

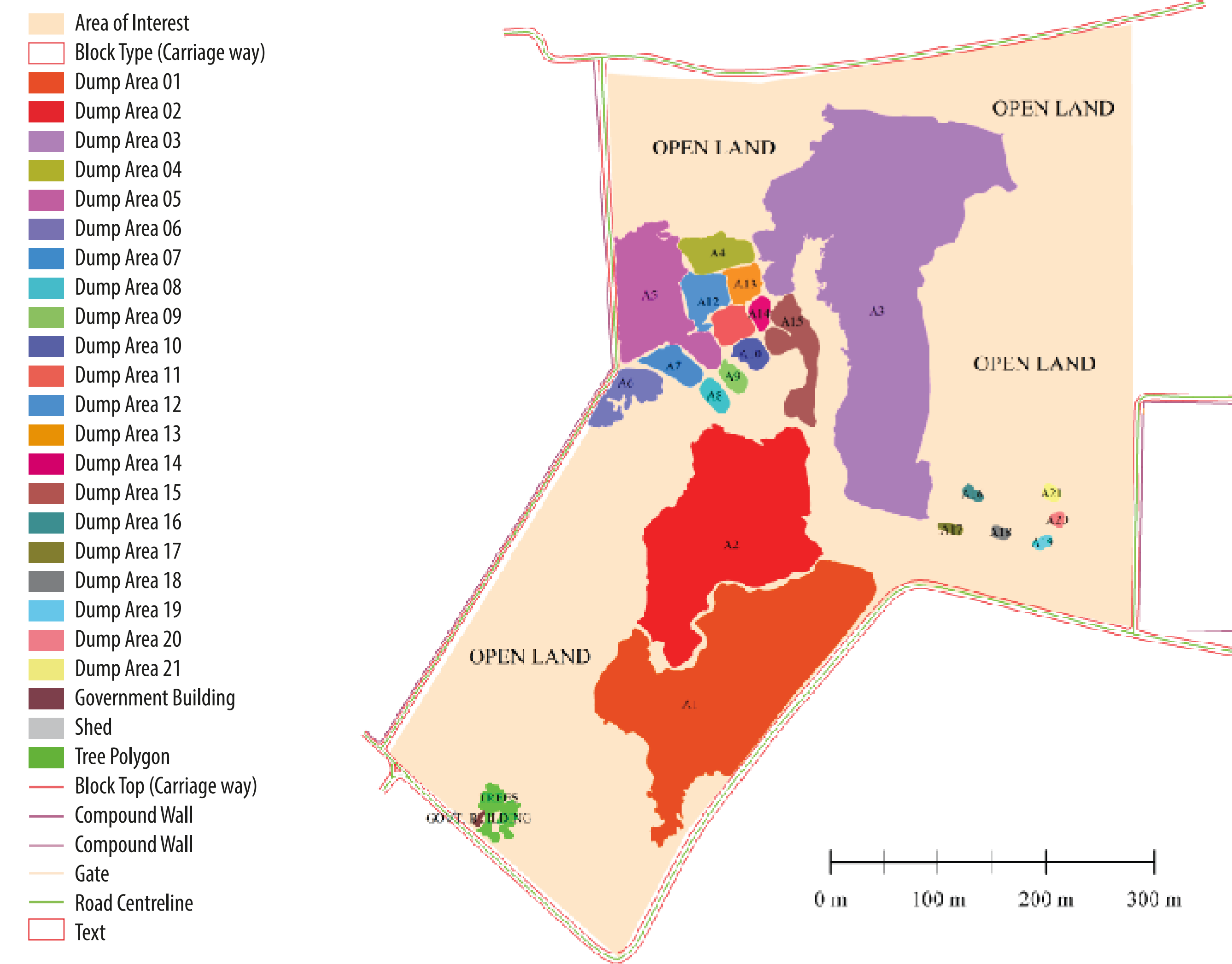
CapaCITIES Phase I in Coimbatore - Summary

1) SWM - Vision, Strategy and Roadmap

Vellalore Dumpsite
Satellite Image



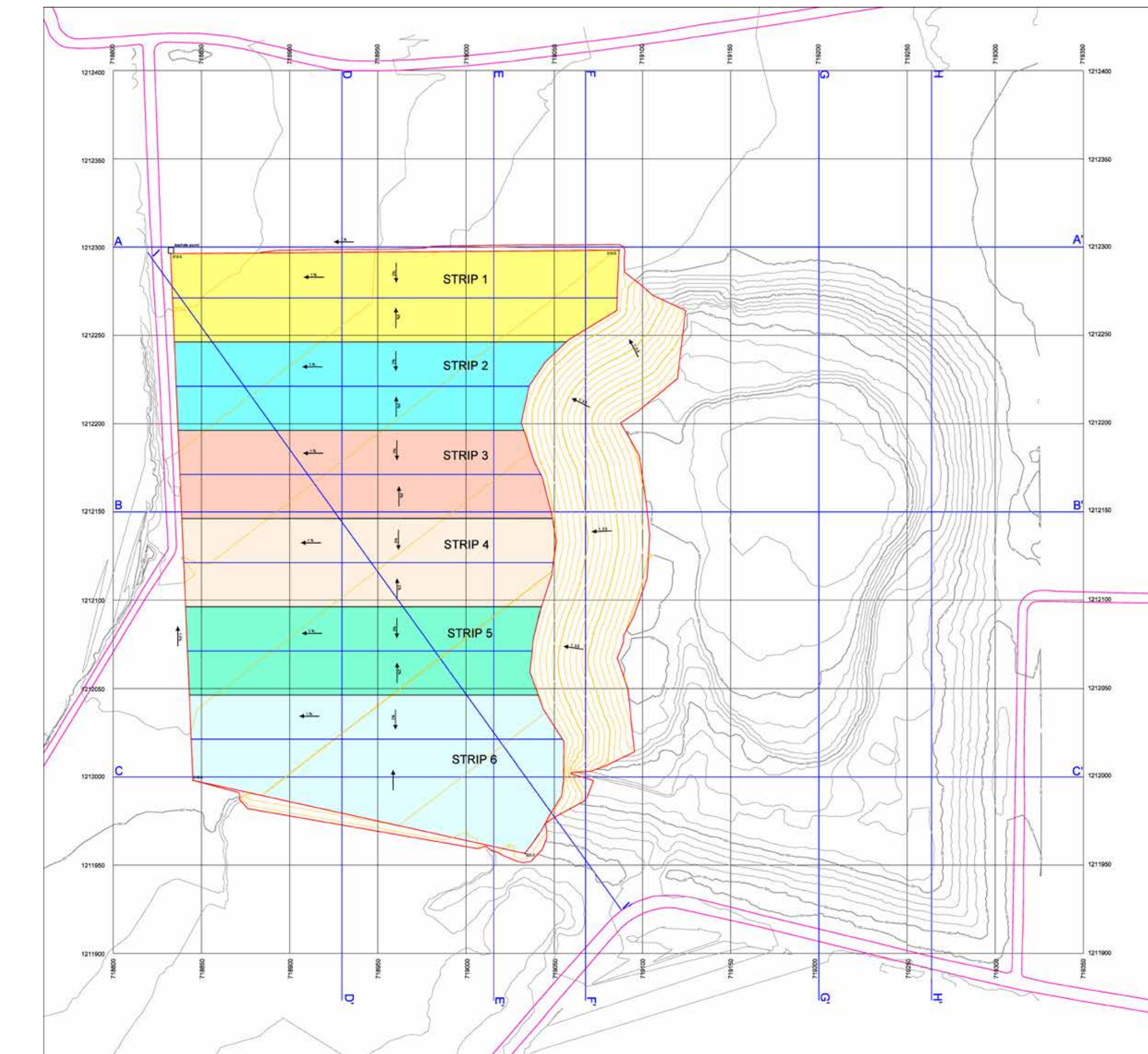
Vellalore Dumpsite Volume
Assessment



Study Area = 82.10 acre
Dump Area = 28.90 acre
Open Area = 52.53 acre

TOTAL VOLUME OF DUMP
= 279,131.8 cubic metre

Plan for Consolidation of the
Existing Dump Site at Vellalore



2) Solid Waste Treatment and Processing



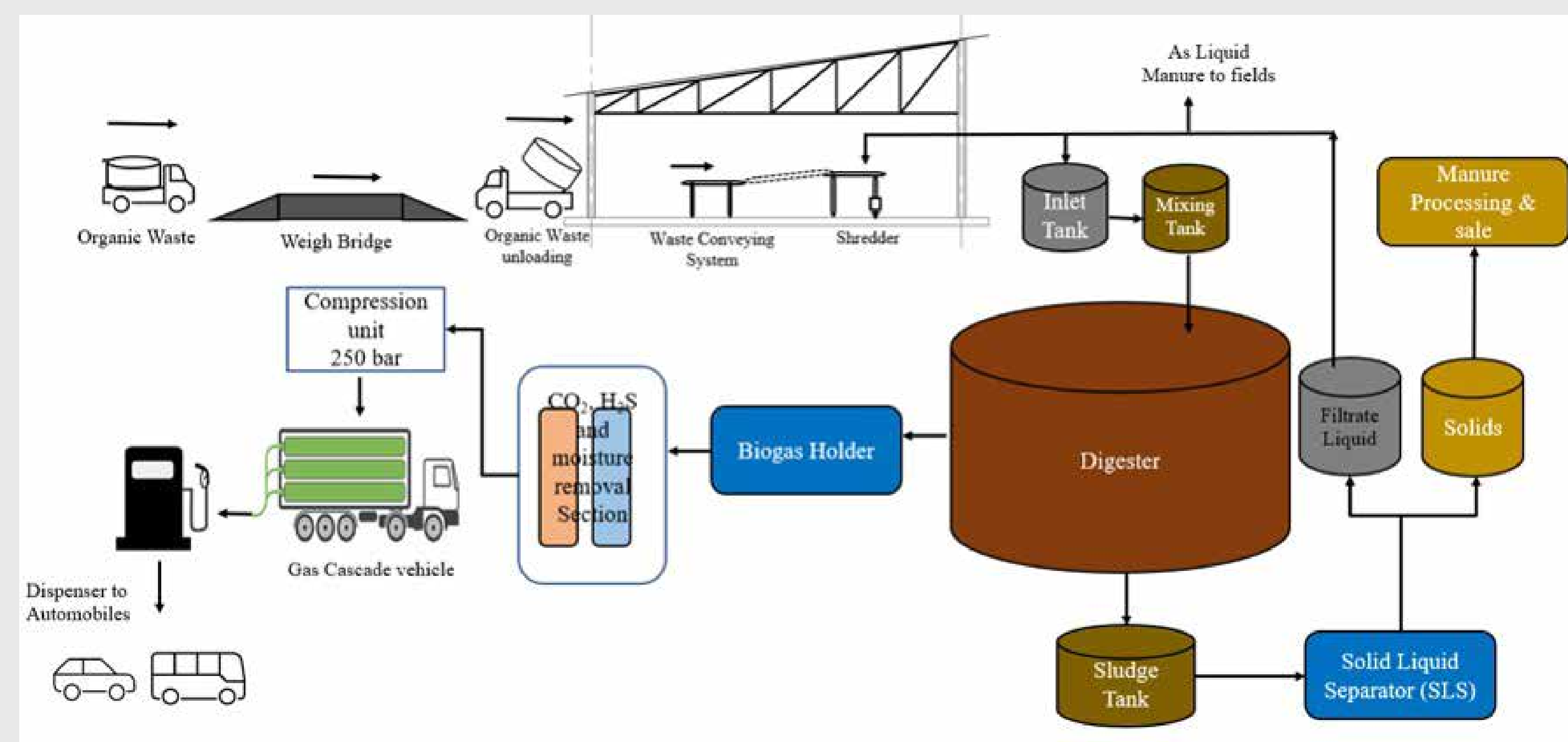
a) 1.5 tonne per day waste to
bio-methanation plant in Ward 69 im-
plemented under CapaCITIES Phase I



The plant was established at a cost of CHF 66,512 and processes 0.13% of waste generated in the city



GHG emissions reduction of 1,505 tCO₂e per annum



b) 200 TPD BioCNG Plant in Vellalore Dump Site (Replication by the City)

18.2% of total city waste processed to generate 13,000m³ of methane per day



Implementation mode

Design, Built, Finance, Operate and Transfer (DBFOT) – 15 years



Project Cost

~INR 450 million (~CHF 5.5 million)



Finance

Equity, Debt and Viability gap funding



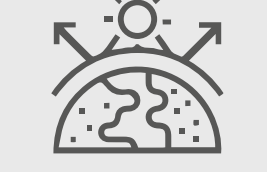
Private sector leverage

67% of project cost



Revenues

Sale of Bio CNG and Carbon Credit Monetisation



GHG emissions mitigation potential

260,000 tCO₂e (over 10 years)

Net Benefits to Coimbatore Corporation:

INR 965 million (CHF 11.75 million) over project life as compared to current costs on present value basis

3) Air Quality Monitoring & Dissemination



Sensor based Ambient Air Quality Monitoring Systems (AAQMS) installed at 4 locations under CapaCITIES



Replication: Sensor based Ambient Air Quality Monitoring Systems (AAQMS) installed by CCMC at 26 locations

Implementing Partners



Knowledge Partner

