

TERMS OF REFERENCE

National plan and data gathering in Ecuador with a vision of circular economy and GHG mitigation (EC-T1441)

Ecuador

EC-T1441

Improving solid waste management for climate mitigation and inclusive circular economy in Ecuador with Korean collaboration

1. Background and Justification

- 1.1. Established in 1959, the Inter-American Development Bank (“IDB” or “Bank”) is the main source of financing for economic, social, and institutional development in Latin America and the Caribbean. It provides loans, grants, guarantees, policy advice and technical assistance to the public and private sectors of its borrowing countries.

- 1.2. Ecuador is a Latin American country with over 17.7 million inhabitants and a GDP per person per year of USD 5.809. The GDP of Ecuador is lower than the average in Latin America (USD 7.922 per person per year). However, in 2021, Ecuadorians on average 344 kilograms of municipal solid waste per person per year, which is higher than the average in Brazil, Perú, Colombia, and Bolivia. In 2021, Ecuador collected 80.9% of the municipal solid waste produced in the country, which is slightly lower than the average in the region of Latin America and the Caribbean (LAC) (84.7%), and 26.1% were liberated to the environment (not collected plus disposed inadequately), indicating a need in the country to expand coverage of the waste management services. Nevertheless, the percentage of solid waste taken to sanitary landfills is higher than the average in the region (73% for Ecuador vs. 46% in LAC).

- 1.3. However, the transition to a circular economy and mitigation of methane are current challenges in Ecuador. According to the solid waste and circular economy data hub administered by the IDB, only 0.7% of solid waste was valorized by composting or recycling. The former, compared to LAC, which has a rate of 4.39%, reflects how the country needs to act towards circularity.

- 1.4. Therefore, solutions must be implemented throughout the waste management chain. Leading solutions include preventing waste generation, promoting segregated collection, transport, and treatment, closing open dumpsites, and minimizing the release of solid waste to the environment. These solutions are holistic, as they include adequate waste management and a circular economy framework. Also requiring the updating of information and policies to measure the achievements. Furthermore, seeking innovative technologies and schemes can reduce problems and increase efficiency.

- 1.5. The IDB's current portfolio evidences an increasing interest among the countries of the region to improve waste management in their respective countries, for example the loans recently approved in 2022 (US\$247 million including co-financers) match the whole former portfolio (US\$209 million). However, in the region there is still a financial

gap of US\$4.250 million per year in average to close dumpsites, stop other inadequate disposal practices, increase collection coverage, increase recovery to 30% (as per the SDG goals) by 2030 and ensure the proper disposal of waste that cannot be utilized. Around 20% of these resources (US\$ 850 million per year) must be invested in infrastructure, and the remaining 80% (US\$3.400 million per year) is needed to cover operational costs to sustain the initiatives in the long term. As such, having feasible projects with sustainability is key¹. As such, Ecuador approved in 2023 the loan operation EC-L1283 for water and sanitation.

1. **Objective**

Elaborate the National Plan for the Integral Management of Ecuador including the circular economy and GHG emissions mitigation. The consultancy will focus on the decentralized governments and in the technical and financial sustainability of the scheme.

2. **Scope of Services**

2.1 The scope of consulting services will be to elaborate the National Plan.

2.2 The scope of consulting services will be to gather and design the data for waste management scheme.

3. **Key activities**

3.1. Propose the Work Plan (including schedule of activities, methodology, products and proposed dates for deliverables and workshops) and a proposed outline (annotated table of contents) for the formulation of the National Plan and data system.

3.2. To prepare the Plan containing the proposal of programs, actions, and projects to advance towards the transformation to a circular economy and climate action within the framework of solid waste management. All the policies designed must consider the inclusion of women and men recyclers, at the grassroots level within productive systems of comprehensive solid waste management at the local government level. Building upon current policies and legal frameworks and focusing on municipal governments.

3.3. Gather data and the indicators required for waste Management and the needs for the plan and its monitoring and execution. The construction of the information must follow a collaborative and participatory approach, which means that the firm must hold work sessions with the different stakeholders to identify priorities, lines of action, and the different elements that should be incorporated into the strategy. Indicators to be developed include employment, inclusive recycling, gender, and diversity.

4. **Results and deliverables**

4.1. Work plan and table of contents of the plan.

4.2. Progress report of synthesis and complement - initial part of the Plan together with an outcome report of the main conclusions and recommendations of the workshops held

¹ <https://publications.iadb.org/es/sostenibilidad-financiera-de-la-gestion-de-residuos-solidos-en-america-latina-y-el-caribe>

during the period, including a list of attendees.

- 4.3. Full Plan and an outcome report of the main conclusions and recommendations of the workshops held during the period, including list of attendees.
- 4.4. Data gathered and indicators designed and validated.
- 4.5. Final version of the products.

All deliveries must be accompanied by a summary presentation.

5. Calendar of deliverables

- 5.1. The term established for the execution of the consultancy is 8 months from the signature of the contract. The deliverables will be the following:

<u>Deliverable #</u>	<u>Percentage</u>	<u>Estimated timeline</u>
Product I: workplan and outline of the Plan.	15%	15 after starting
Product II: First advance of the plan	15%	Month 3
Product III: Final plan proposal	20%	Month 6
Product IV: Data gathered and indicators designed	25%	Month 8
Product V Final: Final version of documents	25%	Month 10, before closing the contract.

6. Reporting Requirements

- 6.1. The consulting firm should follow the above-mentioned project scope, activities, schedule, and milestones in a timely manner. Every deliverable including plans, reports, and proposals should be written in English and Spanish.

7. Acceptance Criteria

- 7.1. The team leader of the Technical Cooperation (TC) team will decide whether the deliverables are acceptable or not. Internal meetings will be held within the TC team to decide and to figure out if the deliverables meet the requirements of this consultancy. If the deliverables do not comply with the requirements, the consulting firm will be obliged to revise and supplement the deliverables.

8. Other Requirements

- 8.1. The consulting firm should demonstrate the capacity to form a team with the following characteristics:
 - Expertise in technical, economic, environmental, social, and political analysis to carry out a feasibility study.

- Extensive experience providing high-level advice to national governments.
- Work or research experiences in Latin America and the Caribbean region.
- Work experiences with multilateral development organizations.
- Ability to hire personnel with fluency in English, Spanish.
- High expertise in climate change, methane mitigation, and pilot projects.
- Specific expertise in the beneficiary countries, with local consultants.
- At least one local expert from the beneficiary countries must be included in the key work team.
- The consulting firm must be from one of the 48 IDB member countries.

9. Supervision and Reporting

- 9.1.** After the consulting firm submits the work plan, the IDB and consulting firm will have meetings at least once a month on a regular basis. Every TC team member can give comments on the deliverables to secure the quality of deliverables.

10. Payment

- Payment terms will be based on project milestones or deliverables. The Bank does not expect to make advance payments under consulting contracts unless a significant amount of travel is required. The Bank desires to receive the most competitive cost proposal for the services described herein.
- The IDB Official Exchange Rate indicated in the PDS will be applied for necessary conversions of payments in local currency.

Terms of Reference

Consultant for the study of challenges and opportunities for waste management in Galapagos, Ecuador EC-T1441.

Context:

Founded in 1959, the Inter-American Development Bank ("IDB" or "Bank") is the leading source of financing for economic, social, and institutional development in Latin America and the Caribbean. It provides loans, grants, guarantees, policy advice and technical assistance to the public and private sectors of its borrowing countries.

To date, the IDB has a broad portfolio of projects including operations under preparation and execution, technical cooperation, and non-financial dissemination products in preparation for publication, as well as a wide range of activities at both the regional and international levels, aimed at establishing the IDB as one of the main participants in the sector.

The objective of this technical cooperation (TC) EC-T1441 is to support the improvement of solid waste management for climate mitigation and the inclusive circular economy in Ecuador through the execution of the following activities in the city of Cuenca, on the island of Galapagos, and at the national level: Leveraging South Korean experience in integrated planning in sustainable waste management, technologies, and information. This TC is to be executed in relation to a loan project (EC-L1283) approved in 2023 for the water and sanitation sector in Ecuador.

Due to the scope that the TC has, there is a need for support in the coordination and fulfilment of the consultancy's products goals and general execution of the TC. In that sense, the **objective of** this consultancy is to support the development of a study of challenges and opportunities for waste management in Galapagos as part of the TC EC-T1441 Improving solid waste management for climate mitigation and inclusive circular economy in Ecuador with Korean collaboration.

The team:

The INE/WSA Division of the IDB seeks to ensure universal and sustainable access to high quality water, sanitation and solid waste management services to contribute to the sustainable economic growth of our member countries in Latin America and the Caribbean and a better quality of life for their citizens; in that sense, this consultancy will allow us to know, validate and refine the information that describes the state of solid waste management in IDB borrowing countries.

What you will do:

In accordance with the schedule, product goals and the guidelines given by the IDB, carry out the following activities in order to achieve the objective of supporting the development of a study of challenges and opportunities for waste management in Galapagos as part of the TC EC-T1441 Improving solid waste management for climate mitigation and inclusive circular economy in Ecuador with Korean collaboration.

HRD Terms of Reference, New Format 2018
For consulting in PEC mode

- 1) Gather data about relevant Galapagos context related to waste management.
- 2) Propose a challenges chapter on Galapagos waste management.
- 3) Analyse the alternative opportunities for waste management in Galapagos.
- 4) Maintain and update communication channels with the relevant national authorities in the Galapagos.
- 5) Prepare presentations, agenda, blogs, and reports related to the objective of the consultancy.
- 6) Accompany and present the results in spaces determined by the Bank.
- 7) Support in the elaboration of terms of reference required for next steps of Galapagos waste management.
- 8) Keep an updated repository of the material gathered.

Deliverables and Payment Schedule:

Payments will be made in 3 instalments as the table specifies, upon delivery of satisfactory of the products.

<u>Product #</u>	<u>Percentage</u>	<u>Estimated timeline</u>
Product I: workplan and plan	20%	15 days after contract initiates
Product I: advance of revision and challenges	40%	Month 3
Product II: opportunities and final document	40%	Month 6

What you will need:

- **Citizenship:** You are a citizen of one of [our 48 member countries](#).
- **Consanguinity:** You have no relatives (up to the fourth degree of consanguinity and second degree of affinity, including spouse) working in the BID Group.
- **Education:** Engineering, Civil, Environmental, Industrial, Sanitary, Economics, Management and/or similar. Graduate studies in solid waste management, data analysis, research methodologies, public policy, project management or similar is a plus.
- **Experience:** Minimum 5 years of general experience in the field. Experience and proven capacity in solid waste management, stakeholder articulation, research methodologies, project management, climate change, climate change financing, public policy and governance, facilitation of multi-sectoral dialogue processes, conflict resolution and governance in complex issues such as environment and/or natural resources. As well as project management and execution, experience with budgets, outcomes, and products.
- **Languages:** Spanish and English.

Summary of the opportunity:

HRD Terms of Reference, New Format 2018
For consulting in PEC mode

- **Type of contract and form:** PEC - Contractual for External Products and Services, Lump Sum
- **Duration of contract:** 6 months, 25 effective working days
- **Start date:** May 2024
- **Location:** Ecuador.
- **Responsible person:** The supervision of the work will be carried out by Sr Senior Specialist of Water and Sanitation Division leader of the technical cooperation.
- **Requirements:** You must be a citizen of one of the [48 IDB member countries](#) and not have family members currently working in the IDB Group.

Our culture: Our people are committed and passionate about improving the lives of people in Latin America and the Caribbean and are able to do what they love in a diverse, collaborative and stimulating work environment. We are the first development institution in Latin America and the Caribbean to receive EDGE certification, recognizing our strong commitment to gender equality. Our employees can be part of internal resource groups that connect our diverse community around common interests.

We are committed to providing equal employment opportunities and therefore encourage women, LGBTQ+, people with disabilities, people of African descent and indigenous peoples to apply.

About us: At the Inter-American Development Bank, we are dedicated to improving lives. Since 1959, we have been a major source of long-term financing for economic, social and institutional development in Latin America and the Caribbean. But we do more than lend. We partner with our 48 member countries to provide Latin America and the Caribbean with cutting-edge research on relevant development issues, policy advice to inform their decisions, and technical assistance to improve project planning and implementation. To do this, we need people who not only have the right skills, but who are also passionate about improving lives.

Our Human Resources team carefully reviews all applications.

Terms of Reference

Consultant to support the execution of the technical cooperation EC-T1441.

Context:

Founded in 1959, the Inter-American Development Bank ("IDB" or "Bank") is the leading source of financing for economic, social, and institutional development in Latin America and the Caribbean. It provides loans, grants, guarantees, policy advice and technical assistance to the public and private sectors of its borrowing countries.

To date, the IDB has a broad portfolio of projects including operations under preparation and execution, technical cooperation, and non-financial dissemination products in preparation for publication, as well as a wide range of activities at both the regional and international levels, aimed at establishing the IDB as one of the main participants in the sector.

The objective of this technical cooperation (TC) EC-T1441 is to support the improvement of solid waste management for climate mitigation and the inclusive circular economy in Ecuador through the execution of the following activities in the city of Cuenca, on the island of Galapagos, and at the national level: Leveraging South Korean experience in integrated planning in sustainable waste management, technologies, and information. This TC is to be executed in relation to a loan project (EC-L1283) approved in 2023 for the water and sanitation sector in Ecuador.

Due to the scope that the TC has, there is a need for support in the coordination and fulfilment of the consultancy's products goals and general execution of the TC. In that sense, the **objective of** this consultancy is to support the development and implementation of the TC EC-T1441 Improving solid waste management for climate mitigation and inclusive circular economy in Ecuador with Korean collaboration.

The team:

The INE/WSA Division of the IDB seeks to ensure universal and sustainable access to high quality water, sanitation and solid waste management services to contribute to the sustainable economic growth of our member countries in Latin America and the Caribbean and a better quality of life for their citizens; in that sense, this consultancy will allow us to know, validate and refine the information that describes the state of solid waste management in IDB borrowing countries.

What you will do:

In accordance with the schedule, product goals and the guidelines given by the IDB, carry out the following activities in order to achieve the objective of supporting the development and implementation of the TC EC-T1441 Improving solid waste management for climate mitigation and inclusive circular economy in Ecuador with Korean collaboration:

- 1) Coordinate the schedules, dates, meetings, and equipment required for the activities to be developed in the TC in the timeframe expected by the Bank.
- 2) Propose, correct, and adjust products of the TC for revision and publication according to the Bank's guidelines.

- 3) Support and coordinate the participation of the IDB in the webinars and workshops of knowledge exchange and dissemination events in the light of the TC.
- 4) Maintain and update communication channels with the relevant national authorities in the beneficiary country and donors.
- 5) Prepare presentations, agenda, blogs and reports on the TC and relevant TC issues, including follow-ups.
- 6) Accompany and present the results in spaces determined by the Bank.
- 7) Support in the elaboration of terms of reference required for the TC.
- 8) Support and supervise the feasibility and studies consultancies.
- 9) Develop planning exercises for the technical and financial success of the TC, including the completion of outcomes and goals, procurement plan, amongst others.
- 10) Keep an updated repository of the TC and material related.

Deliverables and Payment Schedule:

Payments will be made in 6 instalments proportionally equal of the contract value, upon delivery of satisfactory periodically reports containing the results.

Product #	Percentage	Estimated timeline
Product I: workplan and plan for the TC.	20%	15 days after contract initiates
Product II: advance of revision and supervision of the TC.	20%	Month 3
Product III: advance of revision and supervision of the TC.	20%	Month 6
Product IV: advance of revision and supervision of the TC.	20%	Month 9
Product V Final: final revision and supervision of the TC.	20%	Month 12

What you will need:

- **Citizenship:** You are a citizen of one of [our 48 member countries](#).
- **Consanguinity:** You have no relatives (up to the fourth degree of consanguinity and second degree of affinity, including spouse) working in the BID Group.
- **Education:** Engineering, Civil, Environmental, Industrial, Sanitary, Economics, Management and/or similar. Graduate studies in solid waste management, data analysis, research methodologies, public policy, project management or similar is a plus.
- **Experience:** Minimum 5 years of general experience in the field. Experience and proven capacity in solid waste management, stakeholder articulation, research methodologies, project management, climate change, climate change financing, public policy and governance, facilitation of multi-sectoral dialogue processes, conflict resolution and

governance in complex issues such as environment and/or natural resources. As well as project management and execution, experience with budgets, outcomes, and products.

- **Languages:** Spanish and English.

Summary of the opportunity:

- **Type of contract and form:** PEC - Contractual for External Products and Services, Lump Sum
- **Duration of contract:** 12 months, 80 effective working days
- **Start date:** May 2024
- **Location:** Ecuador.
- **Responsible person:** The supervision of the work will be carried out by Sr Senior Specialist of Water and Sanitation Division leader of the technical cooperation.
- **Requirements:** You must be a citizen of one of the [48 IDB member countries](#) and not have family members currently working in the IDB Group.

Our culture: Our people are committed and passionate about improving the lives of people in Latin America and the Caribbean and are able to do what they love in a diverse, collaborative and stimulating work environment. We are the first development institution in Latin America and the Caribbean to receive EDGE certification, recognizing our strong commitment to gender equality. Our employees can be part of internal resource groups that connect our diverse community around common interests.

We are committed to providing equal employment opportunities and therefore encourage women, LGBTQ+, people with disabilities, people of African descent and indigenous peoples to apply.

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Our Human Resources team carefully reviews all applications.

TERMS OF REFERENCE

Feasibility studies for waste management in Ecuador with a vision of circular economy and GHG mitigation (EC-T1441)

Ecuador

EC-T1441

Improving solid waste management for climate mitigation and inclusive circular economy in Ecuador with Korean collaboration

1. **Background and Justification**

- 1.1. Established in 1959, the Inter-American Development Bank (“IDB” or “Bank”) is the main source of financing for economic, social, and institutional development in Latin America and the Caribbean. It provides loans, grants, guarantees, policy advice and technical assistance to the public and private sectors of its borrowing countries.
- 1.2. Ecuador is a Latin American country with over 17.7 million inhabitants and a GDP per person per year of USD 5.809. The GDP of Ecuador is lower than the average in Latin America (USD 7.922 per person per year). However, in 2021, Ecuadorians on average 344 kilograms of municipal solid waste per person per year, which is higher than the average in Brazil, Perú, Colombia, and Bolivia. In 2021, Ecuador collected 80.9% of the municipal solid waste produced in the country, which is slightly lower than the average in the region of Latin America and the Caribbean (LAC) (84.7%), and 26.1% were liberated to the environment (not collected plus disposed inadequately), indicating a need in the country to expand coverage of the waste management services. Nevertheless, the percentage of solid waste taken to sanitary landfills is higher than the average in the region (73% for Ecuador vs. 46% in LAC).
- 1.3. However, the transition to a circular economy and mitigation of methane are current challenges in Ecuador. According to the solid waste and circular economy data hub administered by the IDB, only 0.7% of solid waste was valorized by composting or recycling. The former, compared to LAC, which has a rate of 4.39%, reflects how the country needs to act towards circularity.
- 1.4. Therefore, solutions must be implemented throughout the waste management chain. Leading solutions include preventing waste generation, promoting segregated collection, transport, and treatment, closing open dumpsites, and minimizing the release of solid waste to the environment. These solutions are holistic, as they include adequate waste management and a circular economy framework. Also requiring the updating of information and policies to measure the achievements. Furthermore, seeking innovative technologies and schemes can reduce problems and increase efficiency.
- 1.5. The IDB's current portfolio evidences an increasing interest among the countries of the region to improve waste management in their respective countries, for example the loans recently approved in 2022 (US\$247 million including co-financers) match the whole

former portfolio (US\$209 million). However, in the region there is still a financial gap of US\$4.250 million per year in average to close dumpsites, stop other inadequate disposal practices, increase collection coverage, increase recovery to 30% (as per the SDG goals) by 2030 and ensure the proper disposal of waste that cannot be utilized. Around 20% of these resources (US\$ 850 million per year) must be invested in infrastructure, and the remaining 80% (US\$3.400 million per year) is needed to cover operational costs to sustain the initiatives in the long term. As such, having feasible projects with sustainability is key¹. As such, Ecuador approved in 2023 the loan operation EC-L1283 for water and sanitation.

2. Objective

2.1 The objective of this consultancy is to have feasible projects that allow for effective and waste management in Ecuador with a vision in circular economy and GHG mitigation.

3. Scope of Services

2.2 The scope of consulting services will be to elaborate a prefeasibility or analyze studies for solutions to be implemented in Ecuador regarding waste management with a circular economy vision.

2.3 The type of projects may be omitting organic waste from landfills through treatment, and valorization, closure of dump sites, and (v) adopting cleaner technologies.

4. Key Activities

4.1. Feasibility studies

- (i) **Project overview and basic data analysis:** This activity stipulates and collects project basic data such as background and purpose of a project, selection process, implementation agency, contents of a project, project location, total estimated costs, project effects and results. Also, it analyzes natural, living, social, and economic environments of a project identifying similar cases.
- (ii) **Economic analysis:** Economic analysis is comprised of elements that can be quantified by analytical frameworks. This activity includes demand-benefit-cost estimations and analysis, economic feasibility evaluation, and financial feasibility analysis. While an economic feasibility analysis measures the costs and benefits of a public project from the perspective of an entire nation or society, financial feasibility focuses on actual monetary costs and cash flows from the perspective of individual parties responsible for a project. Ways to attract private investment and the potential

¹ <https://publications.iadb.org/es/sostenibilidad-financiera-de-la-gestion-de-residuos-solidos-en-america-latina-y-el-caribe>

of Public-Private Partnerships (PPPs) will be assessed in this activity.

- (iii) **Environmental analysis:** Environmental analyses involves elements that relate to impact on the surrounding environment both natural and social. Aspects that are seen to be more valuable for a project acceptance and development. social analyses with two objectives. Firstly, based on the operator’s current data identify gender, diversity, and vulnerable groups situation for inclusive work in the intermediate treatment facility. Secondly, in cooperation at the local government level analyse residents' opinions regarding the project.
- (iv) **Policy analysis:** Policy analysis includes elements that are among social benefits or costs resulting from a project but cannot be quantified by the framework of cost-benefit analysis. Nevertheless, these elements are important enough to be considered to evaluate the feasibility of a project. This analysis will verify political consistency and willingness of a government by looking into its political directions and plans, willingness to pursue a project, level of project preparedness, and so on. Various risks in pursuing projects such as the possibility of financing and socio-environmental impacts will be examined in this category. Also, an alternative analysis will consider IDB’s E&S safeguards policies and standards.
- (v) **Comprehensive evaluation:** The final step of a feasibility study is putting the results of both economic and policy analysis together to make a final decision on whether to go ahead with the project. A multi-criteria analysis will be used in this step to bring out an optimal alternative and determine the feasibility of a project which satisfies multiple project objectives.

5. Expected Outcome and Deliverables

- 5.1. A consultancy work plan should be submitted before the initiation of this project. The work plan will describe detailed activities to accomplish the objectives and schedule of the project. Proper allocation of human, financial, and material resources will be presented through the work plan.
- 5.2. A report of the project selected with main characteristics, potential pilots, governance, and institutional capacity for each emitter.
- 5.3. A feasibility study report should be submitted which includes all the dimensions of the 4.2 for the emitter.
- 5.4. An action plan should be submitted which sets out the next steps for the pilot project to escalate in the beneficiary country.
- 5.5. A final feasibility report with policy recommendations and action plan, modified according to the IDBs assessment.

6. Project Schedule and Milestones

Milestone #	Milestones	Due date
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1	Submit a consultancy work plan	10 days after contract is signed
2	Complete outcome 5.2	2 months
3	Complete outcome 5.3	4 months
4	Complete outcome 5.4	6 months
5	Complete outcome 5.5 and final revision of all products.	10 months

7. Reporting Requirements

7.1. The consulting firm should follow the above-mentioned project scope, activities, schedule, and milestones in a timely manner. Every deliverable including plans, reports, and proposals should be written in English and Spanish.

8. Acceptance Criteria

8.1. The team leader of the Technical Cooperation (TC) team will decide whether the deliverables are acceptable or not. Internal meetings will be held within the TC team to decide and to figure out if the deliverables meet the requirements of this consultancy. If the deliverables do not comply with the requirements, the consulting firm will be obliged to revise and supplement the deliverables.

9. Other Requirements

9.1. The consulting firm should demonstrate the capacity to form a team with the following characteristics:

- Expertise in technical, economic, environmental, social, and political analysis to carry out a feasibility study.
- Extensive experience providing high-level advice to national governments.
- Work or research experiences in Latin America and the Caribbean region.
- Work experiences with multilateral development organizations.
- Ability to hire personnel with fluency in English, Spanish.
- High expertise in climate change, methane mitigation, and pilot projects.
- Specific expertise in the beneficiary countries, with local consultants.
- At least one local expert from the beneficiary countries must be included in the key work team.
- The consulting firm must be from one of the 48 IDB member countries.

10. Supervision and Reporting

10.1. After the consulting firm submits the work plan, the IDB and consulting firm will have meetings at least once a month on a regular basis. Every TC team member can give comments on the deliverables to secure the quality of deliverables.

11. Schedule of Payments

Deliverable	%
After submission of milestone one and two	10 %
After submission of milestone three	30 %
After submission of milestone four	40 %
After submission of milestone five	20 %
Total	100 %

TERMS OF REFERENCE

Consultancy Diffusion package of the TC in Ecuador with a vision of circular economy and GHG mitigation (EC-T1441)

Ecuador

EC-T1441

Improving solid waste management for climate mitigation and inclusive circular economy in Ecuador with Korean collaboration

1. Background and Justification

1.1. Established in 1959, the Inter-American Development Bank (“IDB” or “Bank”) is the main source of financing for economic, social, and institutional development in Latin America and the Caribbean. It provides loans, grants, guarantees, policy advice and technical assistance to the public and private sectors of its borrowing countries. In this line, the publication of knowledge products of high technical quality is an essential element to develop the IDB's work agenda in the water and sanitation sector. Graphic communication through illustrations, campaigns and layout of knowledge products is an essential element to develop the Bank's work agenda.

1.2. Ecuador is a Latin American country with over 17.7 million inhabitants and a GDP per person per year of USD 5.809. The GDP of Ecuador is lower than the average in Latin America (USD 7.922 per person per year). However, in 2021, Ecuadorians on average 344 kilograms of municipal solid waste per person per year, which is higher than the average in Brazil, Perú, Colombia, and Bolivia. In 2021, Ecuador collected 80.9% of the municipal solid waste produced in the country, which is slightly lower than the average in the region of Latin America and the Caribbean (LAC) (84.7%), and 26.1% were liberated to the environment (not collected plus disposed inadequately), indicating a need in the country to expand coverage of the waste management services. Nevertheless, the percentage of solid waste taken to sanitary landfills is higher than the average in the region (73% for Ecuador vs. 46% in LAC).

1.3. However, the transition to a circular economy and mitigation of methane are current challenges in Ecuador. According to the solid waste and circular economy data hub administered by the IDB, only 0.7% of solid waste was valorized by composting or recycling. The former, compared to LAC, which has a rate of 4.39%, reflects how the country needs to act towards circularity.

1.4. Therefore, solutions must be implemented throughout the waste management chain. Leading solutions include preventing waste generation, promoting segregated collection, transport, and treatment, closing open dumpsites, and minimizing the release of solid waste to the environment. These solutions are holistic, as they include adequate waste management and a circular economy framework. Also requiring the updating of information and policies to measure the achievements. Furthermore, seeking innovative

technologies and schemes can reduce problems and increase efficiency.

1.5. The IDB's current portfolio evidences an increasing interest among the countries of the region to improve waste management in their respective countries, for example the loans recently approved in 2022 (US\$247 million including co-financers) match the whole former portfolio (US\$209 million). However, in the region there is still a financial gap of US\$4.250 million per year in average to close dumpsites, stop other inadequate disposal practices, increase collection coverage, increase recovery to 30% (as per the SDG goals) by 2030 and ensure the proper disposal of waste that cannot be utilized. Around 20% of these resources (US\$ 850 million per year) must be invested in infrastructure, and the remaining 80% (US\$3.400 million per year) is needed to cover operational costs to sustain the initiatives in the long term. As such, having feasible projects with sustainability is key¹. As such, Ecuador approved in 2023 the loan operation EC-L1283 for water and sanitation.

2. Objetives

2.1. Carry out graphic design work to support the publication of knowledge products, webinars, product dissemination campaigns, presentations, and audiovisual materials produced by WSA within the framework of the TC.

3. Scope

3.1. Webinars planned in the TC.

3.2. Creation of visual content, layout of documents, illustrations, blogs, podcast, photographs, videos, according to the agreed image consistent with the bank's marketing.

3.3. Edition and translation of products.

4. Key activities

The consultant will work in a coordinated and direct way with the communicator assigned by the WSA division and the Client Relations Lead of KIC (Knowledge, Innovation and Communication Department) for INE/WSA, in a dynamic and proactive way, and will have to perform the following activities:

4.1. Develop webinars in the framework of the TC and knowledge exchange.

4.2. Layout of up to 6 reports, up to 100 pages per report and design of up to 30 basic graphs/figures/tables per report. As well as edition and translation of the reports.

4.3. Develop annual media coverage for the TC.

4.4. Develop of an informational or educational brochure regarding the main features of the instrument and the data module, this awareness material must have a gender and inclusion focus.

4.5. Gather, when indicated, audiovisual material, images, or testimonies for the showcasing of the implementation of the process in Ecuador, highlighting significance and expected impacts.

¹ <https://publications.iadb.org/es/sostenibilidad-financiera-de-la-gestion-de-residuos-solidos-en-america-latina-y-el-caribe>

5. **Results and products**

- 5.1. One webinar and one workshop
- 5.2. Layout of documents, according to the approved graphic line. As well as editing and translation of the products.
- 5.3. Recording and editing of presentations and media coverage.
- 5.4. Annual media coverage.

6. **Project Schedule and Milestones**

- 6.1. Contract duration: 3 calendar months
- 6.2. Start: 2024

7. **Reporting Requirements**

- 7.1. *The presentation of the products must be made in editable versions in the softwares agreed with the communications area, as well as in final backup version.*

8. **Acceptance criteria**

- 8.1. *The work must have the approval of the technical team designated for this purpose.*
- 8.2. Use of Adobe Suite, Corel Draw or other graphic design tools. The consultant is also required to propose new visual products that are trendy to implement in communication products. Ability to tell stories through visual or audiovisual products.

9. **Supervision and Reporting**

- 9.1. The consultant will be informing Sector Sr Specialist (INE/WSA) and Client Relations Lead, (KIC/URC), with whom meetings will be scheduled, according to the schedule agreed between the parties, in order to receive comments on the progress, make comments or instructions for changes and make the respective approvals.

10. **Payment calendar**

- 10.1. Payment conditions will be based on the milestones or deliverables of the project, in accordance with the product requirements formulated by the contract supervisor. Payment will be made according to the following dates and values:

Deliverable	Estimated delivery date	Percentage of payment
1. Webinar 1	1 month	30%
2. Workshop 1	2 month	30%
3. Layout of documents and presentations.	3 months	40%

- The consulting firm must be from one of the 48 IDB member countries.

TERMS OF REFERENCE

Pre- Feasibility studies for collection and treatment facilities for waste (EC-T1441)

Ecuador

EC-T1441

Improving solid waste management for climate mitigation and inclusive circular economy in Ecuador with Korean collaboration

1. **Background and Justification**

- 1.1. Established in 1959, the Inter-American Development Bank (“IDB” or “Bank”) is the main source of financing for economic, social, and institutional development in Latin America and the Caribbean. It provides loans, grants, guarantees, policy advice and technical assistance to the public and private sectors of its borrowing countries.
- 1.2. Ecuador is a Latin American country with over 17.7 million inhabitants and a GDP per person per year of USD 5.809. The GDP of Ecuador is lower than the average in Latin America (USD 7.922 per person per year). However, in 2021, Ecuadorians on average 344 kilograms of municipal solid waste per person per year, which is higher than the average in Brazil, Perú, Colombia, and Bolivia. In 2021, Ecuador collected 80.9% of the municipal solid waste produced in the country, which is slightly lower than the average in the region of Latin America and the Caribbean (LAC) (84.7%), and 26.1% were liberated to the environment (not collected plus disposed inadequately), indicating a need in the country to expand coverage of the waste management services. Nevertheless, the percentage of solid waste taken to sanitary landfills is higher than the average in the region (73% for Ecuador vs. 46% in LAC).
- 1.3. However, the transition to a circular economy and mitigation of methane are current challenges in Ecuador. According to the solid waste and circular economy data hub administered by the IDB, only 0.7% of solid waste was valorized by composting or recycling. The former, compared to LAC, which has a rate of 4.39%, reflects how the country needs to act towards circularity.
- 1.4. Therefore, solutions must be implemented throughout the waste management chain. Leading solutions include preventing waste generation, promoting segregated collection, transport, and treatment, closing open dumpsites, and minimizing the release of solid waste to the environment. These solutions are holistic, as they include adequate waste management and a circular economy framework. Also requiring the updating of information and policies to measure the achievements. Furthermore, seeking innovative technologies and schemes can reduce problems and increase efficiency.
- 1.5. The IDB's current portfolio evidences an increasing interest among the countries of the region to improve waste management in their respective countries, for example the loans recently approved in 2022 (US\$247 million including co-financers) match the whole former portfolio (US\$209 million). However, in the region there is still a financial gap of

US\$4.250 million per year in average to close dumpsites, stop other inadequate disposal practices, increase collection coverage, increase recovery to 30% (as per the SDG goals) by 2030 and ensure the proper disposal of waste that cannot be utilized. Around 20% of these resources (US\$ 850 million per year) must be invested in infrastructure, and the remaining 80% (US\$3.400 million per year) is needed to cover operational costs to sustain the initiatives in the long term. As such, having feasible projects with sustainability is key¹. As such, Ecuador approved in 2023 the loan operation EC-L1283 for water and sanitation.

2. Objective

2.1 The objective of this consultancy is to prepare a pre-feasibility project that allow for effective and waste management in Galapagos, Ecuador with a vision in circular economy and GHG mitigation.

3. Scope of Services

2.2 The scope of consulting services will be to elaborate a prefeasibility to be implemented in Galapagos, Ecuador regarding waste management with a circular economy vision.

2.3 The type of projects may be omitting organic waste from landfills through treatment, and valorization, closure of dump sites, and (v) adopting cleaner technologies.

4. Key Activities

4.1. Pre- Feasibility study

(i) **Project overview and basic data analysis:** This activity stipulates and collects project basic data such as background and purpose of a project, selection process, implementation agency, contents of a project, project location, total estimated costs, project effects and results. Also, it analyzes natural, living, social, and economic environments of a project identifying similar cases.

(ii) **Economic analysis:** Economic analysis is comprised of elements that can be quantified by analytical frameworks. This activity includes demand-benefit-cost estimations and analysis, economic feasibility evaluation, and financial feasibility analysis. While an economic feasibility analysis measures the costs and benefits of a public project from the perspective of an entire nation or society, financial feasibility focuses on actual monetary costs and cash flows from the perspective of individual parties responsible for a project. Ways to attract private investment and the potential of Public-Private Partnerships (PPPs) will be assessed in this activity.

¹ <https://publications.iadb.org/es/sostenibilidad-financiera-de-la-gestion-de-residuos-solidos-en-america-latina-y-el-caribe>

- (iii) **Environmental analysis:** Environmental analyses involves elements that relate to impact on the surrounding environment both natural and social. Aspects that are seen to be more valuable for a project acceptance and development. social analyses with two objectives. Firstly, based on the operator’s current data identify gender, diversity, and vulnerable groups situation for inclusive work in the intermediate treatment facility. Secondly, in cooperation at the local government level analyse residents' opinions regarding the project.
- (iv) **Policy analysis:** Policy analysis includes elements that are among social benefits or costs resulting from a project but cannot be quantified by the framework of cost-benefit analysis. Nevertheless, these elements are important enough to be considered to evaluate the feasibility of a project. This analysis will verify political consistency and willingness of a government by looking into its political directions and plans, willingness to pursue a project, level of project preparedness, and so on. Various risks in pursuing projects such as the possibility of financing and socio-environmental impacts will be examined in this category. Also, an alternative analysis will consider IDB’s E&S safeguards policies and standards.
- (v) **Comprehensive evaluation:** The final step of a feasibility study is putting the results of both economic and policy analysis together to make a final decision on whether to go ahead with the project. A multi-criteria analysis will be used in this step to bring out an optimal alternative and determine the feasibility of a project which satisfies multiple project objectives.

5. Expected Outcome and Deliverables

- 5.1. A consultancy work plan should be submitted before the initiation of this project. The work plan will describe detailed activities to accomplish the objectives and schedule of the project. Proper allocation of human, financial, and material resources will be presented through the work plan.
- 5.2. A report of the project selected with main characteristics, potential pilots, governance, and institutional capacity for each emitter.
- 5.3. A pre-feasibility study report should be submitted which includes all the dimensions of the 4.2 for the emitter.
- 5.4. An action plan should be submitted which sets out the next steps for the pilot project to escalate in the beneficiary country.
- 5.5. A final pre- feasibility report with policy recommendations and action plan, modified according to the IDBs assessment.

6. Project Schedule and Milestones

Milestone #	Milestones	Due date
1	Submit a consultancy work plan	10 days after contract is signed

2	Complete outcome 5.2	2 months
3	Complete outcome 5.3	4 months
4	Complete outcome 5.4	6 months
5	Complete outcome 5.5 and final revision of all products.	10 months

7. Reporting Requirements

7.1. The consulting firm should follow the above-mentioned project scope, activities, schedule, and milestones in a timely manner. Every deliverable including plans, reports, and proposals should be written in English and Spanish.

8. Acceptance Criteria

8.1. The team leader of the Technical Cooperation (TC) team will decide whether the deliverables are acceptable or not. Internal meetings will be held within the TC team to decide and to figure out if the deliverables meet the requirements of this consultancy. If the deliverables do not comply with the requirements, the consulting firm will be obliged to revise and supplement the deliverables.

9. Other Requirements

9.1. The consulting firm should demonstrate the capacity to form a team with the following characteristics:

- Expertise in technical, economic, environmental, social, and political analysis to carry out a feasibility study.
- Extensive experience providing high-level advice to national governments.
- Work or research experiences in Latin America and the Caribbean region.
- Work experiences with multilateral development organizations.
- Ability to hire personnel with fluency in English, Spanish.
- High expertise in climate change, methane mitigation, and pilot projects.
- Specific expertise in the beneficiary countries, with local consultants.
- At least one local expert from the beneficiary countries must be included in the key work team.
- The consulting firm must be from one of the 48 IDB member countries.

10. Supervision and Reporting

10.1. After the consulting firm submits the work plan, the IDB and consulting firm will have meetings at least once a month on a regular basis. Every TC team member can give comments on the deliverables to secure the quality of deliverables.

11. Schedule of Payments

Deliverable	%
After submission of milestone one and two	10 %
After submission of milestone three	30 %
After submission of milestone four	40 %
After submission of milestone five	20 %
Total	100 %