

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)

< Dhankuta, Nepal >

This city report was prepared by Dhankuta, Nepal 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
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CITY REPORT: [City Name: Dhankuta Municipality]

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

Bikas Adhikari, Environment Section

CITY REPORT: [City Name: Dhankuta Municipality, Nepal]	
Q 1	What are the roles of local government stipulated in the 3R-related policies, acts, laws, or regulations?
	a) Solid Waste Management Act, 2011 -Whereas, it is expedient to make the management of the solid waste in a systematic and effective way by reducing at its source, re-use, processing or discharge and for maintaining a clean and healthy environment through the reduction of adverse effects that may be caused to the public health and environment by amending and consolidating the laws relating to the management of solid waste like most essential services laws. - Local Body may, take necessary steps to encourage the reduction, re-use and recycling use of solid waste, by issuing necessary directives for its effective implementation. 2) Local Body may coordinate with the concerned industry in the works to encourage the reduction of quantity of solid waste by making re-use of the material used for packing industrial products.

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

CITY REPORT: [City Name: Dhankuta Municipality]

	<p>b)Solid Waste Management Rule, 2013</p> <p>-The Local Body shall, while fixing segregation at least of organic and non-organic solid waste at its source under Section 6, have to make management and segregation of harmful or chemical waste separately. If it is prescribed as above, the individual, organization or agency generating such solid waste, shall have to make segregation as prescribed.</p> <p>- The responsibility of managing the chemical or harmful solid waste under Sub-Rule (1) shall be of concerned generator.</p> <p>- The Local Body shall conduct programs for increasing people's awareness in relation to applying appropriate technology for making segregation through reduction of generation of solid waste at its source and management under Sub-Rule (1).</p>
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 type="checkbox"/> Yes => Please share goals/visions/major achievements/important lessons learnt that could be replicated elsewhere.</p> <p align="center">Vision: Dhankuta Municipality: clean, beautiful and prosperous city 2020</p> <p>Dhankuta municipality has won the clean city award for 2 times since 2016, more than 150 municipality attempt official visit for observation of solid waste management system in Dhankuta municipality.</p> <p><u>Strategy for 3R</u></p> <p>1. Municipal solid waste reduction at sources (3R)</p> <ul style="list-style-type: none"> - provide awareness training. - distribute compost bin and segregation bin. - provide vermin composting training. - waste to energy at household level. <p>2. Improvement of community and private participation as a partnership on 3R</p> <ul style="list-style-type: none"> - Implementation of community based composting activities - collection of recyclable materials to sell scarp dealers - promotion of recycled goods to be used <p>3. Institutional and human resources development</p>

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

CITY REPORT: [City Name: Dhankuta Municipality]

-provide a capacity building training for solid waste workers

- developed knowledge of 3R

4. Improvement regulation, standard, guideline, criteria and law enforcement.

- Revision of local Waste Management Regulation

Please attach photos with caption, if available:



Provide awareness training on 3R.





Provide composting training on household level.



Waste segregation at landfill site

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	<div style="display: flex; justify-content: space-around;">   </div> <p align="center" style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Providing 3R training</p>								
<p>Q 3</p>	<p>What are the major challenges and constraints faced by your city in implementing 3R policies and programmes?</p> <p>(Please answer only if your answer to Q2 is “Yes”)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%; padding: 5px;">Financial constraints:</td> <td style="padding: 5px;">- Limited Budget for 3R.</td> </tr> <tr> <td style="padding: 5px;">Institutional/governance challenges:</td> <td style="padding: 5px;">- Complexities on the implementation of PPP projects in municipality. - Lack of coordinating among stakeholders.</td> </tr> <tr> <td style="padding: 5px;">Policy gaps:</td> <td style="padding: 5px;">- Lack of clear policies to identify the preferred waste management system in local level. - Non-existence of ordinance specifically on the 3R plan and strategies,</td> </tr> <tr> <td style="padding: 5px;">Other challenges such as technical capacity, human resources etc.:</td> <td style="padding: 5px;">- Limited land available for waste processing/recycling facilities in the city (only 1.62 hctr); - Lack of community awareness. - Lack of technical knowledge about 3R.</td> </tr> </table>	Financial constraints:	- Limited Budget for 3R.	Institutional/governance challenges:	- Complexities on the implementation of PPP projects in municipality. - Lack of coordinating among stakeholders.	Policy gaps:	- Lack of clear policies to identify the preferred waste management system in local level. - Non-existence of ordinance specifically on the 3R plan and strategies,	Other challenges such as technical capacity, human resources etc.:	- Limited land available for waste processing/recycling facilities in the city (only 1.62 hctr); - Lack of community awareness. - Lack of technical knowledge about 3R.
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<p>Q 4</p>	<p>What programme is in place in your city in support of NGOs activities towards promotion of 3Rs?</p> <p>Dhankuta municipality continuously collaborates with NGOs and Community base organizations (CBOs) to educate and to raise the awareness of residents on the importance of sustainable and healthy environment including 3R activities. And also providing school level awareness education to the students about 3R issues.</p>								

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

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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?			
	-yes we have lots of opportunities. Vermin composting will get chance to occupational opportunities this attract to organic farmers.			
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	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>
	<input type="checkbox"/> waste segregation facility	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>
	<input type="checkbox"/> waste storage facility	<input type="checkbox"/>		<input checked="" type="checkbox"/>
	<input type="checkbox"/> waste processing & treatment facility	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>
	<input type="checkbox"/> resource recovery facility	<input type="checkbox"/>		<input checked="" type="checkbox"/>
	<input type="checkbox"/> waste recycling facility	<input type="checkbox"/>		<input checked="" type="checkbox"/>
	<input type="checkbox"/> waste to energy facility	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>
	<input type="checkbox"/> eco-industrial zones	<input type="checkbox"/>		<input checked="" type="checkbox"/>
	<input type="checkbox"/> science parks/theme parks relevant to 3R	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>
<input type="checkbox"/> others (please specify:)	<input type="checkbox"/>		<input type="checkbox"/>	

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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).			
	Dhankuta municipality got a newly elected representative. Municipality is currently drafting ordinance on plan and strategies of 3R implementation including ordinance on Extended Producer Responsibility which requires manufacturers to be responsible for all adverse environmental impacts resulting from their products, either during the process or after consumption.			
Q 9	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?			
	The development of waste management infrastructure is directed towards establishing a modern, high-tech and environment-friendly waste treatment facility in the municipality and an increase in inter-regional cooperation in the management of the final waste processing site. Modern waste management by using environment-friendly technologies made through mutually beneficial partnership between the government and the private sector. And promote the reduction, recycling, and proper disposal of waste according to their respective positions.			
Q 10	What are the main challenges in your city concerning clean water, clean land and 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)?	<input type="checkbox"/>		<input type="checkbox"/> ✓
	Do you regularly analyze the water contamination through chemically and biologically test (DO, heavy metal and microbial water quality)?	<input type="checkbox"/>		<input type="checkbox"/> ✓
	Do you regularly analyze the soil pollution (disposal of hazardous and chemical waste)?	<input type="checkbox"/>		<input type="checkbox"/> ✓

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*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.*