

**DATE:10<sup>th</sup> October 2023**

**PROJECT ID: Proj\_223338\_Team\_3**

**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 or electric vehicles over taking the car, do your housework at recommended times, insulate homes with noise-absorbing materials, etc.

**WAYS TO REDUCE NOISE POLLUTION:**

- Horns in public places such as educational institutions and hospitals should be banned.
- Proper soundproofing systems should be installed in commercial, hospital, and industrial 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.**