



JANUARY 2020

E-BULLETIN

MAHARASHTRA POLLUTION CONTROL BOARD

EDITORIAL

It gives us pleasure to introduce MPCBs 3rd edition of the Bi-monthly E-bulletin to you. This E-bulletin is an attempt to give you a brief insight into the latest happenings in the field in terms of technology, important circulars, and awareness programs being carried out by MPCB and also introduce the reader to the breakthrough research which is being done in this field. In this edition of the E-bulletin, we have published the IT cell of MPCB which is responsible for easing out daily challenges of MPCB by transforming enormous manual tasks into Digitization by developing smarter apps, web pages and improved data storage. We also introduce the reader to **Soil amelioration** - an effective, economical, practical, and socially accepted technology to remediate the contaminated sites by use of green living plants.

We have also talked in this E-bulletin about the conferences that have been organized by MPCB on Ease of Doing Business. A few other topics relevant to environment and Maharashtra have been covered.

We hope last two bulletin's have been beneficial & we also welcome suggestion from the readers regarding future topics and any changes that would be desirable in the forthcoming issues of the E-bulletin. We also invite guest articles from the readers and a selection of this guest article may be published in a later issue.



Shri E. Ravendiran, (IAS)
Member Secretary, MPCB

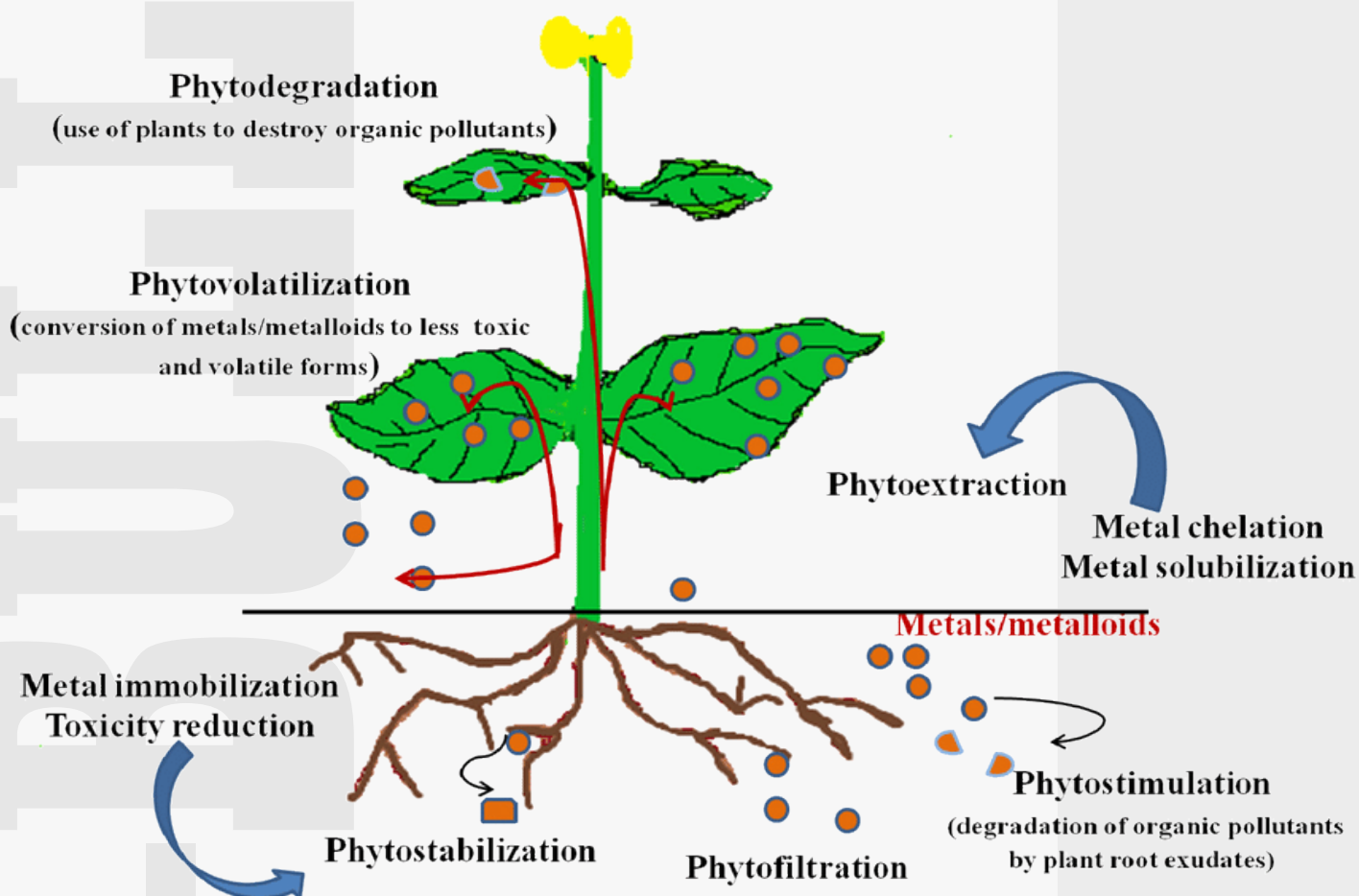
TECHNOLOGY

Soil amelioration using phytoremediation process

Pollution of biosphere by toxic metals has accelerated dramatically since the beginning of the industrial revolution as a result of various human activities. Heavy metals ions, when present at an elevated level in the environment, are excessively absorbed by roots and translocated to shoot, leading to impaired metabolism and reduced growth. In addition, excessive metal concentrations in contaminated soils result in decreased soil microbial activity and soil fertility, and yield losses. Heavy metals cannot be destroyed biologically but are only transformed from one oxidation state or organic complex to another due to which remediation of heavy metal contamination in soils is more difficult.

Until now, methods used for their remediation such as excavation and landfill, thermal treatment, acid leaching and Electro-reclamation are not suitable for practical applications, because of their high cost, low efficiency, large destruction of soil structure and

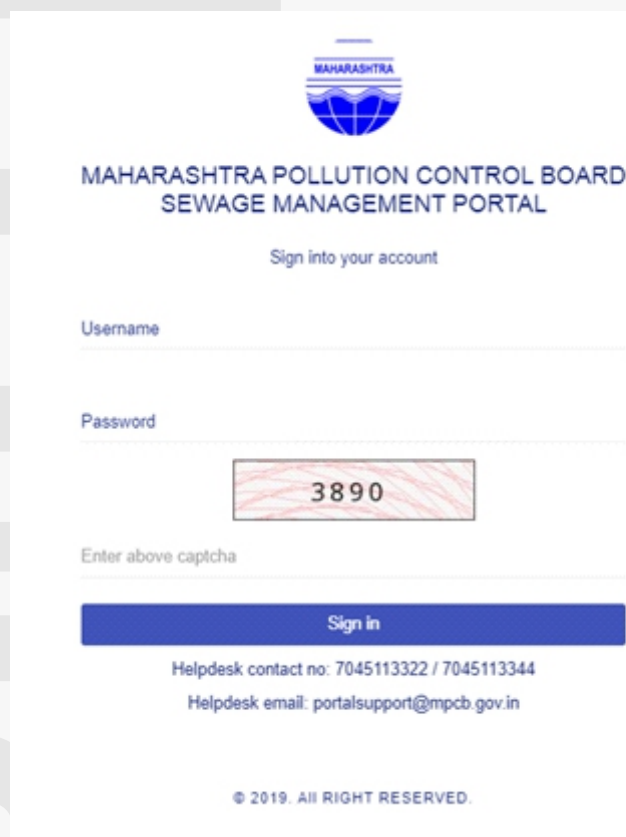
fertility and high dependence on the contaminants of concern, soil properties, site conditions, and so on. Thus, the phytoremediation strategies for heavy metals contaminated soils are so promising. Phytoremediation, the use of plants to extract, sequester, and/or detoxify pollutants through physical, chemical, and biological processes, has been reported to be an effective, in situ, non-intrusive, low-cost, aesthetically pleasing, ecologically benign, socially accepted technology to remediate polluted soils. It also helps prevent landscape destruction and enhances activity and diversity of soil microorganisms to maintain healthy ecosystems, which is consequently considered to be a more attractive alternative than traditional methods to the approaches that are currently in use for dealing with heavy metal contamination. Phytoremediation of heavy metals may take one of several forms: phytoextraction, rhizofiltration, phytostabilization, and phytovolatilization. Phytoextraction refers to processes in which plants are used to concentrate metals from the soil into the roots and shoots of the plant.



NEW DEVELOPMENTS

Development of Sewage Management Portal:

This Portal is developed for Municipal Councils, corporations & Nagar Panchayets who can submit sewage treatment details on a yearly basis. This is would benefit MPCB to collect & monitor sewage waste details on a yearly basis. Municipal corporations & Council would be auto registered in this portal and credentials would be shared with respective bodies. After login provision would be made available to submit one time general information. On submission of one time information, Corporations and councils will get the provision for submission of yearly Sewage generation followed by Sewage collection system, Sewage Treatment System, Quantity of treated water reused. On submission of above information respective Nagar Palikas would be able to view the information which they have submitted. Also one admin credentials would be provided to MPCB where information of all Municipal corporation/ councils would be visible & also one consolidated dashboard will be available for statistics.



MAHARASHTRA POLLUTION CONTROL BOARD
SEWAGE MANAGEMENT PORTAL

[Sign into your account](#)

Username

Password

3890

Enter above captcha

Sign in

Helpdesk contact no: 7045113322 / 7045113344
Helpdesk email: portalsupport@mpcb.gov.in

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Mobile application for inspection

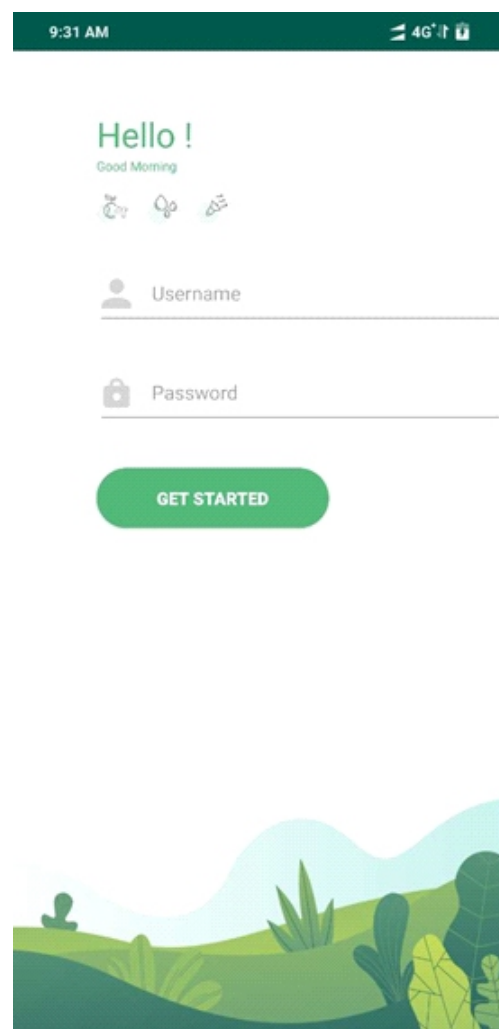
This mobile application is introduced by MPCB to all the field officers/regional officers so that at the time of inspection they can utilize the same for submission of inspection report then and there itself. Once inspection report is submitted the project proponent will receive the inspection report by means of email and sms

notifications. This application has the feature to capture the geo tagging of the inspected unit so to detect the latitude, longitude of industries all across Maharashtra. This will thereby track the location of officers and thus ensure proper inspections.



Auto renewal of consents - Scheme of Auto-Renewal of Consent based on self-certification for Red, Orange & Green Category industries.

It has been decided in the CAC Meeting held on 24/06/2015 to implement Auto Renewal Policy for all categories of industries i.e. Red, Orange & Green Category industries. Therefore, it has been resolved in the Board's 165th meeting held on 14/10/2015 to implement the scheme of Auto- Renewal of Consents based on self-certification for Red, Orange & Green Category industries. Further, it is directed to accept applications henceforth for Auto-Renewal of Consent to operate of all the Red, Orange & Green Category industries along with Self-Certification and Commitment letter, and grant auto-renewal as per the delegation of power within stipulated time period without any delay. Further as per corrigendum vide letter no. MPCB/AS(T)/TB/B-1520 dated 15/04/2017 the scheme of auto renewal is also made applicable for auto-renewal of consents to Establish of Red, Orange & Green category industries which doesn't attract the provisions of EIA Notification, 2006 and amendments thereof based upon self-certification from the date of issue of this corrigendum. The key features of this scheme are available at; http://www.mpcb.gov.in/sites/default/files/standing_orders/Circular_autorenewal_consent_selfcerti_03122015.pdf & <http://164.100.154.113/consentmgt/AutoRenewal.php>



Article - "More river stretches are now critically polluted: CPCB", MPCB Actions in compliance with Hon'ble NGT order in OA No. 673/2018 -

The Hon'ble NGT Principal Bench issued order on 20th September, 2018 in Original Application No. 673/2018 mentioning report of CPCB **"More River Stretches are now critically polluted: CPCB"**. The report comprises 351 polluted river stretches in India out of that 53 polluted river stretches are in Maharashtra. Maharashtra has 9 polluted stretches in priority I and 6 polluted river stretches in priority II. CPCB has considered BOD as a major driving parameter to decide the river polluted stretches. The Board issued directions to 15 Municipal Corporations, 29 Municipal Councils and one Cantonment Board to provide

adequate sewage treatment plant and to achieve the consented standards prescribed by MoEFCC, Gol. After reviewing the water quality data of the designated locations in the rivers of Maharashtra for the period (Jan-Dec) 2018, it is found that the water quality of the rivers in Maharashtra has improved. The revised list of polluted river stretches as per (Jan-Dec) 2018:

Status Of Polluted River Stretches In Maharashtra (January – December 2018)						
Priority	I	II	III	IV	V	NA
Earlier Status	9	6	14	10	14	0
Present Status	4	4	8	15	19	3
Priority I (4)	Godavari, Mithi, Morna, Wainganga					
Priority II (4)	Kalu, Kundalika, Mutha, Bhima					
Priority III (8)	Mula, Indrayani, Mula-Mutha, Pawna, Wardha, Kanhan, Pedhi, Purna					
Priority IV (15)	Nira, Vel, Kolar(Mah.), Krishna, Patalganga, Penganga, Tapi, Darna, Girna, Sina, Titur, Gomai, Kan, Panzara, Rangavali					
Priority V (19)	Ghod, Mor, Venna, Vaghur, Wena, Bindusar, Bori, Chandrabhaga, Hiwara, Koyna, Pehlar, Amba, Bhatsa, Manjeera, Savitri, Surya, Tansa					
Non-Polluted River Stretches (03)	Urmodi, Vashishti, Panchganga					
Dry river stretches	Bori, Girna, Gomai, Hiwara, Kan, Mor, Sina, Titur, Waghur, Panzara					

Now there are only 40 polluted river stretches in Maharashtra.

Environment Dept., Maharashtra Government issued G.R. vide No. NGT 2018/PC-2/TC-3 dtd. 13.12.2018. regarding constitution of River Rejuvenation Committee (RRC) with reference to Hon'ble NGT order, which functions under supervision of Principal Secretary, Environment Deptt., GoM. Committee shall prepare Action Plan including source of pollution and its mitigation. Action Plans of all 53 rivers verified by RRC and submitted to CPCB. Action Plans prepared with the goal of achieving water quality of polluted rivers to bathing standards (i.e BOD < 3 mg/L and FC < 500 MPN/100 ml). Action Plans prepared comprising of all the points enlisted in the Hon'ble NGT Order. RRC has already communicated to 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, plantation on both sides of river, setting up of biodiversity parks on flood plains by removing

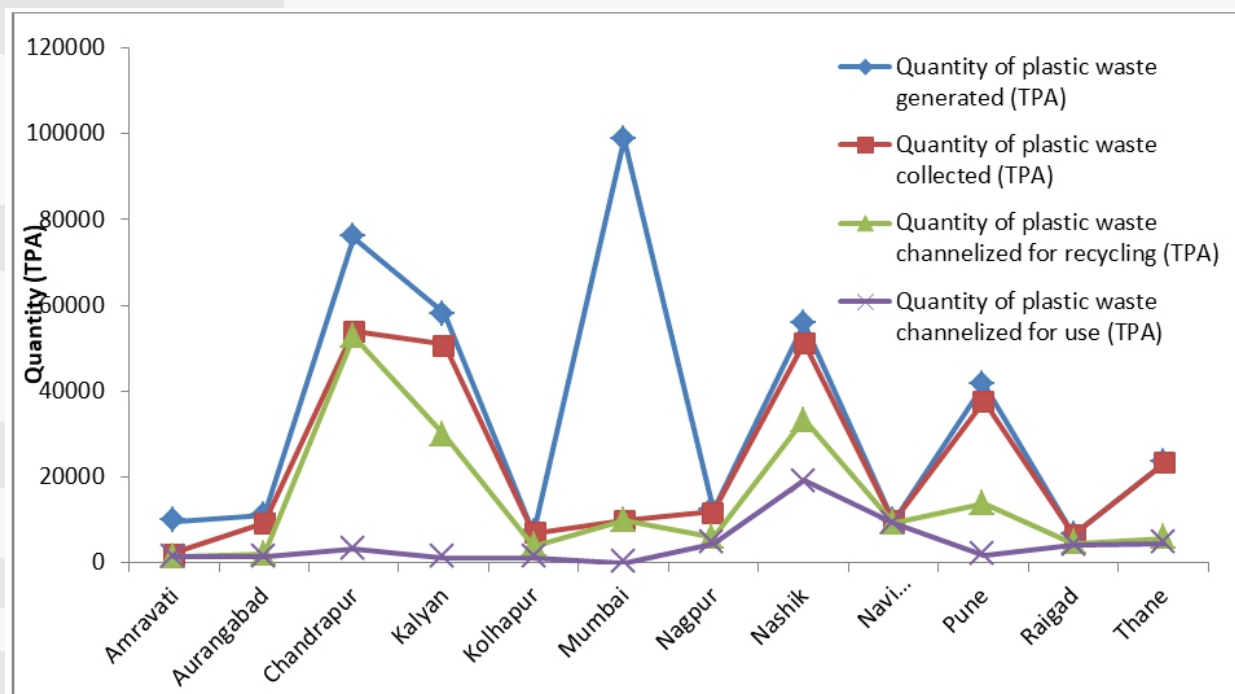
encroachments. RRC has also communicated to Urban Development department to take necessary steps to provide adequate funds to urban local bodies for installation of sewage treatment & MSW processing facilities in a time bound manner. MPC Board has issued directions to 17 Municipal Corporations to penalize to the tune of 1paise/litre of sewage generation under 'Polluter pays principle'. MPC Board has also issued directions to 05 non-complying CETPs to penalize to the tune of 2 paisa/litre for remediation & upgradation to comply with the consented standards.

Thereafter, the Hon'ble NGT issued an order on 28.08.2019 in the matter of OA No. 593/2017 Paryavaran Suraksha Samiti v Union of India and directed to levy Environmental Compensation to the defaulters. Accordingly, the Board has issued directions to 01 Mega city, 09 Million plus cities, 254 Class I cities/towns and 122 Nagar Panchayats as to why Environmental Compensation shall not be levied after the stipulated timeline. The implementation of Action Plans is under progress. RRC has been taking review of the concerned authorities on regular basis.

PLASTIC WASTE MANAGEMENT IN THE STATE OF MAHARASHTRA

Urban local bodies in the Maharashtra state are generating around 4.1 lakh tonnes of plastic waste in year 2018-19. Plastic Waste (Management & Handling) Rules, 2011, came into the force as per the notification published by Ministry of Environment & Forest, New Delhi on 4.2.2011 has been superseded by the Plastic Waste Management Rules, 2016 notified on 18.3.2016.

Government of Maharashtra under the provisions of Maharashtra Non-biodegradable Garbage (Control) Act, 2006 has published new notification named Maharashtra Plastic and Thermocol Products (Manufacture, Usage, Sale, Transport, Handling and Storage) Notification, 2018 for regulating manufacture, usage, sale, storage, transport of the products made from plastic and thermocol on 23.3.2018 and amendments dated 11.4.2018 and 30.06.2018. The region-wise information on plastic waste generation, collected and disposal upto March, 2019 obtained from ULB's Annual Report is represented below:



TENDERS

E-tender 1057: Selection of Solution provider for Intelligent Decision Support System for Pollution Parameters in Maharashtra, Find more details below at ;

<https://allgom.maharashtra.etenders.in/tpoimages/allgom/tender/Tender1057.pdf>

E-tender 1046 Maharashtra pollution control board invites e-tender from the educational institute/college/university/research & development institute/Government/semi Government Agency(CSIR/NABL/CPCB/MOEF & CC approved) for the Biodiversity monitoring and indexing of the rivers for 156 NWMP station located on 56 rivers of Maharashtra, find more details below at;

http://www.mpcb.gov.in/sites/default/files/tenders/RFP_Biomonitoring_Biding_Document06012020.pdf

EVENTS

“Welcoming the Indian Republic Day with an object of protecting the flourishing environment”.

An affirmative step of an innovative public awareness campaign on 26th January 2020.



State dignitaries delivering Oath to school children (from left to right, Shri. Sanjay Bhuskute, the organizer of the event, Hon. Shri. E. Ravindran, the Member-Secretary of MPCB, Hon. Shri. Anil Diggikar, the Principal Secretary of Environment Department, Hon. Shri. Rajendra Shingane, the Minister for Food and Drugs Administration, Hon. Shri. Aslam Shaikh, the Guardian Minister of Mumbai, Hon. Shri. Dhananjay Munde, the Minister for Social Justice, Hon. Shri. Ajit Pawar, Dy. Chief Minister of the State, Shri. Hon. Shri. Adityaji Thakre, Minister of Tourism and Environment Government of Maharashtra, Hon. Shri. Sanjay Bansode, Minister of State for Environment, Hon. Shri. Sudhir Shrivastava, the Hon. Chairman of MPCB, Hon. Shri. Aniket Tatkare, M.L.A., Hon. Shri. Vikas Kharge, the Principal Secretary of the Chief Minister's Establishment.)

Hon'ble Minister of Environment
Shri. Aditya Thackare Deliver speech.



School Children taking oath.



EVENTS

Chitra Rath event held on 26.01.2020, Police Ground, Nashik



A Float on Global Warming.



MPCB PRO receiving first award of Float for the year 2019.



A Float on Global Warming.



EoDB workshop at Ambernath in December '19, Pune & Aurangabad in January '2020



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