

## CORPORATION SOLID WASTE (CSW) DUMPED ON ROAD SIDES OF TIRUNELVELI CITY – A SOCIOLOGICAL STUDY

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### **Abstract**

*Municipal solid waste management is one of the major environment is one of the major environmental problems in India cities. Improper management of municipal solid waste causes hazards to inhabitants CSW is useless unwarranted material discharge as a result of human activity. Most commonly, they are solids, semisolids, or liquids in containers thrown out of hoaxes commercial or industrial premises. (Nyangababo and Hamya, 1980). The main objective of this study is to effectively safeguard the public health, safety, welfare and awareness. Open dumping of corporation solid waste (CSW) is observed commonly near road side, open plots, river side, drains and public places; however, it is not prohibited under law. Plastic as a major part of CSW, winds carry plastic bags to distant area sometimes found entangled on the trees and shrubs create nuisance. During rainy season, the blockage of drains and overflowing of water was observed in some areas of the Tirunelveli City. Plastic bags now constitute the biggest challenge to solid waste management in Tirunelveli City. Plastic bag waste has attracted great political and public attention, especially because the waste has myriad unique environmental problems. Tirunelveli corporation has been divided into four zones. Such as Tirunelveli, Thachanallur, Palayamkottai and Melapalayam. Besides, these zones were divided into 55 wards.*

**Keywords :** Toxic Substances, Waste Management, Solid Wastes, Corporation Solid Waste, Domestic Wastes, Construction Wastes, Electronic Wastes

### **Introduction**

Incinerating waste also causes problems because plastics tend to produce toxic substances, such as dioxins, when they are burnt. The solid waste management policy for Delhi, has taken feedback from over, 3,000 resident across the east, south, north and New Delhi municipal territories starting from 2015. In many cities of developing countries, waste

management is poor and solid wastes are dumped along road sides, and there are several reports concerned with the roadside dumping in developing countries (Henry *et al* 2006). Effective solid waste management is vital to the well being of our vicinity. Road side dumping is a serious problem in Tirunelveli City and it could become more serious. Road side dumps are not only an eye sore, but pose

serious health, water and air pollution problems. Roadside dump also increases the cost of maintaining Tirunelveli City roads.

Corporation Solid Waste (CSW) contains all sources of unsorted wastes, such as domestic wastes, construction wastes, electronic wastes and garbage, etc; which are dumped indiscriminately on road sides and any available open pits irrespective of the health implication on people. Now a days roadside dumping has long been a common method of solid waste disposal in Tirunelveli City. Majority of the residents collect their household wastes in plastic bag and place them roadside on every day until it is carried away by Tirunelveli City waste collectors in the city.

Plastic as a part of CSW has played an important role in transforming the life style over the past 30 years and is increasingly used in production and consumption in all other societies, both developed and developing countries. Plastic also takes up a growing percentage of MS W stream and pose environmental challenges. Life, nowadays, is difficult without plastics. Increased use of plastics means the increase of plastic wastes in the municipal wastes. Plastic are resistant to moisture, travel long distances because of their light weight, block drains during rains and trap birds. Plastics cause visible pollution as they contribute to large volume of total CSW and are major threat to air, oceans, soil, livestock, wildlife and marine life. This study reports CSW disposal among Tirunelveli City population.

### Results and Discussion

Generally, CSW dumping is regulated in the developed and developing countries. This field study has very clearly shown that present day CSW disposal by people has caused severe environmental and social problems. Considering that it is observed the CSW road side dumping is going on illegally and create several problems. Besides their visual irritation potential health threat is more intuitively.

Some dumps spread into roads right-of-way and must be routinely cleaned up to keep the roads open for traffic. Thus, illegal dumping increases the costs of road maintenance.

If the domestic drainage flows nearly public water supply maybe contaminated, drinking water quality may deteriorate leading to threat to public health. Increase in the population of pests such as rats and some insects may be promoted by uncontrolled dumps.

A recent trend of “use and throw away” towards these polythene bags is a main cause of the problem when purchases were made the plastic bags were given through packing by traders. After some years people of the Tirunelveli City will be accustomed to plastic bags use that they find it difficult to change their habits. Paper packing is slowly comes down in the city. These plastic bags contribute much in terms of volume to road side dumping CSW. Road side dumping of residential wastes including plastic is observed commonly in almost all over city. Dumping is commonly observed near road side, open plots, river side, coastal area, in drains and public places. People used plastic bags commonly for storing their wastes, which ultimately become part of CSW. Sometimes residents pack and throw the food items in the polythene bags. Open burning of waste along with plastic bags is also a commonly observed practice in the city leading to problem of air pollution with harmful gases.

Reuse and recycling are very difficult to impose, complete ban on plastic bags and plastic packing until there is fully equitable alternative available. The reuse of these plastic bags was observed among all shop keepers and rural people, who sell vegetable in the market. Even plastic bags can be used again and again so that threat to environment and life can be reduced. Creating awareness among city people on careless disposal of road side CSW and as well as the harmful effects of these wastes is a big task.

As a result, the following points should be taken into account for proper disposal of CSW across the Tirunelveli City. The first step is to increase the number of dust bins since only 450 dust bins have been placed for the total area of 15 sq.km of Tirunelveli City Corporation.

Authorities must encourage public participation and awareness regarding source and separation of solid wastes. The more public participation increase for source separation and proper disposal of CSW, the higher efficiency will be achieved. Financial support must be provided to encourage recycling of CSW by corporation and private companies. Technical and scientific management of CSW must be adopted for recycling, especially plastics.

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(A Peer Reviewed & Refereed Quarterly International Research Journal on Multidisciplinary)

ISSN : 2250-1940 (Print), 2349 - 1647(Online)

Impact Factor : 2.014(IRJIF), 1.85(JIF), 1.056(RIF), 2.62(NAAS)

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