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Ministry of Housing &
Urban Affairs, Government of India



PROGRAMME

EIGHTH REGIONAL 3R FORUM IN ASIA AND THE PACIFIC

“Mission Zero Waste”



9-12 April 2018

Brilliant Convention Centre, Indore, Madhya Pradesh, India

Theme

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

Co-organizers

Ministry of Housing and Urban Affairs, Government of India

Ministry of the Environment, Japan

United Nations Centre for Regional Development of the Division for Sustainable Development /
United Nations Department of Economic and Social Affairs

Forum Chair

Minister of State (I/C), Ministry of Housing and Urban Affairs, Government of India

City Partner

Indore Municipal Corporation

Organizing State Partner

Government of
Madhya Pradesh

Industry Partner

Confederation of
Indian Industry

Supporting Organizations

United Nations Industrial Development Organization

United Nations Environment Programme - International Environmental Technology Centre

Institute of Global Environmental Strategies

AIT Regional Resource Centre for Asia and the Pacific

South Asia Co-operative Environment Programme

Global Science, Technology & Innovation Conference / VITO NV

International Solid Waste Association





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Summary of Pre/Parallel/Associated/Main Events of Eighth Regional 3R Forum in Asia and the Pacific, 9-12 April 2018, Indore, Madhya Pradesh, India			
No	Title of Main/Pre/Parallel events	Date / Time	Room no.
1.	8th Regional 3R Forum in Asia and the Pacific <i>(Main Event)</i>	10-12 April 2018	The Grand Hall (Ground Floor Level)
2.	<i>Pre-event</i>	9 April 2018 / 15:00-21:00	The Grand Hall (Ground Floor Level)
3.	Indian Industry Session on 3R and Waste Management <i>(Parallel-event)</i>	10 April 2018 / 12:00-16:00	Phoenix Hall (Lower Ground Floor Level)
4.	Recycling of Land based Marine Litter: Challenges and Opportunities in South Asia Region <i>(Parallel-event)</i>	11 April 2018 / 14:20-16:20	Target-I Room (Lower Ground Floor Level)
5.	Asian Mayors Policy Dialogue on Achieving Clean Water, Clean Land and Clean Air through 3R and Resource Efficiency <i>(Parallel-event)</i>	11 April 2018 / 09:30-20:15	The Imperial Hall (Second Floor Level)
6.	Asia 3R Civil Society Event <i>(Parallel-event)</i>	11 April 2018 / 15:00-18:00	Target-II Room (Lower Ground Floor Level)
7.	International 3R Exhibition <i>(Parallel-event)</i>	10-12 April 2018	Exhibition Hall (Lower Ground Floor Level)





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8.	7th International Conference on Solid Waste Management, 7th IconSWM 2017 <i>(Pre-event/ Completed)</i>	15-17 December 2017	PJTS Agricultural University, Hyderabad, Telangana, India
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Abstract of Daily Schedule of Eighth Regional 3R Forum in Asia and the Pacific, 9-12 April 2018, Indore, Madhya Pradesh, India

Date	Time	Event	Hall
9 April 2018	15:00-18:00	Registration	The Grand Hall Pre Function Area (Ground Floor Level)
	18:00-18:30	Pre-Event (Opening Ceremony)	The Grand Hall (Ground Floor Level)
	18:30-21:00	Cultural Programme and Reception Dinner	Nakshatra Lawn (Ground Floor Level)
10 April 2018	09:20-10:30	Opening Ceremony	The Grand Hall (Ground Floor Level)
	10:30-10:40	Opening of International 3R Exhibition	Exhibition Hall Lower Ground Floor Level
	10:40-10:45	Group Photograph	Nakshatra Lawn Ground Floor Level
	11:00-17:30	Plenary Sessions-1, Plenary Session-2, Plenary Session-3 & Plenary Session-4	The Grand Hall (Ground Floor Level)
	12:00-16:30	Indian Industry Session on 3R and Waste Management by CII	Phoenix Hall (Lower Ground Floor Level)
11 April 2018	9:00-9:30	Keynote Address	The Grand Hall (Ground Floor Level)
	09:30-18:30	Mayors' Policy Dialogue (Mayor sessions- 1,2,3,4,5,6)	The Imperial Hall (Second Floor Level)

International 3R Exhibition
(Exhibition Hall)





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Abstract of Daily Schedule of Eighth Regional 3R Forum in Asia and the Pacific, 9-12 April 2018, Indore, Madhya Pradesh, India

Date	Time	Event	Hall
	19:15-20:15	Signing of "Indore 3R Declaration" by Mayors & City Authorities	The Grand Hall (Ground Floor Level)
	09:30-12:30	Plenary Session -5& Plenary Session-6	The Grand Hall (Ground Floor Level)
	14:00-15:30	Country breakout sessions Country breakouts (Group-1, Group-2, Group-3, Group-4& Group-5)	Phoenix Hall (Lower Ground Floor Level) Orchid Hall (First Floor Level) Maple Hall (First Floor Level) Tulip Hall (First Floor Level) The Grand Hall (Ground Floor Level)
	15:45-17:15	Plenary Session-7	The Grand Hall (Ground Floor Level)
	18:00-18:45	Launch of state of 3Rs in Asia and the Pacific	
	18:45-19:15	Reporting back Session	
	14:20-16:20	Recycling of Land based Marine Litter: Challenges and Opportunities in South Asia Region	Target-I Room (Lower Ground Floor Level)
	15:00-18:00	Asia 3R Civil Society Event	Target-II Room





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Abstract of Daily Schedule of Eighth Regional 3R Forum in Asia and the Pacific, 9-12 April 2018, Indore, Madhya Pradesh, India

Date	Time	Event	Hall
			(Lower Ground Floor Level)
12 April 2018	9:00-13:00	Plenary Session -8 Roundtable Dialogue & Plenary Session- 9	The Grand Hall (Ground Floor Level)
	13:15-14:15	Adoption of Chair Summary, Awards, Handover Ceremony and Closing Remarks	
	15:15-15:30	Press Conference	The Grand Hall Ground Floor Level
	15:30-19:00	Technical Field Visit / Technical Tours	Two Groups Group 1 : (a) Waste Transfer Station & (b) Biomethanation Plant Group 2 : Integrated Solid Waste processing facility





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Pre-Event

Date: 9 April 2018

Time: 15:00-18:00

Room: The Grand Hall (Ground Floor Level)





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DAY: 9 April 2018 (Monday) Pre-event	
Time / Room	Programme
15:00-18:00	Registration
18:00-18:30	Pre-Event (Opening Ceremony)
Room: The Grand Hall (Ground Floor Level)	<ol style="list-style-type: none"> Welcome Message Mr. Sanjay Dubey, Divisional Commissioner, Government of Madhya Pradesh, India (5 min) Opening Remarks Ms. Birgitte Bryld, Senior Economic Affairs Officer, Division for Sustainable Development, United Nations Department of Economic and Social Affairs (UN DESA), New York, USA (10 min) Opening Address Hon. Mr. V. K. Jindal, Joint Secretary, Ministry of Housing & Urban Affairs (MoHUA), Govt. of India (10 min)
18:30-21:00	Cultural Programme and Reception Dinner hosted by Ministry of Housing and Urban Affairs, Government of India Venue: Nakshatra Lawn – Ground Floor Level





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Main Forum Sessions

Date: 10-12 April 2018

Room: The Grand Hall (Ground Floor Level)





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DAY 1: 10 April 2018 (Tuesday)	
Time / Room	Programme
08:00-09:20	Registration
09:20-10:30	Opening Ceremony
Room: The Grand Hall (Ground Floor Level)	<ol style="list-style-type: none"> 1. Lighting of Lamp (4 min) 2. Inaugural Cultural Ceremony (30 min) 3. Welcome Address by Mr. Durga Shanker Mishra, Secretary, Ministry of Housing and Urban Affairs (MoHUA), Government of India (5 min) 4. Address by Ms. Maya Singh, Minister for Urban Development, Government of Madhya Pradesh (5 min) 5. Address by Mr. Tadahiko Ito, State Minister, Ministry of the Environment, Japan (MOEJ) (5 min) 6. Address by Ms. Birgitte Bryld, Senior Economic Affairs Officer, Division for Sustainable Development, United Nations Department of Economic and Social Affairs (UN DESA), New York, USA (5 min) 7. Address by H.E. Mr. Hardeep S. Puri, Minister of State (I/C), Ministry of Housing and Urban Affairs (MoHUA), Government of India (5min) 8. Address by Chief Guest- H.E. Ms. Sumitra Mahajan, Hon. Speaker of the Lok Sabha, Parliament of India (5min)
10:30-10:35	Group Photograph at The Grand Ground Floor Level
10:35-10:45 Room: Exhibition Hall	Opening of International 3R Exhibition -by H.E. Ms. Sumitra Mahajan , Hon. Speaker of the Lok Sabha, Parliament of India





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DAY 1: 10 April 2018 (Tuesday)

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(Lower Ground Floor Level)	& H.E. Mr. Hardeep S. Puri , Hon. Minister of State (I/C), Ministry of Housing and Urban Affairs, Government of India
10:45-11:00	Coffee/Tea Break
11:00-12:30	PLENARY SESSION 1 Towards Zero Waste Society –The 3R Way
Room: The Grand Hall (Ground Floor Level)	<p>Presentation (1): Solid waste management in India -path breaking policy initiatives (10 min) -by Mr. V.K. Jindal, Joint Secretary, Mission Director (SBM), Ministry of Housing and Urban Affairs (MoHUA), Government of India</p> <p>Presentation (2): Promoting 3 R through PPP mode -by Shri Vivek Aggarwal, Principal Secretary, Government of Madhya Pradesh,</p> <p>Presentation (3): Circular economy as the basis for moving towards zero waste society- Case of South Australia (10 min) - Mr. Vaughan Levitzke PSM, Chief Executive, Green Industries South Australia</p> <p>Presentation (4): Zero waste model of Ambikapur in India and straight strategy to achieve zero waste in Chattisgarh in India (10min)</p> <p>Session Chair: Mr. Vivek Aggarwal, Principal Secretary, Government of Madhya Pradesh</p> <p>Facilitator / Moderator: C.R.C. Mohanty, Environment Programme Coordinator, United Nations Centre for Regional Development, Japan</p> <p>Rapporteur: Mr. J.B. Ravinder, Joint Adviser, CPHEEO, Ministry of Housing and Urban Affairs, Government of India</p>





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	<p>-by Mr. Abhinav Agrawal, Director-Swachh Bharat Mission, Department of Urban Development, Govt. of Chhattisgarh, India</p> <p>Panel Discussion (45 min)</p> <ul style="list-style-type: none"> • Dr N. B. Mazumdar, Director General, Sulabh International Social Service Organisation, India • Mr. Sanjit Rodrigues, Ex Swachh Bharat Mission Director, Panaji, India • Ms. Wanich Sawayo, Director of Waste Minimization Division, Pollution Control Department, Ministry for Natural Resources and Environment, Thailand <p>Discussion Points:</p> <ol style="list-style-type: none"> 1. <i>In moving towards a zero waste society, what 3R policy interventions and institutional mechanisms should the countries, cities and municipalities fundamentally consider in short and long run?</i> 2. <i>What effective collaboration the national, cities and municipality authorities could consider in overcoming major challenges and barriers the local authorities face in integrating 3R and zero waste policies in their overall policy, planning, and development?</i> 3. <i>How could public-private partnership be successfully implemented to take full advantage of the private sector dynamism (in terms of finance, technological intervention, expanded services to local communities, job creation, etc.) in turning waste into useful resources towards zero waste society?</i>





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	<p>4. What could be the right financial solutions or incentives countries could consider for transitioning to a resource efficient and zero waste society?</p> <p>5. What impact would a strategic shift to the circular economy have in terms of clean water, clean land, and clean air?</p>	
12:30-13:30	<p>PLENARY SESSION 2 The 3Rs and Clean Water - The Role of the Circular Economy in Reducing Water Pollution</p>	
Room: The Grand Hall (Ground Floor Level)	<p>Background Presentation (1): Water quality and water security in Asia and the Pacific ~ What 3R and circular economy can offer? (10 min)</p> <p>-by Prof. C. Visvanathan, School of Environment, Resources and Development, Asian Institute of Technology, Thailand</p> <p>Presentation (2): Advancing the 3Rs in India and co-benefits for safe drinking water and reliable sanitation (10 min)</p> <p>-by Mr. J B Ravinder, Ministry of Housing & Urban Affairs (MoHUA), Government of India</p> <p>Presentation (3):</p> <ul style="list-style-type: none"> ▪ Decentralized wastewater treatment system in Japan ▪ LIXIL's Global Sanitation Solution-SATO(10 min) <p>-by Mr. Yuji Hirose, Senior Environment Expert, Ministry of the Environment, Japan and Mr. Saurabh Pandya, Head of Partnerships, India, SATO, Lixil Corporation</p>	<p>Session Chair: H.E. Ms. Dorji Choden, Minister, Ministry of Works and Human Settlement, Bhutan</p> <p>Facilitator / Moderator: Mr. V.K. Chaurasia, Adviser CPHEEO, Ministry of Housing and Urban Affairs (MoHUA), Govt. of India</p> <p>Rapporteur: Prof. C. Visvanathan, AIT, Thailand</p>





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	<p>Panel Discussion: (30 min)</p> <ul style="list-style-type: none"> • Prof. Asit K. Biswas, Stockholm Water Prize Laureate, Distinguished Visiting Professor, Lee Kuan Yew School of Public Policy, National University of Singapore • H.E. Mr. Wijemuni Wijith Gamini Zoysa, Minister, Ministry of Irrigation and Water Resources Management, Sri Lanka • H.E. Mr. MD. Amir Hossain, Minister, Ministry of Industry, Bangladesh • Ms. Carine Van Hove, Global Science, Technology & Innovation Conference G-STIC, Project Manager & VITO NV, Belgium • Mr. Rene Van Berkel, UNIDO Representative, Regional Office India, United Nations Industrial Development Organization (UNIDO) • Dr. Arvind Kumar, President, India Water Foundation, India • Mr. A. Kalimuthu, Programme Director, WASH Institute, New Delhi, India <p>Discussion Points:</p> <p>1. <i>To what extent unsustainable resource and waste management practices have been taken into account in addressing freshwater pollution and scarcity in Asia-Pacific? What potential benefits 3R can offer towards clean water and water security in Asia-Pacific?</i></p> <p>2. <i>Currently water scarcity affects more than 40% population of the world with almost 2 billion people drinking contaminated water. Further water shortages could affect 5 billion people by 2050 (UN, 2018). What are the possible impacts a shift to the circular economy would have on SDG 6 (ensure availability and sustainable management of water and</i></p>





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	<p><i>sanitation for all)? What are the prospects of circular economy in wastewater reuse and recycling in the region?</i></p> <p><i>3. The nexus between 3R, clean water and water security naturally encompasses a number of line Ministries and agencies, including city and local authorities. What type of horizontal and vertical cooperation the countries should effectively consider in implementing 3R and circular economy development strategies in this regard?</i></p> <p><i>4. Private sector can play an important role in technology innovation and financing of the 3R projects with benefits to water sector. How can countries and cities attract private sector into 3R businesses for clean water and water security? What are the best examples?</i></p>	
13:30-14:30	LUNCH BREAK (UNCRD-UNEP-CCET Special Lunch Session on Waste Management Guidelines Development at Room Veda / Ground Floor Level)	
14:30-15:45	PLENARY SESSION 3 The 3Rs and Clean Land - The Role of the Circular Economy in Preventing Land Pollution	
Room: The Grand Hall (Ground Floor Level)	<p>Presentation (1): Reducing land pollution and land degradation through 3R policy initiatives ~ What circular economy can offer? (10 min)</p> <p><i>-by Prof. Agamuthu Pariatamby, University of Malaya, Malaysia</i></p> <p>Presentation (2): Offsetting pollution abatement costs through benefits of circular economy (10 min)</p>	<p>Session Chair: H.E. Mr. Abdullah Al Islam Jakob, Deputy Minister, Ministry of Environment & Forests, Bangladesh</p>





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	<p>-by Dr. Banwari Lal, The Energy and Resources Institute (TERI), India</p> <p>Panel Discussion: (60 min)</p> <ul style="list-style-type: none"> • Mr. Vaughan Levitzke PSM, Chief Executive, Green Industries South Australia • Prof. Jinhui Li, Executive Director of Basel Convention Regional Center for Asia and the Pacific, Professor in School of Environment, Tsinghua University, P.R. China • Ms. Rosa Vivien Ratnawati, Director General Solid Waste, Hazardous Waste and Hazardous Substances Ministry of Environment and Forestry, Indonesia <p>Discussion Points:</p> <ol style="list-style-type: none"> 1. Apart from pollution and health impacts, open dumping and open burning of wastes remains a major issue in the region with adverse effects on the physical, chemical and biological properties of the land. To what extent the national and local authorities address these issues through implementation of dedicated 3R policies, programs, including infrastructure development? 2. What crucial policy, institutional and technological shifts are necessary to integrate 3R and resource efficiency with efforts to prevent land pollution and degradation and associated health impacts? 3. How can full-scale utilization of organic waste and biomass for sustainable farming and energy be achieved to prevent their open dumping or burning? 	<p>Facilitator / Moderator: Ms. Carine Van Hove, Global Science, Technology & Innovation Conference G-STIC, Project Manager & VITO NV, Belgium</p> <p>Rapporteur: Prof. Sadhan Kumar Ghosh, Jadavpur University, India</p>





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	<p>4. How can circular economic utilization of various waste streams contribute in achieving SDG 11 (sustainable cities and communities) and SDG 15 (life on land)?</p> <p>5. How can countries and cities attract private sector into 3R businesses for clean land? What are the best examples?</p>	
15:45 –16:00	COFFEE/TEA BREAK	
16:00-17:30	<p>PLENARY SESSION 4 The 3Rs and Clean Air - The Role of the Circular Economy towards Prevention of Air Pollution</p>	
<p>Room: The Grand Hall (Ground Floor Level)</p>	<p>Presentation (1): Clean air and climate benefits through 3R policies and initiatives (10 min) <i>-by Dr. Sandra M Mazo-Nix, Coordinator - Waste Initiative, Climate and Clean Air Coalition to Reduce Short-Lived Climate Pollutants (CCAC), France</i></p> <p>Presentation (2): Co-benefits of sustainable waste management for preventing air pollution ~ Indian experience (10 min) <i>- by Mr. Pradeep Khandelwal, Chief Engineer, East Delhi Municipal Corporation (EDMC), India</i></p> <p>Presentation (3): Co-benefits of sustainable waste management for preventing air pollution ~ Prospects for circular economy (10 min) <i>-by Mr. Guilberto Borongan, Senior Programme Specialist, Waste Management Cluster, AIT Regional Resource Centre for Asia and the Pacific (AIT RRC.AP), Thailand</i></p>	<p>Session Chair: <i>H.E. Mr. MD. Amir Hossain, Minister, Ministry of Industry, Bangladesh</i></p> <p>Facilitator / Moderator: <i>Dr. Sandra M Mazo-Nix, Coordinator - Waste Initiative, Climate and Clean Air Coalition to Reduce Short-Lived Climate Pollutants (CCAC), France</i></p> <p>Rapporteur: <i>Mr.</i></p>





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	<p>Presentation (4): Waste-to-Energy experience- The case of Singapore (10 min)</p> <p>-by Mr. Ong Soo San, Director, Waste and Resource Management Department, National Environment Agency, Singapore</p> <p>Presentation (5): Mitigation of Air Pollution – Indian Scenario (10 min)</p> <p>-by Prof. A L Aggarwal, Emeritus Professor, Amity University, Noida, India</p> <p>Panel Discussion: (50 min)</p> <ul style="list-style-type: none"> • Mrs. Sunee Piya Panpong, Director General, Ministry for Natural Resources and Environment, Thailand • Mr. Abdul Ghaffar, Chief Executive Officer, Ministry of Industries and Production, Pakistan • Mr. Michikazu Kojima, Economic Research Institute for ASEAN and East Asia (ERIA), Japan <p>Discussion Points:</p> <p>1. To what extent 3R has been addressed as a preventive measure to arrest open dumping and burning of wastes including biomass?</p> <p>2. Is biomass waste a grossly neglected area in Asia and the Pacific? How have current policies and regulatory frameworks at a national and city level been seen as supportive towards circular economic utilization of organic waste and biomass? What is the cost inaction? What circular</p>	<p>Guilberto Borongan, Senior Programme Specialist, Waste Management Cluster, AIT Regional Resource Centre for Asia and the Pacific (AIT RRC.AP), Thailand</p>





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	<p><i>economic opportunities can 3R offer in rural areas of Asia-Pacific?</i></p> <p><i>3. Is there any crucial lesson that we can learn from the transboundary air pollution resulting from biomass burning? What type of short or long-term sub-regional/regional cooperation countries could consider in areas of 3Rs?</i></p> <p><i>4. What are the potential opportunities of implementing 3R and circular economic development strategies to achieve co-benefits – a reduction of both greenhouse gas emissions (including short-lived climate pollutants) and air pollution?</i></p> <p><i>5. How can 3R and circular economy contribute to SDG 11 (sustainable cities and communities) and SDG 13 (take urgent action to combat climate change and its impacts)?</i></p>	
19:00-21:30	<p align="center">WELCOME RECEPTION & DINNER Hosted by Ministry of Housing and Urban Affairs (MoHUA), Government of India</p> <p align="center">Venue: Nakshatra Lawn – Ground Floor Level</p>	





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DAY 2: 11 April 2018 (Wednesday)		
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9:00-9:30 Room: The Grand Hall (Ground Floor Level)	<p>Keynote Addresses</p> <p>Keynote-1 “The 3R for clean water - Saving India’s rivers and lakes” -<i>Prof. Asit K. Biswas, Stockholm Water Prize Laureate, Distinguished Visiting Professor, Lee Kuan Yew School of Public Policy, National University of Singapore (15 min)</i></p> <p>Keynote 2 “Efforts of Government of India in cleaning the rivers” - <i>Mr. D P Mathuria ,Executive Director National Mission For Clean Ganga, (15 min)</i></p>	<p>Session Chair: H.E. Deputy Minister Mr. Ali Amir, Ministry of Environment and Energy, Maldives</p> <p>Facilitator / Moderator: Mr. Keith Alverson, Director, UNEP-IETC, Osaka, Japan</p>
9:30-10:30	<p>PLENARY SESSION 5 3R for Protection of Coastal and Marine Ecosystem</p>	
Room: The Grand Hall (Ground Floor Level)	<p>Presentation (1): Integrating 3R principles and strategies with measures for the protection of coastal and marine ecosystem from land based activities (10 min) -<i>by Mr. Keith Alverson, Director, UNEP-IETC, Osaka</i></p> <p>Presentation (2): Prevention of marine littering: Learning from Japan (10 min) - <i>by Prof. Hideshige Takada, Laboratory of Organic Geochemistry (LOG), Tokyo University of Agriculture and Technology, Japan</i></p>	<p>Session Chair: H.E. Deputy Minister Mr. Ali Amir, Ministry of Environment and Energy, Maldives</p> <p>Facilitator / Moderator: Mr. Keith Alverson, Director, UNEP-IETC, Osaka, Japan</p>





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	<p>Panel Discussion: (40 min)</p> <ul style="list-style-type: none"> • H.E. Mr. Wijemuni Wijith Gamini Zoysa, Minister, Ministry of Irrigation and Water Resources Management, Sri Lanka • H.E. Dr. Culwick Togamana, Minister, Ministry of Environment Climate Change Disaster Management and Meteorology, Solomon Islands • Mrs. Sunee PiyaPanpong, Director General, Ministry for Natural Resources and Environment, Thailand • Mr. Nguyen The Chinh, Director General, Institute of Strategy and Policy on Natural Resources and Environment, Viet Nam • Mr. Giljong Oh, Ministry of Environment, Republic of Korea <p>Discussion Points:</p> <ol style="list-style-type: none"> 1. <i>How can countries and cities promote 3R and circular economy to prevent marine and coastal pollution and degradation, including their contributions to SDG 14 (life below water)?</i> 2. <i>How can 3R be effectively integrated in existing platforms or frameworks of regional cooperation in coastal and marine protection, such as in regional sea bodies, major transboundary river basins and open fishing areas?</i> 3. <i>What should be the defining features of – (a) inter-agency cooperation (among line Ministries and between national and city government); (b) institutional mechanism; and (c) public-private-partnerships (PPP), in implementation of 3R policies and programmes for</i> 	<p>Rapporteur: <i>Dr. G. Dharani, Scientist ‘E’, Marine Biotechnology Division, National Institute of Ocean Technology, Chennai, India</i></p>





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	<p><i>prevention of land-based pollution and waste loads into the ocean?</i></p> <p>4. <i>What are the innovative 3R measures to prevent plastic littering in coastal and marine environment? How can these measures encourage changes in behavior in both the fishing and coastal tourism industry?</i></p> <p>5. <i>To what extent have the modern IT technologies such as remote sensing and GIS been used in countries for monitoring plastics wastes and practices? Are there good examples?</i></p> <p>6. <i>What are the adverse economic impacts of plastic wastes in the tourism sector of Small Island Developing States (SIDS)? How can SIDS pursue 3R as an economic industry in protecting their tourism sector as well as the supporting natural ecosystem?</i></p>	
10:30-11:00	COFFEE/TEA BREAK	
11:00-12:30	PLENARY SESSION 6 Greening of SMEs and Enhancing National Productivity- Role of Circular Economy	
Room: The Grand Hall (Ground Floor Level)	Presentation (1): Greening SMEs to support National Resource Productivity and Low Carbon Development- International experiences (10 min) <i>- by Mr. Rene Van Berkel, UNIDO Representative, Regional Office India, United Nations Industrial Development Organization (UNIDO)</i>	Session Chair: Mr. Virendra Sharma, <i>Director, Ministry of Micro, Small and Medium Enterprises- Development Institute, Indore, India</i>





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	<p>Cases of Emerging Economies:- Presentation 2 (a): Issues, challenges and opportunities in Greening SMEs - The case of India (10 min)</p> <p>- by Mr. Shikhar Jain, Senior Counsellor, Confederation of Indian Industry (CII - ITC), India</p> <p>Background Presentation 2 (b): Circular economic opportunities for Greening SMEs - The Chinese experience (10 min)</p> <p>- by Prof. Jinhui Li, Executive Director of Basel Convention Regional Center for Asia and the Pacific, Professor in School of Environment, Tsinghua University, P.R. China and School of Environment, Tsinghua University, P.R. China</p> <p>Panel Discussion: (60 min)</p> <ul style="list-style-type: none"> • H.E. Mr. MD. Amir Hossain, Minister, Ministry of Industry, Bangladesh • Mr. Wilson Lim Trajeco, Regional Director, Department of Environment and Natural Resources, The Philippines • Mr. Saibal Das Chowdhury, Co-Founder and CEO, Urbanetic, Singapore • Mr. Owase Rui, Manager, Daiki Axis Co., Ltd., Japan • Mr. Teddy Caster Sianturi, Head of RnD for Green Industry dan Environment, Ministry of Industry, Indonesia <p>Discussion Points:</p>	<p>Facilitator / Moderator: <i>Mr Anjan Das, Executive Director, Confederation of Indian Industries (CII), India</i></p> <p>Rapporteur: <i>Mr. K. D. Bhardwaj, Director-Environment, National Productivity Council, India</i></p>





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	<p>1. What are the critical enablers that the Governments should consider for greening the SMEs? Why should this matter for national productivity and waste minimization? What impact would a strategic shift to the circular economy have in terms of greening the SMEs and in achieving SDG 9?</p> <p>2. Required financial and technical capacity and high upfront costs are critical challenges for SMEs. Taking into account these constraints, how can governments assist the SMEs to integrate 3R and resource efficiency in their operations and supply chain? What could be the policy, institutional, financial and partnership aspects of greening the SMEs towards sustainable industrialization, fostering innovation and pollution reduction?</p> <p>3. What type of information-based instruments can governments facilitate in raising the awareness of both consumers and SMEs on the needs and benefits of greening the supply chain?</p> <p>4. What are the best examples and experiences where environmental regulations have encouraged SMEs and firms to pursue green strategies towards cost savings, market competitiveness and better public image?</p> <p>5. What are the key enablers to promote government-to-business, business-to-business, and industry-to-industry interactions in greening the operations and supply chain? What could various technologies offer in this regard?</p> <p>6. What critical lessons does Chinese circular economic development approach provide in terms greening SMEs?</p>





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12:30-14:00	<p align="center">LUNCH BREAK</p> <p align="center">(UNCRD-UNEP-CCET Special Lunch Session on Proposal for the Development of a Sub-Regional Roadmap for implementing the Global Waste Management Goals towards the addressing SDGs in South Asia at Room Veda / Ground Floor Level)</p>
14:00-15:30	<p align="center">COUNTRY BREAKOUT SESSIONS</p> <p align="center">Country Major Achievements and Initiatives on Implementation of Ha Noi 3R Declaration (2013~2023)</p>
Room: Phoenix Hall (Lower Ground Floor Level)	<p>Country Breakout Group 1</p> <p>Country Presentations (5 min maximum): PR China, Bangladesh, India, Indonesia, Kiribati, Cook Islands, Samoa, Thailand</p> <p><i>[Country presentations (using maximum 5 slides) to focus on- (a) major achievements/new initiatives in 3R areas; (b) critical challenges faced; and (c) major plans, including mega-projects and master plans, in pipeline for future action]</i></p> <p>Open Discussion:</p> <p>Session Chair: <i>H.E. Mr. Abdullah Al Islam Jakob, Deputy Minister, Ministry of Environment and Forests, Bangladesh</i></p> <p>Facilitator / Moderator: <i>Dr. Prasad Modak, Executive President Environmental Management Centre, India</i></p> <p>Rapporteur: <i>Prof. ATM Nurul Amin, Professor and Chairperson, Department of Economics and Social Sciences, BRAC University, Bangladesh and Emeritus Professor, Asian</i></p>





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		<i>Institute of Technology, Thailand</i>
<p>Room: Orchid Hall (First Floor Level)</p>	<p>Country Breakout Group 2</p> <p>Country Presentations (5 min maximum): Japan, Malaysia, Myanmar, Mongolia, Palau, Solomon Islands, Tuvalu, Papua New Guinea, Federated States of Micronesia, Viet Nam</p> <p><i>[Country presentations (using maximum 5 slides) to focus on- (a) major achievements/new initiatives in 3R areas; (b) critical challenges faced; and (c) major plans, including mega-projects and master plans, in pipeline for future action]</i></p> <p>Open Discussion:</p>	<p>Session Chair: <i>Mr. Min Maw, Director, Ministry of Natural Resources and Environmental Conservation, Myanmar</i></p> <p>Facilitator / Moderator: <i>Prof. Agamuthu Pariatamby, University of Malaya, Malaysia</i></p> <p>Rapporteur: <i>Prof. Vella Atienza, University of the Philippines Los Banos, The Philippines</i></p>
<p>Room: Maple Hall (First Floor Level)</p>	<p>Country Breakout Group 3</p> <p>Country Presentations (5 min maximum): Afghanistan, Cambodia, Lao PDR, The Republic of Korea, Niue, Vanuatu, Brunei Darussalam, Fiji, Kyrgyzstan</p> <p><i>[Country presentations (using maximum 5 slides) to focus on- (a) major achievements/new initiatives in 3R areas; (b) critical challenges faced; and (c) major plans, including mega-projects and master plans, in pipeline for future action]</i></p> <p>Open Discussion:</p>	<p>Session Chair: <i>H.E. Mr. Feroz Khan Masjidi, Deputy Minister for Private Sector Development and Industries, Ministry of Commerce and Industry, Afghanistan</i></p> <p>Facilitator / Moderator: <i>Prof. Yong-Chil Seo, Yonsei</i></p>





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		<p>University, Republic of Korea</p> <p>Rapporteur: <i>Prof. Sadhan Kumar Ghosh, Jadavpur University, Kolkata, India</i></p>
<p>Room: Tulip Hall (First Floor Level)</p>	<p>Country Breakout Group 4</p> <p>Country Presentations (5 min maximum): Bhutan, Maldives, Republic of the Marshall Islands, Nepal, Pakistan, Singapore, Timor-Leste, New Zealand</p> <p><i>[Country presentations (using maximum 5 slides) to focus on- (a) major achievements/new initiatives in 3R areas; (b) critical challenges faced; and (c) major plans, including mega-projects and master plans, in pipeline for future action]</i></p> <p>Open Discussion:</p>	<p>Session Chair: <i>Hon. Mr. Mohamed Mahid Shareef, Permanent Secretary, Ministry of Housing and Infrastructure, Maldives</i></p> <p>Facilitator / Moderator: <i>Dr. Ong Soo San, Director, Waste and Resource Management department, National Environment Agency, Singapore</i></p> <p>Rapporteur: <i>Prof. C. Visvanathan, AIT, Thailand</i></p>
<p>Room: The Grand Hall (Ground Floor Level)</p>	<p>Country Breakout Group 5</p> <p>Country Presentations (5 min maximum): Australia, The Philippines, The Russian Federation, Sri Lanka, Commonwealth of the Northern Mariana Island, Mauritius, Tonga, Tokelau</p>	<p>Session Chair: <i>Mr. Vaughan Levitzke PSM, Chief Executive, Green Industries, South Australia</i></p> <p>Facilitator / Moderator: <i>Prof.</i></p>





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	<p>[Country presentations (using maximum 5 slides) to focus on- (a) major achievements/new initiatives in 3R areas; (b) critical challenges faced; and (c) major plans, including mega-projects and master plans, in pipeline for future action]</p> <p>Open Discussion:</p>	<p>Shun Fung Chiu, De La Salle University, Member, UN Environment International Resource Panel, The Philippines</p> <p>Rapporteur: Dr. Sunil Herat, Senior Lecturer in Environmental Engineering (Waste Management), Griffith University, Australia</p>
15:30-15:45	COFFEE/TEA BREAK	
15:45-17:15	PLENARY SESSION 7 Resource Security and 3R Technologies	
<p>Room: The Grand Hall (Ground Floor Level)</p>	<p>Background Presentation (1): A 21st century vision on waste to energy in India - A win-win strategy for energy security and the Swachh Bharat Mission (Clean India Mission) (10 min)</p> <p>- by Mr. Upendra Tripathy, IAS, Director General, International Solar Alliance, India</p> <p>Presentation (2): Next generation of 3R technologies for waste management in Smart cities - Internet of Things (IOT) (10 min)</p>	<p>Session Chair: H.E. Deputy Minister Mr. Ali Amir, Ministry of Environment and Energy, Maldives</p> <p>Facilitator / Moderator: Mr. Saibal</p>





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	<p>- Mr. Saibal Das Chowdhury, Co-Founder and CEO, Urbanetic, Singapore</p> <p>Presentation (3): 3R technologies for plastics - The Japanese experience (10 min)</p> <p>- by Mr. Atsushi Takano, General Manager, Isono Corporation, Japan</p> <p>Background Presentation (4): 3R technologies for WEEE (10 min)</p> <p>- by Dr. Sunil Herat, Senior Lecturer in Environmental Engineering (Waste Management), Griffith University, Australia</p> <p>Presentation (5): Protecting health and environment through sound management of healthcare waste (10 min)</p> <p>- by Ms. Payden, Regional Adviser, WHO Regional Office for South East Asia</p> <p>Panel Discussion: (40 min)</p> <ul style="list-style-type: none"> • Mr. Rohit Kakkar, Deputy Adviser, Central Public health and environmental engineering organization (CPHEEO) • Dr. Rachna Arora, Deputy Team Leader and Coordinator, European Union – Resource Efficiency Initiative (EU- REI), India • Prof. Theodoros Anagnosopoulos, ITMO University, Greece <p>Das Chowdhury, Co-Founder and CEO, Urbanetic, Singapore</p> <p>Rapporteur: Dr. Kulwant Singh, Director, CEO, 3R WASTE Foundation, India</p>





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	<ul style="list-style-type: none"> • Mr. Ajoy Raychaudhuri, Director, Battery Foundation International, India <p>Discussion Points:</p> <ol style="list-style-type: none"> 1. <i>The supply security of natural resources, raw materials and minerals, freshwater resources and renewable energy sources (waste-to-energy, solar, etc.) is not only key to the sustainability of Asia- Pacific, but also crucial for achieving the SDGs. What role could various 3R technologies play in this regard?</i> 2. <i>To what extent Asia-Pacific countries have enabled science based 3R policy making at national and local level towards resource efficiency and resource security?</i> 3. <i>What is the state of 3R technological interventions in addressing the growing and complex waste management issues (e.g., plastics, e-waste, etc) in the region?</i> 4. <i>Cities consume approximately 70% of all resources. What is our scientific insight to the role of next generation 3R technologies in making cities smart and resource efficient?</i> 	
18:00-18:45	LAUNCH OF STATE OF THE 3Rs IN ASIA AND THE PACIFIC	
<p>Room: The Grand Hall (Ground Floor Level)</p>	<p>Panel Discussion: (45 min)</p> <ul style="list-style-type: none"> • Mr. Manoj Kumar Gangeya, Director, Ministry of Environment, Forest & Climate Change, Government of India • Prof. Agamuthu Pariatamby, University of Malaya, Malaysia • Prof. ATM Nurul Amin, Professor and Chairperson, Department of Economics and 	<p>Session Chair: Mr. Yasuo Takahashi, Vice Minister for Environment Global Affairs, Ministry of the Environment, Japan</p>





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	<p>Social Sciences, BRAC University, Bangladesh and Emeritus Professor, Asian Institute of Technology, Thailand</p> <ul style="list-style-type: none"> • Prof. Shun Fung Chiu, De La Salle University, Member, UN Environment International Resource Panel, The Philippines <p>Discussion Points:</p> <ol style="list-style-type: none"> 1. How to establish an improved knowledge platform to continuously track progress on 3R policy implementation at local and national level in line with the objectives and goals of the Hanoi 3R Declaration (2013-2023)? How could the state of 3R assessment help countries promote science-based policy making in 3R areas? 2. How could we improve the availability of data, information, indicators and promote extensive use of them towards a credible State of the 3Rs in Asia-Pacific in future? 3. What could be an overall framework and structure of the State of 3Rs which would be of greater relevance in the context of the 2030 Agenda for Sustainable Development and the underlined Sustainable Development Goals (SDGs)? 4. How could a regular state of 3R help private sector explore investment opportunities in developing countries and cities of the region? 5. How would you plan to use the first State of 3R in Asia-Pacific which would be launched at the end of this Session? <p>Facilitator / Moderator: Prof. Shinichi Sakai, Kyoto University, Japan</p> <p>Rapporteur: Dr. Yasuhiko Hotta, Programme Director, Sustainable Consumption and Production, IGES, Japan</p>





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DAY 2: 11 April 2018 (Wednesday)

Time / Room	Programme	
18:45-19:15	REPORTING BACK SESSION	
<p>Room: The Grand Hall (Ground Floor Level)</p>	<ul style="list-style-type: none"> ● Reporting back by Country Breakout Group 1 ● Reporting back by Country Breakout Group 2 ● Reporting back by Country Breakout Group 3 ● Reporting back by Country Breakout Group 4 ● Reporting back by Country Breakout Group 5 ● Reporting back the Outcome of Adelaide 3R Declaration and Announcement of launch of “Global Leadership Program on the Circular Economy” - by <i>Mr. Vaughan Levitzke PSM, Chief Executive, Green Industries South Australia</i> ● Reporting back by Pre-event - 7th IconSWM Conference - by <i>Prof. Sadhan Kumar Ghosh, Jadavpur University, Kolkata, India</i> ● Reporting back by Parallel event - Asia 3R Civil Society Event - by <i>Ms. Yuko Sakita, Chief Director, NPO “GENKI Network for Creating a Sustainable Society”, Japan</i> ● Reporting back by Parallel event- Recycling of Land based Marine Litter: Challenges and Opportunities in South Asia - by <i>Dr. Sivaji Patra, Senior Programme Officer (Regional), South Asia Seas Programme (SASP), Sri Lanka</i> 	<p>Session Chair: <i>Mr. Sirisamphanh Vorachith, Director General, Ministry of Industry and Commerce, Lao PDR</i></p> <p>Facilitator / Moderator: <i>Mr. Vladimir Marev, Director, International Centre for the Best Environmental Technologies, The Russian Federation</i></p>





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DAY 2: 11 April 2018 (Wednesday)

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19:15-20:15	<p>-Signing of Declaration “Indore 3R Declaration on Achieving Clean Water, Clean Land, and Clean Air in Cities” by Mayors and City Authorities</p> <p>-Announcements of City-City cooperation and partnerships (a) Osaka city and Quezon city (5 min)</p> <p>[All participants are requested to move to Room : The Grand Hall (Ground Floor Level)]</p>	
<p>Room: The Grand Hall (Ground Floor Level)</p>	<p>Session Chair: <i>Mrs. Malini Laxmansingh Gaur, Mayor of Indore City, Madhya Pradesh, India</i></p> <p>Co-Chair: <i>Mr. Manish Singh, Commissioner Municipal Corporation, Indore, Madhya Pradesh, India</i></p>	<p>Facilitator / Moderator: <i>C.R.C. Mohanty, Environment Programme Coordinator, United Nations Centre for Regional Development, Japan</i></p>
20:15-21:30	<p>NETWORKING RECEPTION hosted by Ministry of Housing and Urban Affairs (MoHUA), Government of India</p> <p>Venue: Nakshatra Lawn – Ground Floor Level</p>	





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PROGRAMME

DAY 3: 12 April 2018 (Thursday)

Time / Room	Programme	
9:00-10:00	PLENARY SESSION 8 Financing 3R- Domestic and International Investments	
Room: The Grand Hall (Ground Floor Level)	<p>Presentation (1): Prospects of financing 3R infrastructure in Asia and the Pacific (8 min)</p> <p>- by Mr. Takema Sakamoto, Chief Representative, India Office, Japan International Cooperation Agency (JICA)</p> <p>Presentation (2): Creating investment opportunities in the waste management sector - A Global overview (8 min)</p> <p>- by Mr. A.S. Harinath, Senior Environmental Specialist, Environment and Natural Resources, The World Bank Group</p> <p>Presentation (3): The role of SIDBI to support Industries for Sustainable Waste Management (8 min)</p> <p>- by Mr Ramachandra Sankaranarayan, AGM, Small Industries Development Bank of India, Indore, India</p> <p>Presentation (4): Government role for promoting international corporation (8 min)</p> <p>-by Mr. Yasuo Takahashi, Vice Minister for Environmental Global Affairs, Ministry of the Environment, Japan</p>	<p>Session Chair: Mr P K Jena, <i>Regional Director, Reserve Bank of India, Bhopal, Ministry of Finance, Government of India,</i></p> <p>Facilitator/ Moderator: Ms. Birgitte Bryld, <i>Senior Economic Affairs Officer, Division for Sustainable Development, United Nations Department of Economic and Social Affairs (UN DESA), New York, USA</i></p> <p>Rapporteur: Mr. K D Bhardwaj, <i>Director Environment,</i></p>





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	<p>Panel Discussion : (28 min)</p> <ul style="list-style-type: none"> • Mr. MD. Abdul Halim, Director General, Prime Minister's Office, Bangladesh • Mr. Osamu Mizuno, Director, AIT Regional Resource Centre for Asia and the Pacific (AIT RRC.AP), Thailand • Mr. Vladimir Marev, Director, International Centre for the Best Environmental Technologies, The Russian Federation • Mr. Hindocha Jiten, Senior Vice President, IL&FS Environment, India <p>Discussion Points:</p> <ol style="list-style-type: none"> 1. What is the state of overall investments in 3R areas in the region? 2. What is the best combination of public and private financial resources in implementing 3R policies, programmes, projects, including infrastructure development? Are there any valuable lessons from this or other regions? What are the best examples of PPPs in 3R areas? 3. What potential opportunities the private sector offer in building next generation 3R infrastructures (waste storage, treatment, processing and recovery facilities, state of art recycling facilities, eco-industrial zones, science parks, etc.) to deal with growing waste generation and diversification of waste streams? 4. How could international financing and investments be effectively mobilized in 3R areas? What could be the role of international organizations, bi-lateral and multi-laterals donor communities and development banks, etc.? 	<p><i>National Productivity Council, India</i></p>





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	<p>5. What role could the national and regional banks play in creating 3R startup companies and industries? How far have they been actively engaged in 3R areas?</p> <p>6. To what extent Asian countries evaluate the performance of major 3R projects/investments, prior to investing and after implementation? Do we have some good examples where they have provided critical lessons on long term gains in terms of quality of life, clean environment, resilience, and national productivity?</p>	
10:00-11:15	<p>Round table Dialogue: Public-Private-Partnership (PPP) to Advance 3R in Asia-Pacific</p>	
<p>Room: The Grand Hall (Ground Floor Level)</p>	<p>Open Discussion:</p>	<p>Facilitators/ Moderators: Dr. Muhammad Khurshid, IPLA Sub-Regional Secretariat for South Asia, Mr. Osamu Mizuno, Director, AIT Regional Resource Centre for Asia and the Pacific (AIT RRC.AP), Thailand, and Dr. Sunil Herat, IPLA Sub-Regional Secretariat for the</p>





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DAY 3: 12 April 2018 (Thursday)

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		<i>region covering Australia and New Zealand</i>
11:15-11:30	COFFEE/TEA BREAK	
11:30-14:00	PLENARY SESSION 9 Valedictory Session	
Room: The Grand Hall (Ground Floor Level)	<p><u>Discussion on Chair Summary</u></p> <p><u>Facilitated by:</u></p> <ol style="list-style-type: none"> Mr. Durga Shanker Mishra, Secretary, Ministry of Housing and Urban Affairs (MoHUA), Government of India Mr. C.R.C. Mohanty, Environment Programme Coordinator, United Nations Centre for Regional Development, Japan 	<p><u>Rapporteurs:</u> Prof. Shun Fung Chiu, De La Salle University, Member, UN Environment International Resource Panel, The Philippines</p> <p>and Dr. Anupam Khajuria, United Nations Centre for Regional Development, Japan</p>
13:00-13:15	COFFEE/ TEA BREAK	
13:15-14:15	Adoption of Chair Summary, Awards, Handover Ceremony and Closing Remarks	





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DAY 3: 12 April 2018 (Thursday)

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<p>Room: The Grand Hall (Ground Floor Level)</p>	<p>1. <u>Adoption of Chair Summary</u></p> <p><u>Forum Chair:</u> <i>H.E. Mr. Hardeep S. Puri, Hon'ble Minister of State (I/C), Ministry of Housing and Urban Affairs (MoHUA), Government of India</i></p> <p><u>Chief Guest:</u> <i>H.E Ms. Maya Singh, Hon'ble Minister of Urban Development, Govt. of Madhya Pradesh, India</i></p> <p>2. 3R Awards to CSO/NGOs and Industry categories</p> <p>3. Handover Ceremony</p> <p>4. Closing Remarks</p> <ul style="list-style-type: none"> ▪ Mr. Yasuo Takahashi, Vice Minister for Environmental Global Affairs, Ministry of the Environment, Japan (10 min) ▪ Ms. Birgitte Bryld, Senior Economic Affairs Officer, Division for Sustainable Development, United Nations Department of Economic and Social Affairs (UN DESA), New York, USA (10 min) ▪ Mr. Durga Shanker Mishra, Secretary, Ministry of Housing and Urban Affairs (MoHUA), Government of India (10 min) ▪ H.E H.E Ms. Maya Singh, Hon'ble Minister of Urban Development, Govt. of Madhya Pradesh, India <p>5. <u>Vote of thanks</u> by Mr Rajiv Jain, Additional Director General (PIB), Ministry of Housing and Urban Affairs (MoHUA), Government of India</p>
<p>14:15-15:15</p>	<p>LUNCH BREAK</p>





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DAY 3: 12 April 2018 (Thursday)

Time / Room	Programme
15:15-15:30 Room: The Grand Hall (Ground Floor Level)	PRESS CONFERENCE
15:30-19:00	TECHNICAL FIELD VISTS 1(a).Waste Transfer Station 1(b). Bio-methanation Plant 2. Integrated Solid Waste Processing Facility
19:00-21:30	FAREWELL RECEPTION hosted by Ministry of Housing and Urban Affairs (MoHUA), Government India Venue: Nakshatra Lawn - Ground Floor Level





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PROGRAMME

Guidelines for Roundtable Dialogue: Public-Private-Partnership to Advance 3R in Asia and the Pacific

Eighth Regional 3R Forum in Asia and the Pacific 9-12 April 2018, Brilliant Convention Centre, Indore, Madhya Pradesh, India

Date: 12 April 2018 (Day 3)

Time: 10:00 AM- 11:15 AM

Venue: The Grand Hall (Ground Floor Level)

The objective of this Government and Private Sector Roundtable is to advance 3R in Asia and the Pacific region by promoting public-private-partnerships (PPPs) and private investments in waste management sector. The Roundtable is organized in line with the objectives of *International Partnership for Expanding Waste Management Services of Local Authorities (IPLA)* - a SDG Partnership under the 2030 Agenda for Sustainable Development. <http://www.uncrd.or.jp/index.php?menu=378>

IPLA is a dynamic interface between government authorities and private sector and complements the objectives of the Regional 3R Forum in Asia and the Pacific. IPLA is governed with the basic understanding that -

- *Partnerships offer alternatives in which governments and private companies assume co-responsibility and co-ownership for the delivery of waste management services. Waste disposal is expensive – financially and in lost resources (substantial inputs of labour, material, energy, land resources for land filling, etc.). Disposal of recyclables goes against the core principles of 3R as well as material and resource efficiency.*
- *Partnerships combine the advantages of the private sector (dynamism, access to financial resources and latest technologies, managerial efficiency, and entrepreneurial spirit, etc.) with social concerns and responsibility of the public sector (public health and a better life, environmental awareness, local knowledge and job creation, etc).*





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- *Partnerships (PPP) are indispensable for creating and financing adaptation measures towards resilient cities which in turn are more attractive for private investments. A resilient city and community enhance confidence of private sector for possible investments.*
- *Partnerships provide win-win solutions both for the public utilities and private sector—if duly supported by appropriate policy frameworks. Such partnerships could lead to savings in municipal budgets where waste management usually consumes a large portion. The private sector, on the other hand, may use this opportunity to convert waste into environmentally friendly products and energy that could also serve as income generating opportunities.*

The following guidelines could be followed in order to have an interactive and productive roundtable dialogues between the government and private sector representatives to explore the various partnership, investment and sustainable business opportunities in 3R and waste management areas. Each private sector representative will have approximately 5 mins to interact with a country delegate before moving to the second country delegate in a systematic rotational order. We are expecting to have the participation of around 40 countries and 30 private companies.

Guidelines for Government Representatives:

1. Please briefly introduce specific waste issues or major projects in pipeline highlighting possible opportunities for PPP and investment; also highlight financial and technological constraints currently faced with, and what type of measures or solutions the government is looking for.
2. It would be very helpful and time-saving if each participating country could prepare one page information sheet (approximately 30 copies) in advance to share the above with the private sector representatives.

Guidelines for Private Sector Representatives:

1. Please prepare enough copies (approximately 40 sets) of information sheets or company brochures highlighting – (a) specific expertise and technical knowhow; (b) range of waste management services; (c) national and international PPP experiences.
2. Please prepare enough business cards with contact details.
3. Any other materials that would serve as useful reference materials for the countries.





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PROGRAMME

Asian Mayors Policy Dialogue on Achieving Clean Water, Clean Land and Clean Air through 3R and Resource Efficiency

Mayors Sessions

Date: 11 April 2018

Time: 9:30-18:30

Room: The Imperial Hall (Second Floor Level)

Signing of Declaration “Indore 3R Declaration on Achieving Clean Water, Clean Land, and Clean Air in Cities” by Mayors and City Authorities

Date: 11 April 2018

Time: 19:15-20:15

Room: The Grand Hall (Ground Floor Level)





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PROGRAMME

DAY 2: 11 April 2018 (Wednesday)

Asian Mayors Policy Dialogue on Achieving Clean Water, Clean Land and Clean Air through 3R and Resource Efficiency

Chair of Mayors Policy Dialogue: Mrs. Malini Laxmansingh Gaur, Mayor of Indore City, Madhya Pradesh, India

Co-Chair: Mr. Manish Singh, Commissioner Municipal Corporation, Indore, Madhya Pradesh, India

Time/Room	Programme	
09:30-10:40	MAYORS SESSION 1: The 2030 Agenda for Sustainable Development and the UN Habitat III New Urban Agenda and the Contribution of the 3Rs	
Room: The Imperial Hall (Second Floor Level)	<p>Background presentation (1): Role of the 3Rs for achieving the 2030 Agenda for Sustainable Development and the Habitat III New Urban Agenda (10 min)</p> <p>- by Dr. Kulwant Singh, Director, CEO, 3R WASTE Foundation, India</p> <p>Presentation (2): Implementing SDG 11 to make cities and human settlements inclusive, safe, resilient and sustainable- The case of Indore, Madhya Pradesh, India (10 min)</p> <p>- by Mr. Manish Singh, Commissioner, Indore Municipal Corporation, Madhya Pradesh, India</p> <p>Presentation (3): International environmental strategies of Kitakyushu as Green Growth City (10 min)</p>	<p>Session Chair: Mrs. Malini Laxmansingh Gaur, Mayor of Indore City, Madhya Pradesh, India</p> <p>Co-Chair: Mr. Manish Singh, Commissioner Municipal Corporation, Indore, Madhya Pradesh, India</p> <p>Facilitator / Moderator: Dr. Kulwant Singh, Director, CEO, 3R</p>





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PROGRAMME

DAY 2: 11 April 2018 (Wednesday)

- by **Mr. Takanori Arima**, Director, International Environmental Strategies Division Environment Bureau, City of Kitakyushu, Japan

Panel Discussion: (30 min)

- **Mr. Yuji Kato**, Deputy Director, International Environmental Strategies Division, Environment Bureau, City of Kitakyushu, Japan
- **Mr. Suryanto Ibrahim**, Head of Environmental Agency, Government of Balikpapan, Indonesia
- **Mr. Maung Maung Soe**, Mayor of Yangon City, Myanmar

Discussion Points:

1. To what extent 3R and resource efficiency have been integral part of urban development strategies or city development plans?
2. What is our scientific insight to the role of 3R in protecting the urban ecosystem and enhancing resilience of cities?
3. What integrated 3R policy options and measures Asian cities should consider in achieving better synergy in their efforts towards clean water, clean land and clean air, climate mitigation and adaptation and disaster risk reduction?
4. What a strategic shift to circular economic development approach could offer cities in addressing the New Urban Agenda and the 2030 Agenda for Sustainable Development?
5. What critical lessons does the case of Kitakyushu city offer on the role of 3Rs in achieving the eco-city status?
6. What are the emerging trends in 3R policy implementation across Asian cities? Which are the champion cases? What have been the enabling factors for such achievements?

WASTE Foundation,
India

Rapporteur:
Prof. Vella Atienza,
University of the
Philippines Los
Banos, The
Philippines





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DAY 2: 11 April 2018 (Wednesday)

10:40-11:00	COFFEE/TEA BREAK	
11:00-13:00	MAYORS SESSION 2: Smart Cities of India - What can 3R Offer in terms of Sustainable Urban Development and New Business Opportunities?	
Room: The Imperial Hall (Second Floor Level)	<p>Background presentation (1): Creating circular economic potential as a way for achieving smart and sustainable cities (10 min) - by Dr. Prasad Modak, Executive President Environmental Management Centre, India</p> <p>Presentation (2): Smart solutions by utilizing 3R – The Case of City-to-City collaboration between Kawasaki city and Bandung city (10 min) - by Ms. Takako Ono, Manager, Kawasaki city (Kawasaki Environment Research Institute), Japan</p> <p>Presentation (3): Moving towards zero waste – An inherent requirement of smart cities- Experiences of Green Industries South Australia (10 min) - by Mr. Vaughan Levitzke PSM, Chief Executive, Green Industries South Australia</p> <p>Presentation (4): Smart cities initiatives of India (10 min) -by Mr. Anupam Mishra, Economic Adviser, Ministry of Housing & Urban Affairs (MoHUA), Government of India</p> <p>Presentation (5): 3R and Resilience Nexus – Experience of Bandung city (10 min)</p>	<p>Session Chair: Mr. Seigo Tanaka, Vice-Mayor, Osaka City Government, Japan</p> <p>Facilitator / Moderator: Amit Dutta, KPMG India, India</p> <p>Rapporteur: Prof. Sadhan Kumar Ghosh, Jadavpur University, Kolkata, India</p>





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- by **Mr. Deni Nurdyana Hadimin**, Director,
Bandung City, Indonesia

Panel Discussion: (40 min)

- **Mr. Avinash Singh**, Municipal Commissioner, Kanpur City, India
- **Mrs. Ashmitaben Shiroya**, Mayor, Surat City, India
- **Dr. Vinod Rao IAS**, Municipal Commissioner, Vadodara City, India
- **Mr. Deni Nurdyana Hadimin**, Director, Bandung City, Indonesia
- **Mr. N. Ravichandran**, Municipal Commissioner Tiruchirappalli City, India
- **Mr. Devesh Moudgil**, Mayor, Chandigarh City, India
- **Sr. Corporator, Dr. Jayaji Krishna Nath**, Navi Mumbai City, India

Discussion Points:

1. *The Smart City Mission of the Government of India envisions the development of one hundred “smart cities” by 2020. What can 3R offer towards this mission? Why should “zero waste” matter to these smart cities?*

2. *Business and cities are closely tied to each other for their own success, survival and sustainability. Pursuing 3R as an economic industry can provide multiple benefits for cities and their citizens – (a) entrepreneurship development, new business opportunities and green jobs; (b) quality environment and life through improved and scientific management of various waste streams, and (c) inclusiveness. What are the prospects in promoting 3R as new business opportunities in Asian cities? What coordinated actions are necessary among the scientific (R&D), government, private/business sector, and communities/consumers?*

3. *What specific lessons do the cases of Kawasaki city and South Australia offer us in this regard?*





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DAY 2: 11 April 2018 (Wednesday)

	4. To what extent do we understand the nexus between 3R and resilience? What lessons does the case of Bandung city provide to us?	
13:00-14:00	LUNCH BREAK	
14:00-15:30	MAYORS SESSION 3: Plastics Issues in Coastal and Marine Environment ~ Options for Cities	
Room: The Imperial Hall (Second Floor Level)	<p>Presentation (1): Preventing plastics in the coastal and marine environment -Win-Win opportunities for cities based on circular economic development (10 min)</p> <p>- by Ms. Aditi Ramola, Technical Director, International Solid Waste Association (ISWA), Austria</p> <p>Presentation (2): Recycling and resource recovery options of plastic waste (10 min)</p> <p>- by Mr. Hideki Minamikawa, President, Japan Environmental Sanitation Center (JESC), Japan</p> <p>Presentation (3): Towards plastic free tourism development in India</p> <p>-by Prof. Sandeep Kulshreshtha, Director, Indian Institute of Tourism & Travel Management, Gwalior (10 min)</p> <p>Panel Discussion: (60 min)</p> <ul style="list-style-type: none"> • Mrs. Dimple Mehta, Mayor, Mira Bhayandar Municipal Corporation, India • Mr. Vaughan Levitzke PSM, Chief Executive, Green Industries South Australia 	<p>Session Chair: Ms. Ngo Nguyen Ngoc Thanh, Vice Head, HCMC Environmental Protection Agency (HEPA), Department of Natural Resources & the Environment (DONRE), Ho Chi Minh City, Viet Nam</p> <p>Facilitator / Moderator: Ms. Aditi Ramola, Technical Director, International Solid Waste Association (ISWA), Austria</p> <p>Rapporteur: Dr. Harsh Thukral, Deputy Director, National</p>





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DAY 2: 11 April 2018 (Wednesday)

	<ul style="list-style-type: none"> • Mr. Maung Maung Soe, Mayor of Yangon City, Myanmar • Mr. Manoj Kumar Gangeya, Ministry of Environment, Forest & Climate Change (MoEF&CC), Government of India <p>Discussion Points:</p> <ol style="list-style-type: none"> 1. What is the overall state of plastics waste management in Asian cities? What is the level of knowledge-base (data, information, monitoring, expertise/institutions, etc.) on plastics waste? 2. What are the sound intuitional, financing and technology choices in 3R areas to address plastics waste issues in coastal and marine environment? What are the best examples or models of preventive measures in the region? 3. What are the adverse economic impacts of plastics wastes in the tourism sector? How can 3R provide viable solutions? 4. To what extent cities do monitor micro-plastics in coastal and marine environment? What is the level awareness on this emerging issue? What is the level of cooperation between city and national government authorities in addressing this issue? 5. What could private sector offer in addressing the issue? What type of partnership mechanisms could be most viable for dealing with this issue? 6. How could the international capacity building and collaborative research programs be mobilized towards circular economic utilization of plastics waste? What could the international organizations, including regional / sub-regional bodies, offer in this regard? 	<p>Productivity Council, India</p>
<p>15:30-15:45</p>	<p>COFFEE/TEA BREAK</p>	





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<p>15:45-16:45</p>	<p>MAYORS SESSION 4: Inter-Municipal Partnership and Cooperation at National and International level - Best practices</p>	
<p>Room: The Imperial Hall (Second Floor Level)</p>	<p>Presentation (1): Yokohama's waste management and International technical cooperation (10 min) - by <i>Ms. Noriko Saito</i>, Executive Director of Household Waste Measures Department, Resources and Waste Recycling Bureau, Yokohama city, Japan</p> <p>Presentation (2): City-City cooperation and private sector partnership from Indian experience (10 min) - by <i>Shri Chandra Shekhar Agarwal</i>, Mayor, Dhanbad Municipal Corporation, India</p> <p>Presentation (3): City-City cooperation and private Sector partnership for promoting 3R and resource efficiency (10 min) - by <i>Mr. Seigo Tanaka</i>, Vice Mayor, Osaka city, Japan</p> <p>Panel Discussion: (30 min)</p> <ul style="list-style-type: none"> • Mr. Makoto Mihara, Manager for International Cooperation, Osaka city, Japan • Vivek Narayan Shejwalkar Mayor of Gwalior Municipal Corporation, India • Mr. Aldrin Chin Cuna, City Administrator, Quezon City, The Philippines • Ms. Ngo Nguyen Ngoc Thanh, Vice Head, HCMC Environmental Protection Agency (HEPA), Department of Natural Resources & the Environment (DONRE), Ho Chi Minh City, Viet Nam • Ms. Noriko Saito, Executive Director of Household Waste Measures Department, Resources and Waste Recycling Bureau, Yokohama city, Japan 	<p>Session Chair cum Facilitator / Moderator: <i>Dr. Prasad Modak</i>, Executive President Environmental Management Centre, India</p> <p>Rapporteur: <i>Dr. Shukla Pal Maitra</i>, Deputy Director, National Productivity Council, India</p>





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DAY 2: 11 April 2018 (Wednesday)

	<p>Discussion Points:</p> <ol style="list-style-type: none"> 1. How can inter-municipal partnerships and cooperation at national and international level enhance waste management services and 3R capacities of cities and municipalities? What are the best examples or models? 2. How can we operationalize viable inter-municipal cooperation in developing human resources and building institutional capacity, developing and managing waste recovery facilities, exchange of waste based on recycling potential or marketing facilities, joint waste-to-energy projects, community based composting facilities, and joint waste treatment facilities, etc.? 3. How can modern information and communication technologies such as GIS, IoT, etc. help enhancing such inter-municipal cooperation on a regional scale? 4. What role could national government authorities play in promoting inter-municipal cooperation? 	
<p>16:45-18:00</p>	<p>MAYORS SESSION 5: Technological Options for Cities to Deal with New Emerging Waste Stream ~ Chemical waste and E-waste</p>	
<p>Room: The Imperial Hall (Second Floor Level)</p>	<p>Presentation (1): Technological interventions for managing chemical waste (10 min) -by Mr. Hiroyuki Ito, Senior Manager, DOWA ECO-SYSTEM Co., LTD., Japan</p> <p>Presentation (2): Technological interventions for managing E-waste (10 min) -by Prof. Yong-Chil Seo, Yonsei University and Korea Electronics Recycling Cooperative, Republic of Korea</p>	<p>Session Chair: <i>Mrs. Sifa Mohammed</i>, Mayor, Male City Council, Maldives</p> <p>Facilitator / Moderator: <i>cum Rapporteur: Prof. Sadhan Kumar Ghosh</i>, Jadavpur University, India</p>





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Presentation (3): Clean technology as an enabler for circular economy in Europe (10 min)

-by *Ms. Carine Van Hove*, Global Science, Technology & Innovation Conference G-STIC, Project Manager & VITO NV, Belgium

Presentation (4): Extended Producer Responsibility –An experience of Germany (10 min)

-by *Dr. Habil S. Narra*, University of Rostock , Germany

Panel Discussion: (30 min)

- **Dr. Neeraj Sharma**, Department of Science and Technology, Government of India
- **Mr. Rene van Berkel**, UNIDO Representative, Regional Office India, United Nations Industrial Development Organization (UNIDO)
- **Mr. Ajoy Raychaudhuri**, Director, Battery Foundation International, India
- **Ms. Vaishali Nandan**, Senior Advisor, GIZ, India

Discussion Points:

1. As Asian countries and cities continue to grow economically and industrially, what are the main technological gaps the local and municipal authorities face with in addressing the complexity and diversification of waste streams, mainly new and emerging waste streams such as – e-waste, chemicals and hazardous waste, plastics in coastal and marine environment, etc.?

2. How do these emerging waste streams matter to local and municipal authorities? What serious challenges they pose for the Mayors/Municipal Commissioners in realizing 21st century cities?

3. How could cities and municipalities benefit through public-private, city-city, industry-industry, country-country (North-South





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	<p>& South-South) cooperation in scaling up of application of sound and locally adaptable waste management technologies?</p> <p>4. What is the current state of capacities of cities and municipalities in evaluating and selecting appropriate waste management technologies? Are there knowledge and institutional gaps? What support could national government authorities consider in bridging such gaps?</p>	
18:00-18:30	<p>MAYORS SESSION 6: Declaration Acceptance Session “Indore 3R Declaration on Achieving Clean Water, Clean Land, and Clean Air in Cities”</p>	
<p>Room: The Imperial Hall (Second Floor Level)</p>	<p>Session Chair: <i>Mrs. Malini Laxmansingh Gaur, Mayor of Indore City, Madhya Pradesh, India</i></p> <p>Co-Chair: <i>Mr. Manish Singh, Commissioner Municipal Corporation, Indore, Madhya Pradesh, India</i></p>	<p>Facilitator / Moderator: <i>Mr. C.R.C. Mohanty, Environment Programme Coordinator, United Nations Centre for Regional Development, Japan</i></p>
19:15-20:15	<p>- Signing of Declaration “Indore 3R Declaration on Achieving Clean Water, Clean Land, and Clean Air in Cities” by Mayors and City Authorities</p> <p>-Announcements of City-City cooperation and partnerships (a) Osaka city and Quezon city (5 min)</p> <p>[All participants are requested to move to Room: The Grand Hall (Ground Floor Level)]</p>	
<p>Room: The Grand Hall</p>	<p>Session Chair: <i>Mrs. Malini Laxmansingh Gaur, Mayor of Indore City, Madhya Pradesh, India</i></p>	<p>Facilitator / Moderator: <i>C.R.C. Mohanty,</i></p>





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DAY 2: 11 April 2018 (Wednesday)

(Ground Floor Level)	Co-Chair: <i>Mr. Manish Singh, Commissioner Municipal Corporation, Indore, Madhya Pradesh, India</i>	<i>Environment Programme Coordinator, United Nations Centre for Regional Development, Japan and Dr. Ramakant, Deputy Adviser, CPHEEO, Government of India</i>
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PROGRAMME

Indian Industry Session on 3R and Waste Management

Date: 10 April 2018

Time: 12:00-16:00

Room: Phoenix Hall (Lower Ground Floor Level)





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PROGRAMME

DAY 1: 10 April 2018 (Wednesday)

Indian Industry Session on 3R and Waste Management

Time/Room	Programme	
08:00-09:15	Registration	
09:15-10:45	Opening at The Grand Hall (Ground Floor Level)	
10:45-11:00	Coffee/Tea Break	
12:00 -12:15 Room: Phoenix Hall (Lower Ground Floor Level)	Opening Remarks Mr. Kamal Maheshwari, President, ESSEL Infra Projects Ltd.	
12:15 -12:30 Room: Phoenix Hall (Lower Ground Floor Level)	Keynote Address- Issues, Challenges, Opportunities in Recycling and Waste Management in India Mr. Mahesh Babu, Managing Director, IL&FS Environmental Infrastructure & Services Ltd.	
12:30-13:30	Role of 3R and Waste Management- Achieving Sustainability and Circular Economy	
Room: Phoenix Hall (Lower Ground Floor Level)	Speakers (10 mins each) Mr. Ulhas Parlikar, Head, Geocycle India, ACC Ltd Mr. Harman Saraf, Head- Recycling Ramky Enviro Engineers Ltd.	Moderator: Mr. Kamal Maheshwari, President, ESSEL Infra Projects Ltd





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	<p>Mr. Shiva Kiran, CEO, Sukuki Encore Mr. K. Sreenivas Rao, Business Development, Hitachi Zosen India Pvt Ltd Mr. Pawan Agarwal, Managing Director, Green Brick Eco-solution</p>	
13:30-14:30	Lunch	
14:20 -14:50	Waste Management based on 3R Approach	
Room: Phoenix Hall (Lower Ground Floor Level)	<p>Case Study Presentations by</p> <ul style="list-style-type: none"> • Mr. Deepak Agarwal, Vice President, IL&FS • Mr. P S Sodhi, Sr. Program Manager, UNDP & Mr. Imteyaz Ali Sarthak, Consultant, Coco Cola • Mr. Mohan Pandey, Country Head, International Waste Management 	
	Panel Discussion: How to Achieve India's "Mission Zero Waste"	
14:50 -14:55 Room: Phoenix Hall (Lower Ground Floor Level)	Chair: Mr. V.K Jindal , Joint Secretary, Ministry of Housing and Urban Affairs (MoHUA)	
14:55 -15:00 Room: Phoenix Hall (Lower Ground Floor Level)	Moderator: Mr. Ulhas Parlikar , Head, Geocycle India, ACC Ltd	
15:00-15:30	Opening Remarks (3 min each)	
Room: Phoenix Hall (Lower	<p>Mr. Saurabh Shah, Vice President, Excel Industries Mr. Sandeep Arvind Patel, CEO, NEPRA- Let's Recycle Mr. Rama Mohana Rao, National Head –MSW Operations, Ramky Enviro Engineers Ltd.</p>	





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<p>Ground Floor Level)</p>	<p>Mr. P. Anil Chowdary, Managing Director, Green Waves Environmental Solutions Mr. Akshay Jain, CEO, Namo E Waste Management Mr. Deepak Agarwal, Sr. Vice President, IL&FS Mr. Yogesh Mittal, CFO, JBM Col Suresh Rege, CEO, Mailhem Ikos Environment Private Limited Dr. Syed Asad Ali Warsi, CEO, Eco Pro Environmental Ms. Natasha Zarine, Co-Founder, Civic Response Team Aurangabad</p>
<p>15:30 -16:15 Room: Phoenix Hall (Lower Ground Floor Level)</p>	<p>Panel Discussion</p>
<p>16:15 -16:30 Room: Phoenix Hall (Lower Ground Floor Level)</p>	<p>Closing Remarks</p>

