



Lavasa Corporation

Integrated Water Management (IWM)



CASE STUDY



Figure 1 MLD Sewage Treatment Plant

Summary

Integrated Water Management (IWM) is a strategy that brings together all facets of the water cycle — water supply, water treatment, storm water management and sewage management. In Lavasa; City Management Services mainly focuses on the different aspects of Water and Waste Water Management to ensure continuous supply of high quality potable water 24 x 7 with effective sanitation system to protect and maintain the health and hygiene of citizens.

Objective of Intervention

Water & Waste Water Management System in Lavasa



Description of Intervention

The intervention commenced with the allotment of 30 Earthsoul compostable bio bin liners to all the households with a training class to explain the advantages of compostable bio bin liners for wet waste collection over normal synthetic plastic bin liners. Thereafter, a team would monitor the segregation of wet waste and dry waste at source and all the wet waste in the Earthsoul compostable bin liners was sent directly to Vermi compost facilities to complete the life cycle loop of going back to Earth.

Intangible or Tangible Benefit

Water Management at Lavasa ensures that citizens are provided with crystal clear water of the highest quality. Testing of the water is performed 24x7, periodically. This testing gives our operational personnel timely information, so that adjustments can be made to the treatment process to ensure consistent water quality is met. The plant has a quality control laboratory in which analysis is performed on raw and treated water. The information from the Chemist's analysis is communicated to the Senior Control Room Operators who make appropriate chemical adjustments required for the proper treatment of water. The process of filtering the water is monitored and tested continuously by a highly trained staff of professionals. Monitoring, like the production process, is also a 24-hour day job. The supply of water in Indian towns and cities may be provided for just a few hours daily or every other day; it could be even less in certain locations. But in Lavasa; we provide 24/7 × 365 days uninterrupted supply of high quality potable water. This is possible due to stringent & timely measures on maintenance, preventive maintenance strategies of water network and proactive alternative arrangements in case of breakdowns in the system being adopted. Water conservation is the beneficial reduction in water use, waste, and loss. Conservation is the most economical and environmentally protective resource management tool, helping Lavasa meet the many challenges of water supply management. Few initiatives which we have taken towards water conservation are rigorous patrolling of water network to identify leakages; ensuring the metering at all consumers points; water audits for commercial establishments; implementation of cutting edge technology to avoid the overflow and internal recycling of used process water. 24x7 operation of a customer service desk with a required seven-day response time for new connections; 12-hour response time for complaints; resolution within 12 hours when dealing with issues of low pressure or poor water quality; 24-hour response time with seven-day resolution for other complaints (Internal plumbing issues) and reported surface leaks repaired within 12 hours.



About Lavasa Corporation

Lavasa is free India's First Hill City. Lavasa set amidst 7 hills and a 60 km lake front in Sahyadri Ranges of Western Ghats. Lavasa is first 'planned' hill city led by a private sector and the development spans over 18,000 acres of picturesque landscape. It is a hill city located roughly between 2,000ft to 3,000ft above Mean Sea Level. The annual average rainfall in the city ranges from 3,500mm in one valley to around 8,500mm at the end of another valley. The place is currently a "mixed deciduous, wet temperate and reverie forest".