

Keep City Clean - Dehiwala Mount Lavinia Municipal Council Area

Solid waste Management

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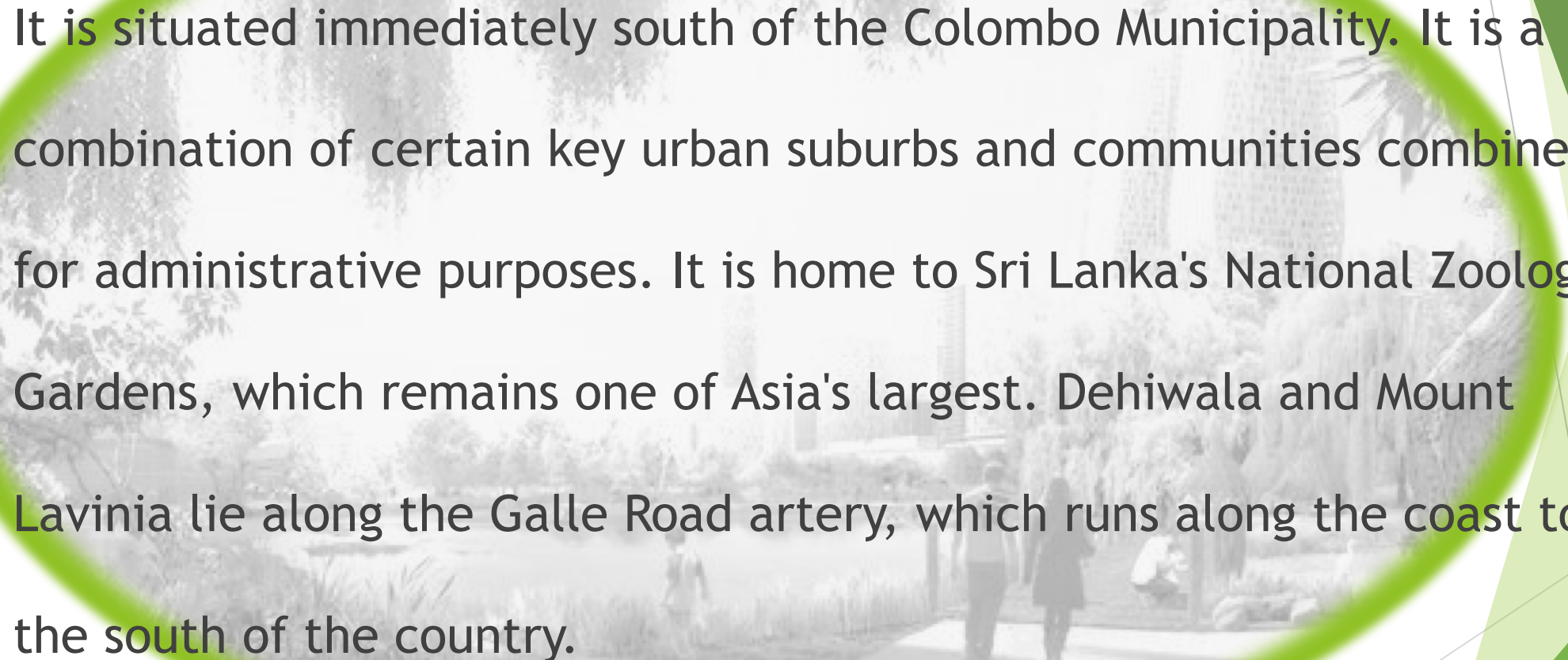
Mr. Ravindra Dhanapala

Sri Lanka



Introduction

It is situated immediately south of the Colombo Municipality. It is a combination of certain key urban suburbs and communities combined for administrative purposes. It is home to Sri Lanka's National Zoological Gardens, which remains one of Asia's largest. Dehiwala and Mount Lavinia lie along the Galle Road artery, which runs along the coast to the south of the country.

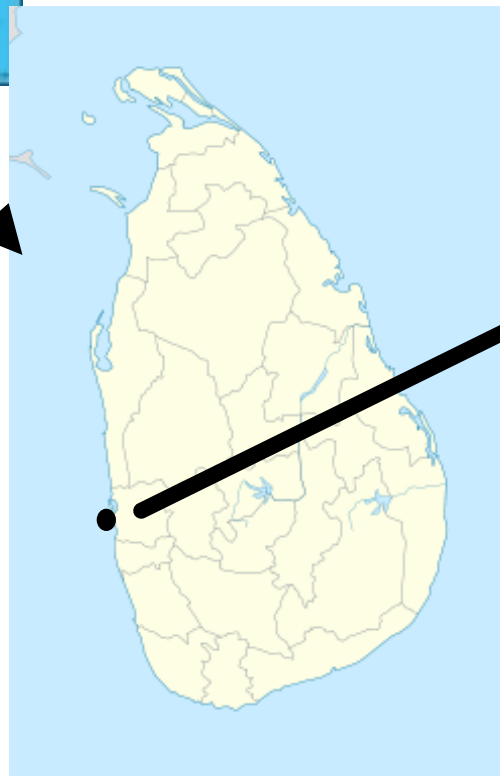




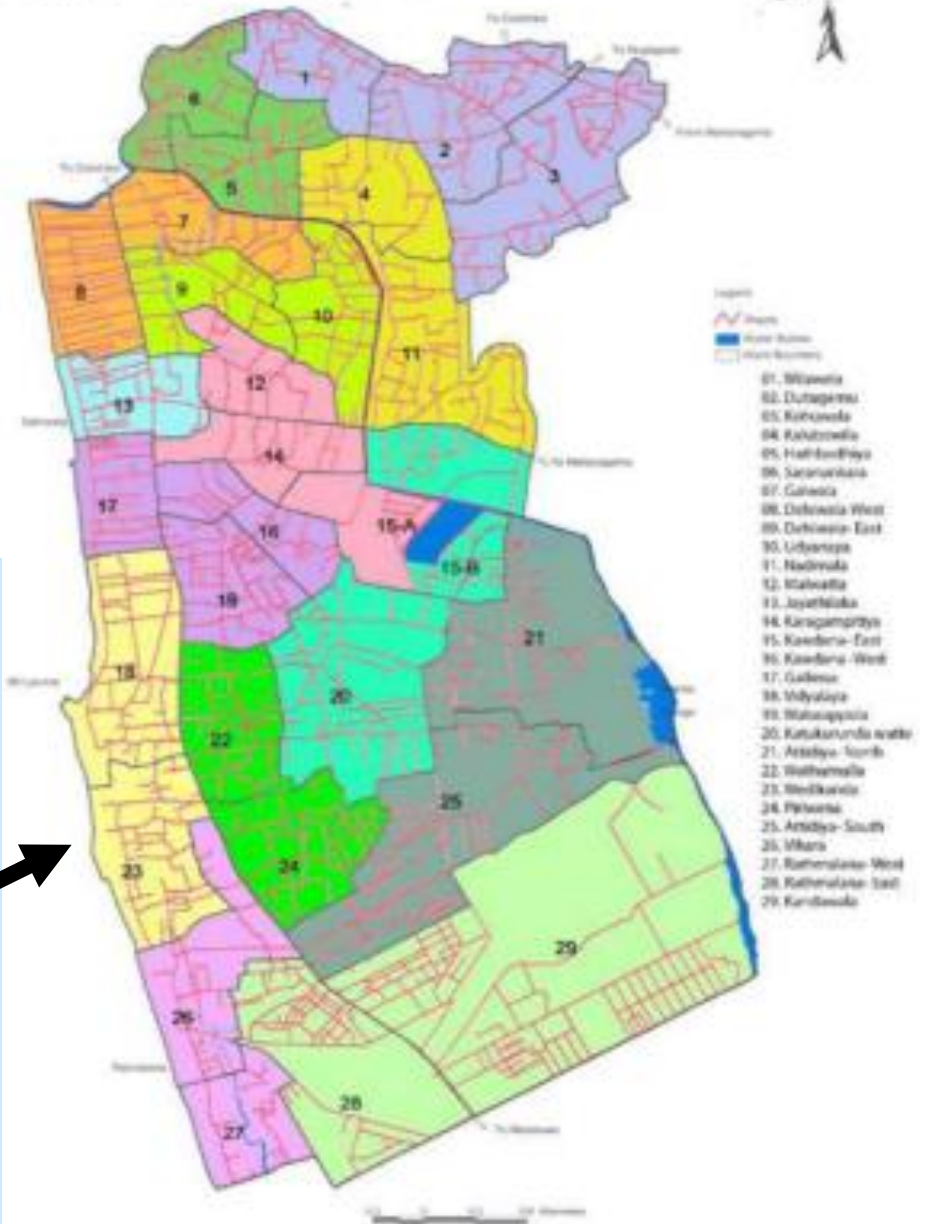
Location

Population - 209,943

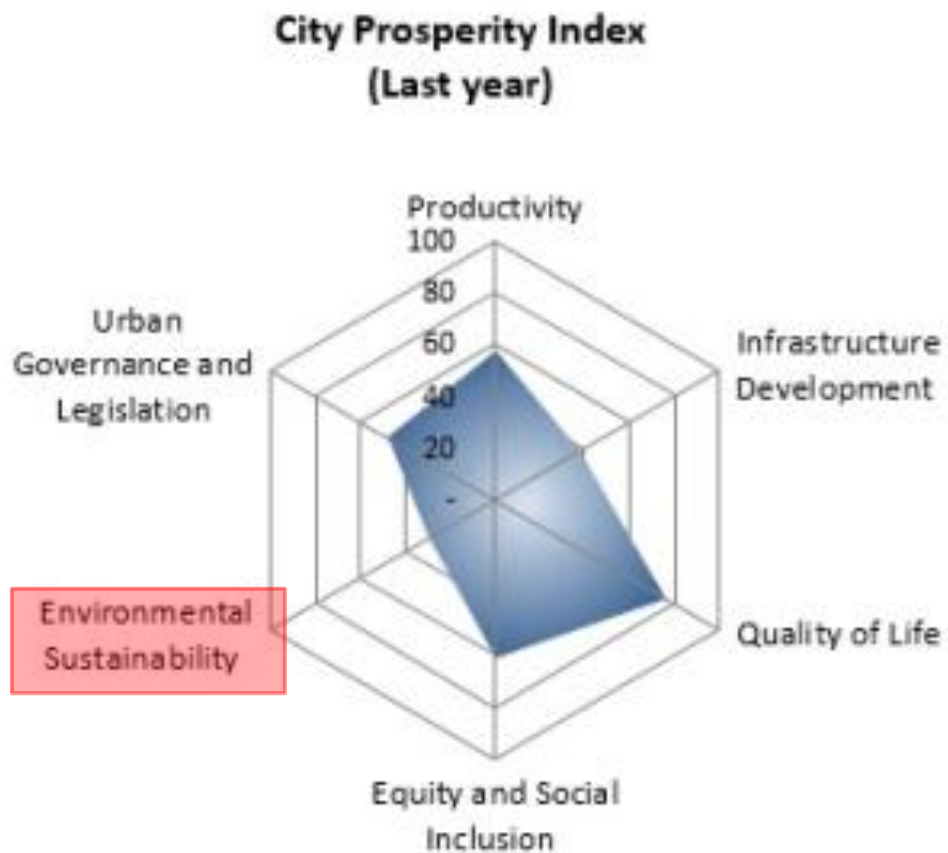
Area - 21.09 km²



Wards Map - Dehiwala-Mt Lavinia M.C. Area



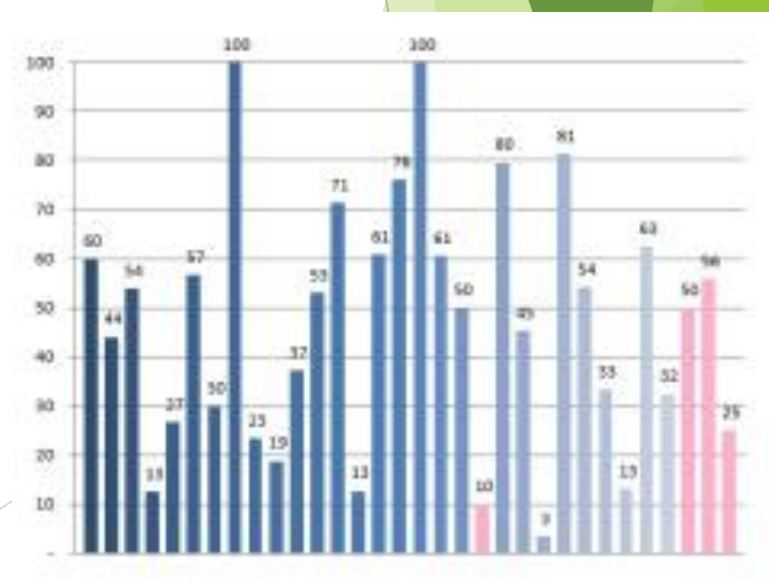
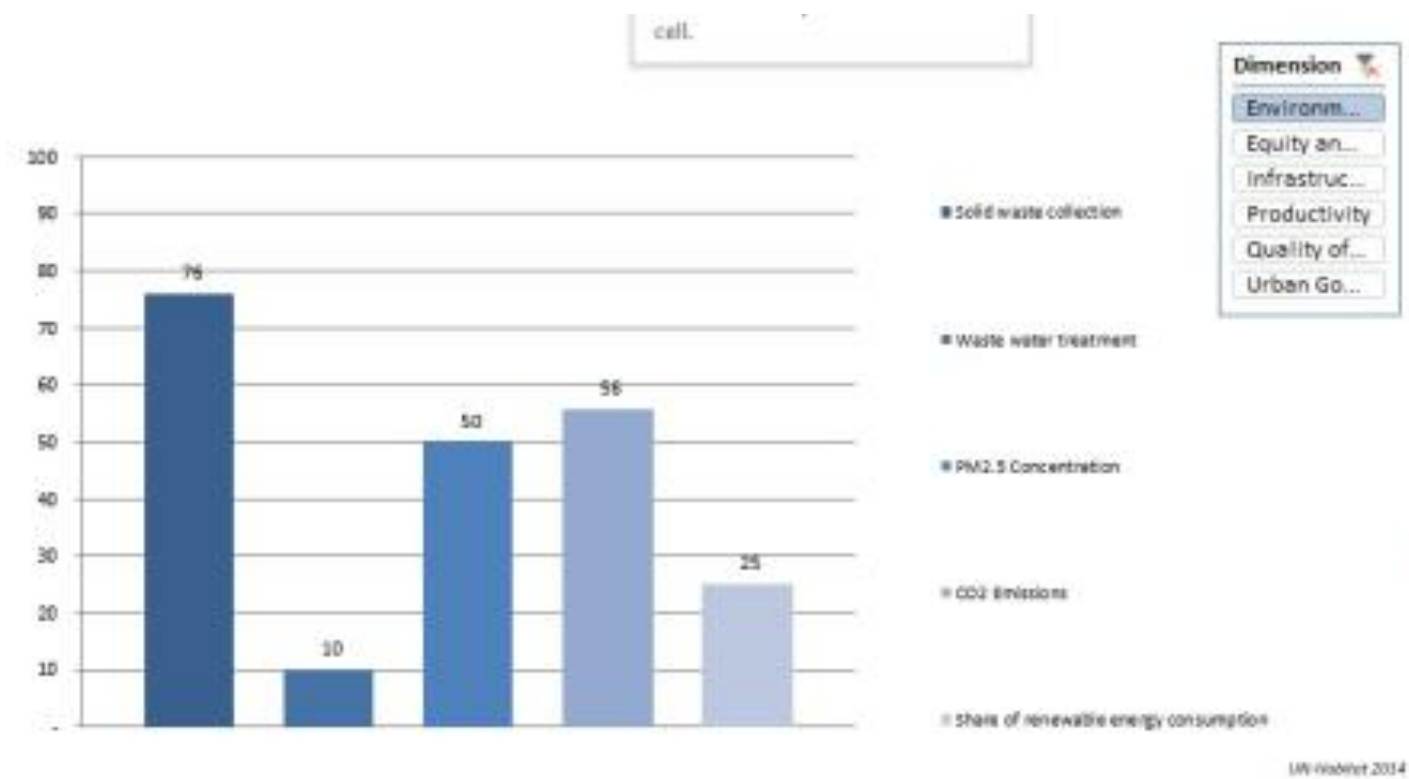
City Prosperity Index for Mt. Lavinea Council area



CPI Results	
	CPI
Productivity	57.93
Infrastructure Development	37.28
Quality of Life	76.14
Equity and Social Inclusion	60.62
Environmental Sustainability	29.17
Urban Governance and Legislation	47.60
City Prosperity Index	49.00

Environmental Sustainability				
Air Quality		Waste Management		Water and Energy
PM2.5 Concentration	CO2 Emissions	Solid waste collection	Waste water treatment	Share of renewable energy consumption
-	0.01	0.00	0.00	0.00
-	40.31	100.00	100.00	20.00
	0.75	50.00		
	0.80	52.30		
	0.90	55.00		
	1.30	61.00		
	1.90	63.00		
15.00	2.80	65.00	10.00	2.50
15.00	2.80	65.00	10.00	2.50

City Prosperity Index for Mt. Lavinea Council area



Major Contribution to Environmental Sustainability

- ▶ Waste Water Treatment
- ▶ Share of renewable energy
- ▶ CO2 Emissions
- ▶ Solid Waste Collection
- ▶ PM2.5 Concentration



Current situation and major issues - Solid waste

- ▶ No proper collecting system
 - There is no separation of solid waste as plastic, glass, e-waste and organic, due to unawareness of house holders and collectors
 - No proper time schedule
- ▶ No proper disposal system
 - Open dumping (Land filling)
- ▶ Lack of resources
 - Labors
 - Bags
 - Collecting vehicles
 - Tools



Current situation and major issues - Waste water

- ▶ Due to limited land area, difficult to use soakage pits.
- ▶ Contaminating underground water.
- ▶ Bad smell



Current situation and major issues - Renewable energy

- ▶ Non continued power supply by the Ceylon Electricity Board, due to limited power generation.
- ▶ Annual price hike of electricity bill
- ▶ High carbon dioxide emission.



Strategies used to uplift CPI

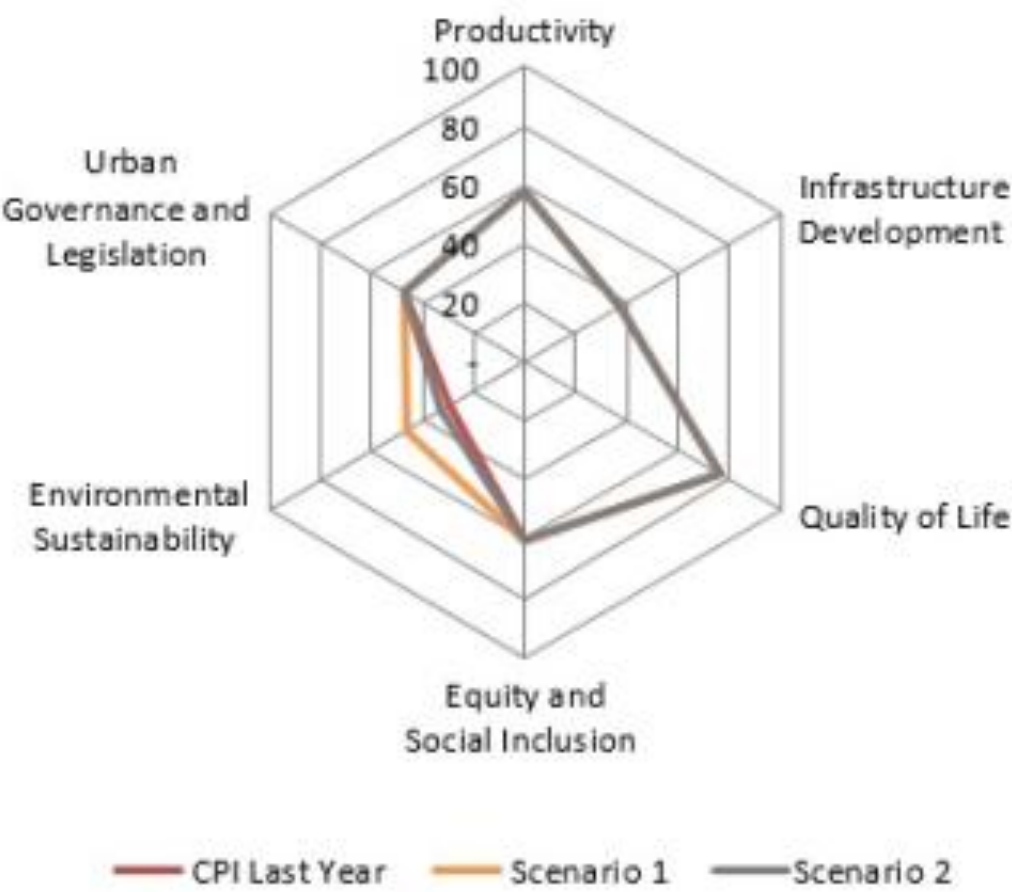
Activity	Description	Time line	Responsibility	Resources
Construction of Waste water Treatment Plant	14,000 m ³ per day	3 years	National Water Supply and Drainage Board	US \$ 40 Million
Share of renewable energy	<ul style="list-style-type: none"> Supply 2kW capacity Net metering solar system for 4,000 houses (68,000) Supply of 10kW capacity net metering system for 25 factories, and Hotels 	3 years	House holders, factory owner, Electricity Board, BOI	US \$ 14 Million (Loan)



Expected City Prosperity Index After executing above

CPI Results

	CPI Last Year	Scenario 1	Scenario 2
Productivity	57.93	57.93	57.93
Infrastructure Development	37.28	37.28	37.28
Quality of Life	76.14	76.14	76.14
Equity and Social Inclusion	60.62	60.62	60.62
Environmental Sustainability	29.17	46.54	32.63
Urban Governance and Legislation	47.60	47.60	47.60
City Prosperity Index	49.00	52.97	49.92



THANK YOU

