

Environmental Concerns In Chidambaram Town: Problems, Causes And Solutions

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Abstract

Our Planet faces a variety of troubling issues that stem from man-made contamination. Many of these leads to environmental problems. As time has passed however, scientists have discovered that population growth and rapacious conception of the planet's natural resources continue unabated, they would pose serious threats to the survival of our species, as well as to the survival of millions of others. This paper searches the level of awareness about environment and its problem list among the public of Chidambaram Town and to explore the reason for environment problems and its possible solutions.

Key Words: *Environment, Air Pollution, Water Pollution, Noise Pollution, Water Scarcity, Global Warming*

1.Introduction

Environment derived from a French word “Environia” means to surround so the environment is nothing but everything around us which comprises of living as well as non-living things. These two interacting with each other. Environment consists of Atmosphere, Hydrosphere, Lithosphere and Biosphere. Its main components are Soil, Water, Air, Organisms and Solar Energy. Environment regulates the life of organisms including Human beings by providing all the resources. Environmental problems lead to changes in the environment as a result of human interference/activities which directly or indirectly affects the lives and health of humans and collapse the balance of our ecosystem. Human beings interact with the environment more vigorously than other living beings.

Environmental pollution is one the greatest challenges that the world is facing today. It began since industrial revolution, increasing day by day and causing irreparable damage to Mother Earth. Several activities by humans impact the environment in various ways. Few effects are increased air pollution, decreased water quality, greenhouse gas emissions, deforestation and depletion of natural resources which in overall contributing to global climate change. The result of such activities is shrinkage of water sources, changes in food supply, severe weather, Geographical alterations like coastal rise which are leading to an end of human existence. All over the world we the people facing few challenging and new issues every day from mild alteration in ecosystem to severe change in landscape. Floods, droughts, increased sea levels, more number of cyclones are not only due to global warming but also human activities/interferences. If we continue the same activities there will be no future for us in this world.

People should be aware of the types of environmental problems they are facing. If they realize that the reasons for it is themselves they can think and come forward to take initiatives

to alter their mistreatments of natural resources by altering their daily activities and also let their friends, colleagues, relatives & neighbours to avoid it.

There are several ways people can initiate their activities to minimize their adverse impact on environment. By supporting the right causes and selecting sustainable choices like reducing water waste, using less energy consumption it slowly leads to positive impact on our environment which let us to live a healthy and happy life in this planet and no need to search for another one.

2. Objectives

- ❖ To know the level of awareness about environment and its problem listamong the public of Chidambaram Town.
- ❖ To explore the knowledge of chidambaram town's people about reason for environment problemsand its possible solutions.

3. Methodology

3.1 Study Area- Chidambaram Town

This study is undertaken by Questionnaire method.

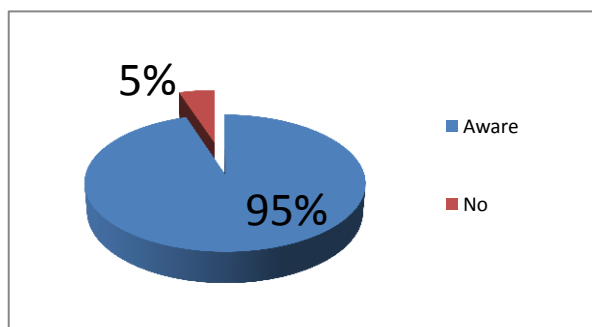
Here the universe of sample is 62,153. From the universe, I have taken 622 (10 %) by simple random sampling method.

3.2 Result and Discussion

List of Environment issues/problems obtained from respondents

- 1) Air Pollution
- 2) Water Pollution
- 3) Noise Pollution
- 4) Water Scarcity
- 5) Global Warming
- 6) Soil Erosion
- 7) Climate Change
- 8) Waste disposal
- 9) Deforestation
- 10) Land Pollution

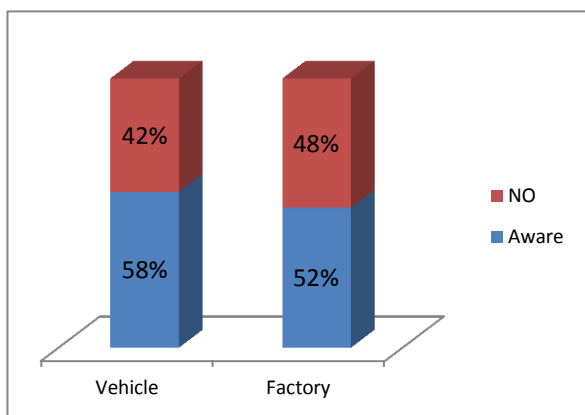
4. Air Pollution



4.1

Awareness

Among the respondents 95 % are aware of Air Pollution and only 5 % are not aware.



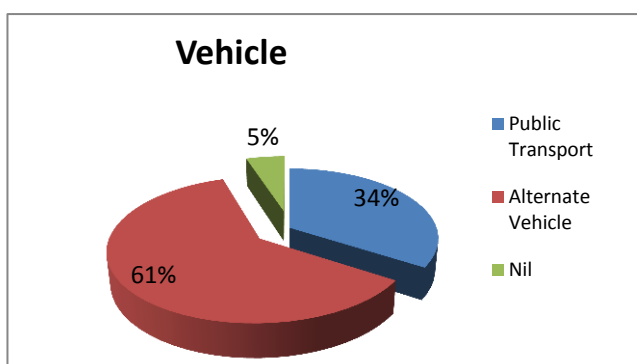
4.2

Causes

58 percentage of people said that the vehicles are the main cause of Air pollution

52 percentage of people said that the Industries and Factories also the major cause of Air Pollution.

42-48 percentage of respondents not having any idea about the reason for Air Pollution.

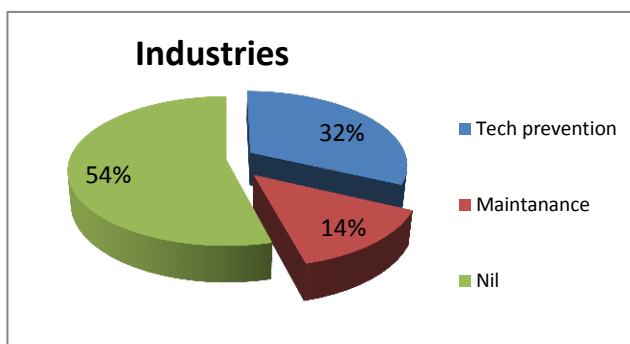


4.3

Solutions

61 % suggested alternate energy vehicle.

34% suggested to increase the usage public transport



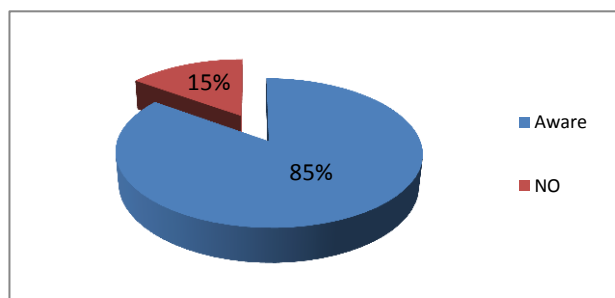
4.4

Solutions

32 % suggested technical prevention like filtering the chimney, etc

14% suggested regular maintenance of machineries

5. Water Pollution

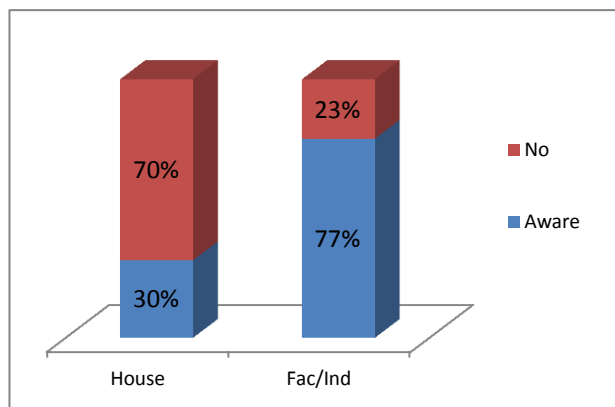


5.1

Awareness

85 percentage of people known that water pollution is a major environmental problems

15 percentage are not aware of it.



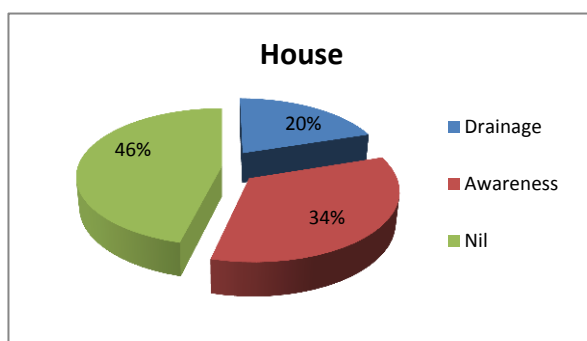
5.2

Causes

77 Percentage said factory drainage is the major cause of Water Pollution

30 Percentage said wastes from houses also causing Water Pollution

Nearly 25 Percentage are not having any idea of factors causing water pollution

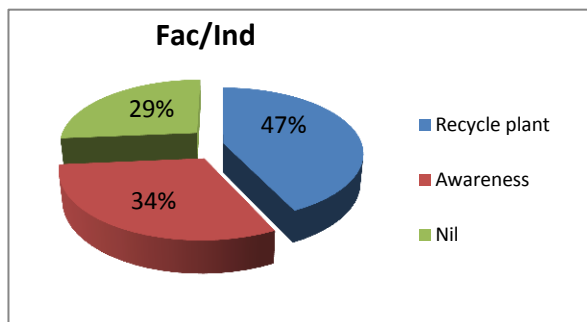


5.3

Solutions

20 % suggested proper drainage for houses and buildings

34% suggested to give awareness to the public



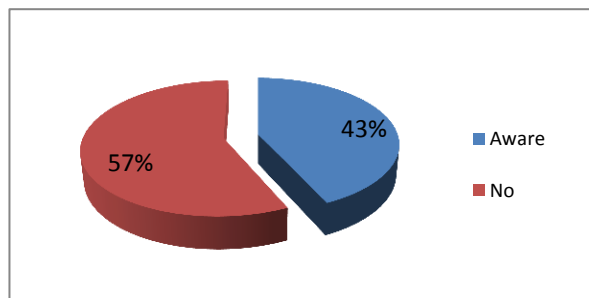
5.4

Solutions

47 % suggested to have recycle plant at factories

34% suggested to give awareness to the workers and officials of factories and industries

6. Noise Pollution

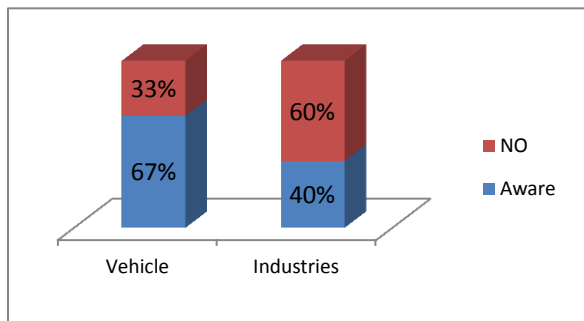


6.1

Awareness

43 percentage of people known that noise pollution is also one of the environmental problems

57 percentage are not aware of Noise Pollution.

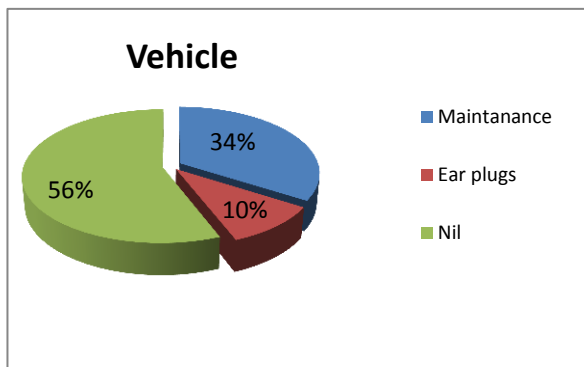


6.2

Causes

67 Percentage said Vehicles are the major cause of Noise Pollution

40 Percentage said Industries/factories are the major cause of Noise Pollution

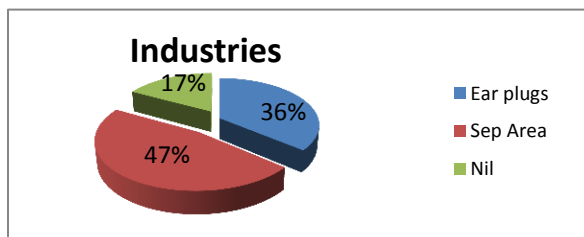


6.3

Solutions

34 % suggested proper maintenance of vehicles

10 % suggested the usage of ear plugs



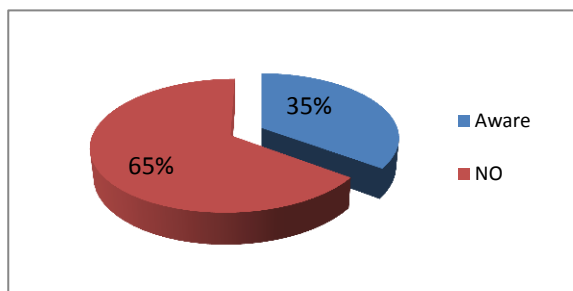
6.4

Solutions

47 % suggested that the industries should be at a separate area

36 % suggested to use ear plugs.

7. Water Scarcity

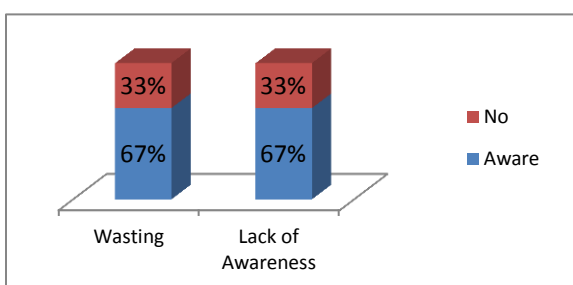


7.1

Awareness

35 % are aware that water scarcity also an environmental issue

65 % are not known that water scarcity also one of the environmental issues.



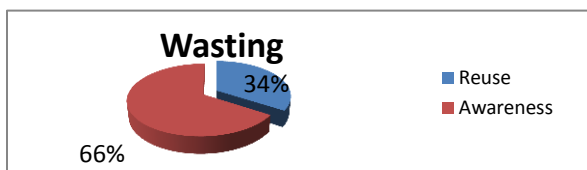
7.2

Causes

67 % said that wasting is the main cause of water scarcity

67% also said that lack of awareness among people, officials and politicians causing water scarcity

33% not aware of the cause for water scarcity

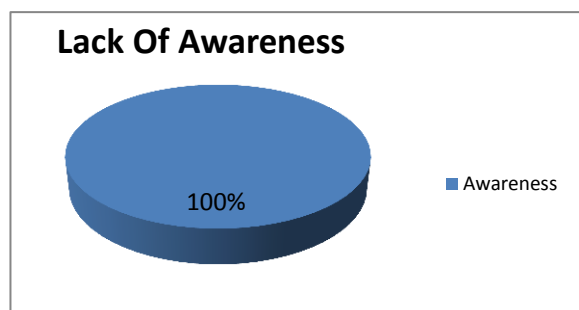


7.3

Solutions

66 % suggested to give awareness to reduce wastage

34 % suggested to reuse

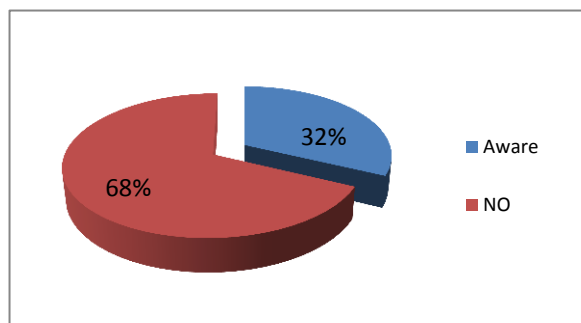


7.4

Solutions

100 % suggested to give awareness programs to increase knowledge of water usage.

8. Global Warming

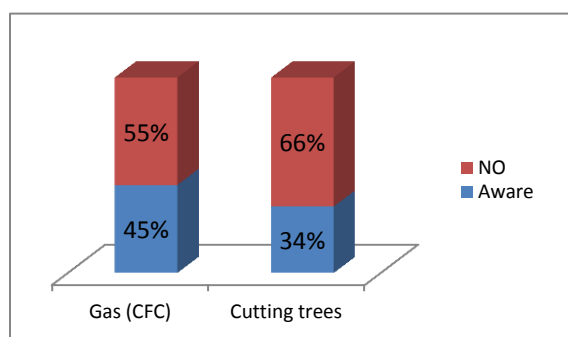


8.1

Awareness

32 percentage of people are aware of Global Warming

68 percentage of people are not known that Global Warming also one of the environmental issues

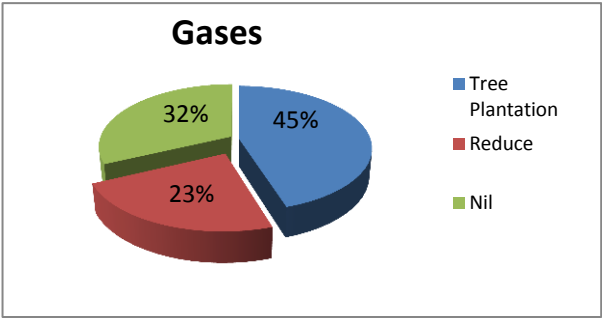


8.2

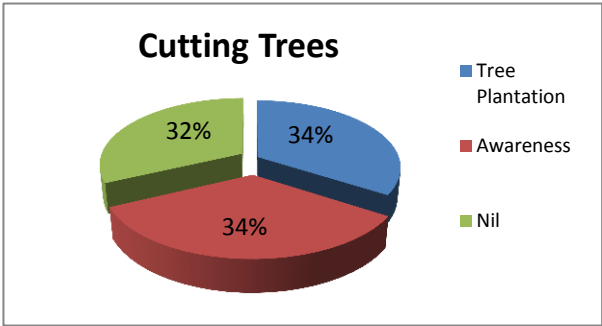
Causes

45 percentage claimed gases (chlorofluorocarbons) are main reason for global warming

34 percentage are thinking that cutting the trees is the major cause for global warming

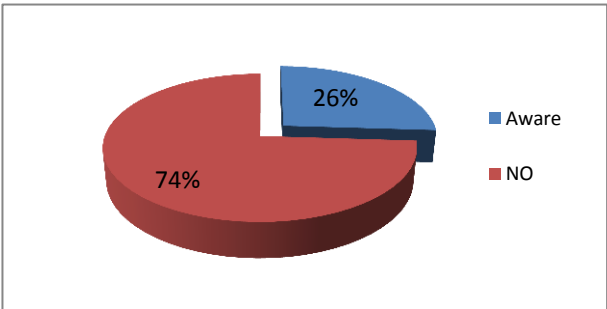


8.3 Solutions
45 % suggested to plant trees to reduce global warming
23 % suggested reducing the usage of CFC emitting machineries.

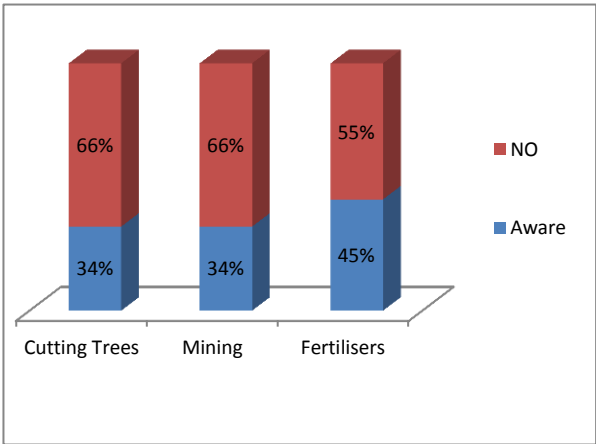


8.4 Solutions
34 % suggested to plant trees to reduce global warming
34 % suggested to give awareness to reduce the cutting of trees

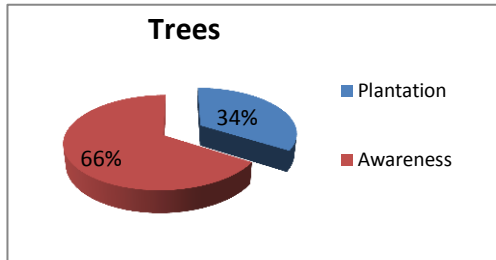
9. Soil Erosion



9.1 Awareness
26% are listed down soil erosion also an Environmental Issue
74% are not aware of soil erosion’s connection with environment



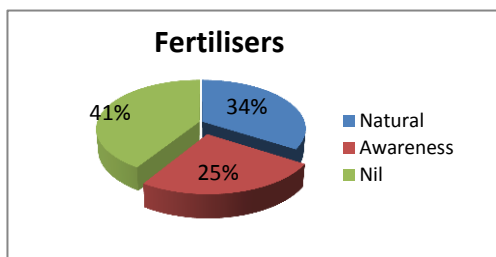
9.2 Causes
45% said chemical fertilizers usage is the main reason
34% said mining is also the main reason
34% said cutting the trees is the main reason



9.3

Solutions

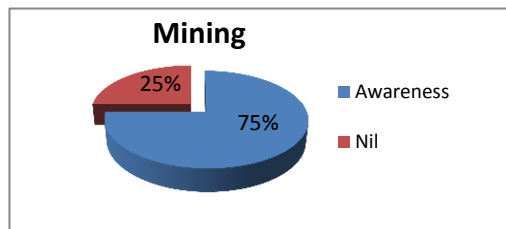
66% suggested awareness will give good result
34% suggested plantation of trees also give good result



9.4

Solutions

34% suggested Using Natural fertilisers
25 % suggested awareness will be an option



9.5

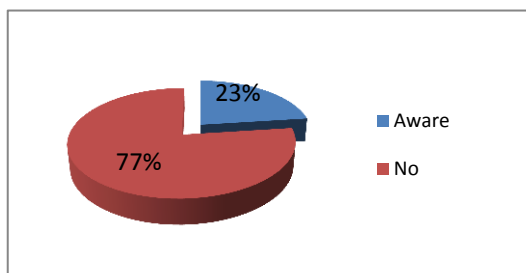
Solutions

75% suggested awareness will give good result

10.

Climate

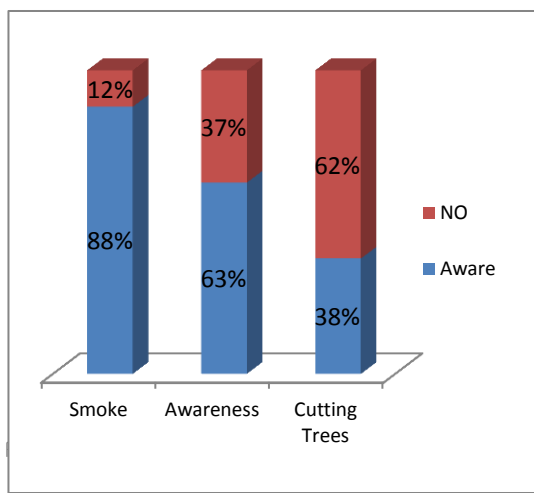
Change



10.1

Awareness

23 Percentage of respondents only accept that climate change also an Environment problem.
77 percentage are not aware of the connection between the climate change and environment .

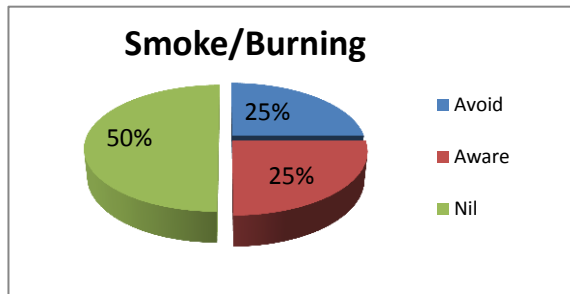


10.2

Causes

88 % said that Smoke from factories /vehicles and burning of wastes are major cause
63% addressed that lack of awareness also the main reason

38 % insisted that cutting down trees also cause climate change

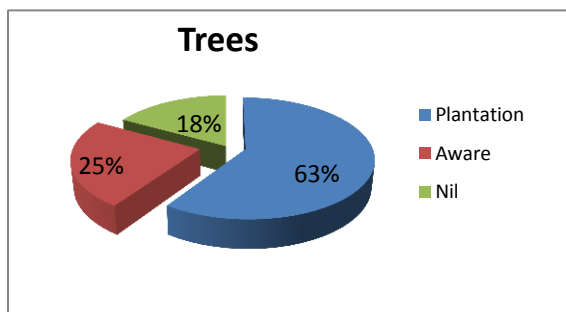


10.3

Solutions

25 % suggested to avoid burning of fuels and fossil fuels.

25 % suggested to give awareness to public and officials.



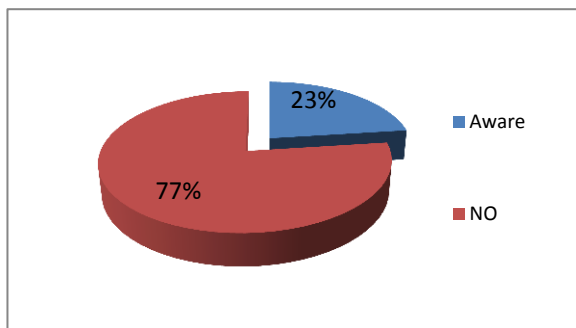
10.4

Solutions

63 % suggested to plant more trees

25 % suggested to give awareness to all

11. Waste Disposal

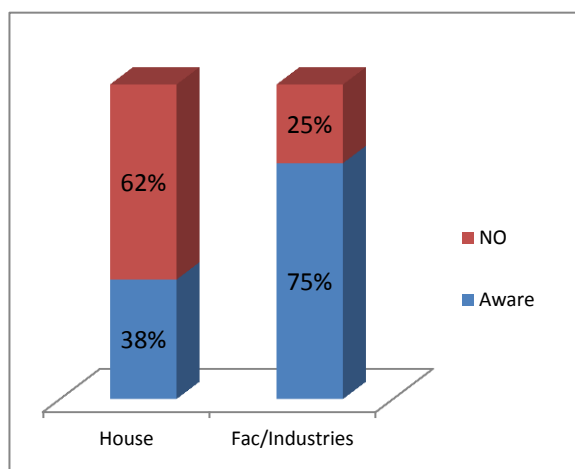


11.1

Awareness

23 percentage of people aware of waste management

77 percentage are not aware of waste's impact on environment

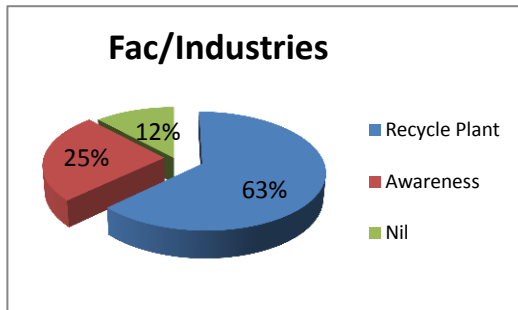


11.2

Causes

75 % knows that Factories discharge cause more adverse effect on environment

38 % said that improper wastes disposal by houses also a major threat to the environment

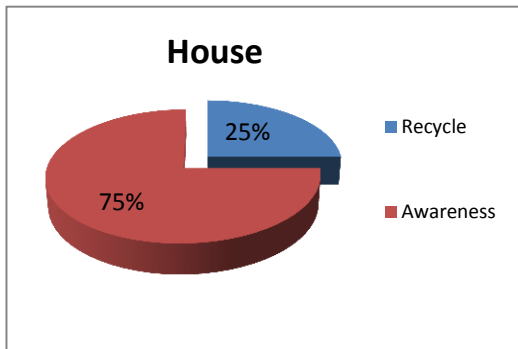


11.3

Solutions

63 % suggested to have and maintain waste recycle plant

25 % suggested to give awareness to workers/officials



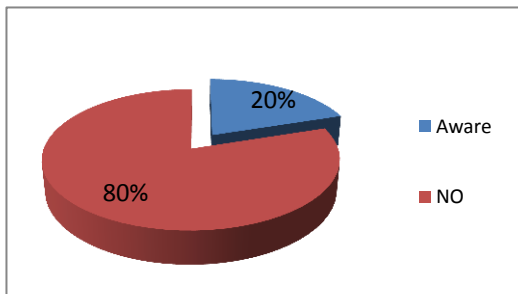
11.4

Solutions

75 % suggested to give more awareness to all public people

25 % suggested to recycle ,reuse and reduce the wastage

12. Deforestation

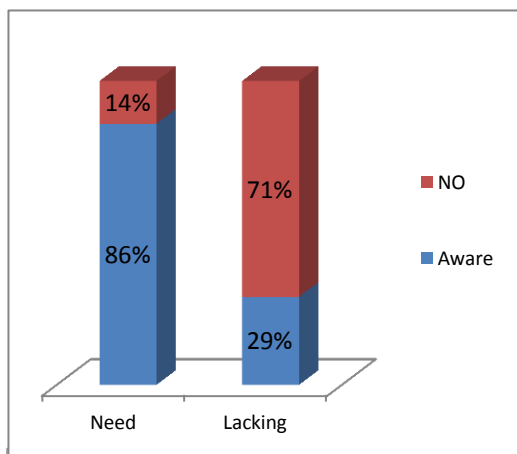


12.1

Awareness

20 percentage of people only aware of deforestation which alters environment

80 percentage are unaware of deforestation

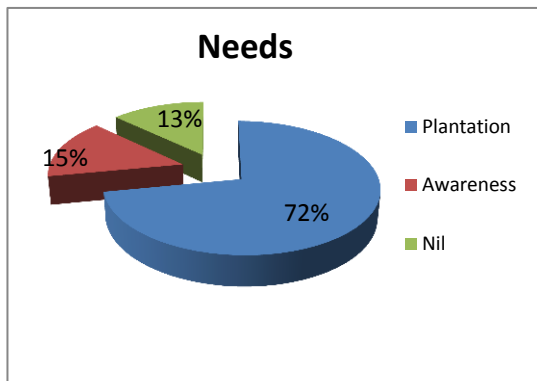


12.2

Causes

86 % addressed that there is always need of empty place and wood products is very high

29 % said that lack of awareness about forest's importance.

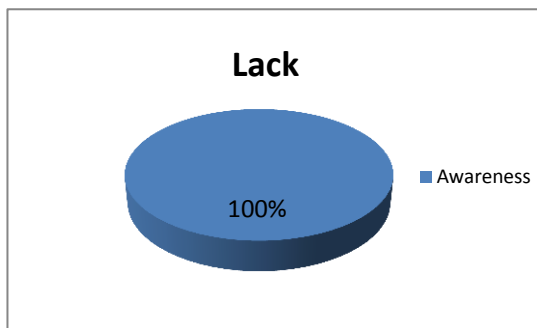


12.3

Solutions

72% suggested to plant more trees

15 % suggested to give awareness to reduce wood products

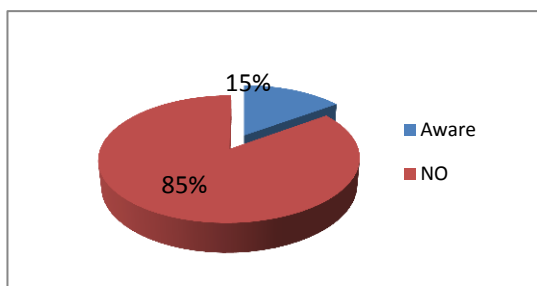


12.4

Solutions

All suggested to give awareness about the deforestation's impact

13. Land Pollution

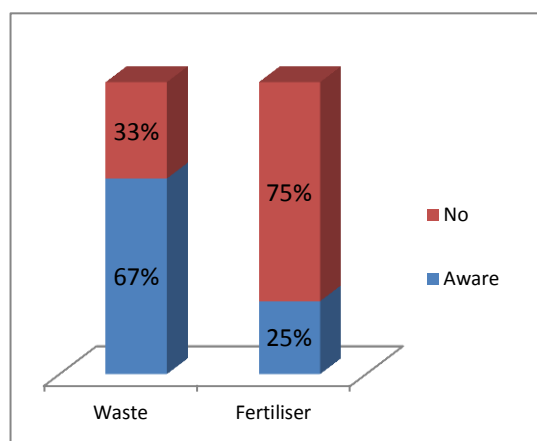


13.1

Awareness

15 percentage only aware that the land pollution disturbs the environment

85 percentage are not aware of land pollution's impact

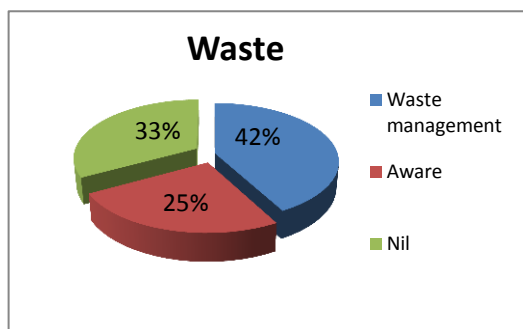


13.2

Causes

67% said that waste disposal is the major cause of land pollution

25 mentioned that chemical fertilizers also leads to land pollution

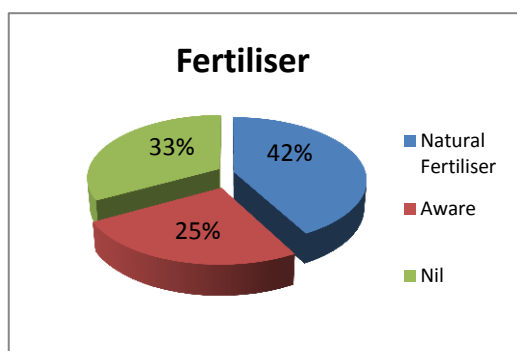


13.3

Solutions

42 % suggested that proper waste management system is enough

25 % suggested that people should get awareness about proper disposal of wastes



13.4

Solutions

42 % suggested to use natural fertilisers to reduce land pollution

25 % suggested that people should get awareness

14. Conclusion

Air Pollution and water pollution are the issues which known by most of people more than 85 % of respondents. Noise pollution and water scarcity known only by nearly 35-45% of respondents. Only nearly one fourth of the respondents are addressed that globalwarming, climatechange, waste disposal and soil erosion are also environment issues. More than 80 % of respondents are not aware of deforestation's and land pollution's impact on environment.

From the suggestions, we came to know that people are aware of ways to reduce the pollution by using alternate energy vehicles, public transports, and maintenance of machineries and recycle plants at factories, proper drainage facilities, proper waste disposal, tree plantation, avoiding CFC emitting machineries and chemical fertilizers.

Another major important suggestion from most of the people for all environmental problems is awareness programs. So, we have to concentrate more on awareness programs at various levels to minimise environmental issues.

Acknowledgements

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