



## **Necessity of quality improvement and enhancement of compost production procedures in Iran**

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The rapid population growth in urban areas along with industrial development has caused increasing consumption of different materials, therefore making more solid wastes. This has made severe health and environmental problems, specially in megacities. If these problems would not be managed properly can lead to big crises in human society. One of the efficient methods in solid waste management is converting them to compost and using as compost in agriculture. Production of compost from mix refuses because of its physical and chemical composition is an important issue which requires special consideration. Not considering the standards of compost production and its quality from point of view of pathogenic micro-organisms, biological and toxins specially heavy metals, causes slowing of compost industry procedures. This research is a review using library method and present documents. During this survey, we came to know that compost prepared from mixed urban garbage, because of containing heavy metals, unwanted biological effects and not being economical, has stopped in some countries like Germany, Netherlands, Austria, Switzerland and France which are the pioneers of compost production industry with new method to produce compost from planetary refuses separated from beginning. Based on the findings of this research, improvement of usual methods of compost production and considering biological compost such as bioreactor method, using rhizobium fungi, sulfur oxidant bacteria (*thiobacillus*) and mixing biodegradable refuse with animal manure are examples of new methods of compost production with no toxin. In Iran, we should consider the followings for compost production: -providing enough finance for fundamental and practical researches. expert and correct works on preparing standard and considering the articles 3 and 6 of solid waste management law. -providing information and public education for segregation of solid waste products in the site of production.

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