

Smart waste management for metropolitan cities

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Each waste bins have
unique ID in web
application for easily
identify the bins.

Use GSM for send the
SMS to municipality
members. If the bin is fill.

LORAWAN is used data
can be transmitted for
long range and consumes
low power

Use solar cell for
alternative power source
and web application gives
accurate location of bin
using GPS module and
check the level of any
bins.