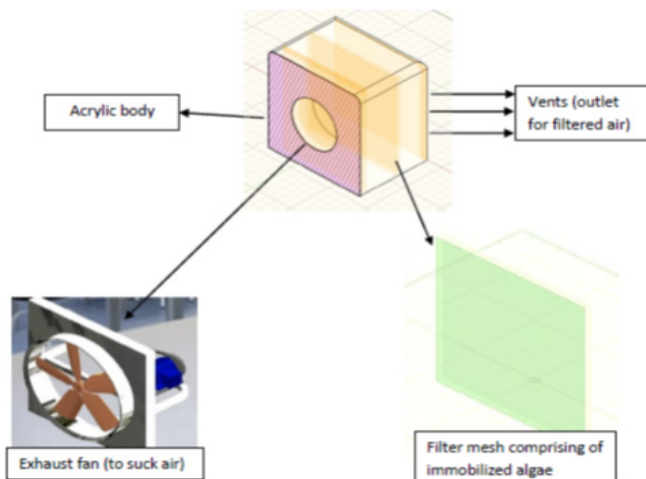
Grant : Rs. 14.20 lakh

Project duration : 24 months

The project aims towards the remediation of inorganic gaseous air pollutant like SO_x, NO_x, CO_x and Particulate Matter (PM) with cultivation of microalgae and obtaining enriched Micro-algal Biomass which can be used further as fertilizer or processed further to extract various active fractions. It is also envisaged to assess the change in the biochemical profile of the remediating microalgae due to stress and design an economical unit that would enable optimal survival and growth of the microalgae while mitigating aerial pollutants.

The proponent has selected two species i.e., *Chlorella Vulgaris* & *Spirulina Platensis* for the experiment. The microalgae consortium was able to grow in outdoor environment in similar growth pattern as compared to the growth pattern under controlled conditions in a lab. The proponent tested the immobilization of microalgae consortium using 4 different matrices i.e. aquarium filter, hydrogel beads, sodium alginate and zeolite. It was observed that the fastest and maximum immobilization was observed in the hydrogel beads and immobilized hydrogel balls were found to be stable until 4 months. Also, they have used ambient air quality (AQI) instrument for measuring ambient air quality.

An amount of Rs. 8.52 lakh was released for the project till March 2020.



Design of portable table top air purifier



5.3 CONCLUDED PROJECTS

1. “Bacteria driven strategies to decontaminate toxic heavy metals in Mithi River using Bioremediation process”

by Department of Biotechnology, University of Mumbai

Date of Approval : 22nd September, 2015

Grant : Rs. 12.60 lakh

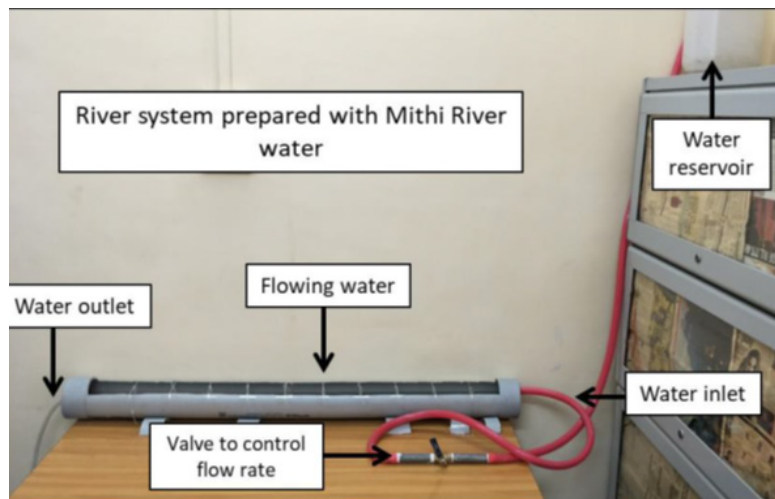
Project duration : 24 months

The main objectives of the project were to remove the concentration of heavy metals by analysing the genomics and proteomics of potential micro-organism / bacterial consortium from Mithi River which is having high concentration of toxic heavy metals because of the dumping of industrial waste and garbage.

The proponent made a flowing water system to replicate the river system and Mithi River water was used in the bio-remediation experiment in order to completely replicate the conditions of the Mithi River. A mat was prepared on metal wire frame to hold the biomaterial. The mat was put across the flow of water so that water passed through the mat. This change avoided the criss-cross flow of water, and baffles were placed before the biomat in the river model to avoid the flow of water only to the upper layer. The baffle ensured mixing of the water and maximised the exposure of water to the biomat.

It was observed that using coir immobilized with bacterial consortium had shown 77.57% chromium removal at sixth cycle of treatment of Mithi River water in river model system. With the increased number of bacteria on coir, it can completely bio remediate total chromium from the Mithi River water.

The project was completed in September 2019.



Mithi River flowing water system

2. “Mapping Wild Animal Rescue and roadkill data within MMR” - by TerraEnviro Foundation

Date of Approval : 23rd March, 2018

Grant : Rs. 1.05 lakh

Project duration : 12 months

The project aimed to collate the wild animal rescue and road-kill data from the (Maharashtra State) Forest Department and its partner NGOs from all over the MMR, apart from newspaper reports and digitize it, analyze it and map it using the Prani-Mitra software app of the Thane Van Vibhag. Also to collate data from 2012 onwards (based on availability) and generate one map for each calendar year till the year 2017.

The proponent initially expected that information on about 2,00,000 to 4,00,000 road kill would be available. However, it was found that only 8174 entries were made for animal rescue, particularly snakes from different Forest Divisions/Range Offices, NGOs and individual rescuers for last five years i.e., 2012-2017. Since the scope of work reduced, accordingly the project cost was reduced from Rs. 5,27,000/- to Rs. 1,05,400/-. The project was concluded in February, 2020.

Wildlife Rescued from Kalyan-Bhiwandi-Ulhasnagar Tehsils by Datta Bombe.



Wildlife Rescued by Kalyan Sarp Seva

3. “Baseline status of Ambient Air Quality in and around open dumping sites with emphasis on odorous compounds” -

by Waste to Energy Research & Technology Council (WTERT India)

Date of Approval: 24th March, 2017

Grant: Rs. 16.80 lakh

Project duration: 14 months

The project aimed to analyze and assess the odour generating gases and their concentration around open dumping sites along with odour perception study and suggest appropriate control measures including short term and long term solutions.

The proponent selected four different dumping grounds i.e, Deonar, Gorai, Diva-Khardi and Navi Mumbai, Turbhe Waste Processing Facility(WPF) for study. For each dumping ground the proponent measured concentrations of odorous compounds like H₂S, CH₄, NH₃, CH₄S, DMS, VOC and Particulate Matter which are commonly associated with dumping grounds for three seasons (pre-monsoon, post monsoon and winter). It was found that values of odourous compounds do not reduce in a linear fashion as distance from source increase mainly due to meteorological parameters such as wind direction, speed, temperature, humidity and due to other nearby sources like nallas, creeks, vehicular traffic, industrial units etc. The proponent also carried out the odour perception and health survey studies for all four dumping sites and the relation between the measurement of concentrations and people's perceptions are seen in close agreements to each other. and that residents and floating population was affected.

Proponent did an experimental studies on odour mitigation at two dumping sites i.e., Kanjur Marg and Deonar with different bio organic products which reduced odour at landfill sites and composting sites. Therefore, odour can be controlled by scientific methods

The project was completed in February 2020.



Map of Turbhe WPF with Sampling Points

4. **“Development and Demonstration of Air Filtration Unit for removal of Particulate Matter, VOC and NOx”-**

by Environment Policy & Research India

Date of Approval : 01st February, 2018

Grant : Rs. 9 lakh

Project duration : 9 months

The project aimed to design / develop a unit which consisted of a reusable filter that could capture particles of size less than 2.5 micro metre and a photo-catalytic unit that can adsorb VOCs and NOx. An assessment was also carried out to understand the background concentration of PM10, PM2.5, NOx and VOC at two locations:

- One basement location
- One petrol pump

Proponent carried out the efficiency assessment of filtration unit for basement site and petrol pump site at different distances. The project Proponent monitored pollutants at the petrol pump for monsoon and pre-monsoon season. The monitoring of pollutants was done at varied distances (3 metres ,10 metres & 15 metres) and reading was taken in a linear manner and not in a peripheral manner (hourly average).

Similarly, a basement used for parking and storage purpose. The Air filtration Unit was mounted at the entrance of the parking next to the ramp. The pollutants were monitored at the inlet, outlet of the prototype and also from a distance of 3 metres,10 metres & 15 metres from the installed filtration unit.

It was observed that the reduction of all the pollutants was highest within 3 metre distance and was marginally lower as the distance from the Unit increased to 10m and 15 m. For example, in case of Petrol pump, the value of PM-2.5 reduced to 86 within 3 metre, to 69 within 10 metre, to 61 within 15 metre distance. Similar observations were recorded for PM-10, VOC, and NOx.

The project was completed in February 2020.



Air Filtration Unit by EPRI

6. FUNDS

During the year 2019-20 the Society had received Rs. **47,18,567/-** by way of interest from the investment of interest free loan given by the MMRDA and the surplus of previous years income, and an amount of Rs. **55,11,711/-** was released as grants for the approved projects and for meeting the administrative expenses.

Statement showing year-wise income, grant released and number of projects completed

Sr. No.	Year	Total Income (Rs.)	Expenditure			No. of Projects Completed
			On Projects (Rs.)	Administrative (Rs.)	Total (Rs.)	
1.	1998-1999	86,85,413	11,03,000	2,41,553	13,44,553	---
2.	1999-2000	48,52,387	13,93,960	1,58,337	15,52,297	1
3.	2000-2001	65,47,885	19,55,953	2,70,330	22,26,283	2
4.	2001-2002	72,65,645	16,35,811	3,02,006	19,37,817	3
5.	2002-2003	63,02,789	15,42,327	7,26,973	22,69,300	3
6.	2003-2004	64,54,956	37,27,333	5,77,897	43,05,230	3
7.	2004-2005	47,09,848	33,25,434	5,37,666	38,63,100	5
8.	2005-2006	50,32,334	44,16,863	5,72,320	49,89,093	4
9.	2006-2007	63,28,353	35,48,268	7,78,375	43,26,643	8
10.	2007-2008	89,47,700	64,83,385	8,87,426	73,70,811	5
11.	2008-2009	78,19,743	60,77,450	7,64,423	68,41,873	5
12.	2009-2010	8,88,944	58,67,170	11,38,431	70,05,601	2
13.	2010-2011	82,66,012	69,55,380	13,57,913	83,13,293	5
14.	2011-2012	70,06,592	51,34,327	16,89,661	68,23,988	4
15.	2012-2013	83,66,649	43,15,340	10,53,671	53,69,011	4
16.	2013-2014	77,85,712	62,62,721	11,35,895	73,98,616	7
17.	2014-2015	76,93,061	39,45,154	14,48,760	53,93,914	8
18.	2015-2016	74,94,956	31,90,950	15,73,142	47,64,092	5
19.	2016-2017	69,18,565	38,03,800	17,73,724	55,77,524	2
20.	2017-2018	57,93,743	44,35,211	17,63,799	61,99,010	4
21.	2018-2019	11,03,691	35,68,290	24,40,290	60,08,580	1
22.	2019-2020	47,18,567	34,74,918	20,36,793	55,11,711	4

7. AUDITED ANNUAL ACCOUNTS OF MMR-EIS FOR THE YEAR 2018-2019

SIDDHARTH SINKAR & ASSOCIATES

Chartered Accountants

Address: 502 Prasad Apt, Chaphekar Bandhu Marg, Mulund (East), Mumbai 400081

Phone : 21637818 Mobile : 9820158827

Independent Auditors' Report

To the Members,
MMR ENVIRONMENT IMPROVEMENT SOCIETY

Report on the Financial Statements

We have audited the accompanying financial statements of **MMR ENVIRONMENT IMPROVEMENT SOCIETY** ("the Society"), which comprise the Balance Sheet as at 31st March, 2019 and the Statement of Income and Expenditure Account for the year ended on that date and a summary of significant accounting policies and other explanatory note as required by Sub-Section (2) of Section 33 of the The Bombay Public Trust Act, 1950 ("the Act").

Management's Responsibility for the Financial Statements

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position, financial performance of the Society in accordance with the Accounting Standards. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal controls relevant to the Society's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion and to the best of our information and according to the explanations given to us, the financial statements give the information required by the Act and the rules in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India:

- a. in the case of the Balance Sheet, of the state of affairs of the Society as at March 31, 2019;
- b. in the case of the Income and Expenditure Account, of the excess of income over expenditure for the year ended on that date; and



MMR-ENVIRONMENT IMPROVEMENT SOCIETY

SCHEDULE-VIII

[Vide Rule 17(1)]

(Registration No.F 18894 Under Mumbai Public Trust Act. 1950)

BALANCE SHEET AS AT 31ST MARCH 2019

(Amt. in Rs.)

Previous Year 31/03/2018	FUNDS & LIABILITIES	Current Year 31/03/2019	Previous Year 31/03/2018	PROPERTIES & ASSETS	Current Year 31/03/2019
	<u>Unsecured Loan</u>				
5,00,00,000	From MMRDA	5,00,00,000	41,18,200	Projects Completed (Schedule -B)	15,90,000
			41,18,200	Less: Grants on completed projects transferred to Income & Expenditure Account	15,90,000
			14,34,768	Projects in Progress (Schedule-C)	26,03,728
	<u>Liabilities</u>	6,55,600		Advance towards Projects(Schedule-C)	14,64,928
	<u>Outstanding Liabilities (Schedule-A)</u>				
83,720	(a) Administrative	1,45,720	25,468	Computer & Printer (Op.Bal.)	15,281
3,60,000	(b) Project	5,56,500	—	Add: Purchases	—
4,43,720		7,02,220	—	Less: (a) Disposal	—
			10,187	(b) Depreciation	8,112
			15,281		9,169
			5,476	Furniture & Fixtures (Op.Bal.)	4,928
			—	Add: Purchases	—
			548	Less: Depreciation	493
			4,928		4,435
				<u>Income Receivable :</u>	
			6,80,126	Interest accrued on Deposits	50,82,437
				<u>TDS Receivable</u>	
			4,63,508	For Fin. Year 2015-16	4,63,508
			27,312	For Fin. Year 2016-17	27,312
			5,67,220	For Fin. Year 2017-18	5,67,220
			—	For Fin. Year 2018-19	5,64,718
42,498,459	<u>Income & Expenditure A/C,</u>	4,13,30,229	10,58,640		16,22,768
—	As per the last year	20,93,826		Bank Balances:	
11,68,230	Add: During the year	—	62,472	In Savings A/C. (Schedule-D)	18,75,965
4,13,30,229	Less: Excess expenditure over Income	—	8,78,59,896	In Term Deposits (Schedule-D)	3,14,00,000
		4,31,64,055	2,841	Cash in hand	2,856
9,17,73,949	TOTAL	9,46,66,275	9,17,73,949	TOTAL	9,46,66,275

Notes on Accounts:- Schedule -E

The above Balance Sheet to the best of our belief contains a true account of the Funds, Liabilities/Property, and Assets of the Trust as per our report of even date.

For Siddharth Sinkar & Associates
Chartered Accountants, Panel No.: 14277

ERN 124831W

Siddharth Sinkar
(CA S.S. Sinkar)
Proprietor(Abhijit Ekble)
Secretary(Uma Adusumilli)
Director(R.A. Rajeev)
President

M.No. 106229

Mumbai.

Dated: 22th June 2019

MMR- ENVIRONMENT IMPROVEMENT SOCIETY

SCHEDULE-IX

(Vide Rule17(1))

(Registration No. F 18894 Under Mumbai Public Trust Act.1950)

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2019

(Amt. in Rs.)

Previous Year 31/03/2018	Expenditure	Current Year 31/03/2019	Previous Year 31/03/2018	Income	Current Year 31/03/2019
10,50,129	To Salaries & Wages (Remuneration to staff)	11,86,324		By Interest	
22,422	To Audit fees	22,420	57,07,719	(a) On FDRs	59,66,830
16,026	To Meeting Expenses	25,152	95,030	(b) On S.B. Accounts	1,03,891
1,75,089	To Printing & Stationery	1,19,819			
21,256	To Telephone charges	20,381			
1,41,600	To Office Rent paid to MMRDA	1,41,600			
60,000	To Electricity Charges paid to MMRDA	60,000			
1,20,000	To Administrative charges paid to MMRDA	1,20,000			
16,626	To Professional fees	34,306			
75,500	To Sitting fees to Governors / Members.	1,55,000			
16,349	To Travelling & Conveyance	36,542			
4,143	To Postage & Courier services	3,382			
866	To Bank Charges	2,307			
41,18,200	To Expenditure on completed projects(Schedule-B)	15,90,000			
78,245	To Repairs & Maintenance (Web-site maint.charges)	43,660			
10,00,000	To Training & Workshop	---			
43,793	To Advertisement	49,793			
---	To Payment of Income Tax	4,19,604			
10,735	To Depreciation Charges	6,605			
---	To Excess Income over expenditure	20,33,826	11,68,230	By Excess of Expenditure over Income	---
69,70,979	TOTAL	60,70,721	69,70,979	TOTAL	60,70,721

As per our report of even date

For Siddharth Sinkar & Associates
Chartered Accountants, Panel No.: 14277
FRN. 124931W

Siddharth Sinkar
(CA S.S. Sinkar)
Proprietor
M.No. 109229
Mumbai.
Dated: 27th June 2019



(Signature)
(Abhijit Ekbote)
Secretary

(Signature)
(Uma Adusumilli)
Director

(Signature)
(R.A. Rajeev)
President

MMR-ENVIRONMENT IMPROVEMENT SOCIETY

SCHEDULE - A

Details of Outstanding liabilities as on 31/03/2019

Sr.No.	Particulars	Amount Rs.
1	Salaries and Wages A/c (Payment of remuneration to staff)	1,17,400
2	Audit Fee payable to Auditors (for audit of accounts for 2018-19)	22,420
3	Professional Fee	5,900
4	Project: Provision made for payment to proponent for completed project	5,56,500
	TOTAL	7,02,220



MMR-ENVIRONMENT IMPROVEMENT SOCIETY

SCHEDULE-B

Details of Completed projects and grant transferred to Income & Expenditure Account during 2018-19

(Amount in Rupees)

Sr. No.	Project No.	Name of the Project Proponent	Name of the Project	Approved Grant	Date of approval by BoGs	Payment released upto 31/03/2018	Payment released during 2018-19	Total payment released	Project Completed & grant transferred to Income & Expenditure Account
1		2	3	4	5	6	7	8	9
1	5/2017	Centre for Environment Education (CEE), Urban Programmes Group, Pune	Strengthening Environmental Education through project based learning and action in Jr. Colleges of Panvel	15,90,000	27/07/2017	3,18,000	12,72,000	15,90,000	15,90,000
			TOTAL	15,90,000		3,18,000	12,72,000	15,90,000	15,90,000



MMR-ENVIRONMENT IMPROVEMENT SOCIETY
SCHEDULE-C

PROJECTS - IN PROGRESS
2018-19

(Amount in Rupees)

(Amount in Rupees)											
Sr. No.	Project No.	Name of the Project Proponent	Name of the Project	Approved Cost	Date of Approval by BoGs	Payment released			Advance towards projects	Project - in-Progress (Total payment)	Contingent liability
						Upto 31/03/2018	During 2018-19	Total			
1		2	3	4	5	6	7	8	9	10	11
1	1/2015	Department of Biotechnology, University of Mumbai	Bacterial driven strategies to decontaminate toxic heavy metals from Mithi River using Bioremediation process.	12,60,000	22/09/2015	9,07,728	---	9,07,728	---	9,07,728	3,52,272
2	5/2016	Department of Biotechnology, University of Mumbai	Microalgae Cultivation - An effective solution to air pollution	14,20,000	24/03/2017	5,27,038	3,24,962	8,52,000	---	8,52,000	5,68,000
3	6/2016	WTRET-India, Thane	Baseline status of ambient air quality in and around open dumping sites with emphasis on odourous compounds	16,88,000	24/03/2017	3,37,600	5,06,400	8,44,000	---	8,44,000	8,44,000
4	6/2017	Environment Policy & Research India	Development and Demonstration of Air Filtration Unit for removal of Particulate matter, VOC and Nox	9,00,000	01/02/2018	---	1,80,000	1,80,000	1,80,000	---	7,20,000
5	12/2017	TerraNero Foundation	Mapping Wild Animal Rescue and Road kill data within MMR	5,27,000	26/03/2018	---	1,05,400	1,05,400	1,05,400	---	4,21,600
6	7/2018	Terracon Ecotech Pvt Ltd	Inventorisation of Water Bodies across MMR other than Greater Mumbai	58,97,640	10/12/2018	---	11,79,528	11,79,528	11,79,528	---	47,18,112
			TOTAL	16,92,640		17,72,366	22,96,290	40,68,656	14,64,928	26,03,728	76,23,984



MMR-ENVIRONMENT IMPROVEMENT SOCIETY

SCHEDULE - D

Details of the Bank balances / Term Deposits as on 31/03/2019

Sr. No.	Particulars	Previous year 31/03/2018	Current year 31/03/2019	
		Amount Rs. Ps.	Amount Rs. Ps.	
1	United Bank of India, Bandra (East) - Savings Bank Account	38,008.09	1,53,253.59	
2	Bank of Maharashtra, Bandra (East) - Savings Bank Account	24,464.56	17,20,711.42	
	TOTAL	62,472.65	18,75,965.01	
	<u>TERM DEPOSITS</u>			INTEREST ACCRUED ON TERM DEPOSITS UPTO 31/03/2019 (Rs.)
		(Rs)	(Rs)	
1	Syndicate Bank	3,83,59,895.80	3,19,00,000	20,99,189
2	Andhra Bank	4,95,00,000.00	4,95,00,000	29,83,248
	TOTAL	8,78,59,895.80	8,14,00,000	50,82,437



MMR- ENVIRONMENT IMPROVEMENT SOCIETY

SCHEDULE – E

Notes on Accounts for the year ending on 31st March,2019

1	ACCOUNTING POLICIES:
(a)	All Expenses and Income including Interest on Term Deposit are accounted on accrual basis.
(b)	The Project are accounted on the basis of stage of completion of work approved by the Board . In case, no stage is completed the payments towards projects are treated as advance.
(c)	The grants released on Projects completed involving study reports, projects reports etc., are transferred to Income & Expenditure Account in the year of completion.
(d)	Fixed assets are accounted for at cost / written down value as the case may be.
(e)	Depreciation is provided as per the rates prescribed in Income-Tax Act,1961.(WDV Method)
(f)	No provision has been made in the account for leave encashment and gratuity.
(g)	Deferred Tax
	Deferred Tax is recognised on timing difference between book and taxable income using the tax rate and laws.
2	Previous figures are regrouped / rearranged wherever necessary.
3	Income-tax is not provided, as the Society is eligible for obtaining a permission as per explanation to Section 11(2) of the Income -Tax Act, 1961 and the Society has given Notice in Form No. 10 to the prescribed authority.
4	Actual Interest realized on fixed Deposit during the year : Rs. 9,99,800 /- (previous year : Rs. 59,34,033/-)
5	Interest Accrued during the year : Rs. '50,82,437/- (previous year : Rs. 6,80,125/-)
6	Contingent liability on project during the year : Rs.76,23,984/-
	Contingent liability on project for the previous year : Rs.52,94,634/-
7	Contingent liability on account of claims lodged not acknowledged as debts : Rs. NIL.
	Contingent liability on account of claims lodged not acknowledged as debts for the previous year : Rs. NIL.
8	There are no creditors of the Society, hence the disclosure required under the Micro, Small & Medium Enterprises Act, 2006 is not given.

As per our report of even date

For Siddharth Sinkar & Associates
Chartered Accountants, Panel No.: 14277
FRN. : 124931W

(CA S.S. Sinkar)
Proprietor
M.No. 109229
Mumbai.

Dated:
Mumbai.

Dated: 27th June 2019



(Abhijit Ekbote)
Secretary

(Uma Adusumilli)
Director

(R.A. Rajeev)
President

MMR-ENVIRONMENT IMPROVEMENT SOCIETY

Statement showing the income of the Society for the Assessment Year 2019-2020

(Amount in Rupees)

Assessment Year	Total actual earnings during the Assessment Year	85% of total earnings	Minimum expenditure target (Previous Years')	Amount spent on attainment of objectives	Balance amount	Amount of expenditure incurred in addition to maximum expenditure target for the A.Y. 2019-20 will be adjusted against the accumulated earnings set apart for carrying out activities for attaining objectives of the Society during the Assessment Year 2020-21.
						2020-21
1	2	3	4	5	6	7
2019-20	11,03,691	9,38,137	40,00,000	60,08,580	(-) 10,70,443	(-) 10,70,443

Secretary
MMR-Environment Improvement Society



MMS ENVIRONMENT IMPROVEMENT SOCIETY

Statement showing the income of the Society and its application for carrying out objectives of the Society during the next 5 years.

Figures in Rupees

Sr. No.	Period	Total earnings	Actual earnings	86% of actual earnings	Minimum expenditure target (Previous years)	Amount spent on attainment of objectives	Balance Amount (5+6)-7	Accumulated earnings set apart for carrying out activities for attaining objectives of the Society during the Financial Years.							
								2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	01/04/2009 to 31/03/2010	58,57,319	8,58,944	7,58,502	58,07,225	70,95,891	3,57,329	—	—	—	—	—	—	—	—
2	01/04/2010 to 31/03/2011	58,04,332	82,66,012	70,26,110	47,49,087	82,13,293	24,61,804	—	—	—	—	—	—	—	—
3	01/04/2011 to 31/03/2012	70,56,092	91,42,929	77,77,423	47,17,548	56,45,939	26,49,183	5,00,000	—	—	—	—	—	—	—
4	01/04/2012 to 31/03/2013	83,55,548	83,57,587	71,93,849	43,74,183	63,66,011	61,09,101	10,00,000	10,00,000	—	—	—	—	—	—
5	01/04/2013 to 31/03/2014	77,85,712	79,34,530	67,44,350	45,34,101	74,39,506	26,36,945	7,50,000	7,50,000	7,50,000	—	—	—	—	—
6	01/04/2014 to 31/03/2015	76,93,951	77,50,810	66,22,189	29,63,945	53,93,914	41,92,220	7,50,000	7,50,000	7,50,000	7,50,000	—	—	—	—
7	01/04/2015 to 31/03/2016	74,94,950	76,71,995	66,90,744	39,43,220	47,64,062	58,68,872	18,68,872	10,00,000	10,00,000	10,00,000	10,00,000	—	—	—
8	01/04/2016 to 31/03/2017	89,18,995	70,64,221	60,04,995	48,65,872	55,76,924	52,98,536	—	12,98,536	10,00,000	10,00,000	10,00,000	10,00,000	—	—
9	01/04/2017 to 31/03/2018	58,02,749	54,61,843	46,42,507	47,06,535	61,56,016	32,40,093	—	—	5,00,000	2,40,093	5,00,000	10,00,000	10,00,000	—
10	01/04/2018 to 31/03/2019	80,70,721	11,93,881	8,38,137	40,93,000	60,58,589	(-) 10,70,443	—	—	—	(-) 10,70,443	—	—	—	—
Minimum Target:										40,00,000	15,15,000				



The Bombay Public Trusts Act, 1950.
SCHEDULE - IX C
(Vide Rule 32)


Statement of income liable to contribution for the year ending 31st March, 2019
 Name of Public Trust : MMR-ENVIRONMENT IMPROVEMENT SOCIETY
 Registered No. : F-18894

	Rs.Ps.	Rs.Ps.
I. Income as shown in the Income and Expenditure Account (Schedule IX).		
II. Items not chargeable to Contribution under Section 58 and Rules 32 :		Rs. 60,70,721/-
(i) Donations received from other Public Trusts and Dharmadas.		
(ii) Grants received from Government and Local authorities.		
(iii) Interest on Sinking or Depreciation Fund.		
(iv) Amount spent for the purpose of secular education.		
(v) Amount spent for the purpose of medical relief.		
(vi) Amount spent for the purpose of veterinary treatment of animals.		
(vii) Expenditure incurred from donations for Relief of distress caused by scarcity, Drought, flood, fire or other natural calamity.		
(viii) Deductions out of income from lands used for Agricultural purposes :-		
(a) Land Revenue and Local Fund Cess.		
(b) Rent payable to superior landlord.		
(c) Cost of production, if lands are cultivated by trust.		
(ix) Deductions out of income from lands used for non-agricultural purposes :		
(a) Assessment, cesses and other Government or Municipal Taxes.		
(b) Ground rent payable to the superior landlord.		
(c) Insurance Premium.		
(d) Repairs at 10 percent of gross rent of building.		
(e) Cost of collection at 4 percent of gross rent of buildings let out.		
(x) Cost of collection of income or receipts from securities, stocks, etc. at 1 per cent of such income		
(xi) Deductions on account of repairs in respect of buildings not rented and yielding no income, at 10 percent of the estimated gross annual rent.		
Gross Annual Income chargeable to contribution...	Nil	Rs. 60,70,721/-

Certified that while claiming deductions admissible under the above Schedule, the Trust has not claimed any amount twice, either wholly or partly, against any of the items mentioned in the Schedule which have the effect of double - deduction.

Trust Address:MMR- ENVIRONMENT IMPROVEMENT SOCIETY
At/Post / Tal: District:

Dated : 27th June 2019


SIDDHARTH SINKAR & ASSOCIATES
 Chartered Accountants
 Firm registration No 124931W

Trustee.



Report of an auditor relating to accounts audited
Under sub-section(2) of section 33 & 34 and rule 19
of the Bombay Public Trusts Act.

Registration No. F-18894

Name of the Public Trust: MMR-ENVIRONMENT IMPROVEMENT SOCIETY

For the year ending: 31st March, 2019

(a)	Whether accounts are maintained regularly and in accordance with the provisions of the Act and the rules;	Yes.
(b)	Whether receipts and disbursement are properly and correctly shown in the accounts;	Yes.
(c)	Whether the cash balance and vouchers in the custody of the manager or trustee on the date of audit were in agreement with the accounts;	Yes.
(d)	Whether all books, deeds, accounts, vouchers or other documents or records required by the auditor were produced before him;	Yes.
(e)	Whether a register of movable and immovable properties is properly maintained, the changes therein are communicated from time to time to the regional office, and the defects and inaccuracies mentioned in the previous audit report have been duly complied with;	Yes, but changes therein not communicate to regional office/
(f)	Whether the manager or trustee or any other person required by the auditor to appear before him did so and furnished the necessary information required by him;	Yes.
(g)	Whether any property or funds of the Trust were applied for any object or purpose other than the object or purpose of the Trust;	No.
(h)	The amounts of outstanding for more than one year and the amounts written off, if any;	Nil.
(i)	Whether tenders were invited for repairs or construction involving expenditure exceeding Rs.5,000/-	NA.
(j)	Whether any money of the public trust has been invested contrary to the provisions of Section 35;	No.
(k)	Alienations, if any, of the immovable property contrary to the provisions of Section 36 which have come to the notice of the auditor;	None.
(l)	All cases of irregular, illegal or improper expenditure, or failure of omission to recover monies or other property belonging to the public trust or of loss or waste of money or other property thereof, and whether such expenditure, failure, omission, loss or waste was caused in consequence of breach of trust or misapplication or any other misconduct on the part of the trustees or any other person while in the management of the trust;	None.
(m)	Whether the budget has been filed in the form provided by rule 16A;	No.
(n)	Whether the maximum and minimum number of the trustees is maintained;	Yes.
(o)	Whether the meeting are held regularly as provided in such instrument;	Yes.
(p)	Whether the minute books of the proceedings of the meeting is maintained;	Yes.
(q)	Whether any of the trustees has any interest in the investment of the trust;	No.
(r)	Whether any of the trustees is a debtor or creditor of the trust;	No.
(s)	Whether the irregularities pointed out by the auditors in the accounts of the previous year have been duly complied with by the trustees during the period of audit;	No such irregularities.
(t)	Any special matter which the auditor may think fit or necessary to bring to the notice of the Deputy or Assistant Charity Commissioner;	None.

Dated :27th June 2019

SIDDHARTH SINKAR & ASSOCIATES
Chartered Accountants
Firm registration No 124931W





MUMBAI METROPOLITAN REGION- ENVIRONMENT IMPROVEMENT SOCIETY
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