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WORK FLOW



MAKING THE LAND PURE FROM WASTE!



LAHORE WASTE MANAGEMENT COMPANY



PUNJAB'S CLEANER CITY INITIATIVE - COLLECTION AND TRANSPORTATION OF MUNICIPAL SOLID WASTE

Pakistan is a land of opportunity and hence a land that can be invested in. Like all developing countries, Pakistan is facing serious environmental issues especially increasing quantities of municipal solid waste (MSW) in urban and semi urban areas. The Government of the Punjab, a province in Pakistan, is following a "cleaner city" policy by improving the municipal solid waste management system. In this context, institutions have been reformed and waste management companies formulated in major cities of Punjab.

The Lahore Waste Management Company (LWMC) is responsible for solid waste management (SWM) in Lahore District. Recently the scope of the company has been expanded to the adjoining districts of Kasur, Sheikhupura and Nankana Sahib.

LWMC intends to invite investors with experience in collection and transportation of municipal solid waste from designated collection points to disposal sites in the three new districts.



ESTIMATED POPULATION AND WASTE GENERATION IN KASUR, SHEIKHUPURA AND NANKANA SAHIB

SN	Districts	Estimated population (2016)	Estimated Waste (Tons/day)	Waste (Tons/per annum)
1	Sheikhupura	1,015,567	609	222,409
2	Kasur	773,264	463	169,344
3	Nankana Sahib	295,000	177	64,929
Total		20,083,831	1,251	456,683

The Government of the Punjab will provide full support and facilitation to companies that wish to invest in the proposed project.

The pre-qualification documents can be downloaded from the LWMC website

WWW.LWMC.COM.PK



CATTLE DUNG FREE CITY THROUGH BIOGAS PRODUCTION

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BIOGAS PRODUCTION - WAY OF FRIENDLY ENVIRONMENT

Pakistan is the proverbial land of opportunity, where new projects are always being implemented both by national and international firms with government support. In this context, the cattle colonies in the city of Lahore come into focus.

Lahore is the second largest city in Pakistan, where more than 10 million people live squeezed into an area of 1,772 square kilometers. It has many cattle colonies. One such colony has 25,000 people living in 1400 houses, and they all breed cattle. Their major source of income is the selling of milk from the thousands of buffalos, cows and goats that they keep.

This necessarily results in rather a lot of manure – 389 tons per day, to be precise. Where does all this dung go? It piles up in people's courtyards and along the roads, making the atmosphere extremely unhygienic for both the people living there and those just passing by. It also emits greenhouse gases and contributes to air pollution and climate change.

This is where the Lahore Waste Management Company (LWMC) comes in. The aim of the company is to make Lahore one of the cleanest cities in the world, which necessarily cannot be done with all this manure lying around. LWMC is in the process of cleaning it all up, focusing on the **ZERO WASTE CONCEPT** by treatment and conversion of this cattle dung/ manure into **BIOGAS** and **ENRICHED BIO-FERTILIZER**, or **COMPOST**. The produced biogas will be supplied to **SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)** for distribution to the local community.

LWMC is establishing a commercial scale biogas plant with a capacity to use more than 300 tons of cattle dung per day, and needs to hire an **INTERNATIONAL TURNKEY CONTRACTOR**.



Estimated Cattle Dung Generation!

Characteristics	Units	Buffalo	Calves	Cow	Goat	Sheep	Total
Waste generation	Tons/day	299.7	29.2	58.8	0.7	0.3	389
Waste volum	m ³	511.0	49.7	85.2	1.0	0.4	647.3

As much as mega projects involving whole cities and even provinces, it is projects like the biogas plant that help a country become one of the developed nations of the world.

One of the first steps on this road is cleaning and then the production of alternative energy. And here lie immense investment opportunities: we invite you to come and benefit from this chance!



Environmental Friendly Treatment of
Hospital Infectious waste

**INFECTION
FREE CITY**



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INFECTION FREE CITY

Pakistan is a developing country with great opportunities for those who wish to contribute to a growing nation. For example, Lahore, one of the largest cities in the country with more than 10 million people and counting, is a city with a large number of hospitals and other healthcare facilities. These are essential for Lahore's people to stay healthy, but they do present a problem.

Healthcare facilities produce a lot of hospital waste. This is infectious waste, and has to be collected and disposed of according to WHO guidelines in a scientific manner. If it isn't, it leads to adverse health effects and severely pollutes the environment.



ESTIMATED WASTE GENERATION:

#	Healthcare units in Lahore, Pakistan	Infectious waste generation (Approx.) (Kg/dav)
1.	Healthcare facilities under Specialized Healthcare & Medical Education Department	10,785
2.	Healthcare facilities under Primary & Secondary Health Department	5,387
3.	Healthcare facilities in private sectors	7,000
Total daily infectious waste generation		23,172



The Lahore Waste Management Company (LWMC) has been tasked with managing and disposing of this waste. The company is on the way to establishing an autoclave facility for infectious waste.

LWMC invites international turnkey contractors for the installation of four autoclaves to treat 20 tons/ day infectious waste, over land measuring 36,000 ft². This will involve:

- i. Complete designing
- ii. Installation
- iii. Commissioning
- iv. Complete civil work



Treatment Technology	Total No. of Treatment Facilities	Capacity of Each Treatment Facility	Total Infectious Waste Treatment Capacity
Autoclave	04	05 tons/day	20 tons/day