

Climate Friendly Interventions, Policies, Capacity Building and Sustainable Governance under the UK-KMC MoU on Low Carbon and Climate Resilient Kolkata

KOLKATA CITY ECO RESTORATION MODELS

KMC WARD No.58



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Current Issues :
Waste Mgmt., Water body Contamination, Sanitation etc..



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KMC Ward No.58 - Current Situation

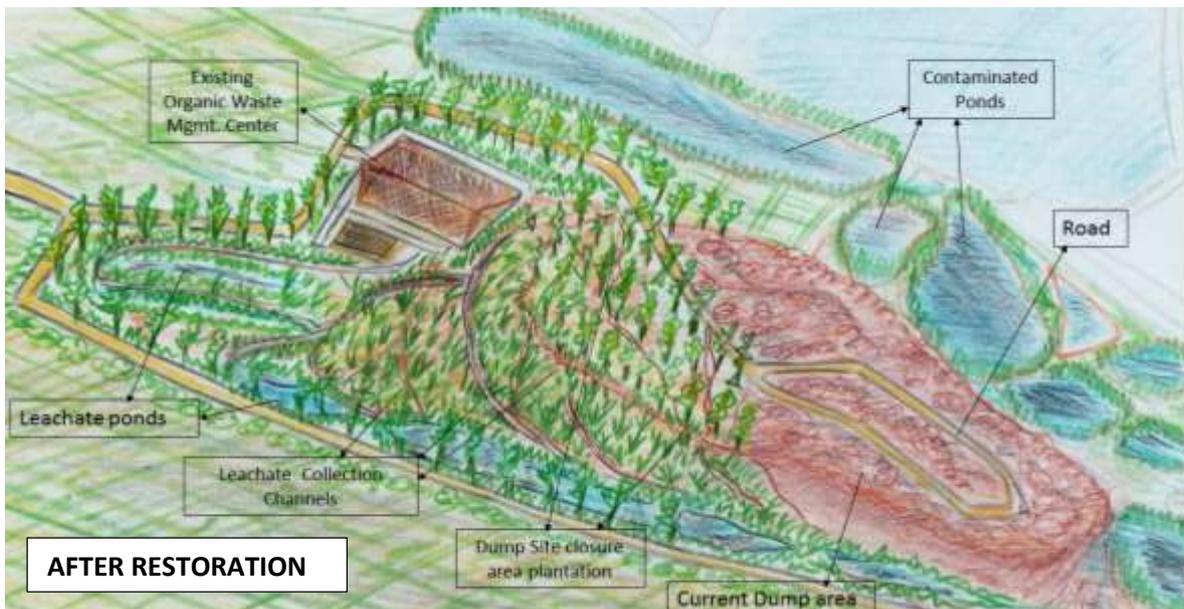
Visualization of Slum to a Restored people settlement



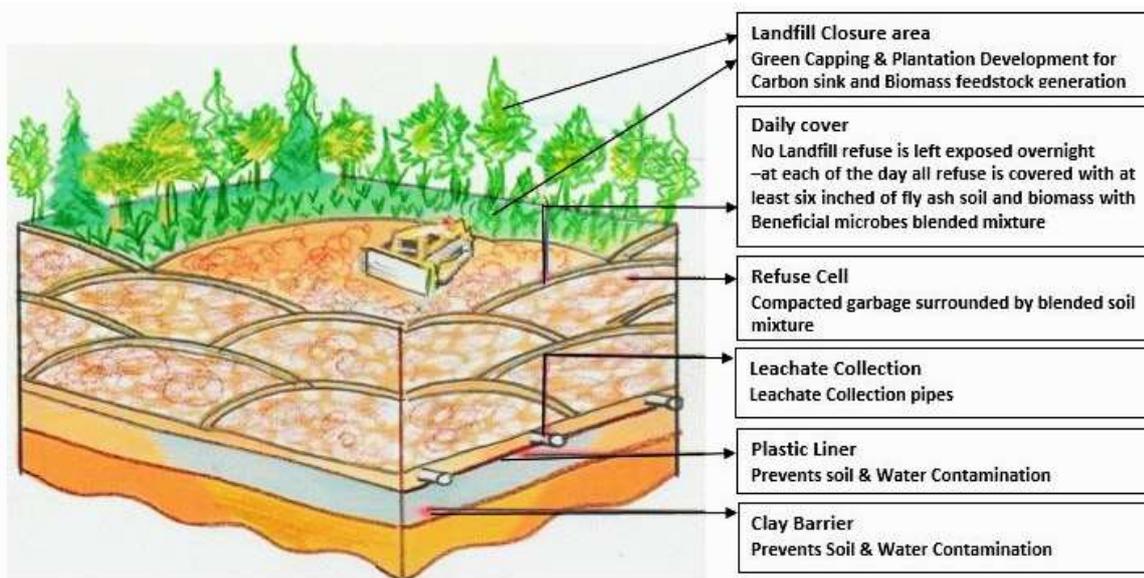
Sustainable Green Interventions to transform a slum to a model
Climate resilient neighborhood

KOLKATA MUNICIPAL CORPORATION (KMC)

**DHAPA Municipal Solid Waste (MSW) Dumpsite Green Capping,
plantation development Restoration through Bio-engineering techniques and Carbon
Neutral Biomass Power Generation**



SANITARY LAND FILL (SLF) TECHNIQUES



Water Body Eco-Restoration



Canal Eco-Restoration Models



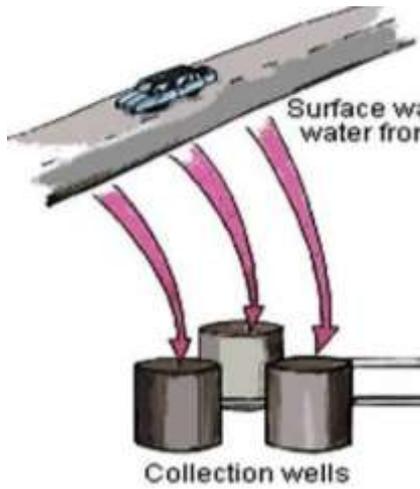
Canal Eco-Restoration Models



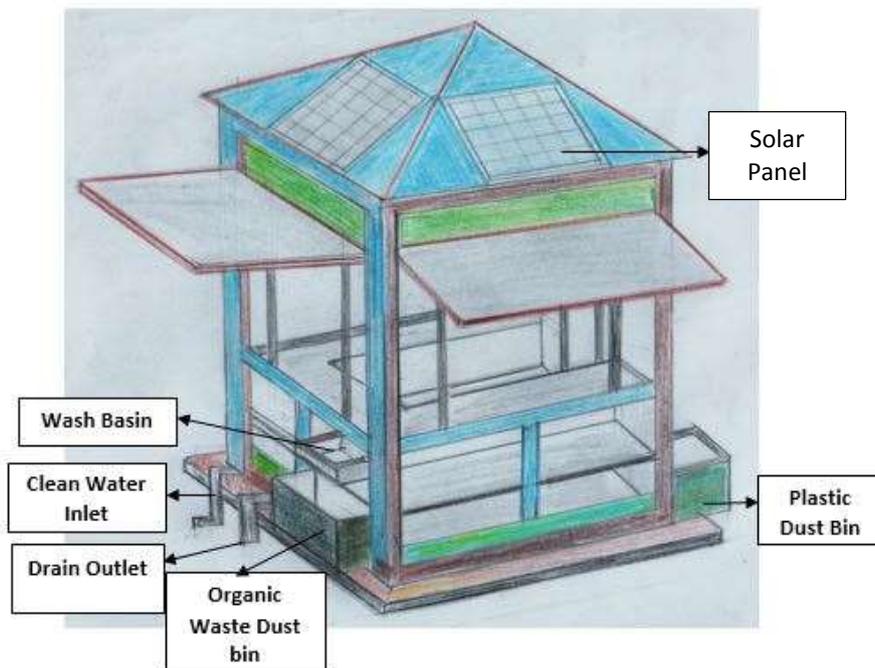
Drain Cover & Greenery Development



URBAN AREA OPEN DRAIN PROTECTION AND GREENERY DEVELOPMENT



URBAN AREA STORM WATER HARVESTING WATER BODY AND GREENERY DEVELOPMENT UNDER FLY OVERS



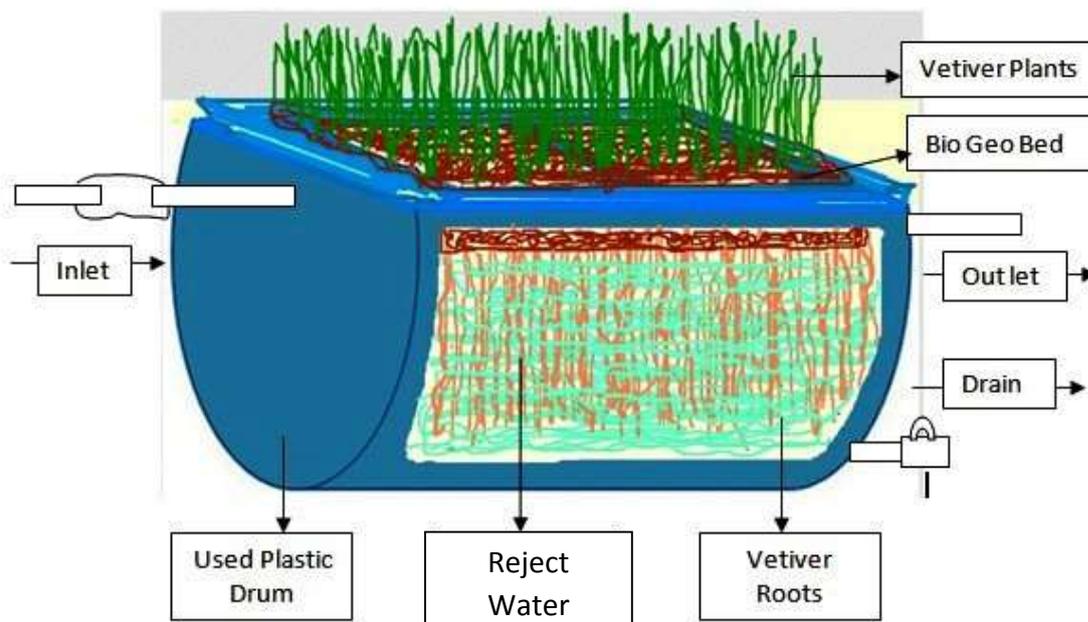
STREET KITCHEN KIOSK

Modular Water Treatment through Bio-Phytoponic System

The Bio-Phytoponic System can be used for pre-treatment of Pond water, contaminated water, Grey water, Arsenic content water, RO reject from CETP etc.

The techniques based on Bio-engineering by high efficient Beneficial Microbes (isolated from Natural Sources) for natural degradation of organic and inorganic components, Natural fibers, Biomass and sustainable highly sustainable Plants for absorption of heavy metals and other inorganic pollutants. The Plants species are perennial high rapid growth and has the unique ability to thrive in saline water and has smaller gestation period for multiplying its shoots.

The Bio-Phytoponic system works on eco-friendly Bio-engineering technological intervention with recovery of 50-60 % of grey water by less energy, less space and natural greening of the Installation area with high Carbon sequestration and emission reduction.



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