

Eighth Regional 3R Forum in Asia and the Pacific

“Achieving Clean Water, Clean Land and Clean Air through 3R and Resource Efficiency- A 21st Century Vision for Asia-Pacific Communities”

Indore, Madhya Pradesh, India, 9-12 April 2018

City Report

(Draft)

<Colombo, Sri Lanka>

This city report was prepared by Colombo, Sri Lanka as an input for the Eighth Regional 3R Forum in Asia and the Pacific. The views expressed herein do not necessarily reflect the views of the United Nations.

EIGHTH REGIONAL 3R FORUM IN ASIA AND THE PACIFIC
9-12 April 2018, Indore, Madhya Pradesh, India

CITY REPORT: [City Name: COLOMBO]

Guideline for City Reporting on Major Initiatives/Achievements in 3R areas

The main objective of the City Reporting is to share among international community the progress, achievements and best practices, including various challenges faced, in the areas of **3R (Reduce, Reuse, Recycle)** and sustainable waste management. This would help development agencies, donors, including development banks, in assessing the needs and challenges of cities to better plan their existing and future capacity building programmes and operations in the field of 3Rs and sustainable waste management.

It would be appreciated if a consolidated city report could kindly be prepared by answering the following questions and submit to the **Secretariat of the Regional 3R Forum in Asia and the Pacific** by email to 3R@uncrd.or.jp

Timeline for submission: **31 January 2018**

Secretariat of the Regional 3R Forum in Asia and the Pacific
 United Nations Centre for Regional Development

CITY REPORT: <u>[City Name: COLOMBO]</u>	
Q 1	<p>What are the roles of local government stipulated in the 3R-related policies, acts, laws, or regulations?</p> <ul style="list-style-type: none"> • Ensure environmental accountability and social responsibility of all stakeholders • Actively involve individuals and all institutions in integrated waste management practices • Maximize resource recovery to minimize the amount of waste disposal • Minimize adverse Environmental and health impact • 3R principal – Waste generation Reduce, Re- use, and recycle to the maximum extent with appropriate treatment • National Environmental standards under the national environmental act • Application of market base instruments with polluter payee principals • Resource maximization by promoting sustainable production and consumption confirming producer responsibility of its life cycles • Efficient Law enforcement for efficient waste management • Encourage efficient and cost-effective collection, transportation, storage, and treatment of solid waste and reduce dispose

EIGHTH REGIONAL 3R FORUM IN ASIA AND THE PACIFIC
9-12 April 2018, Indore, Madhya Pradesh, India

CITY REPORT: [City Name: COLOMBO]

	<ul style="list-style-type: none"> • Conducting awareness programmes to promote people for waste segregation and 3R • Maintaining collection centers or any other methods like waste market to collect recyclable items • Conducting awareness programmes and providing facilities for home composting • Ensured participation of all stakeholders
Q 2	<p>Are 3R policies integrated in your city development strategy or master plan? (Please attach photo(s) of your city's waste management facility if available.)</p>
	<p><input checked="" type="checkbox"/> Yes => Please share goals/visions/major achievements/important lessons learnt that could be replicated elsewhere.</p> <p><input type="checkbox"/> No => Please go to Q7 (please also answer Q5, 6, and 8)</p> <p>Goals</p> <ol style="list-style-type: none"> 1. Full scale source segregation of waste. (non-collection of non-segregated waste) 2. Home composting of bio-degradable waste. 3. Reduce the amount of final waste disposal from 700 tons per day to 500Tons per day in 2020 4. Full scale utilization of Bio degradable waste for composting. 5. Eliminate the illegal temporary dumping points. 6. Achive significant increase in the amount of recycling of recyclable waste. 7. Eliminate the mixing of Industrial waste, e-waste and health-care waste (hazard waste) with Municipal waste. 8. Minimize littering in streets. <p>Major Achievements</p> <ol style="list-style-type: none"> 1. Source segregation of municipal waste into three categories called, <ul style="list-style-type: none"> - Bio-degradable waste - Recyclable waste - Non-Bio-degradable non-recyclable waste (Residual) 2. Converting about 90% of bio-degradable waste into compost at a compost yard. (Reuse) 3. Collection and sending of about 80% of recyclable waste to recycling centers. (Recycling) 4. Elimination of around 90% of illegal dumping points. (Reduce) 5. Elimination of (around 95%) mixing of non-municipal waste with municipal waste. (Reduce) 6. Conducting public awareness for waste segregation and 3R 7. Significant reduction of usage of non-biodegradable non-recyclable polythene by consumers lead to minimize the production.

EIGHTH REGIONAL 3R FORUM IN ASIA AND THE PACIFIC
9-12 April 2018, Indore, Madhya Pradesh, India

CITY REPORT: [City Name: COLOMBO]

Important Lessons learnt

1. Collapse of garbage dumpsite at Meethotamulla



Please attach photos with caption, if available:



Public awareness



Recycling collection



Recycling collection centers



Waste segregation at hospitals



Semi Eng. Land filling at Dompe



open dumping covered with soil



Converting biodegradable waste into compost fertilize



Home composting

EIGHTH REGIONAL 3R FORUM IN ASIA AND THE PACIFIC
9-12 April 2018, Indore, Madhya Pradesh, India

CITY REPORT: [City Name: COLOMBO]

Q 3	What are the major challenges and constraints faced by your city in implementing 3R policies and programmes?	
	(Please answer only if your answer to Q2 is “Yes”)	
	Financial constraints:	The only revenue for Colombo Municipal Council is the rate payments. Therefore, there are financial constrains to develop infrastructure facilities to improve recycling collections.
	Institutional/governance challenges:	Lack of Research and Development Division Lack of lands within the city for proper waste management.
	Policy gaps:	There are issues in enforcement of 3R due to lack of proper By-laws for 3R.
	Other challenges such as technical capacity, human resources etc.:	Lack of trained staff for - labours - supervisors Lack of trained Technical officers
Q 4	What programme is in place in your city in support of NGOs activities towards promotion of 3Rs?	
	No programme at the moment. But in early 2000s the home composting projects done with the support of NGOs.	
Q 5	Is there any collaborative 3R activities/projects/partnerships involving cities (e.g., city-to-city cooperation) and organizations at international level?	
	<input type="checkbox"/> Yes => Please brief the project(s) including objectives, project partners, target, period, budget etc. <input checked="" type="checkbox"/> No Please attach photos of the project (s) with caption, if available:	
Q 6	What major future prospects or opportunities does your city have in 3R areas?	
	Reuse- Waste to energy projects will operate within 2-3 years’ time Reduce- laws will enforce to eliminate the usage of polythene Sanitary land fill – the residual waste, following the implementation of reduce, reuse, recycle and composting methods, is appropriately disposed of in order to minimize negative environmental and health impacts	

EIGHTH REGIONAL 3R FORUM IN ASIA AND THE PACIFIC
9-12 April 2018, Indore, Madhya Pradesh, India

CITY REPORT: [City Name: COLOMBO]

Q 7	What type of 3R infrastructure and facilities your city is equipped with? Please tick the appropriate.			
	Type of 3R infrastructure and facilities	Adequate/ Significant	If adequate, how many treatment facilities (in number)	Not-adequate / Non-significant
	X waste collection facility	<input type="checkbox"/>		x
	<input type="checkbox"/> waste segregation facility	<input type="checkbox"/>		x
	<input type="checkbox"/> waste storage facility	<input type="checkbox"/>		x
	<input type="checkbox"/> waste processing & treatment facility	<input type="checkbox"/>		x
	<input type="checkbox"/> resource recovery facility	<input type="checkbox"/>		x
	<input type="checkbox"/> waste recycling facility	<input type="checkbox"/>		x
	<input type="checkbox"/> waste to energy facility	<input type="checkbox"/>		x
	<input type="checkbox"/> eco-industrial zones	x		<input type="checkbox"/>
	<input type="checkbox"/> science parks/theme parks relevant to 3R	x		<input type="checkbox"/>
<input type="checkbox"/> others (please specify:)	x		<input type="checkbox"/>	
Q 8	Kindly provide the important 3R policies/programmes/projects/master plans that your City Government plans to undertake within next five years (2017-2022).			
<p>Revision of By laws</p> <p>Waste to energy projects</p> <p>By-laws to minimize the usage of polythene</p> <p>Strengthening the recyclers/recycling collectors to improve recycling work.</p>				

EIGHTH REGIONAL 3R FORUM IN ASIA AND THE PACIFIC
9-12 April 2018, Indore, Madhya Pradesh, India

CITY REPORT: [City Name: COLOMBO]

<p>Q 9</p>	<p>In response to the 2030 Agenda for Sustainable Development, in particular <i>SDG 6 (Water and Sanitation)</i>, <i>SDG 11 (Make cities and human settlements inclusive, safe, resilient and sustainable)</i> and <i>SDG 12 (Ensure sustainable consumption and production patterns)</i>, how your City is planning to advance 3R and resource efficiency related measures?</p>			
	<ul style="list-style-type: none"> • By 2030, achieve safe and affordable drinking water for all • Support and strengthen the participation of local communities in improving water and sanitation management • By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management by urban solid waste regularly collected and with adequate final discharge out of total urban solid waste generated, by the city. • By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment • By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse 			
<p>Q 10</p>	<p>What are the main challenges in your city concerning clean water, clean land and clean air? (Please answer the below points)</p>			
		<p align="center">Yes</p>	<p align="center">If yes, kindly write frequency of analyzing (number per month)</p>	<p align="center">No</p>
	<p>Do you regularly analyze the air pollution in laboratories (NO_x, air particles and other pollutants)?</p>	<p align="center"><input type="checkbox"/></p>		<p align="center">x</p>
	<p>Do you regularly analyze the water contamination through chemically and biologically test (DO, heavy metal and microbial water quality)?</p>	<p align="center">x</p>	<p align="center">160 per month</p>	<p align="center"><input type="checkbox"/></p>
	<p>Do you regularly analyze the soil pollution (disposal of hazardous and chemical waste)?</p>	<p align="center"><input type="checkbox"/></p>		<p align="center">x</p>

EIGHTH REGIONAL 3R FORUM IN ASIA AND THE PACIFIC
9-12 April 2018, Indore, Madhya Pradesh, India

CITY REPORT: [City Name: COLOMBO]

Q 11	In response to the New Urban Agenda, in particular <i>Sustainable and inclusive urban prosperity and opportunities for all</i> and <i>Environmentally sustainable and resilient urban development</i>, how your City is planning to contribute to safe, inclusive and resilient city building related to 3R and sustainable waste management areas?
	<ul style="list-style-type: none">• All sites and premises not designated for a specific use form part of an area zoned in one or other of the Zines mentioned hereunder,<ol style="list-style-type: none">a. primary residential Zoneb. Special Primary Residential Zonec. mixed Development Zoned. Commercial Zonee. port Related Activity Zone• The authority where appropriate, may define any area comprised in the Development Plan as a Special Project Area, Redevelopment Area, Planned development Area, Low Income Housing Area, Slum and Shanty Area, Central Business Area, Cultural Area, Scenic Area, Conservation Area or area for special treatment.
Q 12	[For Indian cities only], how is your city linking 3R (Reduce, Reuse and Recycle) to the Swachh Bharat Mission (Clean India Mission)? Do you think circular economic utilization of all waste streams in India would accelerate faster achievement of Swachh Bharat Mission? If so, is your city equipped with required 3R policies, programmes and infrastructures towards circular economic utilization of the waste streams?

*Kindly submitted to the Secretariat of the Regional 3R Forum in Asia and the Pacific by email to 3R@uncrd.or.jp before **31 January 2018**.
Thank you for your kind cooperation.*