DATE:10.10.2023

PROJECT ID: Proj\_223338\_Team\_4

PROJECT NAME: NOISE POLLUTION MONITORING

PHASE 2: INNOVATION(NOISE POLLUTION MONITORING )

**DEFINITION:**

Noise or sound level monitoring or measurement is a process to measure the magnitude of Noise in industries and residential area. Data collected from Noise level monitoring & Testing helps us to understand trends and action can be taken to reduce noise pollution.

**SOLUTIONS FOR NOISE POLLUTION:**

Avoid very noisy leisure activities, opt for alternatives means of transport such as bicycles orElectric vehicles over taking the car, do your housework at recommended times, insulateHomes with noise-absorbing materials, etc.

**WAYS TO REDUCE NOISE POLLUTION:**

* Horns in public places such as educational institutions and hospitals should beBanned.
* Proper soundproofing systems should be installed in commercial, hospital, andIndustrial buildings.
* The sound of the instrument should be controlled within the desired range.
* Dense tree coverings help avoid noise pollution.
* Do not use explosives in forests, mountains, or mining areas.

**TIPS:**

* Turn off Appliances at Home and offices.
* Shut the Door when using noisy Machines.
* Use Earplugs.
* Lower the volume.
* Stay away from Noisy area.
* Follow the Limits of Noise level.
* Control Noise level near sensitive areas.
* Go Green by planning

**HOW TO CONTROL NOISE POLLUTION?**

Noise pollution can be reduced by turning off appliances when not in use, planting trees, using earplugs, regular maintenance of vehicles & machines etc.

**NPM STEPS:**

* Running TV and Radio at low volume.
* Use less Horns while driving.
* We should plant more trees. Trees cut sound and help in reducing Noise Pollution.
* We should use Loudspeakers at low volume and should not play music too loudly During parties.
* We should not burst crackers.

**MEASURES TO CONTROL NOISE POLLUTION:**

* Designing quieter machines, using acoustic enclosures, and vibration isolators,Increasing the distance of the transmission, and using noise – canceling
* Design and lay out the workplace for low noise emission,
* Use absorptive materials within the building to reduce reflected sound, open cell Foam or mineral wool.
* Keep noisy machinery and processes away from quieter areas.
* Design the workflow to keep noisy machinery out of areas where people spend most of their time.
* Limit the time spent in noisy areas – every halving of the time spent in a noisy area Will reduce noise exposure
* Upgradation in motor engines and other high sound-producing machines,establishing industries away from residential or urban settlements, providing Industrial

**SOLVING:**

**Proper and regular maintenance of machinery and equipment is essential as it will Deteriorate with age and can become noisier. Listen out for changes in noise Levels – it may be time to replace worn or faulty parts.**