Development of learning packages for creating awareness among the society with reference to groundwater pollution by leachate using a case study of waste treatment plant at Nashik

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It is a fact that various activities of humans are exceeding the sustainable capacity of the earth. Increased urbanization and industrialization are adversely affecting the environment; hence the 'sustenance' of the environment is essential to continue life on earth in a normal way. The main approach towards environmental sustainability in this regard is pollution protection. Domestic solid waste is becoming troublesome day by day to the majority of municipal corporations in different countries, it is hence necessary to know the specific waste processing methods. If not processed what will be the fate of waste? How it is responsible for water, land & air pollution? Development of awareness within the population regarding this subject is proposed work of this project & this will be accomplished by using a case study of waste treatment plant at Nashik. To achieve this goal, communication proves to be useful media as the Purpose of communication is to influence, to affect with intent by creating comprehension, understands and perceive use of the message.

A case study of waste treatment plant at Nashik-The Nashik Municipal Corporation for converting garbage into compost and for landfilling has established a compost factory. An environmental impact study being carried out mainly to assess the groundwater pollution near Municipal solid waste landfill site to predict potential contamination of groundwater resources by leachate, this study investigated groundwater quality close to landfill sites, in post monsoon period. Ten local wells were selected for this purpose. The water quality parameters-Bacteriological examination of well water, Determination of BOD, Isolation and Identification of bacterial pathogens etc. were selected for the studies. From analysis of the results obtained, it is revealed that the quality around the site up to a distance of 2.5 km. from the WTP is being impacted badly due to the infiltration of contaminated leachate.

Using this case study & by developing learning package based on same, we successfully create awareness among the students about subject like leachate & ground water pollution. To create awareness among the society, target group used is students doing

graduation in all streams. Methods are developed. Response of the targets groups is studied and analyzed when they use conventional print material. Initially self instructional material is tried on the target groups. The student responses are analyzed from the cognitive aspect and development of ability to apply the same in the area of environmental cleanliness.