

**SUPPORT TO THE MINISTRY OF AGRICULTURE OF JAMAICA TO UPDATE SECTOR POLICIES AND  
INVESTMENT PLANS AND FOR PROJECT PREPARATION**

**JA-T1158**

**CERTIFICATION**

I hereby certify that this operation was approved for financing under the **Ordinary Capital Strategic Development Program for Sustainability (SUS)** through a communication dated March 9, 2017 and signed by Jane Silva (ORP/GCM). Also, I certify that resources from said fund are available for up to **US\$350,000** in order to finance the activities described and budgeted in this document. This certification reserves resource for the referenced project for a period of six (6) calendar months counted from the date of eligibility from the funding source. If the project is not approved by the IDB within that period, the reserve of resources will be cancelled, except in the case a new certification is granted. The commitment and disbursement of these resources shall be made only by the Bank in US dollars. The same currency shall be used to stipulate the remuneration and payments to consultants, except in the case of local consultants working in their own borrowing member country who shall have their remuneration defined and paid in the currency of such country. No resources of the Fund shall be made available to cover amounts greater than the amount certified herein above for the implementation of this operation. Amounts greater than the certified amount may arise from commitments on contracts denominated in a currency other than the Fund currency, resulting in currency exchange rate differences, represent a risk that will not be absorbed by the Fund.

Certified by:

ORIGINAL SIGNED

Jun/07/18

\_\_\_\_\_  
Sonia M. Rivera

\_\_\_\_\_  
Date

Chief

Grants and Co-Financing Management Unit

ORP/GCM

Approved by:

ORIGINAL SIGNED

Jun/08/18

\_\_\_\_\_  
Pedro Martel

\_\_\_\_\_  
Date

Chief

Environment, Rural Development and Risk

Management Division

CSD/RND

## TC DOCUMENT

### I. Basic Information for TC

▪ Country/Region:	Jamaica
▪ TC Name:	Support to the Ministry of Agriculture of Jamaica to Update Sector Policies and Investment Plans and for Project Preparation
▪ TC Number:	JA-T1158
▪ Team Leader/Members:	Hector Valdes Conroy (CSD/RND), Team Leader; Carmine Paolo de Salvo (RND/CHA), Alternate Team Leader; Yuri Chakalall (RND/CJA), Rene Herrera (FMP/CJA), Sherries Ruddock Simpson (CCB/CJA), Maria del Pilar Jimenez (LEG/SGO), and Elizabeth Chavez (CSD/RND).
▪ Taxonomy:	Operational Support
▪ Number and name of Operation Supported by the TC:	JA-L1083
▪ Date of TC Abstract authorization:	March 9, 2018
▪ Beneficiary:	Jamaica, Ministry of Agriculture, Industry, Commerce and Fisheries (MICAF)
▪ Executing Agency:	CSD/RND
▪ Donors providing funding:	OC Strategic Development Program for Sustainability (SUS)
▪ IDB Funding Requested:	\$350,000.00
▪ Local counterpart funding, if any:	None
▪ Disbursement period:	24 months
▪ Required start date:	May 2018
▪ Types of consultants:	Individual
▪ Prepared by Unit:	CSD/RND
▪ Unit of Disbursement Responsibility:	CSD
▪ TC included in Country Strategy (y/n):	N
▪ TC included in CPD (y/n):	N
▪ Alignment to the Update to the Institutional Strategy 2010-2020:	Social inclusion and equality; Productivity and innovation; Economic integration; and Climate change and Environmental sustainability.

### II. Description of the Associated Loan

- 2.1 Agriculture plays an important socioeconomic role in Jamaica. In 2016, the sector's contribution stood at 8% of GDP<sup>1</sup>, employing approximately 18% of the economically active population.<sup>2</sup> Spatially, 77% of the total productive agricultural land is occupied by small farmers with plot sizes of two hectares or less. The country has an agricultural trade deficit. While agri-food has accounted for a significant share of export earnings, imports of livestock-based staples exceed the combined earnings from coffee, banana and sugar.
- 2.2 The sector is highly vulnerable to climate variability and change. In 2014, direct sector losses from hurricanes over the preceding 25 years were quantified as standing at

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<sup>1</sup> World Bank, 2018.

<sup>2</sup> Shik, O.; Boyce, A.; De Salvo, C.P. (2017) Analysis of Agriculture Sector Policies in Jamaica. IDB Monograph 536.

JMD \$25 billion—approximately USD \$220 million.<sup>3</sup> Other restrictions to sector growth acceleration in Jamaica include limited technical innovation, insufficient qualified human resources, insufficient irrigation and roads infrastructure, lack of farmer collateral required for access to credit, incidence of pests and diseases, and low levels of small-farmer organization and linkages to markets.

- 2.3 In its national development planning (Vision 2030), the Government of Jamaica (GoJ) prioritizes a goal of economic prosperity and identifies an internationally competitive agriculture sector as an important contributor for securing this goal. The long-term sectoral vision is one of dynamic transformation via research, technological, market and private sector interventions, and the revitalization of rural communities. The development of Agro-parks has also been identified as a key strategy. This initiative includes strengthening marketing structures, establishing model farms, improving farm roads and irrigation, and adopting sanitary and phytosanitary (SPS) quality management systems and standards.
- 2.4 An IDB investment loan of USD\$15M was approved in 2010 (the Agricultural Competitiveness Programme—ACP; JA-L1012) and aimed at increasing farmers access to markets. Re-scoped in 2013 at the request of the GoJ, the operation has provided support for the development of four Agro-parks and it was part of various growth-enhancing reforms recommended under an International Monetary Fund Extended Fund Facility program. The GoJ is keen to continue improving the competitiveness of the agriculture sector. A request to the IDB for a new operation (JA-L1083) focused on increasing agricultural competitiveness was formally confirmed as a priority for the period 2018/19 to 2019/2020 from the Ministry of Finance and the Public Service (MoFaPS).
- 2.5 The Increasing Agricultural Competitiveness program (JA-L1083), to be prepared with the resources of this TC, will seek to enhance Jamaica's agricultural producers' competitiveness by (i) fostering the incorporation of medium and small producers to efficient agricultural value chains, and (ii) improving key agricultural public services.
- 2.6 The program will be structured in the following two components:
- 2.7 Component 1. Development of Agro-Parks. This component will build on the achievements and lessons learned of the ACP (JA-L1012) to further develop the agro-parks launched under that operation. Its objective will be to improve medium and small farmers' participation in the agricultural value chains by consolidating the agro-park model. The component will improve the conditions for agricultural production in the parks as well as the business environment by making key investments in public infrastructure within the parks—e.g., roads and irrigation—and by reviewing the regulatory framework to ensure it promotes the development of markets for key complementary goods and services—e.g., agricultural inputs, machinery, and finance, among others. It will also promote the adoption of innovative practices, particularly those promoting adaptation to climate change. The component will seek to foster private sector participation in the operation of the Agro-Parks through the use of performance-based policies or other mechanisms.
- 2.8 Component 2. Institutional Strengthening. This component will seek to strengthen Jamaica's institutional capacity to provide key agricultural public services, including animal and plant health, extension, information and statistics, and innovation and

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<sup>3</sup> Protz, M.; Bigi, A.; (2014) Climate-Smart Land Husbandry in Jamaica: A Manual for Extension. Food & Agriculture Organization (FAO).

research. This will provide agricultural producers with the services necessary to make informed investments, to innovate, and to export their products complying with international SPS requirements.

### III. Objectives and Justification of the TC

- 3.1 The objective of this Technical Cooperation (TC) is to support the Ministry of Industry, Commerce, Agriculture and Fisheries (MICAFA) to: (a) assess sector policy and develop performance-based policies; (b) review Agro-parks performance as well as further develop Agro-park related model strategies and plans; and (c) inform and prepare the design for successor Agro-parks or other relevant sector investments.
- 3.2 The TC is consistent with the Update to the Institutional Strategy 2010-2020 (AB-3008) and is aligned with the development challenges of (i) Social Inclusion and Equality, as it will finance a number of studies that will provide evidence necessary to formulate effective policies aimed at helping small agricultural producers increase their productivity and access to markets through the use of sustainable practices; and (ii) Productivity and Innovation, by financing a number of studies that will provide evidence necessary to formulate effective policies aimed at helping small agricultural producers increase their productivity and access to markets through the use of sustainable practices. The TC is also aligned with the cross-cutting theme of Environmental Sustainability, by financing a number of studies that will provide evidence necessary to formulate effective policies aimed at helping small agricultural producers increase their productivity and access to markets through the use of sustainable practices.

### IV. Description of Activities/Components and Budget

- 4.1 **Component 1: Sector Policy Assessment & Definition of Performance-Based Models.** This component will develop a sector policy scan, specific policy reviews and studies of the development constraints for the sector. These will include but not be restricted to considerations of competitiveness; value chain development and sustainability; export growth and promotion; climate change vulnerabilities and risks; the current role of and potential for further incubating micro, small and medium enterprises; status of agricultural credit; and SPS systems. The component will include a review of relevant MICAFA policies, as well as an analysis of government-provided agricultural services, with a focus on identifying potential legal and institutional framework updates required to facilitate production and investment growth. Identification of existing or high-potential agricultural value chains and an analysis of the possible role of government in defining and incentivizing performance-based management of those value-chains will also be carried out.
- 4.2 The following studies will be financed under this component: (i) Sector scan: analysis of the agricultural sector in Jamaica, with the objective of producing a detailed description of the current situation and recent evolution of the agriculture sector; (ii) Analysis of development constraints for the sector, with the objective of identifying the main development constraints of the agriculture sector; (iii) Analysis of Jamaica's policies for the agricultural sector, with the objective of updating, reviewing and analyzing Producer Support Estimates (PSE), and conducting value chain analyses developing Nominal Rate of Protection (NRP) and Effective Rate of Protection (ERP) indicators; and (iv) Review of performance-based agricultural policies, with the objective of reviewing performance-based agricultural policies to determine their effectiveness and applicability to the Jamaican context.

- 4.3 **Component 2: Development of Agro-Park Strategy and Plan.** This component will formally articulate a time-bound, Jamaica-specific Agro-Park Strategy and Plan. This will require consultation with key stakeholders as well as a careful review of prevailing concepts, initiatives, and global typologies. It will include a review of the progress, performance, and preliminary results of existing Agro-Park investments that will serve as bases for the development of the Agro-Park Strategy and Plan. The Strategy and Plan should define vision, current functional status, gaps and opportunities, clear objectives, targets and performance indicators as well as the enabling milestone interventions and actions required to achieve a sustainable, private sector-led model or other performance-oriented modality of operation.
- 4.4 The following studies will be financed under this component: (i) Evaluation of Agro-Parks, with the objective of evaluating the effectiveness and relevance of various agro-parks operating in Jamaica; and (ii) Agro-Park Strategy and Plan, with the objective of developing an agro-park strategy and implementation plan that is especially adapted to Jamaica's context.
- 4.5 **Component 3: Preparation and Design of JA-L1083.** Considering the findings and recommendations of the previous Components, this component will finance key inputs for the design of the new follow-on operation (JA-L1083) and will include the following studies: (i) Feasibility analysis and detailed design of proposed infrastructure works, with the objective of preparing detailed design, bill of quantities, technical specifications and bidding documents for the infrastructure works proposed in operation JA-L1083; (ii) Ex-ante carbon footprint balance estimation of proposed investments, with the objective of estimating the carbon footprint balance that the proposed investment are likely to have; (iii) Environmental and social impact assessment, with the objective of identifying the potential negative impacts of operation JA-L1083 as well as the measures necessary to avoid, minimize or mitigate those impacts; (iv) Ex-ante economic analysis of operation, with the objective of conducting a cost-benefit analysis of operation JA-L1083's components and demonstrate their economic viability; (v) Institutional capacity analysis, with the objective of assessing MICA's institutional capacity to execute operation JA-L1083; and (vi) Monitoring and evaluation plan, with the objective of designing the monitoring plan and an impact evaluation plan for operation JA-L1083.
- 4.6 The total cost of this TC will be US\$350,000, which will be financed by the OC Strategic Development Program for Sustainability (SUS).

Indicative Budget

Activity/Component	Description	IDB/Fund Funding	Counterpart Funding	Total Funding
<b>Component 1. Sector policy assessment and definition of performance-based models</b>		<b>US\$130,000.00</b>	<b>US\$0.00</b>	<b>US\$130,000.00</b>
	Sector scan: Descriptive analysis of the agriculture sector in Jamaica	US\$20,000.00	US\$0.00	US\$20,000.00
	Analysis of development constraints for the sector	US\$70,000.00	US\$0.00	US\$70,000.00
	Analysis of Jamaica's policies for the agricultural sector	US\$25,000.00	US\$0.00	US\$25,000.00

	Review of performance-based agricultural policies	US\$15,000.00	US\$0.00	US\$15,000.00
<b>Component 2. Development of Agro-Park Strategy and Plan</b>		<b>US\$45,000.00</b>	<b>US\$0.00</b>	<b>US\$45,000.00</b>
	Evaluation of Agro-Parks	US\$35,000.00	US\$0.00	US\$20,000.00
	Agro-Park Strategy and Plan	US\$15,000.00	US\$0.00	US\$15,000.00
<b>Component 3. Preparation and design of JA-L1083</b>		<b>US\$175,000.00</b>	<b>US\$0.00</b>	<b>US\$175,000.00</b>
	Feasibility analysis and detailed design of proposed infrastructure works	US\$70,000.00	US\$0.00	US\$70,000.00
	Ex-ante carbon footprint balance estimation of proposed investments	US\$25,000.00	US\$0.00	US\$25,000.00
	Environmental and social impact assessment	US\$30,000.00	US\$0.00	US\$30,000.00
	Ex-ante economic analysis of operation	US\$20,000.00	US\$0.00	US\$20,000.00
	Institutional capacity analysis	US\$15,000.00	US\$0.00	US\$15,000.00
	Monitoring and evaluation plan	US\$15,000.00	US\$0.00	US\$15,000.00

## V. Executing Agency and Execution Structure

5.1 This TC will be executed by CSD/RND, due to the timing of the implementation and the technical expertise needed for the supervision. The implementation will, however, be coordinated by MICAFA and MoFaPS. Reports and products will be reviewed by MICAFA, MoFaPS and the Bank. The activities to be executed are included in the Procurement Plan (Annex IV) and will be contracted in accordance with Bank policies as follows: (a) AM-650 for Individual consultants; (b) GN-2765-1 and Guidelines OP-1155-4 for Consulting Firms for services of an intellectual nature and; (c) GN-2303-20 for logistics and other related services.

## VI. Major Issues

- 6.1 There is a risk of lack of technical capacity among the national and local level stakeholders as it relates to data collection for the technical studies. This risk is mitigated by the Bank execution, which will advise on specific terms of reference, contribute to technical monitoring and supervision, and review reports for timely execution.
- 6.2 As with any government, there is also a risk that the Government of Jamaica changes priorities and decides to cancel or postpone operation JA-L1083. This risk would only affect Component 3, since the products of components 1 and 2 will provide valuable knowledge that can be utilized for multiple purposes, e.g., policy making and research, independently of operation JA-L1083. Still, the risk is being mitigated through a continued dialogue of the Bank with governmental authorities.

## VII. Exceptions to Bank Policy

- 7.1 There are no exceptions to Bank Policy in this operation.

### **VIII. Environmental and Social Strategy**

- 8.1 The program is classified as Category "B" pursuant to the Bank's Environment and Safeguards Compliance Policy (OP 703), no environmental or social risks; see (SPF) (SSF).

#### **Required Annexes:**

- Annex I: Request from the client
- Annex II: Results Matrix
- Annex III: Terms of Reference
- Annex IV: Procurement Plan



ANY REPLY OR SUBSEQUENT REFERENCE SHOULD BE ADDRESSED TO THE  
FINANCIAL SECRETARY AND THE FOLLOWING REFERENCE NUMBER QUOTED:-

Telephone No. 922-8600-16  
Website: <http://www.mof.gov.jm>  
Email: [info@mof.gov.jm](mailto:info@mof.gov.jm)

MINISTRY OF FINANCE AND THE PUBLIC SERVICE  
30 NATIONAL HEROES CIRCLE  
P.O. BOX 512  
KINGSTON  
JAMAICA

June 5, 2018

Mrs. Therese Turner-Jones  
General Manager  
Country Department, Caribbean Group  
Inter-American Development Bank  
40-46 Knutsford Boulevard (6<sup>th</sup> Floor)  
Kingston 5

Dear Mrs. Turner-Jones,

**Re: Request for Nonreimbursable Technical Cooperation (TC) Funding from the Inter-American Development Bank (IDB) for Eight (8) Projects proposed to be initiated in FY 2018/19**

Reference is made to previous discussions between representatives of the Government of Jamaica (GOJ) and the Inter-American Development Bank (IDB) in relation to several proposed projects for which Technical Cooperation (TC) funding is being made available by the IDB.


Further to the ensuing discussions with the relevant GOJ stakeholders, the Ministry of Finance and the Public Service (MOFPS) on behalf of the GOJ hereby formally requests TC funding in the aggregate amount of US\$2,850,000 for the eight (8) projects as outlined in **Table 1** below provided by the Bank:

**Table 1**

Project Number	Project Name	Anticipated Approval Date	Amount (US Equivalent)
JA-T1153	Persons with Disability Support Program	31-Aug-2018	350,000
JA-T1149	Promoting Sustainable Tourism and Mitigating the Impact of Climate Change - A Master Plan for Jamaica	26-Oct-2018	350,000
JA-T1155	Support for the formulation and implementation of the Program for the Strengthening of Disaster Risk Management and Climate Change Adaptation Governance	16-May-2018	750,000
JA-T1158	Support to the Ministry of Agriculture of Jamaica to Update Sector Policies and Investment Plans and for Project Preparation	24-May-2018	350,000
JA-T1156	Development of Jamaica's Digital Government Agenda	15-Jun-2018	300,000
JA-T1154	Support for Education Programme for Sustainability of Modernisation and Reform	30-Nov-2018	200,000
JA-T1151	Implementation Support for Skills Development for Global Services	30-May-2018	300,000
JA-T1152	Strengthening Health Services Delivery in Jamaica	29-Jun-2018	250,000

The GOJ anticipates the favourable consideration of the Bank to the foregoing request for TC funding and awaits the Bank's response accordingly. The Bank in responding is also being asked to indicate those Projects which will be Bank-executed and provide any TC documentation or Agreements necessary to facilitate the GOJ's review and non-objection before implementation of the Projects listed.

Yours sincerely,

  
Dian Black (Ms.)  
for Financial Secretary





Operation Number: JA-T1158  
 TCM Cycle: TCM Period 2018  
 Last Update: 5/8/2018

Inter-American Development Bank - IDB

## Results Matrix

### Outcomes

Outcome: 1 Ministry of Agriculture's decision-making processes are supported with data and analytical evidence  
 Outcome: 2 Investment loan JA-L 1083 designed

CRF Indicator

### Outputs: Annual Physical and Financial Progress

1.1. Sector Policy Assessment and Definition of Performance-Based Models						Physical Progress			Financial Progress			Theme	Fund	Flags		
Outputs	Output Description	Unit of Measure	Baseline	Baseline Year	Means of verification	2018	2019	EOP	2018	2019	EOP					
1.1 Diagnostics and assessments completed	Descriptive diagnostic, analyses of development constraints and review of policies implemented in Jamaica's agriculture sector	Diagnostics (#)	0	2018	Approved consultancy report	P	0	5	5	P	45000	85000	130000	Agricultural Productivity and Food Security	SUS	🚩
						P(a)			0	P(a)			0			
						A				A						
2.2. Development of Agro-Park Strategy and Plan						Physical Progress			Financial Progress			Theme	Fund	Flags		
Outputs	Output Description	Unit of Measure	Baseline	Baseline Year	Means of verification	2018	2019	EOP	2018	2019	EOP					
2.1 Strategies designed	Evaluation and development of a strategy and plan for Agro-Parks	Strategies (#)	0	2018	Approved consultancy report	P	0	1	1	P	35000	10000	45000	Agricultural Productivity and Food Security	SUS	🚩
						P(a)			0	P(a)			0			
						A				A						
3.3. Preparation and Design of JA-L1083						Physical Progress			Financial Progress			Theme	Fund	Flags		
Outputs	Output Description	Unit of Measure	Baseline	Baseline Year	Means of verification	2018	2019	EOP	2018	2019	EOP					
3.1 Civil works design completed	Feasibility analysis and detailed design of proposed infrastructure works	Designs (#)	0	2018	Approved consultancy report	P	1	0	1	P	70000		70000	Agricultural Productivity and Food Security	SUS	🚩
						P(a)			0	P(a)			0			
						A				A						
3.2 Environmental impact assessment completed	Ex-ante carbon footprint balance estimation and environmental and social impact assessment	Assessments (#)	0	2018	Approved consultancy report	P	1	0	1	P	55000		55000	Agricultural Productivity and Food Security	SUS	🚩
						P(a)			0	P(a)			0			
						A				A						
3.3 Feasibility study completed	Ex-ante economic analysis	Studies (#)	0	2018	Approved consultancy report	P	1	0	1	P	20000		20000	Agricultural Productivity and Food Security	SUS	🚩
						P(a)			0	P(a)			0			
						A				A						
3.4 Institutional capacity analysis conducted	Institutional capacity analysis	Assessments (#)	0	2018	Approved consultancy report	P	1	0	1	P	15000		15000	Agricultural Productivity and Food Security	SUS	🚩
						P(a)			0	P(a)			0			
						A				A						
3.5 Monitoring and evaluation systems designed	Monitoring and Evaluation Plan	M&E systems (#)	0	2018	Approved consultancy report	P	1	0	1	P	15000		15000	Agricultural Productivity and Food Security	SUS	🚩
						P(a)			0	P(a)			0			
						A				A						

Other Cost



## JAMAICA

## SUPPORT TO THE MINISTRY OF AGRICULTURE OF JAMAICA TO UPDATE SECTOR POLICIES AND INVESTMENT PLANS AND FOR PROJECT PREPARATION JA-T1158

## INDICATIVE TERMS OF REFERENCE

## I. GENERAL BACKGROUND (WILL BE SIMILAR FOR ALL TERMS OF REFERENCE)

- 1.1 Agriculture plays an important socioeconomic role in Jamaica. In 2016, the sector's contribution stood at 8% of GDP<sup>1</sup>, employing approximately 18% of the economically active population.<sup>2</sup> Spatially, 77% of the total productive agricultural land is occupied by small farmers with plot sizes of 2 hectares or less. The country has an agricultural trade deficit. While agri-food has accounted for a significant share of export earnings, imports of livestock-based staples exceed the combined earnings from coffee, banana and sugar.
- 1.2 The sector is highly vulnerable to climate variability and change. In 2014, direct sector losses from hurricanes over the preceding 25 years were quantified as standing at JMD \$25 billion —approximately USD\$220 million.<sup>3</sup> Other restrictions to sector growth acceleration in Jamaica include limited technical innovation, insufficient qualified human resources, insufficient irrigation and roads infrastructure, lack of farmer collateral required for access to credit, incidence of pests and diseases, and low levels of small-farmer organization and linkages to markets.
- 1.3 In its national development planning (Vision 2030), the Government of Jamaica (GoJ) prioritizes a goal of economic prosperity and identifies an internationally competitive agriculture sector as an important contributor for securing this goal. The long-term sectoral vision is one of dynamic transformation via research, technological, market and private sector interventions, and the revitalization of rural communities. The development of Agro-parks has also been identified as a key strategy. This initiative includes strengthening marketing structures, establishing model farms, improving farm roads and irrigation, and adopting sanitary and phytosanitary (SPS) quality management systems and standards.
- 1.4 An IDB investment loan of USD\$15M was approved in 2010 (the Agricultural Competitiveness Programme - ACP; JA-L1012) and aimed at increasing farmers access to markets. Re-scoped in 2013 at the request of the GoJ, the operation has provided support for the development of four Agro-parks and it was part of various growth-enhancing reforms recommended under an International Monetary Fund Extended Fund Facility program. As re-scoped, JA-L1012 is specifically aligned to key lines of action in IDB's Sector Framework Document for Agriculture (2013) relating to the provision of infrastructure and agricultural services as public goods, as well as product quality, food

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<sup>1</sup> World Bank, 2018.

<sup>2</sup> Shik, O.; Boyce, A.; De Salvo, C.P. (2017) Analysis of Agriculture Sector Policies in Jamaica. IDB Monograph 536.

<sup>3</sup> Protz, M.; Bigi, A.; (2014) Climate-Smart Land Husbandry in Jamaica: A Manual for Extension. Food & Agriculture Organization (FAO).

safety, and value chain strengthening, and improved access to markets for small producers. After an extension, the operation will be finalized in May 2018.

- 1.5 The GoJ has requested the Bank's technical support to help design a follow-on operation to ACP. The GoJ is keen on the development of SPS capacities as part of an overall strategy for improving competitiveness, adding value, and building resilience to climate change. In addition, this TC will support the GoJ to develop a formal Agro-Park Model strategy and plan, and review Agro-parks performance.

## **II. OBJECTIVES, ACTIVITIES AND CHARACTERISTICS OF SPECIFIC TERMS OF REFERENCE**

### **A. Sector scan: analysis of the agricultural sector in Jamaica**

#### **1. Consultancy objectives**

- 1.1 The objective of the consultancy is to produce a detailed description of the agriculture sector in Jamaica—its current situation and recent evolution. This descriptive analysis will help to inform the technical dialogue for the design of the JA-L1083 program.

#### **2. Main activities**

- 2.1 Review and summarize documentation necessary for analyzing the agricultural sector in Jamaica, including reports from the Government and international organizations, academic papers, and data bases, among others.
- 2.2 Interview key official authorities and members of the academia, as needed, to discuss the structure and recent development of the agriculture sector in Jamaica as well as to obtain additional information about the sector.
- 2.3 Interview representatives from the private sector to discuss the structure and recent development of the agriculture sector in Jamaica, with a focus on the country's main agricultural value chains.
- 2.4 Support the IDB team in its dialogue with the Government of Jamaica in relation to the structure and recent development of the agriculture sector.

#### **3. Deliverables**

- 3.1 An intermediate report, which will include (i) a description of the information available and informational gaps for the sector, and (ii) an annotated outline of the final report.
- 3.2 A final report, including (but not limited to) an analysis of the following aspects:
  - Jamaica's main agricultural products—as determined by value of production, value of exports, area sown, and number of people employed.
  - Recent evolution (over the last ten or twenty years) of Jamaica's main agricultural products—value of production, value of exports, area sown, number of people employed, and productivity—and of any other previously important product that may have recently lost relative importance.
  - Number of producers by crop and size.
  - Structure of the value chains of the main products.

#### **4. Schedule of payment**

- 1.1 Payment will be made for approved deliverables according to the following schedule:
  - 20% upon signature of contract;
  - 40% upon submission and approval by the Bank of deliverable 3.1, above;
  - 40% upon submission and approval by the Bank of deliverable 3.2, above

## **2. Coordination**

- Team Leader or Coordinator: Hector Valdes Conroy (CSD/RND) and Carmine Paolo De Salvo (RND/CHA)
- Department/Division: CSD/ RND

## **3. Qualifications**

- 3.1 The consultant shall hold a Master (required) or PhD (desirable) in Agricultural Economics, Economics or related areas, and have ten years of experience conducting similar studies, or an equivalent combination of education and experience.
- 3.2 Languages: The consultant should be fluent in English.

**Our culture:** Working with us you will be surrounded by a diverse group of people who have years of experience in all types of development fields, including transportation, health, gender and diversity, communications and much more.

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

**Payment and Conditions:** Compensation will be determined in accordance with Bank's policies and procedures. The Bank, pursuant to applicable policies, may contribute toward travel and moving expenses. In addition, candidates must be citizens of an IDB member country.

**Visa and Work Permit:** The Bank, pursuant to applicable policies, may submit a visa request to the applicable immigration authorities; however, the granting of the visa is at the discretion of the immigration authorities. Notwithstanding, it is the responsibility of the candidate to obtain the necessary visa or work permits required by the authorities of the country(ies) in which the services will be rendered to the Bank. If a candidate cannot obtain a visa or work permit to render services to the Bank the contractual offer will be rescinded

**Consanguinity:** Pursuant to applicable Bank policy, candidates with relatives (including the fourth degree of consanguinity and the second degree of affinity, including spouse) working for the IDB, IDB Invest, or MIF as staff members or Complementary Workforce contractuels, will not be eligible to provide services for the Bank.

**Diversity:** The Bank is committed to diversity and inclusion and to providing equal opportunities to all candidates. We embrace diversity on the basis of gender, age, education, national origin, ethnic origin, race, disability, sexual orientation, and religion. We encourage women, Afro-descendants and persons of indigenous origins to apply.

## **B. Analysis of development constraints for the sector**

### **1. Consultancy objectives**

- 1.1 The objective of the consultancy is to identify the main development constraints of the agriculture sector in Jamaica, with a view to informing the technical dialogue for the design of a new loan program.
- 1.2 The consultant should analyze the deficiencies in infrastructure, input markets, financial markets, quality control and certification, regulatory framework, etc, and determine the extent to which each of these deficiencies affects the development of the agriculture sector.

### **2. Main activities**

- 2.1 Review and summarize documentation necessary for analyzing the agricultural sector in Jamaica, including reports from the Government and international organizations, academic papers, and data bases, among others.
- 2.2 Review the most relevant legislation determining the functioning of the agriculture sector in Jamaica.
- 2.3 Interview key official authorities and members of the academia, as needed, to discuss the main development constraints of the agriculture sector in Jamaica as well as to obtain additional information about the sector.
- 2.4 Interview representatives from the private sector to discuss the development restrictions of the agriculture sector in Jamaica.
- 2.5 Support the IDB team in its dialogue with the Government of Jamaica in relation to the main development constraints of the agriculture sector.

### **3. Deliverables**

- 3.1 An intermediate report, which will include (i) a description of the information available and informational gaps for the sector, (ii) a methodological proposal, and (iii) an annotated outline of the final report.
- 3.2 A final report, including (but not limited to) an analysis of the following aspects and their role in constraining the development of the agricultural sector:
  - Infrastructure—roads, energy, telecommunications, etc;
  - Input markets;
  - Financial markets;
  - Complementary services—e.g., animal and plant health and food safety;
  - Regulatory and policy framework;
  - Access to domestic and international markets.

### **4. Schedule of payment**

- 4.1 Payment will be made for approved deliverables according to the following schedule:
  - 20% upon signature of contract;

- 40% upon submission and approval by the Bank of deliverable 3.1, above;
- 40% upon submission and approval by the Bank of deliverable 3.2, above.

## **5. Coordination**

- Team Leader or Coordinator: Hector Valdes Conroy (CSD/RND) and Carmine Paolo De Salvo (RND/CHA)
- Department/Division: CSD/ RND

## **6. Qualifications**

- 6.1 The consultant shall hold a Master (required) or PhD (desirable) in Agricultural Economics, Economics or related areas, and have ten years of experience conducting similar studies, or an equivalent combination of education and experience.
- 6.2 Languages: The consultant should be fluent in English.



## **C. Analysis of Jamaica's policies for the agricultural sector**

### **1. Consultancy objectives**

- 1.1 The objective of the consultancy is (i) to update, review and analyze Producer Support Estimates (PSE) and related indicators; and (ii) to conduct Value Chain Analyses for the same agricultural products analyzed with the PSE methodology, developing Nominal Rate of Protection (NRP) and Effective Rate of Protection (ERP) indicators for each of those products.

### **2. Main activities**

- 2.1 Data Collection: Collect the data required to perform the PSE analysis following the OECD Manual. These information requirements include: (i) Domestic market information: Value and volume of production information for individual commodities and total agriculture at the farm gate level, Producer (farm gate) prices, Consumption data and Quantities of product used for feed use in the livestock sector, international prices and transportation costs; and (ii) Trade information: Values and volumes for both exports (FOB) and imports (CIF) of agricultural commodities and products and Tariff schedule for the country; iii) data on budget support: subsidies and other transfers across a range of the most significant supply chains both for domestic and export production, including information on preferential interest rates for estimation of support based on revenue foregone. Information should be collected on public expenditure for a) the most recent period available for the executed budget as well as b) the budget approved for the current period. Including current budget information will expedite updating the expenditure information for future years, and also is very important in identifying and adjusting current spending priorities to support key sector priorities, including potential IDB lending programs.
- 2.2 Calculate the Producer Support Estimates: (PSEs), Consumer Support Estimates (CSE) and other indicators following the OECD methodology, for the range of products selected. Two steps will be followed: A) Preparation of the PSE indicators for the most recent year for which data is available, and B) Review and correct the PSE historical data and calculation of PSE and related indicators, according to updated information that may have become available on production, prices and expenditure levels.
- 2.3 Conduct Value Chain Analyses for the same agricultural products analyzed with the PSE methodology, developing Nominal Rate of Protection (NRP) and Effective Rate of Protection (ERP) indicators for each of those products.
- 2.4 Institutional Development and Dissemination: The consultant will be expected to work in coordination with RND staff and the Ministry of Industry, Commerce, Agriculture and Fisheries, to clarify inconsistencies, gather accurate information and identify better ways to present the results. The consultant shall also disseminate PSE calculations for the region and incorporate these results into national and sector policy analyses.
- 2.5 PSE Country Technical Note: The consultant will prepare a technical note with information supporting the PSE indicators and results, including: a) the basis for the calculations to support the PSE indicators, b) reference to significant policy or programmatic changes during the year, and c) the main conclusions regarding the structure of support in the

country. The Bank will provide the consultant with an outline to facilitate preparation of the final document.

### **3. Deliverables**

- 3.1 A detailed work program to be presented to the Bank within 5 working days of the start date of the contract.
- 3.2 An Intermediate PSE Report including the following deliverables: (i) PSE calculations and a preliminary data base of the PSE, structured according to OECD methodology and IDB templates including updated information; (ii) an Intermediate Value Chain Analysis for all the products covered in the PSE analysis, with NRP and ERP for each of those products.
- 3.3 A Final PSE Report including the following deliverables: (i) final data base of the PSE, including updated information to be migrated to the IDB web system. The consultant will provide the final calculations of PSE and related indicators in OECD format; (ii) report with the main conclusions and in publishable IDB format agreed with the Bank; (iii) a Value Chain Analysis for all the products covered in the PSE analysis, with NRP and ERP for each of those products; and (iv) Information for Power Point presentation. The consultant will provide inputs for a Power Point presentation with the information required by IDB Team for a policy dialogue. All the final products will incorporate the comments and suggestions received by the IDB team on the basis of the intermediate reports.

### **4. Schedule of payment**

- 4.1 Payment will be made for approved deliverables according to the following schedule:
  - 30% upon submission and approval by the Bank of deliverable 3.1, above;
  - 30% upon submission and approval by the Bank of deliverable 3.2, above;
  - 40% upon submission and approval by the Bank of deliverable 3.3, above

### **5. Coordination**

- Team Leader or Coordinator: Hector Valdes Conroy (CSD/RND) and Carmine Paolo De Salvo (RND/CHA)
- Department/Division: CSD/ RND

### **6. Qualifications**

- 6.1 An economist and/or agricultural economist with proven experience in the implementation of the PSE methodology (at least five country case studies in the past ten years).
- 6.2 Languages: The consultant should be fluent in English.
- 6.3 Areas of expertise: Agricultural Policy Analysis.

## **D. Review of performance-based agricultural policies**

### **1. Consultancy objectives**

- 1.1 The objective of the consultancy is to conduct a review of performance-based agricultural policies to determine their effectiveness and applicability to the Jamaican context.

### **2. Main activities**

- 2.1 Review and summarize the documentation necessary for analyzing performance-based agricultural policies, including reports from international organizations, academic papers, and data bases, among others.
- 2.2 Interview key official authorities to discuss the applicability of performance-based policies for the agriculture sector in Jamaica.
- 2.3 Interview key representatives from the private sector to discuss the appetite for performance-based policies.
- 2.4 Analyze the different modalities of performance-based policies that could be put in practice in the agricultural sector in Jamaica.
- 2.5 Support the IDB team in its dialogue with the Government of Jamaica in relation to the advantages and applicability of performance-based agricultural policies.

### **3. Deliverables**

- 3.1 An intermediate report, which will include (i) a description of the information available and informational gaps for the sector, and (iii) an annotated outline of the final report.
- 3.2 A final report, including (but not limited to) the following aspects:
  - A review of performance-based agricultural policies implemented in developing countries, particularly in the Caribbean and Latin America;
  - A review of the literature on the applicability and effectiveness of performance-based policies.
  - An analysis of the different modalities of performance-based policies that could be implemented in Jamaica, based on the GOJ's capacity and the private sector needs and appetite.

### **4. Schedule of payment**

- 4.1 Payment will be made for approved deliverables according to the following schedule:
  - 20% upon signature of contract;
  - 40% upon submission and approval by the Bank of deliverable 3.1, above;
  - 40% upon submission and approval by the Bank of deliverable 3.2, above

### **5. Coordination**

- Team Leader or Coordinator: Hector Valdes Conroy (CSD/RND) and Carmine Paolo De Salvo (RND/CHA)
- Department/Division: CSD/ RND

**6. Qualifications**

- 6.1 The consultant shall hold a Master (required) or PhD (desirable) in Agricultural Economics, Economics or related areas, and have ten years of experience conducting similar studies, or an equivalent combination of education and experience.
- 6.2 Languages: The consultant should be fluent in English.

## **E. Evaluation of Agro-Parks**

### **1. Consultancy objectives**

- 1.1 The objective of this consultancy is to conduct an evaluation of the various agro-parks operating in Jamaica. The evaluation will provide crucial information for the Government of Jamaica to assess the convenience of continuing or modifying this development policy.

### **2. Main activities**

- 2.1 Review and summarize the documentation related to Jamaica's agro-parks, including reports from the Government and international organizations, academic papers, and data bases, among others.
- 2.2 Interview key official authorities to discuss Jamaica's agro-parks—their origin, objectives, implementation, and perceived results.
- 2.3 Interview stakeholders—producers, input suppliers, purchasers of products grown in agro-parks—to obtain information about the operation of agro-parks and their perceived results.
- 2.4 Evaluate the relevance of agro-parks vis-à-vis other policies as a way to promote the development of the agricultural sector in Jamaica.
- 2.5 Evaluate the effectiveness and sustainability of agro-parks.
- 2.6 Support the IDB team in its dialogue with the Government of Jamaica in relation to the agro-parks initiative.

### **3. Deliverables**

- 3.1 An intermediate report, which will include (i) a methodology for the evaluation, (ii) a list of data sources, and (iii) an annotated outline of the final report.
- 3.2 A final report, including (but not limited to) the following aspects:
  - A summary of the origin and development of agro-parks in Jamaica;
  - An assessment of the relative advantages and disadvantages of agro-parks as a tool to promote the development of the agriculture sector in Jamaica;
  - A review of their implementation—difficulties faced and implemented solutions;
  - A summary of their achievements—changes in productivity, levels of production, levels of income, etc;
  - An assessment of the financial and environmental sustainability of agro-parks.

### **4. Schedule of payment**

- 4.1 Payment will be made for approved deliverables according to the following schedule:
  - 20% upon signature of contract;
  - 40% upon submission and approval by the Bank of deliverable 3.1, above;
  - 40% upon submission and approval by the Bank of deliverable 3.2, above

### **5. Coordination**

- Team Leader or Coordinator: Hector Valdes Conroy (CSD/RND) and Carmine Paolo De Salvo (RND/CHA)
- Department/Division: CSD/ RND

## **6. Qualifications**

- 6.1 Academic Degree / Level & Years of Professional Work Experience: The contractual should hold an advanced professional degree in a relevant field such as agricultural economics, economics, policy analysis, finance or MBA; at least 10 years of experience.
- 6.2 Languages: The consultant should be fluent in English.
- 6.3 Areas of Expertise: An established track record in Monitoring and Evaluation of investment projects, particularly in the agricultural sector.
- 6.4 Skills: Monitoring and Evaluation analysis.

## **F. Agro-Park Strategy and Plan**

### **1. Consultancy objectives**

- 1.1 The objective of this consultancy is to develop an agro-park strategy and implementation plan that is especially adapted to Jamaica's context.

### **2. Main activities**

- 2.1 Review the theoretical and empirical literature on agro-parks.
- 2.2 Review all relevant documentation on Jamaica's agro-parks, including conceptual, planning and evaluative papers.
- 2.3 Interview key official authorities to discuss Jamaica's agro-parks—their origin, objectives, implementation, and perceived results.
- 2.4 Develop an agro-park strategy that includes a clear definition of what constitutes an agro-park and that meets the Government of Jamaica's development objectives.
- 2.5 Develop a plan to implement the agro-park strategy, indicating its scope and timeline.

### **3. Deliverables**

- 3.1 An intermediate report, which will include (i) a preliminary review of the literature on agro-parks, and (ii) an annotated outline of the final report.
- 3.2 A final report, including (but not limited to) the following aspects:
  - A review of the conceptual and empirical literature on agro-parks;
  - A review of the literature on agro-parks in Jamaica;
  - An agro-park strategy including:
    - A statement of development objectives consistent with those of the Government of Jamaica;
    - A clear definition of an agro-park that is consistent with the Jamaican context;
    - An explanation of how an agro-park should be formed and develop;
    - A monitoring and evaluation mechanism for an agro-park, including a clear definition of outputs and outcomes and SMART indicators to track them;
    - An identification of the potential agro-parks that could be developed in Jamaica, defining their basic characteristics;
  - An agro-park implementation plan including:
    - A schedule to consolidate existing agro-parks and to create new ones, as defined in the strategy;
    - A detailed monitoring and evaluation framework, including indicators to track output and outcome progress.

### **4. Schedule of payment**

- 4.1 Payment will be made for approved deliverables according to the following schedule:
  - 20% upon signature of contract;
  - 40% upon submission and approval by the Bank of deliverable 3.1, above;

- 40% upon submission and approval by the Bank of deliverable 3.2, above

## **5. Coordination**

- Team Leader or Coordinator: Hector Valdes Conroy (CSD/RND) and Carmine Paolo De Salvo (RND/CHA)
- Department/Division: CSD/ RND

## **6. Qualifications**

- 6.1 The consultant shall hold a Master (required) or PhD (desirable) in Agricultural Economics, Economics or related areas, and have ten years of experience conducting similar studies, or an equivalent combination of education and experience.
- 6.2 Languages: The consultant should be fluent in English.



## **G. Feasibility analysis and detailed design of proposed infrastructure works**

### **1. Consultancy objectives**

- 1.1 The consultancy will prepare the detailed designs, bill of quantities, technical specifications and bidding documents for the infrastructure works proposed in operation JA-L1083.

### **2. Main activities**

- 2.1 Prepare a work plan;
- 2.2 Survey of information in the field. The consulting firm will carry out the survey of (i) topographic sections in selected sites and (ii) cadastral surveys. The details of the information to be raised will include aspects such as:
  - a) Topographic sections in the intervention area;
  - b) Property cadastral surveys in areas where the infrastructure works will be planned
- 2.3 Prepare foundation and structural designs for the proposed works in accordance with international design codes;
- 2.4 Prepare final design drawings inclusive of site plans and detailed construction drawings for the proposed works. Component documents must include landmarks and coordinates to adequately reference their location;
- 2.5 Prepare the bills of quantities, budget, and technical specifications with specific recommendations for their timely execution so as to contribute to the planning and project management of implementation phases and organizations of local laborers;
- 2.6 Prepare bidding documents for the works utilizing the IDB Standard Bidding Documents and in compliance with the requirements of the Ministry of Works for a bidding process;
- 2.7 Verify that each type of drainage improvement works is (1) in compliance with the established parameters of existing building codes, and (2) does not generate downstream risks which would require relocation of existing settlements;
- 2.8 Prepare operation and maintenance manuals for the proposed works including staffing, tools and equipment requirements, schedules and annual budget.

### **3. Deliverables**

- 3.1 Work plan;
- 3.2 Interim report containing designs and bill of quantities;
- 3.3 Draft final report containing designs, bill of quantities and bidding documents;
- 3.4 Final report incorporating comments from the Bank and GOJ.

### **4. Schedule of payment**

- 4.1 Payment will be made for approved deliverables according to the following schedule:
  - 20% upon signature of contract;
  - 20% upon submission and approval by the Bank of deliverables 3.1 and 3.2, above;
  - 30% upon submission and approval by the Bank of deliverable 3.3, above;
  - 30% upon submission and approval by the Bank of deliverable 3.4, above.

## **5. Coordination**

- Team Leader or Coordinator: Hector Valdes Conroy (CSD/RND) and Carmine Paolo De Salvo (RND/CHA)
- Department/Division: CSD/ RND

## **6. Qualifications**

- 6.1 Qualifications: National consulting firm or consortium with demonstrated experience and in-depth expertise in the design and feasibility analysis of works similar to those proposed for operation JA-L1083 in countries with similarities to Jamaica
- 6.2 Expertise required on the team:

## **H. Ex-ante carbon footprint balance estimation of proposed investments**

### **1. Consultancy objectives**

- 1.1 The objective of the consultancy is to estimate the carbon footprint balance that the proposed investments are likely to have. The specific objectives are to identify the key categories affected by the proposed investments—main sources and sinks of greenhouse gases (GHG) in terms of absolute level, trend or contribution to uncertainty—; and to estimate the magnitude of the changes that the proposed investments will cause on the key categories' emissions and removals of GHG.

### **2. Main activities**

- 2.1 Review and summarize the documentation related to Jamaica's agricultural GHG emissions and removals, including reports from the Government and international organizations, academic papers, and data bases, among others.
- 2.2 Interview key official authorities to discuss the GHG emissions and removals from Jamaica's agricultural sector and their recent evolution.
- 2.3 Identify the proposed intervention's key categories in terms of GHG emissions or removals, either:
  - a) By consulting the national agricultural GHG inventory—if the latest available inventory was carried out on or after 2013—; or
  - b) By producing a GHG inventory for all the agricultural activities involved in the proposed intervention and following the GHG Protocol or FAO's guidelines contained in "Estimating Greenhouse Gas Emissions in Agriculture" (Tubiello, et al., 2015), as applicable.
- 2.4 In collaboration with the consultant performing the economic analysis, estimate the changes that the proposed intervention is likely to cause to the agricultural activities involved in the proposed intervention.
- 2.5 On the basis of the estimated changes in agricultural activities expected to be brought about by the proposed intervention, estimate the changes in GHG emissions or removals of all the proposed intervention's key categories.

### **3. Deliverables**

- 3.1 A work plan.
- 3.2 An intermediate report, which will include (i) a description of the information available, (ii) a description of the methodology to estimate the GHG emissions and removals from the agricultural activities involved in the proposed intervention; and (iii) an annotated outline of the final report.
- 3.3 A final report, including (but not limited to) the following aspects:
  - An identification of the main sources of GHG emissions and removals among all the agricultural activities involved in the proposed intervention;
  - An inventory of current GHG emissions and removals from those key categories;

- A qualitative and quantitative description of the estimated changes in the key categories resulting from the proposed intervention;
- A quantification of the changes in GHG emissions and removals in the key categories resulting from the proposed intervention.

#### **4. Schedule of payment**

- 4.1 Payment will be made for approved deliverables according to the following schedule:
- 20% upon submission and approval by the Bank of deliverable 3.1, above;
  - 40% upon submission and approval by the Bank of deliverable 3.2, above;
  - 40% upon submission and approval by the Bank of deliverable 3.3, above.

#### **5. Coordination**

- Team Leader or Coordinator: Hector Valdes Conroy (CSD/RND) and Carmine Paolo De Salvo (RND/CHA)
- Department/Division: CSD/ RND

#### **6. Qualifications**

- 6.1 The consultant shall hold a Master (required) or PhD (desirable) in Environmental Engineering, Agricultural Engineering, or related areas, and have ten years of experience conducting similar studies, or an equivalent combination of education and experience.
- 6.2 Languages: The consultant should be fluent in English.

## **I. Environmental and social impact Assessment**

### **1. Consultancy objectives**

- 1.1 The general objective of the consultancy is to conduct the Environmental and Social Impact Assessment of operation JA-L1083. The specific objectives are to: i) identify the potential negative impacts of the project—distinguishing between direct, indirect and cumulative impacts—as well as the measures necessary to avoid, minimize or mitigate those impacts; ii) identify the potential positive impacts and the way to potentialize them; iii) prepare an Environmental and Social Management Plan (ESMP) and adjustments to the project's activities focused on environmental and social management; iv) design an environmental and social monitoring system; and v) provide inputs for the public consultation process of the project.

### **2. Main activities**

- 2.1 Review all the relevant documentation related to the project;
- 2.2 Review the IDB's safeguard policies and identify those that apply to the project as well as the actions necessary to ensure that those policies are observed;
- 2.3 Collect all the primary information necessary to achieve the objectives of the consultancy.
- 2.4 Participate in all relevant meetings during the project missions;
- 2.5 Collaborate with the EA's and the Bank's project design teams in the preparation of all other specific issues related to social and environmental issues of the project to be incorporated in the Proposal for Operation Development (POD).

### **3. Deliverables**

- 3.1 A work plan that includes: i) a description of the methodology for the environmental analysis as well as for the preparation of the ESMP; ii) stages of the consultancy and assignment of responsibilities for their development; iii) timeline of the consultancy; and iv) coordination mechanisms between the consultancy and the EA and the Bank.
- 3.2 A report presenting the environmental analysis, including the results of the assessment of potential negative impacts of the project.
- 3.3 A report presenting the preliminary version of the ESMP and a methodology for social and environmental monitoring.
- 3.4 A report of the public participation process, including inputs for the public participation activities that may be necessary to implement as part of the environmental and social analysis of the operation.
- 3.5 A final report with the final versions of: i) Environmental Analysis; ii) ESMP; iii) methodology for social and environmental monitoring; iv) description of the way in which the results of the public consultations were incorporated into the final documents.
- 3.6 For each report, the Bank shall receive two printed copies and two electronic copies (one in pdf format and the other in MS Word, MS Excel, MS PowerPoint or any other program acceptable by the Bank). All reports shall be written in English.

#### **4. Schedule of payment**

- 4.1 Payment will be made for approved deliverables according to the following schedule:
- 20% upon signature of contract;
  - 10% upon submission and approval by the Bank of deliverable 3.1, above;
  - 20% upon submission and approval by the Bank of deliverables 3.2 and 3.3, above;
  - 50% upon submission and approval by the Bank of deliverables 3.4 and 3.5, above

#### **5. Coordination**

- Team Leader or Coordinator: Hector Valdes Conroy (CSD/RND) and Carmine Paolo De Salvo (RND/CHA)
- Department/Division: CSD/ RND

#### **6. Qualifications**

- 6.1 Academic Degree / Level & Years of Professional Work Experience: Advanced degree in a relevant field such as environmental science, biology, rural sociology, or project planning and preparation; at least 10 years of experience;
- 6.2 Languages: Fluency in oral and written English;
- 6.3 Areas of Expertise: Expertise in the field of specific experiences in environmental and social impact assessments of 10 years, preferably including projects in the agricultural sector;
- 6.4 Skills: Good knowledge of Environmental and social impact assessments.

## **J. Ex-ante economic analysis of operation**

### **1. Consultancy objectives**

- 1.1 To propose and apply a feasible methodology for a cost-benefit analysis of the program's components that demonstrates their economic viability.
- 1.2 To propose specific product, outcome, and impact indicators for each component of the program, as required by the Results Matrix, properly specifying data sources for each indicator.

### **2. Main activities**

- 2.1 Obtain and review all the relevant economic analysis literature in the context of the program;
- 2.2 Review the existing background documentation on the program;
- 2.3 Obtain all the primary and secondary information necessary to carry out the economic analysis;
- 2.4 Review the relevant documentation on the type of interventions in which the program will focus;
- 2.5 Contribute to the final definition of indicators to be included in the Results Matrix, in consultation with the staff responsible for each component;
- 2.6 Participate in the orientation and analysis missions of the program;
- 2.7 Make the final adjustments to the economic analysis that result from the agreements reached during the analysis mission.

### **3. Deliverables**

- 3.1 An initial report proposing a methodology for the economic evaluation;
- 3.2 An interim report, discussing the available data to be employed for the ex-ante economic analysis;
- 3.3 A progress report containing the economic analysis of the program. This report shall include the Excel spreadsheets with the program's cash flows and datasets employed to assess economic viability;
- 3.4 A final report including all the comments and recommendations made by the Bank team.

### **4. Schedule of payment**

- 4.1 Payment will be made for approved deliverables according to the following schedule:
  - 20% upon signature of contract;
  - 20% upon submission and approval by the Bank of deliverable 3.1, above;
  - 10% upon submission and approval by the Bank of deliverable 3.2, above;
  - 20% upon submission and approval by the Bank of deliverable 3.3, above;
  - 30% upon submission and approval by the Bank of deliverable 3.4, above.

#### **4. Coordination**

- Team Leader or Coordinator: Hector Valdes Conroy (CSD/RND) and Carmine Paolo De Salvo (RND/CHA)
- Department/Division: CSD/ RND

#### **5. Qualifications**

- 5.1 The consultant shall hold a Master in Economics or Business Administration and have ten years of experience conducting similar studies, or an equivalent combination of education and experience.
- 5.2 Languages: The consultant should be fluent in English.

6. encourage women, Afro-descendants and persons of indigenous origins to apply.



## **K. Institutional capacity analysis**

### **1. Consultancy objectives**

- 1.1 To perform an analysis of the institutional capacity of the Ministry of Industry, Commerce Agriculture and Fisheries (MICAF) to execute the above-mentioned project by using the Bank's SECI system, propose an execution scheme, and formulate the operational documents for the investment loan (JA-L1083).

### **2. Main activities**

- 2.1 Analyze the main characteristics of the investment project, based on technical reports prepared by counterparts and consultants assigned to project design and analysis.
- 2.2 Apply the Bank's SECI system for an assessment of the MICAF's accounting, financial, procurement, information and other administrative systems to determine their adequacy for Bank loan management.
- 2.3 Consolidate all of the inputs received from the respective consultants that have provided substantive specifications for the Program implementation and the M&E process. This includes inputs from specialists in: plant & animal health and food safety; the economic analysis; the environmental and social analysis specialists.
- 2.4 Assist the MICAF to devise the Project Execution Mechanisms and to develop an Action Plan for the Project Executing Unit, including updating the Program's financial management system to align it with the requirements of the project. The Action Plan should identify the human, technological and other financial resources necessary to ensure the adequate physical and financial management of the Program.
- 2.5 Work with MICAF counterparts and the respective consultants to validate the proposed design. This includes interaction with the IDB project team, leading up to including the project appraisal.
- 2.6 Develop the risk assessment with the IDB Project Team in accordance with the new guidelines of the Bank and in light of the results of the SECI analysis. This will include assistance in the conduct of the risk analysis workshop (one half day).
- 2.7 In collaboration with consultants in charge of the design and analysis of each component and the institutional analyst, consolidate necessary data to: (i) formulate a detailed budget for the investment project; (ii) detailed eighteen-month plan of operations; (iii) an schematic full period plan of operations; (iv) prepare an eighteen month procurement plan; (v) prepare a final risk matrix.
- 2.8 In collaboration with consultants in charge of the design and analysis of each component, prepare an advanced version of the project's manual of operations. Using a schematic flowchart of the functions and activities contained in the manual of operations, validate execution mechanism with government counterparts, both sector specialists as well as administrative/financial specialists, and a representative group of beneficiaries.
- 2.9 During the consultancy, maintain a close dialogue with the Government officials appointed as counterparts for this project, and with the Bank project team.

### **3. Deliverables**

- 3.1 A preliminary report including the institutional analysis, the institutional strengthening plan, a preliminary execution scheme, and a preliminary risk matrix.
- 3.2 A final report including: (i) a detailed budget for the investment project; (ii) detailed eighteen-month plan of operations; (iii) an schematic full period plan of operations; (iv) an eighteen month procurement plan; (v) final risk matrix; (vi) the final manual of operation; (vii) the final execution scheme of the operation including its budget and staff description.

### **4. Schedule of payment**

- 4.1 Payment will be made for approved deliverables according to the following schedule:
  - 20% upon signature of contract;
  - 40% upon submission and approval by the Bank of deliverable 3.1, above;
  - 40% upon submission and approval by the Bank of deliverable 3.2, above.

### **5. Coordination**

- Team Leader or Coordinator: Hector Valdes Conroy (CSD/RND) and Carmine Paolo De Salvo (RND/CHA)
- Department/Division: CSD/ RND

### **6. Qualifications**

- 6.1 Academic Degree / Level & Years of Professional Work Experience: The contractual should hold a degree in public administration and/or economics with at least 15 years of experience working on international development projects and financial analysis, monitoring and evaluation, and operating regulations.
- 6.2 Languages: Good written and verbal communication skills in English.
- 6.3 Areas of Expertise: An established track record in Institutional Analysis in investments projects, particularly in the agricultural sector.
- 6.4 Skills: Institutional analysis.

## **L. Monitoring and evaluation plan**

### **1. Consultancy objectives**

- 1.1 In collaboration with the institutional design specialist, design the investment loan monitoring system;
- 1.2 Design an impact evaluation plan for the investment loan.

### **2. Main activities**

- 2.1 Review relevant background documents and statistics related to the investment loan;
- 2.2 Support and participate in the IDB missions in the dialogue with the Government of Jamaica.

#### *Monitoring system*

- 2.3 Review the data collection and monitoring requirements. Collaborate with the Institutional Design Specialist to consolidate all the inputs received from the respective consultants that have provided substantive specifications for the M&E process.
- 2.4 Devise a monitoring plan for the investment loan. Based on the technical requirements and in collaboration with the institutional design specialist, devise a basic plan for the Monitoring system. Determine if the baseline data provided is complete and identify any gaps in the information to be completed by the technical specialists. Identify the on-going collection process that will be required to continue supplying the monitoring system with inputs on a permanent basis.
- 2.5 Design a system that fulfills the monitoring needs identified. Design a flow of information collection, analysis and delivery that fulfills the technical requirements determined by the preceding two items. Define the software and hardware specifications required to implement the monitoring system. Define the training and trouble-shooting exercises needed to assure the continued functioning and improvement of the system. Prepare the inputs required by the procurement specialists to acquire the goods, services and consulting services required to implement the monitoring system under the investment program. Prepare a budget for the Monitoring system.
- 2.6 Based on the proposed interventions and in collaboration with team members, define the research questions that will help determine the project's impacts.
- 2.7 Contribute to define, in collaboration with team members, primary and secondary impact indicators with realistic targets. The consultant will help validate targets based on analysis of existing primary and secondary data. Consistent with the operational rules of the program, indicators must show a causal relation between the program and the outcomes of interest.
- 2.8 Develop a detailed impact evaluation plan, which should include: (i) an evaluation team with defined tasks and terms of reference, including a principal investigator, field coordinator, data collection team/firm and other specialists as required by the evaluation; (ii) power calculations to determine sample sizes based on the evaluation design and desired minimum detectable effect sizes; (iii) a realistic budget estimate including the costs of data collection, consultancies, travel and dissemination; (iv) identification of primary and

secondary data sources; (v) a preliminary design of questionnaires and data collection instruments; (vi) a data collection schedule (including periodicity); (vii) proposed data documentation and storage; and (viii) a strategy for the dissemination of results.

### **3. Deliverables**

- 3.1 A preliminary report including a preliminary monitoring plan, a review of the related empirical literature, and the selected methodology for the impact evaluation of the program.
- 3.2 A final report including the monitoring plan and the impact evaluation plan of the program.

### **4. Schedule of payment**

- 4.1 Payment will be made for approved deliverables according to the following schedule:
  - 20% upon signature of contract;
  - 40% upon submission and approval by the Bank of deliverable 3.1, above;
  - 40% upon submission and approval by the Bank of deliverable 3.2, above.

### **5. Coordination**

- Team Leader or Coordinator: Hector Valdes Conroy (CSD/RND) and Carmine Paolo De Salvo (RND/CHA)
- Department/Division: CSD/ RND

### **6. Qualifications**

- 6.1 Academic Degree / Level & Years of Professional Work Experience: The contractual should hold an advanced professional degree in a relevant field such as agricultural economics, economics, policy analysis, finance or MBA; at least 10 years of experience.
- 6.2 Languages: The consultant should be fluent in English.
- 6.3 Areas of Expertise: An established track record in Monitoring and Evaluation of investment projects, particularly in the agricultural sector.
- 6.4 Skills: Monitoring and Evaluation analysis.

