Assessing Approaches of Individual on Water Pollution Awareness & Prevention

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Abstract

Water pollution is been a rising issue which has result due to rising Industries that is been producing at large supply, this relationship is directly proportional. Many industries with productions of substance create huge wastes which gets influx to water sources ,evenly at micro scale Many human activities has led this Pollution drive at high rate. Often the sources which is been polluted by various waste is been source to our daily life needs controlling at this level could be highly significant and at same time effect and prevention could be estimated.

The following survey explored the awareness of water pollution and opinion of participants in finding the causative activities behind this and a suitable and on time action one can adopt for prevention. We estimated that 43.3% individual participants are informed about water pollution its brief effect, symptoms and have a sense to adapt and implement actions regarding water being contaminated. Discussion on perfect means of media for propagating idea of water shell life too play a role, a huge percentage of 65.6% participants favours idea of strong propagation of idea of spreading awareness through digital ways.

People at every Occupational level favours certain practices should be discarded with better and advance needs practices to take in position for fastidious growing pollutants.

Keywords: Water Pollution, Industrial Waste,Pollutant

Introduction

Water which has been compromised of 0.5% of earth surface and have a volume of $2.84*10^5$ km3 is the surreal part of Human life without this imagining life would be impractical It is impossible to substitute for most of its uses, difficult to substitute to de pollute, expensive to transport and it is truly a unique gift to mankind from nature (1). often there are many sources of water such as oceans ,river, ponds ,lakes are the major sources which man have utilized for needs whether it's for   farming, building infrastructure ,Survival ,urbanization   to tourism. Along with human life, this becomes important to understand that many lives such as Aquatic and Botanical lives depend on sources of water .a highly pollutant sources could endanger the species.(2)

Safe drinking water is necessary for human health all over the world.being a universal solvent water is major source of infection. according to WHO (world health organization)80% diseases are water borne.3.1% death occurs due to the unhygienic and poor water water Quality of water(3)

Over the time in this century a hard impact due to natural calamities or human activities has spoiled it to a large extent and this in vice versa had impacted our Human live at same time. Over the time it is important to discuss the issue and address how the origin of this resources near to us is been impacted? How much the consequence been detrimental to Human lives at different age group? species which had been or subject to endanger. This Survey would guide us in way of understanding the origin of water pollution from perspective of people and deep impact from a consumption level to its effect on products which are dependable on it. Approaches that can be defined at absolute level so it could be practice from routine to habit level so the pollutants could be separated at effected way.

This study would also interpret the most common group of people affected even the effects one see due to water pollution at the people perspective.

Material and Methodology

The Survey was taken through Google forms in which there were 15 Questionaries' .The participants are selected from various cities. The questionnaire deals with kinds of effects seen, the action by any institution, the common sources one finds easily polluted and effect on age group, health hazards one faces, Opinion on regulation.
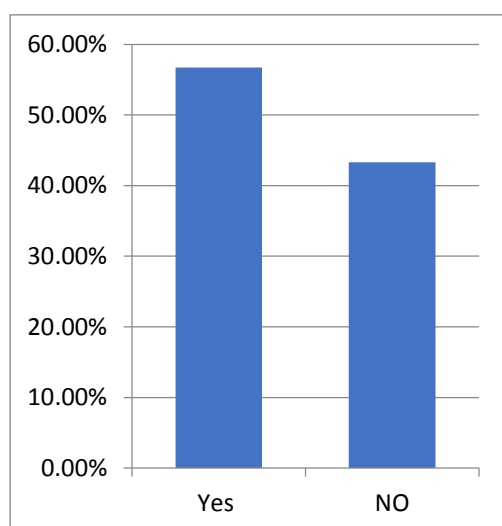
The participants could share their opinion in Yes or No and could suggest their suggestion in sentences.

Result and Discussion

There were total 13 female participant between age group of 18-25 and 19 Male participant between age group of 19-25 with all being students, Professional workers.
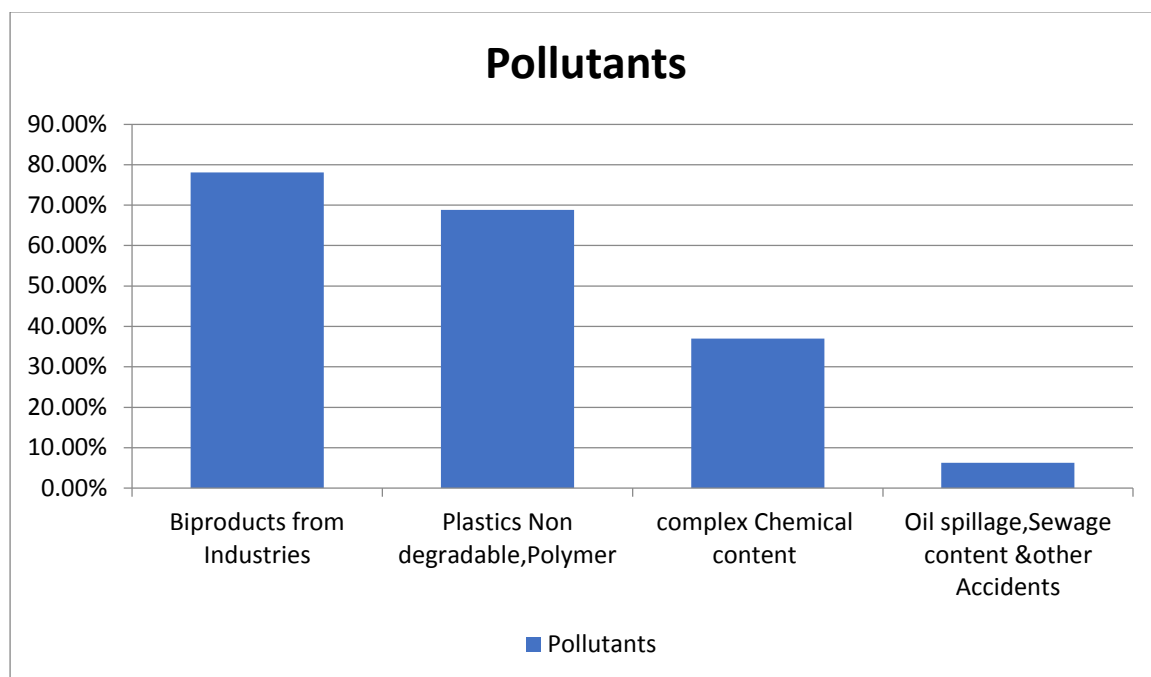
Most common Questionaries' includes…

1) Is your Area experience water Pollution?



(1.1)

2) Opinions on common cause of Water pollution?

Pollutants

Biproducts from Industries: ~78%
Plastics Non degradable, Polymer: ~69%
complex Chemical content: ~37%
Oil spillage, Sewage content & other Accidents: ~6%

■ Pollutants

(1.2)

Public Awareness	Result		
Site prone to Water pollution	Oceans/Ponds (46.9%)	Holy Rivers (28.1)	Public Parks/Ponds (21.9%)
Age Group	Old age (40%)	Pregnant Women (10%)	Children Infant (50%)
Symptoms Seen	Hallucination/Dehydration/Paralysis	Effect on Embryo	Mineral deficiency/ Improper digestion

(1.3)

Effects Recorded (1.4)

Aquatic /Domestic Animals	• Unavailability of Fresh Drinking water causing health issues • Poultry animals remains unproductive • Species shell life is reduced • Low levels of BOD recorded
Farming /Crop Cultivation	• Soil faces unproductive /Seeds in germinate • High toxic Chemicals presences in Products are embedded
Diseases Arising	• Malaria • Chikungunya • High element in Soft water leading Acidosis

3) Approaches on encountering Water Pollution?
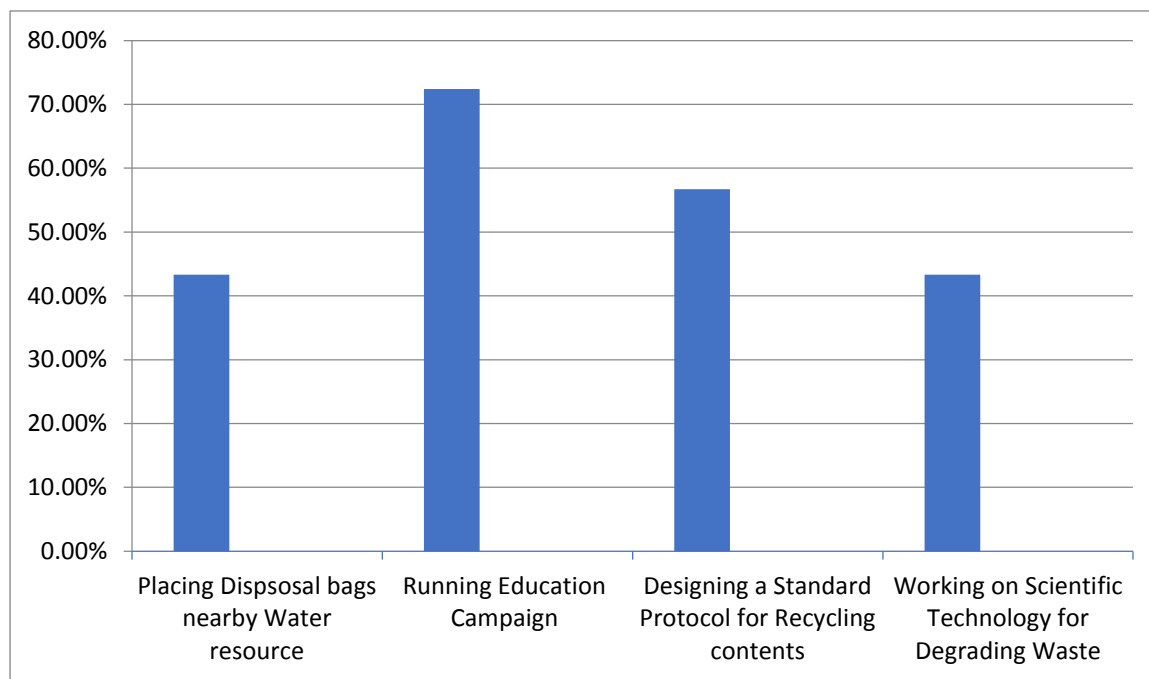
(1.5)

The above quantitative data shows that Water pollution is been issue where its effect it majorly considered on Pregnant women more, where a significant in Infants and old age respectively .The form of Chemical composition of polluted water from Specific area could be estimated chemically in laboratory. It seen that people defines Chemical effluents from Industries a major trigger of Water pollution and this gives a Deep scope to better separation technique for segregation to main Source else non bio degradable remains to come into picture for cause.

Conclusion

This Survey aims to understand the importance of water pollution Awareness. we found out that people are Aware to Source gets effected by major reasons. Around 56.7% agree with encountering water pollution to a level and giving thought to approachable measures. Around 85% people estimated that Industrial outputs are the major causative agents to pollution of water resources. The following survey estimated that children's / infants are the major age group who encounter effects water pollution. The significant effects could be loss of minerals, indigestion, malnutrition etc. So a harsh impact can be avoided if the source of drinking is not polluted.

Participants accepted that online platforms are much easy to propagate their views, on water pollution analysis. Arsing issue of water pollution could be conveying through online social platforms, cleanliness drive too can be boosted.

REFRENCES

1. M.Romeo Singh and Asha Gupta January 2016. Water pollution effects,sources and Control ,

Research Gate

2. Shahid Ahmed and Saba Ismail March 2018.Water pollution and its Sources effects and Management-Journal of Current Advance Research

3. Dr.Diane E.Schmidt –Urban Water Quality Survey 2005&2007 –A combined Data Codebook Chico.USA

4. Aamod V desai , Shivani Sharma and Sujit .K. Ghosh July 2019-Metal Organic Framework for Recognition & Sequestration of Toxic Anionic Pollutants

5. Anil K.Diwedi January 2017-Researches in Water Pollution A review-International Research Journal of Natural and Applied Sciences Volume 4 pg no.142