BUSINESS PLAN

From 2020 to 2023 (for BCRC)

BASEL CONVENTIONREGIONAL CENTRE FOR TRAINING AND TECHNOLOGY TRANSFER FOR THE ASIA AND PACIFIC REGION

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BUSINESS PLAN (2020 - 2023)

Name of Regional Centre:

Basel Convention Regional Centre for Training and Technology Transfer for the Asia and Pacific Region/Stockholm Convention Regional Centre for Capacity-building and the Transfer of Technology in The Asia and Pacific (BCRC China/SCRCAP)

Submitted by (name): Li Jinhui

This business/work plan covers the period from 01/01/2020 to 31/12/2023

Executive Summary

This Business Plan for 2020-2023 prepared by the Basel Convention Regional Centre for Training and Technology Transfer for the Asia and Pacific Region (BCRC China), aims to promote the effective implementation of the decisions adopted by the Thirteenth Meeting of the Conference of the Parties (COP 13) and COP14, , and, if needed, resolutions of UNEA and other EMAs, taking into account the situations and needs of developing countries and countries with economies in transition in the Asia and Pacific region, as well as the coordination among the Directors of BCRCs and the Directors of Stockholm Convention Regional Centres (SCRCs) since 2011.

The vision of BCRC China is to promote the overall implementation of Basel Convention in the Asia – Pacific region through developing the best suitable regional platform of training, information, technology transfer, consulting, awareness raising and cooperation on chemical and waste.

In the Asia and Pacific region, most of priority areas of Basel Convention are also the regional priorities that need to be reinforced. Generally, the common needs among the countries served by BCRC China focus on but not limited to the following areas:

- The technical assistance for development of national legislations and other measures to implement the Convention;
- International cooperation on information communication and enforcement mechanism to combat illegal transboundary movements;
- Knowledge improvement and establishment of national ESM system of hazardous waste and other waste;
- Formalization of informal sectors and the establishment of certified facilities on hazardous waste and e-waste recycling;
- Development and promotion of environmentally sound management system of e-waste;
- Development of distinguish standard between waste and used electronics towards the safe and sustainable management of e-waste especially for developing countries;
- National legal system development or improvement in the fields of prevention and minimization of hazardous waste and other waste;
- General capacity building and awareness raising on the implementation of Basel Convention.

1. Introduction and Background

Basel Convention Regional Centre for the Asia and Pacific Region (BCRC China) was established in 1997 according to the decision of the third meeting of the Conference of the Parties to the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes. In May 2009, BCRC China was endorsed as the Stockholm Convention Regional Centre for Capacity-building and the Transfer of Technology by the fourth meeting of the Conference of the Parties to the Stockholm Convention on Persistent Organic Pollutants. With performing responsibilities for both Basel Convention and Stockholm Convention, and assisting developing countries and countries in transition to achieve the aims of the above two conventions, the core functions of BCRC China include training, technology transfer, dissemination of information, consulting and publicity, etc.

Science 2007, many countries in the Asia and Pacific region have accepted services by BCRC China. Most of the countries who are developing countries are generally ultimate destination of transboundary movements of hazardous waste and other wastes. Until December 31,2018, BCRC China has successfully completed more than 200 national, regional and international workshops. More than 4000 representatives from over 60 countries and regions participated in the meetings. Lots of research outputs were made by BCRC China and disseminated in the form of publications and reports as well as videos.

Meanwhile, through these workshops/trainings and internships conducted in the past years, the following status and problems in regional were identified:

- Lack of ESM capacity of e-waste stream in the region. Some countries in the Asia and Pacific region do not have specific policy and strategy for promotion of 3Rs technologies in solid waste and e-waste. Lack of waste management strategy and with limited involvement of private sectors and government resources, international organization are actively assisting in managing the waste crisis;
- Lack of information communication and cooperation among countries/parties in Asia-Pacific region to improve the information exchange at the regional level;
- Lack of import/export management capacity to prevent and combat illegal traffic of hazardous waste and other waste. There is no unified hazardous waste list of ban import at the regional level, and lack of cooperation with the Customs, including development of guideline on customs control, training to the Customs, data sharing and communication among customs of different countries, and other related issues;
- Lack of the technology assistant from developing countries in field of ESM of hazardous waste and other waste;
- Lack of the waste manage capacity of municipal authorities, such as: lack of guideline for efficient use of agricultural waste; lack of rules for management of municipal solid waste; lack of incentives for environmental management system and cleaner production; lack of

institutional capacity; lack of public cooperation;

- Lack of the general capacity building on the implementation of Basel Convention.

Given the status in the Asia and Pacific region, BCRC China will take the full advantage to solve this problem to implement and to strengthen the synergies of the Conventions on the management of chemicals and wastes and improve the capacity of regional chemical management.

2. Goals and Objectives:

Goals

Since BCRC China was established, it has been working according to the functions defined by Basel Convention. BCRC China has been trying to develop the regional platform for training, information exchange, technology research and transfer, consulting, awareness raising and cooperation in the Asia and Pacific region in order to improve the environmentally sound management of hazardous waste and other waste in Asia-Pacific region, and its main Goals listed as follows:

- To promote the operation capacity of BCRC China, to enhance the cooperation and coordination among the BCRCs and countries.
- To identify the status and needs in the Asia and Pacific Region, and to strength the national capacities of the developing countries and countries with economies in transition in the region to implement Basel Convention through training, information, awareness raising activities.
- To promote the implementation of the strategic framework, CLI and other decisions adopted by COP13 and COP 14 of Basel Convention in the Asia and Pacific Region, and, if needed, resolutions of UNEA and other EMAs.
- To improve the development of the network to enhance the enforcement of Basel Convention in the fields of ESM and transboundary movement management on hazardous waste and other waste.

Objectives

- To facilitate the regional information exchange to support the effective implementation of the Basel Convention among the parties and others and to identify the needs in the region;
- To improve the capacity on implementing ESM of hazardous wastes, e-waste and other wastes system and its infrastructure, and improve technology transfer;
- To push the establishment of the public-private partnership on metal recycling at regional level and strengthen the collection and recycling of waste metal stream in the Asia and Pacific region;
- To strengthen the synergy on the implementation of Stockholm Convention and Minatama Convention in the Asia and Pacific region;
- To enhance the capacity of import/export management, preventing and combating illegal traffic of hazardous waste and other waste;
- To coordinate and cooperate with other regional centres and with other international/regional/national organizations to enhance the implementation of Basel

Convention;

- To enhance the self-capacity building of BCRC China to contribute to achieve the goal of business plan;

3: Constraints and Resources:

Constraints

Since BCRC China was founded, many activities related to the implementation of the Basel Convention had been conducted. During these activities and its operation to promote the implementation of the functions of BCRCs under the Basel Convention, BCRC China is also faced with some obstacles as follows:

- Lack of sustainable funds support as the financial mechanism of BCRCs;
- Lack of mechanism on cooperation and sharing information among the United Nations and its bodies, other relevant intergovernmental organizations, industry, and non-governmental organizations;
- No legal-binding requirement on ESM of hazardous waste and other waste within Basel Convention to support the platform establishment of technology transfer;
- Inconsistent needs of the parties in the region and different needs between the governments and enterprises;
- Lack of technology support from developed countries in the field of ESM of hazardous waste and other waste;

Resources

Area where the centre has advantage over others in assisting Parties;

Since BCRC China was established, it has been working according to the core functions defined by Basel Convention. The Centre has served as a platform for training, information, consulting, awareness and technology transfer within the region through conducting the detailed projects/workshops/activities.

- *Information platform:*

  BCRC China has developed Chinese and English website for both Basel Convention Regional Centre and Stockholm Convention Regional Centre and Wechat platforms for both BCRC China and ICWMT, which all promote information distribution and awareness raising. In addition, BCRC China gradually adds service items in the websites, so as to promote the development, and international influence of BCRC China, mainly the four platforms listed as

following: PCBs Elimination Action in Asia-Pacific; PBDEs Elimination Action; E-waste information platform; Implementation information on Basel Convention.

- *Network:*

  Basel Forum in Asia-Pacific Region on Promotion of Basel Convention Implementation was initiated by BCRC China, Korea Basel Forum and National Institute for Environmental Studies of Japan after deep consultation. The aim of the forum was to provide one authoritative information exchange platform on Hazardous Waste and E-waste management for representative agencies of Asia-Pacific Region states.

  The meeting will be held once a year, relating to decision of Basel Convention, regulations of parties, advanced research on waste management and disposal, and other common concerned issues. Basel Forum in Asia-Pacific Region develop new ways of cooperation and information sharing on waste management for unofficial institutions, and laid a foundation to promote the implementation of Basel convention both in regional and national level.

- *International Conference on Waste Management and Technology (ICWMT):*

  ICWMT is an important international platform for specialists and officials to discuss scientific problems, exchange experiences, and seek for innovative solutions. Initiated by Basel Convention Regional Centre for the Asia and Pacific Region, ICWMT has been ongoing for 13 years since its inception in 2005. On a yearly basis, ICWMT is known to attract a great number of participants from governments, research institutions, universities and industries. ICWMT plays an important role to promote the dissemination of effective policies, environmentally friendly technologies and management experiences as well as the best available practices on waste.

- *Training:*

  BCRC China established the regional training online platform on chemicals and waste management and technology. More than 200 of videos course were published on website, including most aspects on chemicals and waste management and treatment.

  BCRC China also organized some face to face training programmes in regional and national level to share the experience of waste management and implementation of Basel Convention. Such as, Training Workshop to Improve the Implementation of Basel Convention for Developing Countries in Greater Mekong Sub-region, East Asia Summit and Northeast Asia have held successfully in Beijing, Suzhou and Guangzhou. National Training Workshop for Environmental Officers on supervisions of Incineration Disposal Facilities of Hazardous Waste has been successfully held for five times in Shanghai, China. National training workshop on combating "foreign garbage" smuggling for China customs was held in Beijing.

- Technology transfer:

  To promote technical assistance and technology transfer in the Asia and Pacific region. BCRC China organized regional workshops on promotion of technical assistance and technology transfer in the Asia and Pacific region on chemicals and waste, and organized study tour/industrial tourism on chemical and waste management and disposing facility for regional countries and enterprises

Through these platforms, training and workshops, BCRC China established cooperation relationship between different countries and other regional centre to promote region technical assistance and technology transfer in the Asia and Pacific region.

Area where the centre has adequate skills and knowledge in assisting Parties;

The contents of projects undertaking by BCRC China include policy research, experimental analysis, technical research and development and project demonstration and negotiation of conventions, etc. And the research areas cover solid waste, hazardous waste, e-waste, POPs, and support for convention implementation. Area where the centre has adequate skills and knowledge in assisting Parties as follows:

- E-waste

  For the purpose of reducing, recycling, harmless disposal of e-waste, improving public environmental protection consciousness, and raising the level of e-waste recycling and treatment technology and equipment, BCRC China devotes to improve environmentally sound management of e-waste from environmentally sound management review, policy research, to collection and recycling technology research and demonstrations on e-waste.

- Hazardous Waste

  In recent years, BCRC China has accumulated a lot of experience on policy and research of management on hazardous wastes and other waste. They have undertaken numerous international/regional/national projects, with the focus on hazardous waste, and held many international/regional/national workshops. Lots of research outputs were made by BCRC China and disseminated in the form of publications and reports as well as videos.

- POPs waste

  In order to facilitate the elimination of PBDEs through the identification of approaches for substituting their use in industrial processes and preventing the contamination of the recycling and waste streams, the Stockholm Convention Regional Centre for Capacity Building and the Transfer of Technology in The Asia and Pacific region undertaken several research projects.

- Transboundary movement control

BCRC China has held international/regional/national workshops, attended the regional meeting, policy research and organised training to strengthen the information sharing on the implementation of Basel Convention especially on hazardous waste and e-waste among the different stakeholders in the Asia and Pacific region.

- Others

Based on the network system, BCRC China has developed video training system on hazardous wastes and other wastes, with the courses involving various aspects of waste management and disposal. The training system is open to the society, for the purpose to promote understanding of social practitioners on hazardous wastes and other wastes, and expand the international influence of BCRC China.

Area where the centre is developing its expertise and is not yet ready in assisting Parties;

Metals are non-renewable resources, their global major consumption is in Asia where the population amounts for 61% of the global population and it is the biggest global manufacturing base. These make it more important for the Asia and Pacific region to recycle metal resource, to reduce the emission of metal to the environment, and to prevent decentralizing into the products that is not necessary. However, the metal recycling industries are led by informal sector in most of the countries in the Asia and Pacific region. The metals recycling project is proposed by BCRC China, aims to promote metal recycling and resource efficiency globally by streamlining information and technology flow.

Professional staff

BCRC China has gradually formed its advantage in research on management policy and technology, capacity building and information exchange in chemicals and waste, consisting of over twenty full-time staff with doctor or master's degrees, and part-time technical team formed by tens of professors and experts. With the unremitting efforts of all the staff, the global influence of BCRC China is increasingly growing. BCRC China has undertaken numerous international/national projects/activities and regional workshops on capacity building in the field of hazardous waste and other solid waste as well as chemicals, with the focus on e-waste, hazardous waste, asbestos waste and POPs. In addition, lots of partners have been or are being involved in the activities of BCRC China. As such BCRC China will be gradually improved under the supports of all stakeholders and guidance of the Steering Committee including the Secretariat of Basel Convention to address the above-mentioned obstacles.

Equipment

Tsinghua University, where BCRC China is located, also has made great contribution and supports for BCRC China such as expertise resource, technical support, staff, offices, Network equipment, conference room, etc. BCRC China provide computers for the staff. Moreover, there is a supportive facility, an advanced POPs analysis laboratory, which could provide good service for micro-pollutants analysis on PCDD/PCDFs, PCBs and pesticides, and new chemicals under the Stockholm Convention (e.g. PFOS using UPLC/MS-MS) at the School of Environment, Tsinghua University, where BCRC China/SCRCAP locates. The facilities owned by Analysis and Test Centre of Tsinghua University are also available.

Other important resources

In particular, a very important and useful resource for BCRC China is the support from Ministry of Ecology and Environment of China (formerly Ministry of Environmental Protection). The government of China, as the host country attaches great importance to the establishment and development of BCRC China. To further support the operation and development of BCRC China, the government of China has performed the obligations of the host country and provided the great supports in terms of the implementation of core functions of BCRC China under Basel Convention. In particular, Ministry of Ecology and Environment of China, on behalf of the government of China, signed a framework agreement with the Secretariat of the Basel Convention in May 2011 to provide more supports for BCRC China.

4: Activities and Strategies

Activities

	Name of the Project/activity	Convention			Beneficiary Party (ies)	Estimated budget (US$)	Funding source(s)	Time frame (Year)
		BC	SC	RC				
1	Further to establish information platform for the implementation of Basel Convention in the Asia and Pacific region (BCinf) based on the website of BCRC China	✓			The countries in Asia-Pacific region especial countries served by BCRC China, and all other countries and stakeholders on Basel Convention	80,000	BCRC China in-kind contribution and Chinese government	2020-2023
2	Strengthening the operation of BCRC China and implementation of its core functions	✓	✓		The countries in Asia-Pacific region especial countries served by BCRC China/SCRCAP, and all other countries and stakeholders on Basel Convention	40,000	BCRC China in-kind contribution and Chinese government	2020-2023
3	Trainings to the Staff to improve their capacity to work in the Centre to improve the implementation of Basel Convention at all levels	✓			The countries served by BCRC China and other countries in The Asia and Pacific region	100,000	Chinese government and some from organizers	2020-2023
4	Organizing the Basel forum in Asia-Pacific Region with aims to improve the implementation of BC in Asia-Pacific Region through information sharing and network establishment	✓			The countries served by BCRC China and other countries in The Asia and Pacific region	80,000	BCRC China in-kind contribution, Chinese government and other potential funds	2020-2023
5	Organizing the Fifteenth, Sixteenth, Seventeenth and Eighteenth International Conferences on Waste Management and Technology (ICWMT15, ICWMT16, ICWMT17 and ICWMT18)	✓	✓		The countries served by BCRC China/SCRCAP and other countries in the Asia and Pacific region	280,000	BCRC China in-kind contribution, Chinese government and other potential private sectors	2020-2023
6	Facilitating the capacity building and legal system of served countries on the national/local legislation or other measures for the implementation of the Basel Convention, and conducting needs analyses.	✓			The countries served by BCRC China and other countries in The Asia and Pacific region	200,000	BCRC China in-kind contribution, Chinese government, industries and other potential in-kind contribution from the participating countries and other organizations	2020-2023
7	The Regional and National Online Training platform on Chemicals and Waste	✓	✓		The countries served by BCRC China/SCRCAP, and all other countries and stakeholders	80,000	BCRC China in-kind contribution, Chinese government and other potential financial support	2020-2023

	Name of the Project/activity	Convention			Beneficiary Party (ies)	Estimated budget (US$)	Funding source(s)	Time frame (Year)
		BC	SC	RC				
8	Organizing capacity-building activities on preventing and combating illegal traffic at national and regional level	✓			The countries served by BCRC China and other countries in The Asia and Pacific region	160,000	Subject to financial availability	2020-2023
9	Further Pushing the Establishment and Construction of Platform on Technical Assistance and Technology Transfer of Chemical and Wastes Management and Disposal in Asia-Pacific Region	✓	✓		The countries served by BCRC China/SCRCAP, and all other countries and stakeholders	600,000	BCRC China in-kind contribution, Chinese government and other potential funds	2020-2023
10	Solid waste and hazardous waste management with supports to the implementation of Sino-US Environmental Cooperation programme	✓			The countries served by BCRC China	20,000	Chinese governments and other potential funds	2020
11	Study on the regional development of chemicals and waste management in Asia-Pacific Region and publishing the regional development report on waste and chemical management in the Asia-Pacific Region – separately related to the Basel Convention, Stockholm Convention, Rotterdam Convention and Minamata Convention every 2-4 year	✓	✓		The countries served by BCRC China/SCRCAP, and all other countries and stakeholders on waste and chemicals	150,000	Subject to financial availability	2020-2023
12	Comparative study the implementation of Basel Convention and waste management policy system at national level	✓			The countries served by BCRC China	64,000	Chinese governments, and other potential funds	2020-2023
13	Coordinating and cooperation with other regional centres and other international/regional/national organizations to enhance the implementation the Basel Convention	✓	✓		all the countries and stakeholders on waste and chemicals	300,000	Subject to financial availability	2020-2023
14	Sound management of HBCD in insulation products and wastes from construction and demolition in typical Asia-Pacific countries	✓	✓		Mongolia, Vietnam, China	100,000	Japanese government, SCRCAP/ BCRC China in-kind contribution	2020-2023
15	Organization of the Sixth, Seventh, Eighth, Ninth Regional Forum on Chemical Management	✓	✓		The countries served by SCRCAP / BCRC China	200,000	BCRC in kind contribution, and other potential fund, such as funds from industrial sectors	2020 - 2023
16	Capacity building and information exchange for the implementation of Stockholm Convention and chemical management, especially POPs management	✓	✓		The countries served by SCRCAP / BCRC China	241,935	Chinese government contribution, BCRC China/SCRCAP in-kind contribution	2020-2023
17	Investigation on management status and tendency analysis of the newly listed persistent organic pollutants in Asia-Pacific regions	✓	✓		The countries served by SCRCAP / BCRC China	403,226	Chinese government , BCRC China/SCRCAP in-kind contribution and other potential funds	2020

	Name of the Project/activity	Convention			Beneficiary Party (ies)	Estimated budget (US$)	Funding source(s)	Time frame (Year)
		BC	SC	RC				
18	Information follow-up and trends analysis on the global chemical management	✓	✓		The countries served by SCRCAP / BCRC China	80,645	Chinese government, and other potential funds	2020
19	Organizing waste and chemicals training for national and local enforcement officials in The Asia and Pacific region with aims to promotion of the implementation of the Basel Convention, Stockholm Convention, Rotterdam Convention and Minamata Convention	✓	✓	✓	The countries served by BCRC China/SCRCAP, and other countries and industry	200,000	Subject to financial availability	2020-2023
20	Study on the recycling of electric vehicle batteries in selected countries in the Asia and Pacific Region	✓			The countries served by BCRC China/SCRCAP, and other countries and industry	100,000	Subject to financial availability	2020-2023
21	Organization of regional capacity building activities on the environmentally sound management for major wastes streams including ULAB, mercury waste, asbestos waste, CRT waste and e-waste	✓			The countries served by BCRC China and other countries in The Asia and Pacific region	280,000	Subject to financial availability	2020-2023
22	Promote the Work of Partnership for Recycling and Disposal of Waste Electric Vehicle Batteries	✓			The countries served by BCRC China and other countries in The Asia and Pacific region	300,000	Subject to financial availability	2020-2023
23	Study on the management of solid waste from smelting industry from selected countries	✓			The countries served by BCRC China and other countries in the Asia and Pacific region	100,000	Subject to financial availability	2020-2023
24	Comprehensive Environmentally Sound Management of Waste Metals and POPs Associated with their Recycling in The Asia and Pacific Region	✓	✓		The countries served by BCRC China and other countries in the Asia and Pacific region	2,000,000	Subject to financial availability	2020-2023
25	Inventory of chemicals in electric and electronic products(EEE) and research on related legislation management	✓	✓		The countries served by BCRC China and other countries in the Asia and Pacific region	161,290	Chinese government contribution and other potential funds	2020
26	Flow Analysis on Imported Used Electrical and Electronic Product and its Components in Selected Countries	✓	✓		The countries served by BCRC China and other countries in The Asia and Pacific region	200,000	Subject to financial availability	2020-2023
27	The application and development of hazardous waste and solid waste identification laboratory	✓			The countries served by BCRC China and other countries in The Asia and Pacific region	100,000	Subject to financial availability	2020-2023

	Name of the Project/activity	Convention			Beneficiary Party (ies)	Estimated budget (US$)	Funding source(s)	Time frame (Year)
		BC	SC	RC				
28	Activities 28: Pilot Project of "Zero-Waste City" Construction in Sanya City	✓	✓	✓	China	420,000	Government of Sanya City (Subject to financial availability)	2019-2021
29	Activities 29: Pilot Project of "Zero-Waste City" Construction in Baotou City	✓	✓	✓	China	420,000	Government of Baotou City (Subject to financial availability)	2019-2021
30	Activities 30: Pilot Project of "Zero-Waste City" Construction in Yizhuang District, Beijing City	✓	✓	✓	China	42,000	Government of Beijing Municipality (Subject to financial availability)	2019-2020

Strategies

Strategies	**What will be done**	**By when (timeline)**
Endorsement/involvement/need identification of the beneficiaries (list applicable activities/projects or entire plan)	What will be done to involve/ get end**o**rsement from the beneficiaries? • To select countries and the needs of the served countries through the questionnaire, consultation and literature research. • Design the project proposal according to the identified needs of these countries. • To strengthen communication and discussion through organizing online or face-to- face meeting in regular. • To submit the project summary report, share the outcomes and experiences of the project.	
Identification of potential donors/funds/agencies	What will be done to identify the potential funding sources? BCRC will continue and keep the collaboration and relationship with the multilateral fund bodies, governmental agencies, institutes and companies, which have made cooperation with BCRC China or have collaborative intention with BCRC China in the fields of waste and chemicals, especially e-waste, hazardous waste and POPs, as well as the activities of BCRC China, are the potential donors. BCRC China will try to get funding through international cooperation and support from the following potential donors: • The multilateral or bilateral fund: Basel Convention Trust Fund and Technical Cooperation Trust Fund, GEF, developed countries and so on. • Other International Organizations: UNEP, SAICM QSP, UNITAR, UNIDO, ILO, EU Commission, IGES and so on. • Private sectors.	

	BCRC China will endeavor to undertake resource mobilization activities to support the Basel Convention through implementing the current projects or activities.	
Preparation of grant proposals	(List the area in which project proposals will be prepared and submitted) See Annex I on proposed activities(not limited to)	
Any other activities...		

5. Evaluation Plan

Describe in brief your evaluation plan, how frequently you intend to evaluate and update it. (*Examples are given in the explanatory note located at the end of this template)*

In order to complete the business plan successfully, BCRC China intend to make an evaluation plan for performance Basel Convention in Asia and Pacific region. The evaluation of this plan is as follows:

- To evaluate this business plan every year;
- To collect the feedback during implementation of the activities/projects;
- To summary the progress of projects/activities regularly;
- To invite consultants to review the output of the activities/projects;
- To organize workshop for discuss and update the plan when needed.

According this evaluation plan, BCRC China will update the business plan timely and try to achieve the objectives in the business plan.

Annex I

Proposed Activities

A – Maintenance and Operation of the Centre and Staff Training Activities

Activity 1: Further to establish information platform for the implementation of Basel Convention in the Asia and Pacific region (BCinf)based on the website of BCRC China

Objectives: To promote the regional information exchange and cooperation related to the implementation of Basel Convention among the Parties and countries in Asia-Pacific Region.

Contents: Compile and involve the related information of implementation of Basel Convention of more countries into the platform and make regular updates, including legislations, policies, project activities, and other information related to the implementation of Basel Convention. BCinf will be an eye of regions observing the international world. The column called as International Perspective, definitely will bring the latest news with an international view.

Countries: The countries served by BCRC China and all other countries and stakeholders on Basel Convention

Timeframe: 48 months (from January 2020 to December 2023)

Budget: US$ 80,000 (BCRC China in-kind contribution and Chinese government)

Outputs: The updated information platform for the implementation of Basel Convention in the Asia and Pacific region (BCinf)based on the website of BCRC China.

Activity 2: Strengthening the operation of BCRC China and implementation of its core functions

Objectives: To promote the operation of BCRC China to perform its core functions

Contents: Maintenance of the website of BCRC China to extensively spread the activities and projects outcomes under the Basel Convention; to issue newsletter monthly on the dynamic information on the implementation of Basel Convention and deliver it to the parties in the region and other organizations; to make the consultations on promoting the operational mechanism of BCRC China in accordance with the framework agreement.

Countries: The countries served by BCRC China/SCRCAP and all other countries and stakeholders on Basel Convention

Timeframe: 48 months (from January 2020 to December 2023)

Budget: US$ 40,000(BCRC China in-kind contribution and Chinese government)

Outputs: Updates of BCRC China's website; the newsletter monthly with support of other BCRCs; the improvement of the operational mechanism of BCRC China.

Activity 3: Trainings to the Staff to improve their capacity to work in the Centre to improve

the implementation of Basel Convention at all levels

Objectives: To enhance capacity for staff of BCRC China through various forms of participation to implement the core function of the Centre; to strengthen better involvement of BCRC China in the activities at all levels.

Contents:

- To participate in the national training programmes conducted by the Ministry of Environmental Protection (MEP) of China; To attend the international and regional conferences/trainings relevant to Basel Convention, such as COP-14 of Basel Convention, Asian Network, technical expert groups under Basel Convention etc;
- To attend the international or regional activities/projects/workshops organized by other international institutes/organizations relevant to hazardous waste and other waste;
- To be involved in the meetings/trainings with other regional centres.

Countries: The countries served by BCRC China and other countries in The Asia and Pacific region

Timeframe: 48 months (from January 2020 to December 2023)

Budget: US$ 100,000(some from Chinese government, some from organizers)

Outputs: Summarized reports of participation in the activities or training; Presentations or reports, comments or recommendation for the involved meetings and activities.

B – Activities for the Implementation of the Strategic Framework and the Country-Led Initiative (CLI)

Activity 4: Organizing the Basel forum in Asia-Pacific Region with aims to improve the implementation of BC in Asia-Pacific Region through information sharing and network establishment

Objectives: To strengthen the information sharing on the implementation of Basel Convention especially on hazardous waste and e-waste among the different stakeholders in The Asia and Pacific.

Contents: To hold the 8th, 9th, 10th and 11th face to face meeting of Basel Forum in Asia-Pacific Region and invite more related stakeholders and institutes to attend, in cooperation with Korea Basel Forum (KBF), National Institute for Environmental Studies of Japan(NIES) and other institutes in Asia-Pacific Region. The topic include the information sharing on the decision and progress of the meetings of the Conference of the Parties of Basel Convention(COPs), related national regulations for Basel Convention, waste transboundary movement and environmental sound management and disposal, and to provide support on the management of hazardous waste, e-waste and other wastes at both regional and national levels.

'Basel Forum in Asia-Pacific Region' was initiated by Korea Basel Forum, National Institute for Environmental Studies of Japan and BCRC China in 2013.

Countries: The countries served by BCRC China and other countries in The Asia and Pacific region ***Timeframe:*** 48 months (from January 2020 to December 2023)

Budget: US$ 80,000(BCRC China in-kind contribution, Chinese government and other potential funds)

Outputs: The report of the meeting of Basel Forum in Asia-Pacific Region.

Activity 5: Organization of the Fifteenth, Sixteenth, Seventeenth and Eighteenth International Conferences on Waste Management and Technology ((ICWMT15, ICWMT16, ICWMT17 and ICWMT18)

Objective: To promote the dissemination of effective policies, environmental friendly technologies and management as well as best available practices on hazardous waste and other waste.

Contents: The Conference will provide an important international platform for specialists and officials to discuss scientific problems, exchange practice experiences and seek the innovative solutions. The subjects cover hazardous waste, e-waste, municipal sewage sludge, municipal waste, industrial solid waste, POPs treatment and disposal, contaminated sites, circular economy and city mineral, other solid waste in the fields of Environmentally Sound Management and technology.

Countries: The countries served by BCRC China/SCRCAP and other countries in The Asia and Pacific region

Timeframe: 48 months (from January 2020 to December 2023)

Budget: US$ 280,000(BCRC China in-kind contribution, Chinese government and other potential private sectors)

Outputs: The proceedings for the annual International Conferences; the publication for the selected good papers.

Activity 6: Facilitating the capacity building and legal system of served countries on the national/local legislation or other measures for the implementation of the Basel Convention, and conducting needs analyses.

Objectives: To strengthen the implementation capacity and assist the establishment of legal system on the Basel Convention at national and local level; to enhance the enforcement capacity and level of the responsible officers on waste treatment supervision at national level; to facilitate the environmentally sound management of hazardous and other wastes in developing countries under the Basel Convention.

Contents:

- To provide the internship position in BCRC China for the served countries and other developing countries to facilitate the technical training and information communication;
- To research and assist to develop the suitable laws and procedures related to the implementation of Basel Convention including e-waste management at national/local level;
- To hold the national workshops in each served developing countries to facilitate the integration of waste management issues into the national legislation or other measures in these country;
- To hold the national training meeting on supervision of hazardous and other waste treatment and disposal facilities for the local officers;
- to further investigate the needs of the served countries through the questionnaire, consultation and literature research;
- To develop gaps and needs analyses, particularly specify and quantify the priority needs for capacity-building for different parties in selected countries;
- To make and deliver the manuals and other training materials for public awareness and education for the served countries;
- To deliver the advanced technical guidance on operations of collecting, recycling, re-treating, repairing and dismantling e-waste issued by the Basel Convention and others to the served countries;
- To assist the development of e-waste national inventory in cooperation with the served country.

Countries: The countries served by BCRC China and other countries in The Asia and Pacific region

Timeframe: 48 months (from January 2020 to December 2023)

Budget: US$ 200,000(BCRC China in-kind contribution, Chinese government, industries and other potential in-kind contribution from the participating countries and other organizations)

Outputs: The reports of national workshop in each developing country; the legal system research report; the report on gaps and needs analyses for selected country; the report on the internship position in BCRC China; the education and public awareness manuals in English and 1-2 other languages of served countries.

Activity 7: The Regional and National Online Training platform on Chemicals and Waste

Objective: To improve the regional/national capacity on chemicals and waste management and technology.

Contents:

- To design the framework of the regional training online system to improve the capacity on waste management related to Basel Convention in the region, to draft class program and to make online courses/training modules;
- To further maintain and update the national training online platform on chemicals and waste management and technology.

Countries: The countries served by BCRC China/SCRCAP, and all other countries and stakeholders

Timeframe: 48 months

Budget: US$ 80,000(BCRC China in-kind contribution, Chinese government and other potential financial support)

Outputs: The initial framework on the development of a regional online training system on waste management related to Basel Convention, and 20 online courses in English; the updated national training platform on chemicals and waste management and technology with 100 courses in chemicals and waste management.

Activity 8: Organizing capacity-building activities on preventing and combating illegal traffic at national and regional level

Objectives: To enhance the capacity of preventing and combating illegal traffic in participating countries; to promote the information communication and cooperation of combating illegal traffic among countries and local governments; to promote capacity and cooperation on tack-back shipment of waste when illegal traffic among different departments including environmental departments and Customs; to assist in the formulation of the national/local legislation or other measures to prevent and punish illegal traffic.

Contents:

- To organize regional/national training workshop on preventing and combating illegal traffic of hazardous waste and other waste, including awareness rising on the Ban Amendment, in collaboration with related international organizations and others;
- To make the training materials; to provide technical assistance for the development of national legislation and other measures to prevent and punish illegal traffic;
- To carry out study work to assist the establishment of the take-back procedure and cooperation mechanism at national/regional level.

Countries: The countries served by BCRC China and other countries in The Asia and Pacific region

Timeframe: 48 months (from January 2020 to December 2023)

Budget: US$ 160,000(subject to financial availability)

Outputs: The report on regional/national training workshop; the training materials on

preventing and punishing illegal traffic; the compiled expertise and comments for the assistance of the development of national legislation and other measures to prevent and punish illegal traffic; the research report on establishment of the take-back procedure and cooperation mechanism at national/regional level.

Activities 9: Further Pushing the Establishment and Construction of Platform on Technical Assistance and Technology Transfer of Chemical and Wastes Management and Disposal in Asia-Pacific Region

Objective: To strengthen the information and experiences exchange in chemical and waste management, analysis and disposal; to establish relationship between different countries and enterprises; to promote technical assistance and technology transfer in the Asia and Pacific.

Contents:

- Collect and publish demand and supply information on technology and facility related to chemical and waste management and disposal;
- Organize regional workshop on promotion of technical assistance and technology transfer in the Asia and Pacific on Chemicals and waste;
- Organize study tour/industrial tourism on chemical and waste management and disposing facility for regional countries and enterprises.

Countries: The countries served by BCRC China/SCRCAP, and all other countries and stakeholders on Basel Convention.

Timeframe: 48 months (from January 2020 to December 2023)

Budget: US$ 600,000 (BCRC China in-kind contribution, Chinese government and other potential funds)

Outputs: 2-4 regional workshops on promotion of technical assistance and technology transfer in The Asia and Pacific; 1-3 study tours/industrial tourisms on chemical and waste management and disposing facility for regional countries and enterprises.

Activity 10: Solid waste and hazardous waste management with supports to the implementation of Sino-US Environmental Cooperation programme

Objectives: To learn of the related management experience in the United States, and to promote the sound management of major wastes management in Asia-Pacific Region.

Contents:

- To investigate the management system of waste plastic, waste battery, scraped car, waste tire and metal tailing in the United States;
- To analyze the management experience, such as management policy, responsibility mechanism, recycling mode, export management, and etc. in the United States;
- To propose the management strategies of those major wastes at national level.

Countries: The countries served by BCRC China

Timeframe: 12 months (from January 2020 to December 2020)

Budget: US$20,000 (Chinese governments and other funds support)

Outputs: The reports on the environmentally sound management of major wastes management under Sino-US Environmental Cooperation.

Activity 11: Study on the regional development of chemicals and waste management in Asia-Pacific Region and publishing the regional development report on waste and chemical management in the Asia-Pacific Region – separately related to the Basel Convention, Stockholm Convention, Rotterdam Convention and Minamata Convention every 2-4 year

Objectives:

- To strengthen the objective and fully understanding of the new dynamic and development of the Basel Convention, Stockholm Convention, Rotterdam Convention and Minamata Convention;
- To enhance the understanding of regional management status and development of waste and chemical;
- To promote the environmentally sound management on waste and chemicals in Asia-Pacific Region.

Contents:

- To track and collect the new status and dynamic of the implementation laws/regulations construction and management system, national reporting and the implementation plan, environmentally management and transboundary movement management of waste and chemical related to the implementation of the Basel Convention, Stockholm Convention, Rotterdam Convention and Minamata Convention in the Asia-Pacific Region.
- To organize the regional workshops and national training workshops on waste and chemical management in the Asia-Pacific Region regularly, in combination with the general situation and the international development of the Basel convention, Stockholm convention, Rotterdam convention and Minamata Convention. Through these workshops, to spread the conventions' development, to share regional implementation situation, and to discuss international management trend of waste and chemicals.
- Based on the above activities and information collected, to analyze the updated situation of the development of Basel Convention, Stockholm Convention, Rotterdam Convention and Minamata Convention, to analyze the regional management updates and development of waste and chemical, and then compile the information and publish the regional development report on waste and chemical in the Asia-Pacific Region regularly. The regular publishment of the regional development report on waste and chemical in the Asia-

Pacific Region will promote the fully understanding of the international and regional situation on waste and chemicals by the countries in Asia and Pacific region, enhance the cognition of waste and chemical management status and trend in the Asia-Pacific Region by the international community, and push the Environmentally Sound Management of chemicals and waste in Asia-Pacific Region.

Countries: The countries served by BCRC China/SCRCAP, and all other countries and stakeholders on waste and chemicals

Timeframe: 48 months (January 2020 to December 2023)

Budget:US$150,000(Subject to funds availability)

Outputs:

- The regional development report on waste and chemical management in the Asia-Pacific Region - related to the Basel Convention (per 2 to 4 years);
- The regional development report on waste and chemical management in the Asia-Pacific Region - related to the Stockholm Convention (per 2 to 4 years);
- The regional development report on waste and chemical management in the Asia-Pacific Region - related to the Minamata Convention (per 2 to 4 years).

Activity 12: Comparative study the implementation of Basel Convention and waste management policy system at national level

Objectives: To identify policy blank and problems in the implementation of Basel Convention, and to provide relevant advices on policy making in Basel Convention implementation at national level.

Contents: To select countries and to investigate the updated status on national policy and management system in the implementation of Basel Convention every year, and compile annual review and summary report on national policy in Basel Convention implementation; base on the requirements of the Basel convention and the core issues developments and trends, such as ten years strategic framework plan, the control of transboundary movement, environmentally sound management, etc., to analyze domestic policy framework and specific content in Basel Convention implementation; to identify the gaps of domestic policy in Basel Convention implementation in the areas of Basel Convention principle, system, and new fields and concepts.

Countries: The countries served by BCRC China

Timeframe: 48 months (from 2020 to 2023).

Budget: US$64,000 (Chinese governments, and other potential funds).

Outputs: Annual review and summary report on national policy in Basel Convention implementation, and the general report on the comparative study of the implementation of Basel Convention and solid waste management policy building at national level.

C – Synergies Activities

Activity 13: Coordinating and cooperation with other regional centres and other international/regional/national organizations to enhance the implementation the Basel Convention

Objectives: To enhance the coordination and cooperation among the regional centres and other organizations; to enhance the capacity of providing the support and assistance to implement the Basel Convention for the regional centres.

Contents: Conducting joint activities with the SPREP, BCRC Iran, BCRC Egypt, UNCRD and BCRC CAMon co-organizing workshops/trainings and internships for government officials and other relevant departments; co-applying for or implementing projects on chemicals and waste management; co-organizing a special session during the ICWMT; co-issue information newsletters; other institutes on joint research, co-implementing projects and expert exchange.

Countries: all the countries and stakeholders on waste and chemicals

Timeframe: 48 months (from 2020 to 2023))

Budget: US$ 300,000(subject to financial availability)

Outputs: Joint international newsletter monthly on implementation of Basel Convention; Technical internships in BCRC China for the officers from other regional centres and its member countries; Joint project documents/reports; Joint workshops.

Activity 14: Sound management of HBCD in insulation products and wastes from construction and demolition in typical Asia-Pacific countries

Objectives: to support Asia-Pacific Countries in eliminating HBCD in thermal insulation materials from construction and demolition waste by providing information on approaches that can be implanted to achieve these aims.

Contents:

- Investigate historical and current use of HBCD in different types of insulation products in Asia-Pacific Countries
- Estimation of insulation wastes containing HBCD generation trends in the next 50 years
- Investigate the treatment processes and separation techniques for insulation waste containing HBCD of C&D waste in Asia-Pacific Countries
- Undertake an assessment of existing control schemes for the recycling and disposal of insulation materials containing HBCD in Asia-Pacific Countries and the effectiveness of such schemes.
- Make suggestion on sound management that could be applied for HBCD in insulation materials and wastes in Asia-Pacific Countries.

Countries: Mongolia, Vietnam, China

Timeframe: 12 months

Budget: US$100,000 (Japanese government, SCRCAP/ BCRC China in-kind contribution)

Outputs: Study on the use of HBCD in different types of insulation materials, the generation trends and disposal of insulation materials waste containing HBCD in Asia-Pacific Countries. Feasibility study on resource utilization and sound management of insulation materials waste containing HBCD from C&D；

Activity 15: Organization of the Sixth, Seventh, Eighth，Ninth Regional Forum on Chemical Management

Objectives: To promote information exchange of chemical management, implementation of Stockholm Convention, demands of technical assistance in Asia-Pacific region; to enhance connection and cooperation between BCRC China/SCRCAP and countries served by BCRC China/SCRCAP.

Contents: The regional Forum will invite official, experts, entrepreneurs from countries served by BCRC China/SCRCAP to discuss the work plan of SCRAP, exchange information on challenges and experiences of chemical management and implementation of Stockholm Convention, as well as technology demands and supply resources.

Countries: The Countries served by SCRCAP / BCRC China

Timeframe: 48 months (from 2020 - 2023)

Budget: US$200,000 (BCRC in kind contribution, and other potential fund, such as funds from industrial sectors)

Outputs: A SCRCAP work plan adopted in the regional forum； A report including minutes of the forum, participants list, information regarding to chemical management and implementation of Stockholm Convention, etc.

Activity 16: Capacity building and information exchange for the implementation of Stockholm Convention and chemical management, especially POPs management

Objectives: To provide latest dynamic information on SC implementation progress and chemical management for the parties of SC, especially parties in Asia-Pacific Regions; to strengthen the capacity of parties in Asia-Pacific to better implement the Stockholm Convention (SC); to share SC implementation experience of China with other parties; to improve people's awareness on SC and environmentally sound management of chemicals.

Contents:

- To collecting latest information on chemical (especially hazardous chemicals) related policies, research progress, pilot projects, BAT/BEP experience, etc. through daily tracking and screening on the official website of environmental protection agencies in different countries, credible publications and other related websites or databases;

- To compile monthly SC implementation newsletter to deliver to all the parties of SC for reference, and semi-monthly SC dynamic briefing to deliver to the relevant Chinese government agency for reference;
- To compile yearly publicity materials including brochures, videos and posters to share the experiences and lessons of chemical management and SC implementation in China.

Countries: The countries served by SCRCAP / BCRC China

Timeframe: 12 months (from January 2020 to December 2020)

Budget: US$241,935 (Chinese government contribution, BCRC China/SCRCAP in-kind contribution)

Outputs: 60 monthly newsletters; 105 semi-monthly SC dynamic briefing (In Chinese); 5 publicity brochures; 5 publicity videos; 5 publicity posters.

Activity 17: Investigation on management status and tendency analysis of the newly listed persistent organic pollutants in Asia-Pacific regions

Objectives: To analyze the challenges that countries in Asia-Pacific regions face to meet the management requirements of the newly listed POPs under SC; to strengthen capacity for countries in Asia-Pacific regions on POPs management.

Contents:

- To Investigate the current status of the legislation, production, usage, import and export, and substitution of newly listed POPs including polychlorinated Naphthalenes (PCNs), hexachlorobutadiene (HCBD) and pentachlorophenol (PCP) and its salts and esters in typical Asia-Pacific Countries;
- To track the dynamic news of policies, pilot projects, latest researches of newly listed POPs in Asia-Pacific countries;
- To analyze the challenges for countries in Asia-Pacific regions to meet the management requirements on the newly listed POPs under SC, and proposing available solutions.

Countries: The countries served by SCRCAP / BCRC China

Timeframe: 12 months (from January 2020 to December 2020)

Budget: US$403,226 (Chinese government, BCRC China/SCRCAP in-kind contribution and other potential funds)

Outputs: Research report on management legislation of newly listed POPs in typical Asia-Pacific countries；Research report on production and usage status of newly listed POPs in typical Asia-Pacific countries；Research report on import and export status of newly listed POPs in typical Asia-Pacific countries；Research report on substitution information and progress of newly listed POPs in typical Asia-Pacific countries；Tendency analysis on newly listed POPs management in typical Asia-pacific countries

Activity 18: Information follow-up and trends analysis on the global chemical management

Objectives: To disseminate the up-to-date progress and effective experience of chemical management in the global level; to deliver global chemical management trends report based on analysis; to propose strategy on chemicals management for countries.

Contents:

- To track up-to-date news and dynamics of chemical management in typical regions and countries, screening out key experience/progress and pressing issues to compile yearly research report of chemical management development, and deliver the report to the competent authority on chemical management for reference;
- To analyze the development tendency of global chemical management based on five-year information follow-up and tendency analysis, proposing short-term and long-term advices for chemical management.

Countries: The countries served by SCRCAP / BCRC China

Timeframe: 12 months (from January 2020 to December 2020)

Budget: US$ 80,645 (Chinese government, and other potential funds)

Outputs: Yearly research report of chemical management development in the global level; Report on global chemical management development and tendency analysis, including advices proposed for chemical management

Activity19: Organizing Waste and Chemicals training for national and local enforcement officials in The Asia and Pacific region with aims to promotion of the implementation of the Basel Convention, Stockholm Convention, Rotterdam Convention and Minamata Convention

Objectives: To improve the Local Environmental Protection Bureau (EPB) authority's waste management capability in Asia-Pacific. To promote the law enforcement level in regional countries to the implementation of the Basel Convention, Stockholm Convention, Rotterdam Convention and Minamata Convention

Contents: Developing training for professional wastes and chemicals management. To use the industry, adopting world class environmental waste treatment techniques, as the main training platform. The training will be targeting the environmental protection bureaus at local levels and other relative governmental departments. This training will be organized maximum twice a year and last one week per time. The objective is to provide the officials with a good understanding of professional hazardous waste management and to share best practices in this industry.

Combined with the report, discussing and scene teaching, through learning the courses of laboratory analysis, collection and transportation, storage, treatment and disposal, and safety Supervision, to promote the on-site supervision capacity and knowledge on waste and chemicals

Countries: The countries served by BCRC China/SCRCAP, and other countries and industry

Timeframe:48 months (from January 2020 to December 2023)

Budget:US$200,000 (subject to financial availability)

Output: maximum twice training a year, and training materials.

D – Other Capacity Building and Related Activities

Activity 20: Study on the recycling of electric vehicle batteries in selected countries in the Asia and Pacific region

Objectives: Investigate the management situation of EV battery in selected countries, including the legislation, generation amount, collection mode, treatment technology, and provide the suggestion for the management of EV battery.

Contents:

- Research on legislations on EV battery in selected countries;
- Study on collection modes and treatment technologies on EV battery
- Provide management recommendations on EV batteries.

Countries: countries served by BCRC China and other countries and industry

Timeframe: 48 months (from January 2020 to December 2023)

Budget: US$ 100,000 (subject to financial availability)

Outputs: A series of research reports.

Activity 21: Organization of regional capacity building activities on the environmentally sound management for major wastes streams including ULAB, mercury waste, asbestos waste, CRT waste and e-waste

Objectives: To enhance capacity and awareness of the environmentally sound management of major wastes streams; To promote the transition and implementation of the technical guidelines on the environmentally sound management of major wastes streams adopted by Basel Convention at national and regional levels.

Contents:

- To organize regional training workshops on environmentally sound management of ULAB, mercury waste, PCB and asbestos waste. The regional management strategy on environmentally sound management of these wastes also will be discussed through the workshops；
- To identify vulnerable countries and develop pilot activities to test the technical guidelines on environmentally sound management of ULAB, mercury waste and PCB, and guidance document on environmentally sound management of asbestos waste, in cooperation with

relevant environmental authorities and assist in the formulation of the technical guidelines suitable to selected countries；

- To carry out the jointly research and activities on ESM of CRT glass with Pb and ULAB at regional or more broad level in accordance with the other related organizations；
- To translate the related guidance documents and guidelines into 1-2 official languages and disseminate them among selected countries through regional training workshop and pilot activities.

Countries: The countries served by BCRC China and other countries in the Asia and Pacific region

Timeframe: 48 months (from January 2020 to December 2023)

Budget: US$ 280,000(subject to financial availability)

Outputs: Training materials and translated guidance documents and guidelines; Report on the regional training workshop; Report on pilot activities to test the technical guidelines and guidance document; Report on the jointly research and activities on ESM of CRT glass with Pb and ULAB.

Activity 22: Promote the Work of partnership for Recycling and Disposal of Waste Electric Vehicle Batteries

Objectives: Promote the work of partnership for Recycling and Disposal of Waste Electric Vehicle Batteries, and improve the capacity to recycle waste EV batteries in the regional and international level

Contents:

- Research on management situation of Waste Electric Vehicle Batteries;
- Research on environmentally sound treatment technology for Waste Electric Vehicle Batteries;
- R&D on recycling technology for Waste Electric Vehicle Batteries;

Countries: countries served by BCRC China

Timeframe: 48 months (from January 2020 to December 2023)

Budget: US$ 300,000 (subject to financial availability)

Outputs: A series of research reports, demonstration project in 1 city

Activity 23: Study on the management of solid waste from smelting industry from selected countries

Objectives: Explore the management situation of slags, tailings, ashes, and etc, from smelting industry from selected countries, and provides solutions for the ESM of these solid wastes.

Contents:

- Research on management legislation of slags, tailings, ashes, and etc, from smelting industry
- Research on treatment situation for slags, tailings, ashes, and etc, from smelting industry, including but not limited to treatment plants, treatment amount, technologies
- Hold regional meeting on management of solid waste from smelting industry

Countries: countries served by BCRC China

Timeframe: 48 months (from January 2020 to December 2023)

Budget: US$ 100,000 (subject to financial availability)

Outputs: 1 research report, 1 region meeting report

Activities 24: Comprehensive Environmentally Sound Management of Waste Metals and POPs Associated with their Recycling in the Asia and Pacific Region

Objective: To improve resource utilization efficiency in The Asia and Pacific Region to protect the ecological environment and human health. To promote the development of formal metal recycling industry. To initiate and set up public propaganda and education demonstration bases for metal recycling. To cultivate high level talents of management and technique on metal recycling.

Contents:

- To establish regional metal resources recycling forum for information sharing;
- To set up 3R information centre for typical metal;
- To develop resource recycling demonstration projects for promoting technology progress;
- To select enterprise as comprehensive propaganda and education demonstration base for forming a social environment to supporting advanced metal recycling;
- To build resource recycling technology transfer platform
- To set up resource recycling awards.
- To establish high-level talents network on metal recycling and resource management
- To set up internet things big data demonstration system for typical metal-containing products

Objective: To promote the management of metal recycling and resource efficient in The Asia and Pacific region; to eliminate POPs and heavy metals associated with metal recycling.

The contents:

- Cultivate high level talents of management and technique on metal recycling; Investigate the management and industry status, as well as technology needs of metal recycling of participating countries;

- Establish platform on technical assistance and technology transfer for promoting metal recycling and resource efficient; Develop pilot project for metal recycling;
- Explore metal recycling mode of Asian developing countries.

Countries: The countries served by BCRC China and other countries in The Asia and Pacific region

Timeframe: 48 months (from January 2020 to December 2023)

Budget: US$ 2,000,000 (Subject to financial availability)

Outputs: 1 regional workshops on metal recycling; 1 investigation report on management and industry status, as well as technology needs of metal recycling of participating countries; 1 platform on technical assistance and technology transfer for promoting metal recycling and resource efficient; 1 demonstrations on metal recycling conducted in 1 city; National regulatory action plan on metal recycling of each participating country.

Activity 25: Inventory of chemicals in electric and electronic products (EEE) and research on related legislation management

Objectives: To promote legal and systematic management of restricted chemicals in EEE products; to raise people's awareness on restricted chemicals in products; to reduce the risk of human exposure to chemical in products; to strengthen the capacity building of SCRCAP.

Contents:

- To compile inventory of chemicals in EEE products, Including the types, distribution and concentration of chemicals especially toxic or restricted substances in EEE products, such as flame retardants, plasticizers, etc.;
- To investigate the management of toxic or restricted chemicals regarding to legislation, pilot projects, substitution progress, etc. in developing countries and in China, proposing management advices for management of chemicals in EEE product.

Countries: The countries served by BCRC China and other countries in The Asia and Pacific region

Timeframe: 12 months (from January 2020 to December 2020).

Budget: US$161,290 (Chinese government contribution and other potential funds).

Outputs: Inventory of chemicals in EEE products; Analysis report of toxic and restricted chemicals management and development tendency in EEE products.

Activities 26: Flow Analysis on Imported Used Electrical and Electronic Product and its Components in Selected Countries

Objective: The transboundary movement of Used Electrical and Electronic Equipment (UEEE) has the characteristics of complex channels, scattered information, monitoring barriers and long-term existence, etc. This project aims to specifically collect the information of the

transboundary movement of UEEE in selected countries and thereafter conduct comprehensive analysis. Based on the gained information, the project will potentially provide precious suggestions for the environmentally sound management of UEEE and sustainable development.

Content: Choose 2-3 countries allowing the import of UEEE or receiving large quantity of UEEE currently. With the research methods of literature review, expert interview and other field research approaches, research on the legislation, management mechanisms and implementation status of importing UEEE and its accessories for the aims of recovery, fix and refurbishment. Based on the related trade data of recent five years, research on the quantities, types, sources and afterward flow of importing UEEE and its accessories for the aims of recovery, fix and refurbishment, etc. Choose 3-5 typical companies and conduct case study on the condition of pollution prevention during the process of refurbishment and repairing, and also analyze the quantities, types, sources and afterward flow of importing UEEE and its accessories. Based on related requirements and decisions of Basel Convention, comparatively analyze the various conditions of different countries, and thus research and discuss on the suitable definition of UEEE and its accessories according to the national conditions of these countries, with an aim to improve related management and practices. Comparatively analyze the various conditions of different countries, and thus research and discuss on the suitable standard of UEEE and its accessories according to the national conditions of these countries. Compile and analyze the transboundary movement of UEEE, and draft suggestions for selected countries in the field of enhancing the environmentally sound management of UEEE and sustainable development. Conduct regional workshop, with an aim to exchange information, share research findings, and explore the needs and proposed activities for promoting the environmentally sound management of UEEE and regional sustainable development.

Countries: The countries served by BCRC China and other countries in The Asia and Pacific region

Budget:US$200,000 (subject to financial availability).

Outcome: Research Report on the Material Flow Analysis on Imported UEEE and its Accessories in Selected Countries (One piece).

Activities 27: The application and development of hazardous waste and solid waste identification laboratory

Objectives: To improve the regional/national capacity on hazardous waste identification, and play the role of technical support on environmental justice and management.

Contents: Study of hazardous waste identification system, the method of identification and technology at home and abroad; national hazardous waste identification regulations system;

capacity-building activities on hazardous waste identification, such as to conduct research on legal definition of waste and hazardous waste identification case/practice, to establish hazardous waste and solid waste identification laboratory.

Countries: The countries served by BCRC China and other countries in The Asia and Pacific region

Timeframe: 48 months (from 2020 to 2023)

Budget: US$ 100,000 (subject to financial availability)

Outputs: Study report on hazardous waste identification, and other capacity-building activities on hazardous waste identification.

Activities 28: Pilot Project of "Zero-Waste City" Construction in Sanya City

Objectives: It is of great practical significance to carry out the pilot project of Zero-Waste City construction for solving the outstanding environmental problems in the economic and social development, strengthening the disposal of solid waste and garbage, and speeding up the formation of green development and lifestyle.

Contents: To formulate implementation plans, support pilot construction and carry out evaluation and summary.

Countries: The countries served by BCRC China and other countries in The Asia and Pacific region

Timeframe: 18 months (from 2019 to 2020)

Budget: US$ 420,000 (subject to financial availability)

Outputs: The pilot implementation plan of Zero-Waste City construction in Sanya City;

Pilot progress and achievement materials of Zero-Waste City construction in Sanya;

Final Assessment Report on the Pilot Project of Zero-Waste City Construction in Sanya City.

Activities 29: Pilot Project of "Zero-Waste City" Construction in Baotou City

Objectives: It is of great practical significance to carry out the pilot project of Zero-Waste City construction for solving the outstanding environmental problems in the economic and social development, strengthening the disposal of solid waste and garbage, and speeding up the formation of green development and lifestyle.

Contents: To formulate implementation plans, support pilot construction and carry out evaluation and summary.

Countries: The countries served by BCRC China and other countries in The Asia and Pacific region

Timeframe: 24 months (from 2019 to 2020)

Budget: US$ 420,000 (subject to financial availability)

Outputs: The pilot implementation plan of Zero-Waste City construction in Baotou City;

Pilot progress and achievement materials of Zero-Waste City construction in Baotou ;

Final Assessment Report on the Pilot Project of Zero-Waste City Construction in Baotou City.

Activities 30: Pilot Project of "Zero-Waste City" Construction in Yizhuang District, Beijing City

Objectives: It is of great practical significance to carry out the pilot project of Zero-Waste City construction for solving the outstanding environmental problems in the economic and social development, strengthening the disposal of solid waste and garbage, and speeding up the formation of green development and lifestyle.

Contents: To formulate implementation plans, support pilot construction and carry out evaluation and summary.

Countries: The countries served by BCRC China and other countries in The Asia and Pacific region

Timeframe: 6 months (April to October 2019)

Budget: US$ 42,000 (subject to financial availability)

Outputs: The pilot implementation plan of Zero-Waste City construction in Yizhuang District, Beijing City;

Pilot progress and achievement materials of Zero-Waste City construction in Yizhuang District, Beijing;

Final Assessment Report on the Pilot Project of Zero-Waste City Construction in Yizhuang District, Beijing City.

Annex II

List of the countries served by BCRC China

1. CAMBODIA

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2. CHINA

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3. DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA

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National Coordinating Committee for Environment
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Phone: (850 2) 181 11 ext 3818370
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4. LAO PEOPLE'S DEMOCRATIC REPUBLIC

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Lao National Mekong Commitee Secretariat LMCS
Ministry of Natural Resources and Environment
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5. REPUBLIC OF KOREA

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6. MONGOLIA

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7. SRI LANKA

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