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A study on factors which create pollution and its impact on society reference to erode

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ABSTRACT

The study conducted on the pollution and its impact on human health in pechondampalayam panchayat, Erode is to measure the effectiveness on the level of satisfaction of various pollution problems.

Questionnaire was used as a tool to find out the opinion of the respondent regarding preventive measures, pollution awareness, cleanliness and protecting themselves from health issues. Probably the first experience of the human beings from the impact of pollution might have taken place due to the surroundings in their routine life. Since then our planet Earth has suffered much from man-made pollution.

The natural environmental contains everything required for the survival, growth, and development of the living beings on earth.

I.INTRODUCTION

Over the last three decades there has been increasing global concern over the public health impacts attributed to Different types of pollution, in particular, the global

burden of disease. The World Health Organization (WHO) estimates that about a quarter of the diseases facing mankind today occur due to

prolonged exposure to pollution. Most of these pollution-related diseases are however not easily detected and may be acquired during childhood and manifested later in adulthood. Improper management of drainage system, burning of plastics, smoke from the vehicles, are the main causes of pollution and degradation in many cities, especially in developing countries. Many of these cities lack solid waste regulations and proper disposal facilities, including for harmful waste. Such waste may be infectious, toxic or radioactive. Municipal waste dumping sites are designated places set aside for waste disposal.

II.POLLUTION

Pollution is a bane for society or life. All sorts of pollutions like air pollution, water pollution, sound pollution, noise pollution, food pollution have been affecting greatly. Pollution is the mixing of some harmful or poisonous materials into the natural resources available on the earth. It affects the ordinary living of the living things on this planet by disturbing the natural life cycle.

III.Keywords:Pollution types includes:

- ❑ Air pollution, Water pollution, Food pollution, Sound or Noise pollution, Land pollution or Soil pollution, Thermal Pollution, Light pollution

The air we breathe every moment causes several lungs disorders. Environmental pollution is the biggest problem in the modern time we are facing. It affects us in all aspects such as socially, economically, physically, mentally and intellectually. Contamination of the natural environment gives birth to the lots of diseases which make human beings weak mentally and physically. Air is one of the most important elements of our environment for our survival. It is a natural gift and a free asset. It is polluted in many ways. Land vehicles use oil and fuel which create smoke. The smoke gets mixed with air and thus pollutes air. Mills, factories and industries are also held responsible for air pollution because they create smoke. Excessive rise of gases and chemical pollute air. Water is also one of the survival elements for the living beings. Water is polluted by the garbage of mills, factories and industries. Sometime, farmers use insecticide and fertilizers excessively. The drinking of this polluted water is detrimental to life and health. Most Food and snacks ready for sale at the pavement, street corner alongside the road are uncovered and dirty. They are cooked with polluted air. People are tempted to eat and taste them because of their habit and greed. These unhygienic foods are also harmful for our health. Basically, any pollutant that comes in contact with food has the potential to pollute the food. Sound pollution is very common to everywhere. The noise of vehicles, mills, factories, industries are really unbearable. Degrading the earth's surface by improper commercial, industrial, agricultural and domestic activities is known as land pollution. Dumping of e-wastes and other industrial wastes into the land causes land pollution. Thermal pollution is the degradation of water quality by any process that changes ambient water temperature. A common cause of thermal pollution is the use of water as a coolant by power

plants and industrial manufacturers. Light pollution, also known as photo pollution, is excessive, misdirected or artificial light. As a major sideeffect, it is blamed for health.

IV. REVIEW OF LITERATURE

Environmental protection and rational use of natural resources and other industrial raw materials has become an important sphere of mankind's advancement in the 20th century. Mankind's demand for resources and raw materials has intensified the ecological and economic contradictions in the industries (Sen and Chakraborty, 2009). This wide spread industrialization in urban areas has drastically reduced land area for waste disposal. Disposal of untreated industrial and domestic wastes into the environment affects both soil and ground water quality. Soil and streams have been used for multifarious purposes including waste disposal. Our careless dumping of wastes has affected these precious resources (Quazilbash et al., 2006). Actuality of ecological problems is emphasized by mankind's growing concern for the damage caused to the environment. The main aspect of this concern is linked with the preservation of living being on our planet (Kolomaznik et al., 2008). The industrial effluents consist of organic compounds along with inorganic complexes and other non biodegradable substances.

The quality of physicochemical and biological characterizations of water is an index to provide a complete and reliable picture of the conditions prevailing for tropic status in the water bodies. For present study following published literatures have been reviewed viz., water pollution causes, effects and control studies by (Goel, 1997). In which the

authors have presented various types of water pollution and the major sources and control of pollution. "Pollution and Biomonitoring of Indian Rivers" (Trivedy, 2000), was also reviewed, similar studies regarding the "Introduction to water pollution Biology" have been presented by (Schmitz, 1995), (Tripathi and Pandey, 1995) in "water pollution" observed the effect of heavy metal on algae and correlation was shown between nutrient and phytoplankton.

Indeed, the attraction towards lower cost sensors is so great that widespread data collection and data sharing using new sensors are already occurring even before sensor performance has been characterized. However, challenges remain, regarding the use of sensors and sensor data, chiefly sensor data quality and derivation of meaningful information from data sets. However, recent advances in nano-technology have facilitated synthesis of materials with new properties by means of the controlled manipulation of their microstructure on a nanometer scale, enhanced the gas sensing properties thereby increasing the performance of solid state gas sensor.

V.OBJECTIVES

- ❑ To determine the factors affecting the human health without any awareness and protection.

VI.RESEARCH METHODOLOGY

Sampling Design:

The sampling design used in this study is sampling. The sample size has been 300 psychological effects of pollution which have been selected in Pechondampalayam Panchayat, Erode and data is collected for solving particular problem through well structured questionnaire.

VII.DATA ANALYSIS

RANKING METHOD

A **ranking** is a relationship between a set of items such that, for any two items, the first is either 'ranked higher than', 'ranked lower than'. The rank has assigned from the highest values to the lowest values.

The total value has been calculated by using the weighted average calculation. An average resulting from the multiplication of each component by a factor reflecting its importance. The formula used to calculate Weighted average is

$$\bar{x} = \frac{w_1x_1 + w_2x_2 + \dots + w_nx_n}{w_1 + w_2 + \dots + w_n}$$

w is the number of occurrences of x.

X is the repeating value.

But here only we calculate

$$x = w_1x_1 + w_2x_2 + \dots + w_nx_n$$

Eg; For Tools noise - $(0*1) + (14*2) + (18*3)$

$$+ (61*4) + (207*5) = 1,361$$

Table 1.1 OPNION ABOUT IMPACT OF POLLUTION

INFERENCE:From the above table shows that, “Tools Noise” was ranked as first with a total score of 1,361, “Health issues” was ranked as second with a total score of 1,324, “Smoking smokes” was ranked as third with a total score of 1,307,” Salt water” was ranked as fourth with a total score of 1,284,”Many affected” was ranked as fifth with a total score of 1,277,”Heavy plastic” was raked as sixth with a total score of 1,253,”Dog noise” was ranked as seventh with a total score of 1,250 respectively.

FINDINGS

1.From the analysis it is evident that the Tools noise was ranked as a first problem with a total score of cancer 1361.Health issues was ranked as second with a total score of 1324.Smoking smokes as third, Salt water as fourth, Many affected as fifth, Heavy plastic as sixth and Dog noise as seventh with a total score of 1307, 1284, 1277, 1253, 1250 respectively by the **problems faced by the respondents due to pollution.**

SUGGESTIONS

- ❑ Some precautions like less horn sounds and devices that which does not disturb the public can be identified.
- ❑ The health awareness program can be conducted to make the people to aware about their health and to control the pollution.
- ❑ The recycling process like implementation of proper dustbin system for each 25 meter distance can be introduced.
- ❑ A device which filters those salt directly from the water that gets through pipeline helps to protect the water pollution.

CONCLUSION

In conclusion, it would be safe to say that pollution is very important to be controlled if life is intended to be sustained on the planet. It may be in different forms but if the masses can be properly informed and educated along with strict legislations,

Opinion	R1	R2	R3	R4	R5	Total	Rank
Tools noise	207 (1,03)	61 (244)	18 (54)	14 (28)	0 (0)	1,361	1
Dog noise	87 (435)	184 (736)	22 (66)	6 (12)	1 (1)	1,250	7
Salt water	142 (710)	112 (448)	37 (111)	6 (2)	3 (3)	1,284	4
Heavy plastic	108 (540)	155 (620)	24 (72)	8 (16)	5 (5)	1,253	6
Smoking smokes	163 (815)	103 (42)	18 (54)	10 (20)	6 (6)	1,307	3
Many affected	134 (670)	124 (496)	31 (93)	7 (4)	4 (4)	1,277	5
Health issues	168 (840)	106 (424)	11 (33)	12 (24)	3 (3)	1,324	2

pollution can be controlled. Various countries have adopted some effective laws on pollution reduction however that are not enough to defeat this powerful demon. This needs conjoint governmental actions of all the countries to completely eliminate it. High level awareness should be spread to the common people to get their needed effort. Each and every person of the country should be aware and watchful of this problem, its causes, and harmful effects to the living beings. Common people should be made aware by the educational institution and government agencies through camps or other means to use environment friendly things and habits to save the environment and keep it health.

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