

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)

<Thrissur, India>

This city report was prepared by Thrissur, India 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.

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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: **30 March 2018**

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

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Q 1	What are the roles of local government stipulated in the 3R-related policies, acts, laws, or regulations?
	Thrissur Municipal Corporation has taken several steps in implementing 3R policies like the Plastic Waste Management byelaw passed on 29-10-2017 by the council. The use of the substandard plastic products is banned in the corporation area as a part of 3R implementation and strict monitoring by specially formed squads are also arranged with modern micrometer and other equipment. Solid waste management and handling rule of 2016 is strictly followed by insisting the policy of producers liability and propagating the slogan “ Our Waste Our Responsibility ” Awareness campaigns are conducted at various levels through schools, residence associations and Auditoriums and convention centers. Efforts are taken by the corporation to ensure reusable plates and glasses are used in marriage and other functions in these auditoriums and convention centers.

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Q 2	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>√ Yes => Please share goals/visions/major achievements/important lessons learnt that could be replicated elsewhere. <input type="checkbox"/> No => Please go to Q7 (please also answer Q5, 6, and 8)</p> <p>Thrissur Corporation has formulated a CSP (City Sanitation Plan) in line with the city development Plan. Projects for organic waste converters, solid waste segregation units and collection centers were formulated and listed.</p> <p>Goals and Achievements</p> <ul style="list-style-type: none"> •Main objective is to enable efficient segregation at source- By mass awareness programs and classes given at schools for the budding citizens. •Treatment at source- Educating the masses to convert their waste to manure at the source with the help of Bio-pots, Bio-bins, Biogas Plants, Pipe compost and compost pits. •Corporation has provided mobile waste converters to flats and bulk producers for converting their day to day waste. •Collection centers provided for collecting segregated dry waste at different places inside the corporation area. •Food waste collection centers are setup to collect wet waste and the same is forwarded to piggeries. •Installing master segregation yards and storage area for segregated plastic and other dry waste. •Installing shredding units for plastic shredding and handing over to Clean Kerala Company for use in road tarring. •Policy making to have flats to have their own treatment facility. •Door to door collection of waste by SHGs. •Outsourcing the market waste to farmers. •Community biogas plants set up by corporation. •Corporation is supplying marked colour bags to house holds for segregated non-biodegradable waste. •Set up permanent Swap shops •MRF centers to be increased. <p>Please attach photos with caption, if available:ANNEXURE-1</p>
Q 3	What are the major challenges and constraints faced by your city in implementing 3R policies and programmes?

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(Please answer only if your answer to Q2 is “Yes”)	
Financial constraints:	<ul style="list-style-type: none"> Finding salary and other expenses from the services given to public Land and facilities of transport Fund for providing subsidies to farmers Fixing the sale value of manure and non-degradable waste
Institutional/governance challenges:	<ul style="list-style-type: none"> Formulating a waste management byelaw with consensus of council and technical hands Establishing waste conversion and segregation centers at specific places Establishing a sustainable collection and monitoring system Scarcity of barren lands for landfill sites Lack of technological support to handle and process waste Illegal dumping of waste from outside city boundaries inside corporation territory
Policy gaps:	Implementation of antilittering policy is not efficient as it has to be with coordination with different departments
Other challenges such as technical capacity, human resources etc.:	<ul style="list-style-type: none"> Technical glitches and routine maintenance of machineries are needed to be outsourced because of lack of technical staff in municipal service. Difficulty in getting work force due to urbanization.
Q 4	What programme is in place in your city in support of NGOs activities towards promotion of 3Rs?
	<p>Thrissur corporation has associated with several NGOs ,Rotary Club, Lions Club and Residents Associations to conduct awareness campaigns through schools, colleges and other institutions. With the help of these institutions implementing decentralized waste management. Installing ward wise community wise treatment facilities and the management of the same by local committees and residential associations We are planning to conduct awareness to reduce the wastage by educating the public controlling the extravagance in weddings and catering industry.</p>
Q 5	Is there any collaborative 3R activities/projects/partnerships involving cities (e.g., city-to-city cooperation) and organizations at international level?
	<p><input type="checkbox"/> Yes => Please brief the project(s) including objectives, project partners, target, period, budget etc.</p> <p><input checked="" type="checkbox"/> No</p> <p>Please attach photos of the project (s) with caption, if available:</p>

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Q 6	What major future prospects or opportunities does your city have in 3R areas?			
	<ul style="list-style-type: none"> • Permanent swap shops to be setup • Repair workers of day to day usage things like umbrella, footwear etc. to be organized and registered to provide better reuse of such materials • Registration and organizing of rag pickers and scrap dealers to identify usable materials and to serve the same to the needy. • Collection of used dress materials, Electronic Goods and books and reconditioning it to be given to deserving masses. • To implement green protocol for all functions and public meetings in the city • Propagation of 3R through new generation citizens to give a better impact in the society and bring in behavioral change. • Reduce the use of disposable items in all sorts of activities in the society. 			
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
	<input type="checkbox"/> waste collection facility	√	24	<input type="checkbox"/>
	<input type="checkbox"/> waste segregation facility	<input type="checkbox"/>		√
	<input type="checkbox"/> waste storage facility	<input type="checkbox"/>		√
	<input type="checkbox"/> waste processing & treatment facility	√	8	<input type="checkbox"/>
	<input type="checkbox"/> resource recovery facility	<input type="checkbox"/>		√
	<input type="checkbox"/> waste recycling facility	<input type="checkbox"/>		√
	<input type="checkbox"/> waste to energy facility	<input type="checkbox"/>		√
	<input type="checkbox"/> eco-industrial zones	<input type="checkbox"/>		√
	<input type="checkbox"/> science parks/theme parks relevant to 3R	<input type="checkbox"/>		√
<input type="checkbox"/> others (please specify:)	<input type="checkbox"/>		<input type="checkbox"/>	

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<p>Q 8</p>	<p>Kindly provide the important 3R policies/programmes/projects/master plans that your City Government plans to undertake within next five years (2017-2022).</p> <ul style="list-style-type: none"> •Ward wise decentralized waste disposal and management system to be implemented •MRF centers to be established in different places •More shredding and pressing units to be employed to increase plastic processing •Sewerage and septage treatment plants to be constructed to enable water reuse •Major waste producers will be directed and monitored to handle their waste at source •Betterment of collection and processing of waste with the help of SHGs and other organisations.
<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> <p>In response to the 2030 Agenda for Sustainable Development specially SDG6 &11 we are playing a vital role by implementing different plans role out by central government like PMAY(Pradhan Manthri Avas Yojna)for sustainable and safe housing, AMRUT(Atal Mission for Rejuvenation and Urban Transformation) for water supply and other infrastructure like sewerage and sanitation and better recreational facilities, NULM(National Urban Lively Hood Mission)for giving better livelihood by training the less privileged public and supporting them economically for entrepreneurship. Other than this state government also has taken steps to give the citizens safe housing all through LIFE Mission, Haritham Project and various initiatives through Kudumbashree. Thrissur Corporation Electrical Department (TCED) has its own initiatives in sustainable non-conventional energy projects like solar power production. For energy conservation and saving street lights have been changed to LED and LED bulbs are supplied in subsidies to households to promote use of less power consuming electrical appliances. NRW reduction measures are also taken up in AMRUT Mission and free connections proposed to the economically weak sections of the society.</p>
<p>Q 10</p>	<p>What are the main challenges in your city concerning clean water, clean land and</p>

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clean air? (Please answer the below points)				
	Yes	If yes, kindly write frequency of analyzing (number per month)	No	
Do you regularly analyze the air pollution in laboratories (NOx, air particles and other pollutants)?	√	10	<input type="checkbox"/>	
Do you regularly analyze the water contamination through chemically and biologically test (DO, heavy metal and microbial water quality)?	√	29	<input type="checkbox"/>	
Do you regularly analyze the soil pollution (disposal of hazardous and chemical waste)?	<input type="checkbox"/>		<input type="checkbox"/>	
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?			
	Building permits are issued to builders confirming to conditions and regulations of Pollution control board, Municipal Act and the waste management and handling regulations. D&O licence is also issued after proper inspection for waste disposal and processing arrangements to such establishments. Subsidized Bio bins, Pipe compost units, Biogas Plants and other facilities to households. Awareness is created to initiate a sustainable behavioral change and initiate reduction of waste production, reuse of possible resources and scientific recycling of waste.			
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?			
	Swachh Bharath Mission(SBM) is making the city ODF(open Defecation Free)and creating a sanitization drive in connection to these our city is planning decentralized Sewerage Treatment Plants ,Septage Treatment facilities at suitable places and facilitating reuse of water and the solid waste to manure. We are initiating different 3R policies to enable sustainable environmental friendly			

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	<p>development. We have now concentrated on segregation and processing at source of waste production and public level handling and management of waste. Non Bio-degradable waste is also segregated according to its use and recycling capacity to ensure sustainable waste management.</p>
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*Kindly submitted to the Secretariat of the Regional 3R Forum in Asia and the Pacific by email to 3R@uncred.or.jp before **30 March 2018**.*

Thank you for your kind cooperation.

Annexure

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OWC Plant at Shakthan Nagar Thrissur



Tray Arrangement at OWC Plant Shakthan Nagar Thrissur



Waste bailing unit at Thrissur



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MRF CENTERS



PALLIKULAM OFFICE AND STOCK YARD



SHREDDING MACHINE

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Mobile waste converter of Thrissur Corporation



Segregated waste Stock at Paravattani



Training Given to Kudumbashree Volunteers



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Awareness campaign with Suchitwa Missiion



Awareness campaign with Suchitwa Missiion



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GREEN PROTOCOL CAMPAIGN AND WORK AT STATE YOUTHN FESTIVAL,THRISSUR