



Students willingness to pay Municipal Household Solid Waste (MHSW) collection service in their locality

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Abstract

The present study was conducted at V.H.N.Senthikumara Nadar College (Autonomous), students to find out the willingness to pay for municipal household solid waste collection and transport services. The study was performed with 200 students (99 girls and 101 boys). Data was collected using Google forms questionnaire. The results pertaining to whether households are willing to pay some amount to get a better municipal household solid waste management service revealed that in student's community 59 % of respondents were willing to contribute and while, 41 % of respondents not ready to pay any amount as service cost for better management of solid waste.

Keywords: Solid Waste, Collection service, Willingness to pay

Introduction

Solid waste management is the most important problem being faced by municipalities and corporations particularly in developing countries (Bhide and Sundersan, 1983). Quantity and composition of solid waste depend on population density (Mian *et al.*, 2010). Solid waste management is a sequence comprising primary storage, primary collection vehicles, secondary storage, secondary collection vehicles, treatment and disposal. The most challenging stage of

solid waste management is primary collection of solid waste (Augustine and Odhiambo, 2009). Door to door collection of municipal household solid waste would satisfy the students if the collection is done regularly and in time. The present work was undertaken to evaluate the student's willingness to pay for municipal household solid waste in their own locality. Student's participation and awareness is the most important criterion for successful solid waste management.

Material and Methods

V.H.N.Senthikumara Nadar College is an rural based important educational institution at Virudhunagar. UG and PG students of Zoology department, III Botany, III Non-Major Elective students and III B.Voc students from VHNSN College. The authors collected information through Google form questionnaire. Student's wiliness to pay service charge for municipal household solid waste collection was the main focus of this study. Adequate care was taken in the time of study. Data was collected and tabulated.

Result and Discussion

People's service is very important in the management of waste. In most of the areas, the solid waste was collected by municipal workers through door to door collection system and in few areas the private sweepers collected the waste form household.

The response from the students, towards the willingness to pay for municipal household solid waste collection service is recorded in Table 2. The results pertaining to whether households are willing to pay some amount to get a better municipal household solid waste management service revealed that in student's community 59 % of students were willing to contribute and while, 41 % of students not ready to pay any amount as service cost for better management of solid waste. This finding is similar with Katusiimeh *et al.*, 2012. Afroz *et al.* 2013 considered that the willingness of the public were the key influential factor in MHSW separate collection.

Table 3 shows that reasons for not contributing for municipal household solid waste management service. This implies that female respondents are more willing to pay for improved household solid waste management than male. In our India, females are responsible for cleaning the house, solid waste collection and disposal.

Conclusion

Student's participation is the key component in the municipal household solid waste management because students are the future India. From the research, it was evident that most of the students (59%) willing to pay service charge for municipal household solid waste collection because they are aware about the harmful effects of solid waste accumulation in their locality.

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Table: 1 Socio-economic characters of students

Characters	Frequency (n)	Total students strength
Gender		200
♀ Female	99	
♂ Male	101	
Age		
♀ 17-18	38	
♀ 18-19	32	
♀ 19-20	102	
♀ 21-22	7	
♀ 22-23	21	
Educational Level		
♀ Hr.Sec	172	
♀ Graduate	28	

Table 2: Willingness to pay for Municipal Household Solid Waste collection service

S.No	Willingness to pay	Percentage
1	Yes	59
2	No	41

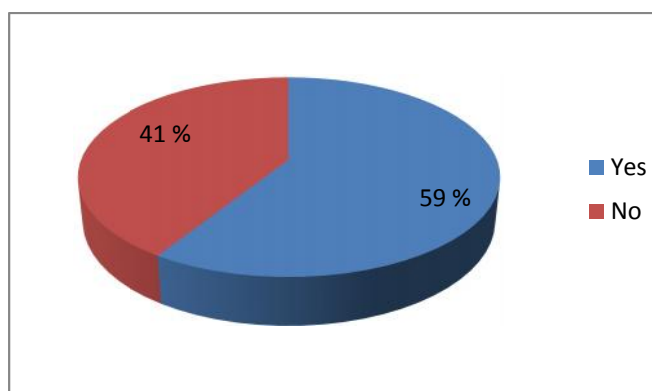


Fig 1: Willingness to pay for Municipal Household Solid Waste management

Table 3: Reasons for not contributing for MHSW collection service

Parameter	Percentage
Satisfied with existing system	0
Service fee charged is not-reasonable	7
Government responsibility to provide such service	34