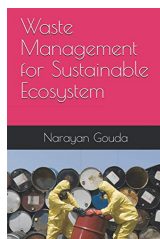


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### CHAPTER-2 MUNICIPAL SOLID WASTE MANAGEMENT

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#### Abstract

Every day we all generate a million tons of waste either for our comfort or survival. The unattended and ill-treated waste accumulates over a period of time and became a threat to our health and survival. The situation is worse in urban areas as the per capita waste generation is much higher as compared to the rural area. This waste commonly known as municipal solid waste (MSW) is causing several environmental and health concerns. At this juncture, in India, a robust and efficient municipal solid waste management (MSWM) should be incorporated being a developing country and having a huge population density. In this chapter, various aspects of MSWM have been discussed and analyzed. Various processing options for MSW have been considered and analyzed in the Indian context. Several best practices for MSWM such as source segregation, community engagement, and public participation and awareness have been highlighted. Furthermore, the responsibility of various stakeholders associated with MSWM has been discussed.

#### 2.1 Introduction

With everything progressing at a rapid pace starting from population, industrialization, to urbanization, there seems a lack of coordination, coherence, and systematic understanding. Urbanization alone is contributing so much so to the waste that, it is becoming a global challenge for both the scientific community as well as government to deal with.<sup>1,2</sup> Industrialization assists in making life easier, smoother, and comfortable. However, the same industrialization is now becoming a major contributor to waste.<sup>3,4</sup> Presumably, the continuance of this ambiguous unilateral progress would lead to devastating consequences of human civilization.