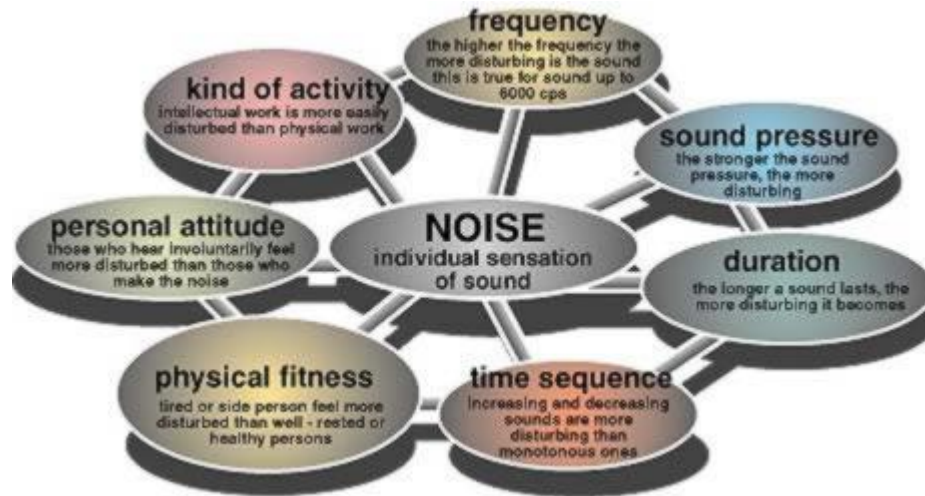


Noise Pollution

It may be defined as unwanted sound which gets dumped

In to the atmosphere without regarding to it' adverse effects.



Causes:

Industrial noise

Most affording noise sources are compressors, generators power looms, grinding mills, furnaces. These are used in many industrial processes and installed partially in closed and open sheds.

Domestic noise

Transistors radio, TV, other musical instruments, Air conditioners, washing machines. They affect users as well as the neighbors.

Traffic noise

Continuous movement of vehicles causes traffic noise. It affects not only those who are moving but also those who live near the roads, railwaylinks, and airports

Effects of noise pollution

1. Physiological effects

Headache increase in the rate of heart beat, pain in heart, emotional disturbances, hearing loss.

2. Annoyance

A noise is said be annoying if the exposed individual or groups of individuals reduce the noise avoid or leave the noisy area if possible. Both loudness and annoyance increase with increasing sound levels.

3. Recently it has been reported that the blood also thickened by excessive noise
4. Impulsive noise also causes psychological and pathological disorders.
5. Ultrasonic sound can affect digestive respiratory cardiovascular system and semi circular canals of internal ear.
6. It causes muscle to contract leading to nervous breakdown, tension etc.

Control measures:

Source Control

1. Modification of source such as acoustic treatment to machine surface designed changes limiting the operational timings.

2. Oiling: Proper oiling will reduce the noise from the machine.

3. Transmission path intervention:

Containing the source inside a sound insulating enclosure, construction of noise barrier or provision of sound absorbing material along the path.

4. Planting of trees:

Planting of trees like neem, tamarind, coconut etc near schools hospitals reduce the noise to the extent of 8 to 10 db.

5. Selection of machinery:

Careful selection of machine tools and equipments to be used may help to lower the noise levels in machine shop.

Source : <http://nprcet.org/e%20content/eee/EVS.pdf>