

**Eighth Regional 3R Forum in Asia and the Pacific**

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

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

# **City Report**

**(Draft)**

**< Vientiane, Lao PDR >**

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This city report was prepared by Vientiane, Lao PDR 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: [ Vientiane Capital City ]**

**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](mailto: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

<b>CITY REPORT: [ <u>Vientiane Capital City</u> ]</b>	
<b>Q 1</b>	<b>What are the roles of local government stipulated in the 3R-related policies, acts, laws, or regulations?</b>
	<p>Modern waste management has only been recently developed in Lao PDR and there is no yet appropriate legal framework for it. The National Assembly approved a draft law regarding national hygiene, health care, and protection on 6 May 2001. This law defines the main responsibilities for waste management and provides a framework for more detailed regulations. But the implementation has not yet reached full capacity due to lack of resources.</p> <p>The main government body responsible for waste management is the Ministry of Public Works and Transport (MPWT) The main agency responsible for the environment is the Ministry of Natural Resources and Environment (MONRE). While these ministries, as focal point, are involved in the preparation of environmental laws and regulations, they are not directly involved in waste management.</p> <p>The responsible agency for waste collection and disposal are cities councils.</p> <p>In Vientiane Capital, it is the Vientiane Solid Waste Collection and disposal Unit</p>

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**CITY REPORT: [ Vientiane Capital City ]**

	<p>(formally known as the Sanitation and Environment Agency) under the Vientiane City Office of Management and Service (VCOMS). For the other cities, the provincial administration and the district office of Public Works and Transport are the key responsible agencies.</p> <p>The policy decision for solid waste management in each province is by provincial decree. The provincial decree allocates budget to the responsible agency or committee, defines the general scope of work, and sets the waste collection fees for private households, government offices and commercial enterprises. The provincial decrees form the most effective management tool for supervision and for public co-operation.</p> <p>While these regulations provide a broad legal framework for waste management, there are still many gaps that need to be filled. In particular, rules to support community and private sector involvement have to be set up. The local authorities have also not yet taken serious steps to introduce recycling.</p> <p>The Government has yet to formulate any long-term vision on integrated waste management. An integrated waste management strategy would allow the government to introduce preventive measures targeting all producers of waste, including waste minimization, waste reuse, and recycling. The role of the Ministry of Natural Resources and Environment (MONRE) should be strengthened and clarified. The concept and implications of the 3Rs (reduction, reuse, and recycling) should be promoted, especially through awareness raising and public participation activities. The regulations and measures should be implemented and enforced properly. As soon as possible waste management at every level should be monitored scientifically.</p> <p><b>For municipal solid waste</b></p> <p>A draft decree from 2009 exists on SWM, but this has not been officially approved yet. This document has overall guidelines and requirements for all the SWM components, including hazardous and medical waste. This has been available and reviewed, and the requirements taken into consideration.</p> <p>There is an existing decree on Disposal site management (No 520 / TCPC, dated 23 Feb 2007), regulating site selection and design of disposal sites.</p> <p>Guideline on Household Solid Waste Management in Vientiane Prepared by The Vientiane City Office for Management and Service (VCOMS), VUDAA formerly (30 April 2010)</p>
<b>Q 2</b>	<p><b>Are 3R policies integrated in your city development strategy or master plan?</b>          (Please attach photo(s) of your city's waste management facility if available.)</p>

**EIGHTH REGIONAL 3R FORUM IN ASIA AND THE PACIFIC**  
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	<p><input type="checkbox"/> Yes ⇒ Please share goals/vision/major achievements/important lessons learnt that could be replicated else here.</p> <p><input checked="" type="checkbox"/> No ⇒ Please go to Q6 (please also answer Q4,5 and 7)</p> <p>Please attached photos with caption, if available :</p>								
<b>Q 3</b>	<p><b>What are the major challenges and constraints faced by your city in implementing 3R policies and programmes?</b>          (Please answer only if your <u>answer to Q2 is “Yes”</u>)</p> <table border="1"> <tr> <td>Financial constraints:</td> <td></td> </tr> <tr> <td>Institutional/governance challenges:</td> <td></td> </tr> <tr> <td>Policy gaps:</td> <td></td> </tr> <tr> <td>Other challenges such as technical capacity, human resources etc.:</td> <td></td> </tr> </table>	Financial constraints:		Institutional/governance challenges:		Policy gaps:		Other challenges such as technical capacity, human resources etc.:	
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<b>Q 4</b>	<p><b>What programme is in place in your city in support of NGOs activities towards promotion of 3Rs?</b></p> <p>In the year 1998, the Vientiane Capital had a sanitary landfill site with the management system that met the international standard for the first time in its history, this landfill site was located at Km 18 of road 13 South in Phokham village, Saythany district, Vientiane Capital, this had the financial support from the Japanese Government worth 700 million Yen (Japanese currency) for the construction of sanitary landfill site at Km 18 and for the procurement of waste collection vehicles and heavy equipment.</p> <p>During the years 2001-02, the Dutch embassy has provided the grant aid for supporting the implementation of a joint awareness project for solid waste management worth US\$ 10,000.</p> <p>In the years 2003-04, the Vientiane Capital has implemented the joint PPPUE through the United Nations Development Program worth US\$ 100,000.</p> <p>From 2004 to 2007, the Japanese Funds for Poverty Reduction ( JFPR) has supported the implementation of community solid waste management through the Asian Development Bank worth US\$ 1,000,000.</p>								
<b>Q 5</b>	<p><b>Is there any collaborative 3R activities/projects/partnerships involving cities (e.g., city-to-city cooperation) and organizations at international level?</b></p>								

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	<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 ⇒ Please attach Photo with caption, if available:</p>
<b>Q 6</b>	<p><b>What major future prospects or opportunities does your city have in 3R areas?</b></p> <p><b>Laos Pilot Program for Narrowing the Development Gap towards ASEAN</b></p> <p><b>Integration-Environmental Management Component (LPPE)</b></p> <p>The purpose of this small pilot program is the enhanced promotion of Environmentally Sustainable Cities (ESC) in Lao PDR based on the “ASEAN Initiative on Environmentally Sustainable Cities(AIESC)”.</p> <p>The expected outputs were:</p> <ul style="list-style-type: none"> <li>• Output 1: The guidelines on ESC (ESC_GL) are formulated based on the National Environmental Strategy 2020 and related strategies and action plans.</li> <li>• Output 2: As part of urban environmental management (UEM), solid waste management (SWM) in the three pilot cities (Vientiane Capital, LuangPrabang and Xaiyabury) is improved based on the Guidelines on ESC.</li> <li>• Output 3: Community-based UEM on SWM is promoted in the three pilot cities</li> </ul> <p>Promotion of Environmentally Sustainable Cities (ESC) under LPPE</p> <p>Some activities for output 2 in Vientiane Capital include:</p> <ul style="list-style-type: none"> <li>• 3Rs Promotion at Generation Sources: <ul style="list-style-type: none"> <li>– On-site composting by compost barrel</li> <li>– Recyclable wastes separation</li> <li>– Reduction of plastic shopping bags by using the Eco-bags</li> </ul> </li> <li>• Collection System Improvement: <ul style="list-style-type: none"> <li>– Establishment of discharge rules for collection system improvement, i.e. day, time, place, container, etc.</li> </ul> </li> </ul>

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<ul style="list-style-type: none"><li>– Elimination of non-collection households in the target villages.</li><li>• Final Disposal System Improvement</li><li>• Improvement of HCWM</li><li>• Institutional System Improvement<ul style="list-style-type: none"><li>– Preparation of proposals for decrees, regulations and rules necessary for SWM improvement</li><li>– Preparation of proposals for financial system improvement necessary for SWM improvement</li></ul></li></ul> <p><b>Approaches for public participation in solid waste management</b></p> <p>To enable people and society to participate in the solid waste management project, we should disseminate the information on solid waste management to them; to motivate people so that they are familiar with and participate in the project activities. The village administration authority of each village may choose different forms and methods for people, based on the real circumstances of each village, the economic situation, tradition and culture of each locality and the educational level of people. The access to and people participation that can be implemented are as follows:</p> <ol style="list-style-type: none"><li>1. To divide the service area into smaller areas of about 50-100 families in order to encourage people to separate their household waste and monitor and assess the work done more easily and faster;</li><li>2. The public relation and information dissemination: necessity to determine clearly people in charge and have permanent activities by establishing the people responsible for recycling project: the recycling project should be managed and commanded by a high ranking officer, for example the Vientiane Urban Development and Administration Authority is responsible for solid waste management: the unit manager in each village has the opportunity to meet and contact Unit people, it will help improving the collaboration with the unit people and it is a benefit for the and the efficacy of the waste management;</li><li>3. There is a need to establish a special branch under the recycling project that is compiling the relevant data on the implementation of project such as the requirement or complaint of people, problems and obstruction of the work implementation of employees including monitoring and assessment that are to be used in the planning and improvement of the project operation to be more efficient; this unit should belong to the environmental section of the VCOMS;</li><li>4. To establish a drop-off center to help people to participate in solid waste management and sorting out their waste according to determined types and then</li></ol>
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**EIGHTH REGIONAL 3R FORUM IN ASIA AND THE PACIFIC**  
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	<p>to drop into separate containers provided: This new concept of solid waste management shows that it is the duty of people to bring their sorted wastes and drop them into the containers provided. This operation will expand the role of citizens. VCOMS will provide containers to the drop-off center as well as along the main roads and the typical size of waste containers is 120 liters;</p> <ol style="list-style-type: none"> <li>5. To promote and support primary schools in the recycling activities to make pupils aware of waste separation and stimulate the pupils' parents to cooperate with the recycling project;</li> <li>6. To hold gathering for people compiling recycling materials in order for them to sell their production in designated location on weekend by disseminating the information and inviting the interested people through the mass media such as newspaper, radio, and television;</li> <li>7. To organize fair for selling recycled goods in public places and to invite people to bring used things in good conditions, in working order for selling with good price once a week;</li> </ol> <p>To request for cooperation and for a technical support from the unit that is relating to the recycling activities such as the water resource and environment administration, the national science and technology organization, the ministry of public works and transport and the international organizations.</p>																																												
<p><b>Q 7</b></p>	<p>What type of 3R infrastructure and facilities your city is equipped with? Please tick the appropriate.</p> <table border="1"> <thead> <tr> <th><b>Type of 3R infrastructure and facilities</b></th> <th><b>Adequate/ Significant</b></th> <th><b>If adequate, how many treatment facilities (in number)</b></th> <th><b>Not-adequate / Non-significant</b></th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> waste collection facility</td> <td><input type="checkbox"/></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> waste segregation facility</td> <td><input type="checkbox"/></td> <td></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> waste storage facility</td> <td><input type="checkbox"/></td> <td></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/> waste processing &amp; treatment facility</td> <td><input type="checkbox"/></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> resource recovery facility</td> <td><input type="checkbox"/></td> <td></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/> waste recycling facility</td> <td><input type="checkbox"/></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> waste to energy facility</td> <td><input type="checkbox"/></td> <td></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> eco-industrial zones</td> <td><input type="checkbox"/></td> <td></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> science parks/theme parks relevant to 3R</td> <td><input type="checkbox"/></td> <td></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/> others (please specify: )</td> <td><input type="checkbox"/></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table>	<b>Type of 3R infrastructure and facilities</b>	<b>Adequate/ Significant</b>	<b>If adequate, how many treatment facilities (in number)</b>	<b>Not-adequate / Non-significant</b>	<input checked="" type="checkbox"/> waste collection facility	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/> waste segregation facility	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/> waste storage facility	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/> waste processing & treatment facility	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/> resource recovery facility	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/> waste recycling facility	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/> waste to energy facility	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/> eco-industrial zones	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/> science parks/theme parks relevant to 3R	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/> others (please specify: )	<input type="checkbox"/>		<input checked="" type="checkbox"/>
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Q 8	<p><b>Kindly provide the important 3R policies/programmes/projects/master plans that your City Government plans to undertake within next five years (2017-2022).</b></p>			
<p> </p>				
Q 9	<p><b>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?</b></p>			
<p> </p>				
Q 10	<p><b>What are the main challenges in your city concerning clean water, clean land and clean air?(Please answer the below points)</b></p>			
		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 checked="" 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 checked="" type="checkbox"/>
Do you regularly analyze the soil pollution (disposal of hazardous and chemical waste)?		<input type="checkbox"/>		<input checked="" type="checkbox"/>
Q 11	<p><b>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</i></b></p>			



**EIGHTH REGIONAL 3R FORUM IN ASIA AND THE PACIFIC**  
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	<i>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?
<b>Q 12</b>	<b>[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?</b>

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