

Geography

Explore – Journal of Research ISSN 2278 – 0297 (Print) ISSN 2278 – 6414 (Online)

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Solid Waste Management in Patna Municipal Corporation Area: Present Status and Measures for Improvement

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Received : November 2019 Accepted : March 2020

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Abstract: 'Solid waste management' may be defined as the process associated with the control of generation, storage, collection, transfer, processing and disposal of solid waste. The management of solid waste has attained highest importance in the present era globally, but basic principles of waste disposal are often neglected. Despite this, many cities are managing the solid waste and are keeping their cities clean. The situation of solid waste management is dismal in Bihar, including in its capital Patna. This present paper has been prepared after a study conducted to comprehend the current situation about waste management in Patna. The study investigated the generation of solid waste, mechanism behind the process of collection, segregation and its disposal in Patna.

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It assessed the role of the authorities in the process. The survey was held in 35 wards of 6 circles with 105 households, 5 institutions and 10 of the Patna Municipal Corporation officials. The data obtained through primary survey was tabulated and expressed into percentage for analysis. The study revealed that municipal solid waste comprised more than 50 per cent of organic waste like vegetables, food waste, paper, cloth and inorganic waste like plastic, construction materials which lead to clogging of drainage system. The analysis showed the regularity of door-to-door collection in all circles during the time of survey. The results showed lack of awareness and ignorance among the households about the segregation of waste and the mismanagement of proper disposal of waste by the government which led to pollution and health hazards. Presently, waste collected from 72 wards reaches the designated dump site at village Ramchak Bairia on Gaya road where it is disposed of openly. The study clearly points out the inefficiency in the system and show the way to improve it through public and government collaboration.

Keywords: Solid waste management, Segregation, Disposal, Patna Municipal Corporation (Patna M.C.).

Introduction:

'Solid waste management' is a part of public health and sanitation, and is entrusted to the municipal government for execution. Solid waste management (SWM) has become an acute problem in India due to rapid urbanization and uncontrolled growth of population. 'Solid waste' can be classified into different types of waste depending upon their sources: municipal solid waste, hazardous waste, industrial waste, agricultural waste and bio-medical waste. Throughout