

## Strengthening of Weather Observation Network in Mumbai by Regional Meteorological Centre, Mumbai

The **India Meteorological Department (IMD)** is an agency of the Ministry of Earth Sciences of the Government of India. It is the principal agency responsible for meteorological observations and weather forecasting. It plays a vital role in preparing the annual monsoon forecast, as well as in tracking the progress of the monsoon across India every season.

IMD began a modernisation programme more than a decade back, which included a shift in approach from the analog to digital system, installation of Automatic Rain Gauge along with Manual Observation, installation of Doppler radars and increased computing powers. This Enabled us to predict cyclones with accuracy which is at worlds best standards.

IMD Now is initiating “**URBAN METEOROLOGY**” which aims to strengthen infrastructure to collect high resolution weather data in metropolitan cities which will enable us to predict city weather with better Accuracy. As a part of this Endeavour, Regional Meteorological Centre Mumbai, is going to install additional 50 more Automatic Rain Gauge Stations with 20 to be installed before March 21 and remaining before December 2021. These Stations will be installed at various public bodies, and in this regard sought interest and cooperation from schools, colleges, and other organisations for installation of ARG in their Premises. The network will be further strengthened. A brief on ARG is given below.

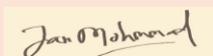
**Automatic Rain Gauge (ARG)** is an automated rainfall measuring system, which measures and reports rainfall, temperature, and humidity in real time at every pre-decided interval; say 15 minutes using a mobile network. Better Resolution rain data allows better city level forecasting of rains helping in several life situation life real time local rainfall forecast. Installation of ARG in schools and colleges will create interest in students in Meteorological Sciences.

In Order to be a part of this program, an institution need to provide location for installation of ARG in their premise, the details of Location are following

1. Area of the ARG Station: 10 ft \* 10 ft
2. Preferably on the ground
3. Preferably Secured.

The installation and maintenance will be done by the IMD. The real time data will be made available for use on websites and on mobile apps. Also, the institutions/ Organisation name will be acknowledged in the portal.

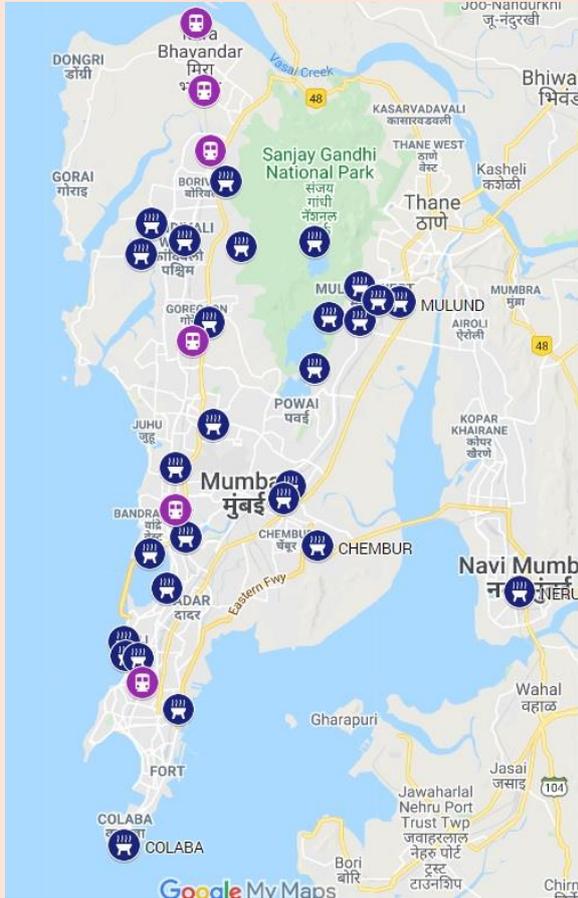
We are thankful for the cooperation we receive from the public and hope an energetic and warm response from the various institutions (schools, colleges and other public organisations) contribute to this Cause which will benefit all the residents of Mumbai. Let us Make our city Mumbai more weather visible and good Quality data in real time is available to citizens especially during bad weather for their planning etc.



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(Left) Location of Existing ARG Stations in Mumbai , (Right ) An ARG Station Installed in Mira Road.