

**Daily monitoring of air pollution levels at Casting Yards and Ready-Mix Concrete (RMC)
Plants at projects of MMRDA**

MMRDA ensures compliance of all regulations in place pertaining to air pollution mitigation issued by Govt. of Maharashtra, MPCB, and the various municipal corporations, and also the various orders / directions made by the Hon'ble High Court of Bombay the Suo Motu Public Interest Litigation No. 03 of 2023. MMRDA has also issued various instructions from time-to - time to all the projects.

All contracts of MMRDA provide for detailed guidelines for the mitigation of all types of pollution through the Environment and Social Impact Assessment (ESIA) Report made for the respective projects and these are ensured from the start of the project. These guidelines are monitored and reported through the team of officers and the consultants.

Some of the general preventive measures on the site include:

- Continuous tin/metal wind barriers along the site periphery
- Water fogging using mobile and stationary anti-smog guns during all loading and unloading activities.
- Daily fogging and regular water sprinkling on debris and earth materials are being carried out to prevent airborne particulate matter.
- All vehicles transporting materials are fully covered, possess valid PUC certificates, and contractors are strictly instructed not to overload the vehicles.
- Activities such as cutting, drilling, and grinding are conducted in enclosed areas with continuous water suppression.
- Construction and demolition waste is transported only to designated sites, and vehicles are washed after unloading.
- The soil stacked on ground/ adjacent to road is covered with tarpaulin or green cloth to minimise dust generation.
- Smog guns and water sprinklers remain in use during construction to ensure compliance and protect public health.

At the projects of MMRDA, the areas identified that contribute to air pollution are the Casting Yards and Ready-Mix Concrete (RMC) Plants, Depot areas, and tunnel sites. Accordingly, MMRDA has focused on better monitoring these areas through the installation of sensor-based air quality monitors. These machines are compliant with all relevant guidelines and they are providing online real-time information pertaining to the air pollutions levels on site. The data from the sensors is also compared with the readings provided by the Continuous Ambient Air Quality Monitoring System (CAAQMS) closest to the relevant sites to assess the relative impact of the construction activities on the environment.

The list of locations where sensor-based air quality monitors are installed are as follows:

Sr. No.	Project	Location & Type	City
1.	Metro Line 02B	BKC Casting Yard	Mumbai
2.	Metro Line 02B	Wadala Casting Yard	Mumbai
3.	Metro Line 04	BKC Casting Yard 1	Mumbai
4.	Metro Line 04	BKC Casting Yard 2	Mumbai
5.	Metro Line 04	Kavesar Casting Yard & RMC Plant	Thane
6.	Metro Line 04	Kolshet Casting Yard / RMC Plant	Thane
7.	Metro Line 05	Dappode Casting Yard / RMC Plant	Bhiwandi
8.	Metro Line 05	Kasheli Car Shed Depot	Bhiwandi
9.	Metro Line 06	BKC Casting Yard	Mumbai
10.	Metro Line 06	Ghodbunder Casting Yard	Mumbai
11.	Metro Line 06	Malwani Casting Yard / RMC Plant	Mumbai
12.	Metro Line 07A	CSMIA T2 UG Station	Mumbai
13.	Metro Line 09	Mira Road (Pleasant Park) RMC Plant	Mira Road-Bhayander
14.	Metro Line 12	Casting Yard	Mangaon Village
15.	Orange Gate Tunnel Project	Eastern Waterfront Launching Shaft	Mumbai
16.	TBTT, PKG-2	Casting Yard / RMC Plant	Haware City
17.	TBTT, PKG-2	Portal Site	Manpada

The real-time data generated by the sensor-based air quality monitors are used to monitor and to trigger the immediate mitigation measures at site to regain control on site air quality. Whenever, abnormal readings are observed from the sensors, additional / intensive measures are immediately pushed into action to help mitigate the air quality levels.

MMRDA remains fully committed in its efforts to mitigate the impact of the air pollution mitigation.