Solid waste and water monitoring in Indian zoos with case studies

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This paper analyzes the different technical aspects for the control of pollution due to lack of effective solid waste management and water monitoring system in the Indian Zoos by considering Sri Venkateshwara Zoological park & Nehru Zoological Park as Case studies respectively.

Under Smart waste management in the Sri Venkateshwara Zoo the following aspects are discussed
1. Causes
2. Source point segregation,
3. Disposal
4. Recycling (income generation) etc.

And under water monitoring system in Nehru Zoological Park the following aspects are discussed
1. Causes
2. Source of water
3. Contaminations possibly present in water
4. Level of Contaminants etc

In this paper we discuss the possible technical solutions for the above said problems using robotics and AI. These solutions self sustainable each other when implemented in zoos.

All the causes and technical solutions analyzed in this paper are as per the study report submitted to the forest department of Andhra Pradesh, India, 2010 and a comparative study of technical aspects of many internationally published papers.