

Technical Cooperation Document

I. Basic Information for TC

▪ Country/Region:	Suriname
▪ TC Name:	Urban Adaptation to Climate Change in Paramaribo
▪ TC Number:	SU-T1098
▪ Team Leader/Members:	Jesus Navarrete, Team Leader (CSD/HUD); Alfred Grünwaldt, Alternate Team Leader (CSD/CCS); Luis Schloeter, Stephanie Van Doorn, Dianela Avila, Alejandra Aguilar (CSD/HUD); Maricarmen Esquivel (CSD/CCS); Hori Tsuneki, Yuri Chakalall (CSD/RND); Mariska Tjon A Loi (FMP/CSU); Betina Hennig (LEG/LEG); and Natasha Kate Ward and David Baringo (VPS/ESG).
▪ Taxonomy:	Operational Support
▪ Operation Supported by the TC:	SU-G1003 and SU-L1046
▪ Date of TC Abstract authorization:	09/08/2017
▪ Beneficiary:	Republic of Suriname through the Ministry of Public Works, Transport and Communication
▪ Executing Agency and contact name:	Inter-American Development Bank (IDB) through the Housing and Urban Development Division (CSD/HUD)
▪ Donors providing funding:	Ordinary Capital Strategic Development Program for Sustainability (SUS)
▪ IDB Funding Requested:	US\$220,000
▪ Local counterpart funding:	N/A
▪ Disbursement period (which includes execution period):	24 months
▪ Required start date:	11/01/2017
▪ Types of consultants:	Firms and individual consultants
▪ Prepared by Unit:	Housing and Urban Development Division (CSD/HUD) Climate Change and Sustainability Division (CSD/CCS)
▪ Unit of Disbursement Responsibility:	Climate Change and Sustainable Development Sector (CSD/CSD)
▪ TC Included in Country Strategy:	Yes
▪ TC included in CPD:	No
▪ Alignment to the Update to the Institutional Strategy 2010-2020:	(i) Social inclusion and equality; and (ii) climate change and environmental sustainability

II. Description of the Associated Non-reimbursable Investment Grant and Loan

- 2.1 The Urban Investments for the Resilience of Paramaribo (SU-G1003) is a non-reimbursable investment grant operation that seeks to contribute to the adaptive capacity of communities living in the city Paramaribo and adjacent vulnerable urban areas to cope with observed and anticipated impacts of climate change on floods and sea level rise. The program has the following components: (a) Component 1. City-level Adaptation Framework and Plan, which will develop a city level adaptation plan to build climate resilience in the city in line with a long-term adaptation process, and framework for managing knowledge; (b) Component 2. Downtown Adaptation Measures, that will finance: (i) construction of a levee wall to prevent flooding and erosion along the left bank of Suriname River; (ii) deployment of different alternatives of green infrastructure along the west bank of the Suriname River; (iii) improvement of the historic Downtown

drainage canal; and (iv) design and implementation of a Drainage Maintenance Plan for urban Paramaribo; and (c) Component 3. Capacity Building, that will support: (i) training plans and materials for key stakeholders in Paramaribo in adaptation planning and management; (ii) technical workshops to technical and managerial staff on the implementation of the Adaptation Plan; (iii) dissemination workshops for the general public; and (iv) institutional evaluation to identify actions to enhance the Government's capacity to mainstream climate change and adaptation into policies, regulations and development planning.

- 2.2 The Urban Investments for the Resilience of Paramaribo (SU-G1003) is complementary to the Paramaribo Urban Rehabilitation Program (SU-L1046), which is an investment loan that seeks to revert the current situation of decay, contributing to the revitalization of Paramaribo's World Heritage Site (WHS) located in the city center and representing a socio-economically and environmentally sustainable development model for integrated and multi-sectorial urban infrastructure. Such program comprises the following components: (a) Component 1. Urban Interventions, which includes: (i) redevelopment of public spaces, specifically designing and implementing the Waterfront Master Plan, an urban corridor connecting Fort Zeelandia and the central market adjacent to the historic center; (ii) improvement in urban mobility infrastructure (alternative transit corridors, street and sidewalks improvement, introduction of a multi-modal system of transportation, reorganization of parking infrastructure); and (iii) rehabilitation of key heritage buildings, piloting new models for housing production and business development; (b) Component 2. Residential and Business Development, that includes: (i) financial instruments to incentivize the participation of the private sector in the renovation of deteriorated buildings, (ii) pilot housing projects; (iii) pilot private business development projects; and (c) Component 3 – Institutional Strengthening, that includes: (i) supporting to the executing agency; (ii) development of planning instruments for the Paramaribo World Heritage Site management; and (iii) development of communication and social engagement strategy. This operation introduces green technology as part of its infrastructure designs.

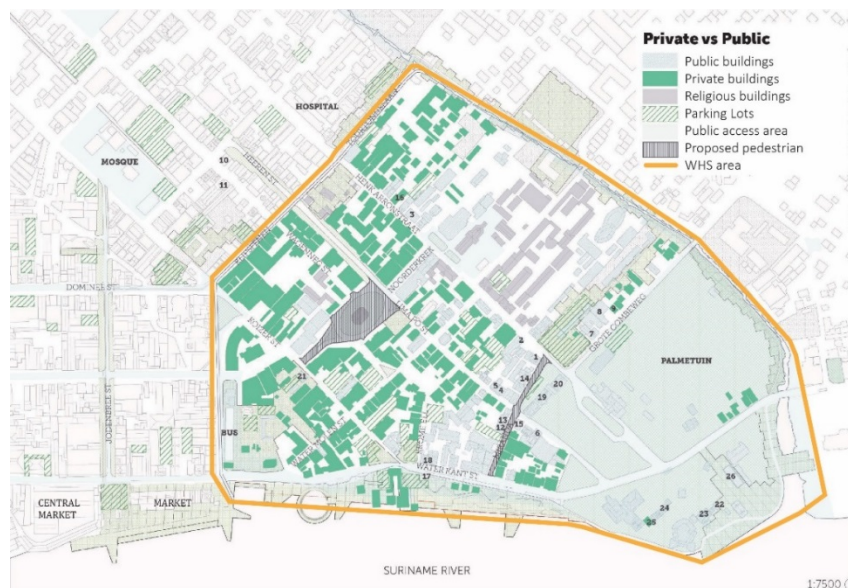


Figure 1: Project area – World Heritage Site

- 2.3 The climate vulnerability and risk analyses developed under the implementation of the Emerging and Sustainable Cities Program (ESC) (SU-T1081), and the Environmental and Social Assessment conducted for SU-L1046 highlights that the project area is highly vulnerable to flooding, mainly as a result of sea level rise, more intense and frequent precipitation associated to the effects of climate change, and an undersized and poorly maintained drainage system. This situation is expected to deteriorate even further in the context of climate change. And while the Urban Rehabilitation Program is not anticipated to worsen or intensify the natural risks, it will introduce more visitors and residents into the areas of higher risk, as well as bring new infrastructure and construction, thereby increasing the exposure profile.
- 2.4 As a result, it is critical to identify a comprehensive approach for flood mitigation that is compatible with the operation Paramaribo Urban Rehabilitation Program (SU-L1046). To this end, the Bank is preparing the operation SU-G1003, which expects to fund critical climate change adaptation measures within the WHS.
- 2.5 This Technical Cooperation (TC) aims to support the preparation of feasibility studies for prioritized adaptation interventions and develop full project and program funding applications to mobilize international climate funds to support their execution.

III. Objectives and Justification of the TC

- 3.1. The main objective of this Technical Cooperation (TC) is to help mainstream climate change adaptation into urban infrastructure planning and development in Paramaribo's WHS to reduce its vulnerability to flooding. It will do this primarily by supporting the preparation of technical studies, the findings and outputs of which will also be used to prepare sound financing proposals. More specifically, it will: (i) co-finance feasibility studies and pre-engineering designs for critical adaptation projects; and (ii) prepare full project and program funding proposals to mobilize international assistance funds to finance or co-finance climate resilience activities aligned with the Paramaribo Urban Rehabilitation Program (SU-L1046) and the Urban Investments for the Resilience of Paramaribo (SU-G1003).
- 3.2. Climate change has been increasingly considered as one of humanity's most pressing developmental challenges. Scientific research underlines that anthropogenic climate change has been taking place over the last century, causing earth's temperature to rise.¹ The scientific community attributes the increased probability of extreme weather and climate events to the latter. In turn, this has had devastating consequences particularly for developing countries.
- 3.3. Latin American and Caribbean countries, for example, are among the most vulnerable to the effects of climate change, due to the region's geography, climate, socioeconomic conditions and demographic factors. Although LAC contributes only a small proportion of total anthropogenic greenhouse gas emissions (between 4% and 5%)², the Economic Commission for Latin America and the Caribbean (ECLAC) estimates that total economic costs of climate change for the region could be between 1.5% and 5% of the region's 2015 GDP.³ On the other hand, IDB finds that damages in the region caused by the impacts associated with a rise of two degrees over pre-industrial temperatures will likely approach US\$100 billion a year by

¹ [IPCC Fifth Assessment Report \(2014\)](#)

² [Adapting Cities to Climate Change: Understanding and Addressing Development Challenges \(2009\)](#)

³ [The Economics of Climate Change in Latin America and the Caribbean \(2015\)](#)

2050⁴. In sum, the costs of climate change could significantly undermine the region's capacity to meet the Sustainable Development Goals, and could potentially reverse progress made over the last decades on human development and economic growth.

- 3.4. In this context, it is critical to recognize that cities in LAC – where 80% of the population is concentrated – are hotspots of vulnerability to floods, heat waves, and other hazards that climate change is expected to exacerbate.⁵ The frequency of weather-related disasters in the region's cities has increased more than twofold between 1970 and 2005.⁶ These include increasingly destructive hurricanes such as Mitch (1998) and Wilma (2005), and two intense episodes of *El Niño*, which, together with land use changes, resulted in floods, droughts, landslides, mudslides and other disasters impacting the livelihood of urban dwellers, and disrupting urban infrastructure services and local economic activities.
- 3.5. Of concern is Paramaribo, the capital of Suriname, which is in a low coastal zone. This city, which is home to 70% of the country's population, is vulnerable to extreme weather conditions, sea-level rise, stronger storms and other seaward hazards induced by climate change.⁷ Floods are expected to increase in both frequency and intensity in coastal areas, which could lead to the (i) destruction of properties and urban infrastructure; (ii) contamination of water sources; (iii) water logging; (iv) loss of business and livelihood options; and (v) increase in water-borne and water-related diseases.⁸
- 3.6. A follow-up to the Netherlands Climate Assistance Program (NCAP-1), the study "Promotion of Sustainable Livelihood within the Coastal Zone of Suriname, with Emphasis on Greater Paramaribo and in the Immediate Region", known as the Netherlands Climate Assistant Programme Phase 2 (NCAP-2), demonstrated that a significant part of the Paramaribo area is highly vulnerable to natural hazards (Naipal and Tas, 2016). For example, it cites that along the riverbank of the Suriname River and in the southern part of the Paramaribo/Wanica area, the ground level is low, varying between 1.50 to 1.80m NSP, whereas the 1 in 10-year high water in the Suriname River is 1.93m at the north of Paramaribo and 2.00m near the center and south of the city. Frequent and intense flooding in this area, which includes the city's Historic Center, as mentioned above, has been confirmed by the climate vulnerability and risk analyses performed by SU-T1081 and SU-L1046.
- 3.7. The Ministry of Public Works estimates that 13% of the total urban area of Paramaribo was affected by flooding in 2002, causing economic damage and health conditions associated with stagnant water. Thus, it is paramount to identify, prioritize and deliver climate change adaptation projects to help build climate resilience in Paramaribo's WHS. To this end, the Government of Suriname has requested assistance from the Bank to identify and assess flood mitigation actions for Paramaribo to serve as technical and operational inputs for the operation SU-L1046.
- 3.8. This TC is consistent with the Bank's Update to the Institutional Strategy 2010-2020 (AB-3008), as it will help provide climate-resilient infrastructure contributing towards

⁴ [The Climate and Development Challenge for Latin America and the Caribbean: Options for Climate-Resilient, Low-Carbon Development \(2013\)](#)

⁵ [Latin American Cities and Climate Change: Challenges and options to mitigation and adaptation responses \(2011\)](#)

⁶ [The Challenge of Climate Change in Latin America \(2008\)](#)

⁷ [The rising tide: assessing the risks of climate change and human settlements in low elevation coastal zones \(2007\)](#)

⁸ [IPCC Fifth Assessment Report – Chapter 8 \(2014\)](#)

its sustainable service; support national efforts to address economic and social impacts of climate change in cities and their metropolitan areas; illustrate costs and benefits of climate-resilient measures in coastal cities and provide examples of how adaptation can be included within urban planning and development programs. Furthermore, this TC is also aligned with the social inclusion and equality theme, as it will help assess the feasibility of critical climate change adaptation projects that will benefit low-income residents and business owners that operate within Paramaribo's WHS. Lastly, this TC is aligned with the objectives of the Sustainability Results Framework (GN-2819-1). Specifically, it will help to expand the knowledge base on how to address climate change by generating operational inputs (feasibility studies) for adaptation activities.

- 3.9. Furthermore, this TC would also support the goal of Inter-American Development Bank Group (IDBG) of increasing the financing of climate change related projects in LAC to 30% by providing CSD/HUD with critical insight and inputs to identify, plan and design climate change adaptation projects for cities.

IV. Description of Activities/Components and Budget

- 4.1 The proposed program has two components described below.
- 4.2 **Component 1. Development of feasibility studies and pre-engineering designs for Paramaribo's World Heritage Site adaptation projects (US\$190,000).** This component will co-finance feasibility studies and designs for prioritized climate change adaptation projects in Paramaribo's WHS, based on the pre-feasibility studies conducted under SU-T1081.⁹ This includes: (i) elaborating potential conceptual designs and assess the parametric costs of the downtown adaptation measures; (ii) preparing a cost-benefit analysis to compare and contrast a number of potentially-applicable downtown adaptation measures options; (iii) conducting focused feasibility studies and developing pre-engineering designs for the selected downtown adaptation measures, including floodwall, green infrastructure and drainage system; (iv) conducting a final cost-benefit analysis for the selected downtown adaptation measures based on the feasibility studies; (v) identifying biodiversity measures to be implemented as green infrastructure, and assess direct and indirect benefits; (vi) preparing project specific environmental and social impact assessments for the identified projects (floodwall, green infrastructure and drainage system); and (vii) conducting a gap analysis of national standards and regulations (e.g. environmental impact assessment legislation, coastal management regulations, building codes, etc.).
- 4.3 **Component 2. Development of full project and program funding applications for international climate change adaptation funds (US\$30,000).** This component seeks to help Paramaribo mobilize international funding to finance or co-finance critical adaptation solutions for urban development projects within the city's World Heritage Site. This includes a comprehensive review of available assistance funds for climate change adaptation; screening processes to align projects to funds; and preparing full proposals that can be readily submitted by the IDB as an implementing agency. For

⁹ Pre-feasibility studies (Phase I) for climate change adaptation projects are underway with funding from SU-T1081, as an ESC pre-investment study. More specifically, SU-T1081 is supporting the conceptual design and screening and prioritization processes of potential adaptation measures for the downtown area, based on climate change data and risk reports conducted under SU-T1081. This TC, SU-T1098, in turn, will finance the subsequent feasibility studies (Phase II), including detailed technical and engineering designs, which are required for SU-G1003.

example, through the Adaptation Fund, Green Climate Fund or Global Environmental Facility. An individual contractual will be selected to prepare comprehensive proposals to international climate change adaptation funds.

- 4.4 For example, the Bank, on behalf of the Government of Suriname, recently submitted a Concept Note to the Adaptation Fund for the Urban Investments for the Resilience of Paramaribo Program.¹⁰ Nevertheless, a full project proposal still must be prepared to secure the grant funds from the Adaptation Fund.

Indicative Budget

- 4.5 The estimated total cost for the proposed project is US\$220,000, which will be financed with resources from the IDB Ordinary Capital Strategic Development Program for Sustainability (SUS)..

Indicative Budget (Values in US\$)			
Activity/Component	IDB Funding	Counterpart Funding	Total Funding
Component 1. Development of feasibility studies and pre-engineering designs for Paramaribo's World Heritage Site adaptation projects	190,000	0	190,000
Component 2. Development of full project and program funding applications for international climate change adaptation funds	30,000	0	30,000
Total	220,000	0	220,000

V. Executing Agency and Execution Structure

- 5.1 The Inter-American Development Bank will be the executing agency of this operation since the requesting entity does not have the necessary technical, operational and institutional capacity to duly and timely execute the activities proposed in the TC. The Bank's Housing and Urban Development Division (CSD/HUD) will be responsible for the technical supervision of this operation. This will be closely coordinated with the Climate Change and Sustainability Division (CSD/CCS), Environment, Rural Development Disaster Risk Management Division (CSD/RND), Environmental and Social Safeguards Unit (VPS/ESG) and other relevant Bank divisions as required. Disbursements will be done from IDB Headquarters with the support of IDB's Administrative Services and Corporate Procurement Division.
- 5.2 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 Potential risks include: (i) Delays in the formulation of government agreement on what adaptation measures should be prioritized and how they should be sequenced - mitigated by proactivity and incentivization under the existing IDB Loan (3905/OC-SU); (ii) unavailability of data for conducting critical analyses and costing that are part of the technical studies – mitigated by ex-ante confirmation of data

¹⁰ The Concept Note was endorsed by the Adaptation Fund's Board on March 27, 2017.

availability and building in critical primary data collection into the TORs for the Technical Studies; (iii) dynamism or ambiguity in the protocols for grant applications and/or uncertainty over the continuity of some of the climate/adaptation funds - mitigated by targeting funding proposals to only those funds with stable protocols and capitalization; and (iv) low capacity in the Government of Suriname to provide the required technical guidance and counterpart engagement in the conduct of the Technical Studies and preparation of the designs – mitigated by capacity strengthening initiatives under the Paramaribo Urban Rehabilitation Program (SU-L1046).

VII. Exceptions to Bank policy

- 7.1 No exceptions to Bank policy have been identified.

VIII. Environmental and Social Strategy

- 8.1 This TC has been classified as Category “[B](#)” for its environmental and social impacts and risks, given that it is granting operational support to an investment loan (SU-L1046) and to a non-reimbursable investment operation (SU-G1003) and, therefore, should carry the same impact categorization of such operations. Notwithstanding this, the direct impacts and risks associated with the activities under this TC are minimal. The project specific Environmental and Social Impact Assessment to be prepared for this TC will ensure that the investment loan (SU-L1046) and the non-reimbursable investment operation (SU-G1003) will comply with the Bank’s safeguard requirements. The Environmental and Social Impact Assessment for SU-L1046 can be accessed [here](#).

Required Annexes:

- [Request from the client](#)
- [Results Matrix](#)
- [Terms of Reference](#)
- [Procurement Plan](#)



**MINISTERIE
VAN
FINANCIËN**

Tamarindelaan # 03
Onafhankelijkheidsplein
Paramaribo-Suriname
T: 597 472610 / F: 597 476314
E: secmin@finance.gov.sr

Paramaribo, November 24, 2017

Mister C. Falconi
Representative Inter- American Development Bank
Country Office Suriname
Peter Bruneslaan 2- 4
Paramaribo

Our Ref. No : IS/2170315 /rr

Enclosure(s) : —

Subject : Draft Technical Cooperation (TC) Profile for Urban Adaptation to Climate Change
in Paramaribo

Dear mr. Falconi,

We write in response to your letter dated November 07, 2017, regarding the subject stated above.

Based on our review, please be informed that we approve the 'Draft Technical Cooperation Profile for Urban Adaptation to Climate Change in Paramaribo', provided that the current name of the Ministry of Public Works, Transport & Communication is incorporated in the final TC document.

We thank you for your continued cooperation.

Yours sincerely,

Drs. Iris Sandel, MPA
Permanent Secretary
Planning and Development Finance



**MINISTERIE
VAN
FINANCIËN**

Tamarindelaan # 03
Onafhankelijkheidsplein
Paramaribo-Suriname
T: 597 472610 / F: 597 476314
E: secmin@finance.gov.sr

La F. No. 3441

Paramaribo, June 05, 2017

**Mister C. Falconi
Representative Inter-American Development Bank
Country Office Suriname
Peter Brunetlaan
Paramaribo**

Subject : Request Technical Cooperation for preparation of the project 'Urban Investments for the Resilience of Paramaribo'

Dear mr. Falconi,

Herewith the Ministry of Finance, as the representative of the Government of Suriname, wishes to request a technical cooperation to support the preparation of the project 'Urban Investments for the Resilience of Paramaribo'.

The abovementioned project will be submitted to the Adaptation Fund, in order to receive an investment grant. A project proposal will be prepared based on technical studies in the areas such as hydraulics and pre-engineering designs.

The executing agency for this project will be the Ministry of Public Works, Transport and Communication.

We look forward to working closely with the Bank for this Technical Cooperation.

Yours sincerely,


G. Hoefdraad
Minister



CABINET of the PRESIDENT
of the REPUBLIC of SURINAME

Phone: (+597) 471216

E-mail: secretaris.chefstaf@president.gov.sr

Letter of Endorsement

NCEM/001/2017

Paramaribo, January 09 , 2017

To: The Adaptation Fund Board
c/o Adaptation Fund Board Secretariat
Email: Secretariat@Adaptation-Fund.org
Fax: 202 522 3240/5

Subject: Endorsement for Urban Investments for the Resilience of Paramaribo: Building adaptive capacity of Paramaribo communities to climate change-related floods and sea level rise through strategic urban planning and sustainable infrastructure investments.

In my capacity as designated authority for the Adaptation Fund in Suriname, I confirm that the above mentioned national project/programme proposal is in accordance with the government's national and regional priorities in implementing adaptation activities to reduce adverse impacts of, and risks, posed by climate change in the Republic of Suriname.

Accordingly, I am pleased to endorse the above mentioned project/programme proposal with support from the Adaptation Fund. If approved, the project/programme will be implemented by the Inter-American Development Bank and executed by the Ministry of Public Works.

Sincerely,

Winston G. Lackin,

A handwritten signature in blue ink, appearing to read 'W. Lackin', is written over a horizontal line.

Designated Authority for Suriname,
Member of the High Council of Advisors to
the President of the Republic of Suriname.



Results Matrix

Outcomes

Outcome: 1 Paramaribo has incorporated climate change adaptation measures as part of the Government's Policy Agenda								
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification		2018	EOP
1.1 Paramaribo has incorporated climate change adaptation measures as part of the Government's Policy Agenda based on the feasibility studies, reducing the city's vulnerability to flooding.		Plans#	0.00	2017	Final report of TC	P	1.00	1.00
						P(a)	0.00	1.00
						A		

RF - Contribution

Outputs: Annual Physical and Financial Progress

1 Development of feasibility studies and pre-engineering designs for Paramaribo's downtown adaptation projects						Physical Progress			Financial Progress							
Outputs	Output Description	Unit of Measure	Baseline	Baseline Year	Means of verification	2017	2018	EOP	2017	2018	EOP	Theme	Fund	Flags		
1.1 Feasibility study completed	Project preparation: Feasibility studies	Studies (#)	0	2017	Approved feasibility report	P	0	1	1	P	110000	80000	Sustainable Cities	SUS		
						P(a)	0	0	0	P(a)						0
						A				A						
2 Development of full project and program funding applications for international climate change adaptation funds						Physical Progress			Financial Progress							
Outputs	Output Description	Unit of Measure	Baseline	Baseline Year	Means of verification	2017	2018	EOP	2017	2018	EOP	Theme	Fund	Flags		
2.1 Project proposal developed	Climate change adaptation study	Proposals (#)	0	2017	Approved project proposal	P	0	1	1	P	15000	15000	Sustainable Cities	SUS		
						P(a)	0		0	P(a)						0
						A				A						

Other Cost

Total Cost

	2017	2018	Total Cost
P	\$125,000.00	\$95,000.00	\$220,000.00
P(a)			
A			

CRF Indicator

Standard Output Indicator

Terms of Reference		
	Name of Consultancy	Electronic link Ez-Share
Component 1		
Annex III - 1	Support the development of a Full Proposal Document to the Adaptation Fund for Urban Investments for the Resilience of Paramaribo (Phase II)	EZSHARE-1933958270-4
Component 2		
Annex III - 2	Support the preparation of full project and funding proposals for climate change funds	EZSHARE-1933958270-6

ANNEX A

SURINAME

CSD

HUD/CCS

Support the preparation of full project and funding proposals for climate change funds

TERMS OF REFERENCE

Background

Established in 1959, the Inter-American Development Bank (IDB) is the main source of multilateral 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 member countries.

Paramaribo's Climate Change Challenge

The Emerging and Sustainable Cities Program (ESC) (SU-T1081) and the Paramaribo Urban Rehabilitation Program (SU-L1046) identified climate change as a critical issue in the city. The Environmental and Social Assessment prepared for SU-L1046, highlights that the urban area of Paramaribo is considered highly vulnerable to floods due to sea level rise and increasing of intensity of precipitation and loss of land due to coastal and riverbank erosion. At the east side of Paramaribo City flows the Suriname River, which is a tidal influenced river with a catchment area of 16,500 square kilometers (km²).

Inland and coastal flooding in urban areas of Paramaribo is produced from high volume of precipitation, poor drainage, and rising sea and river water levels. According to the Ministry of Public Works (2002), in 2002, approximately 13% of the total urban area of Paramaribo was affected by this hazard causing economic damage and health conditions associated with stagnant water. The most recent severe floods in Paramaribo occurred in 2006 and 2008 but no records of economic or lives losses were available. Floods in Paramaribo are principally caused because large parts of the city were built on low-lying lands and the lack of an updated stormwater drainage system. The SU-L1046 Program's area is prone to floods because it is located at low-lying lands and it is part of the left bank of the Suriname River. This river is tidal influenced and when high water level of the Suriname River is combined with runoff from impermeable areas produce floods affecting properties within the Program's study area.

International Funding to Support Adaptation Actions in Paramaribo

In this context, the IDB HUD/CCS project team prepared and submitted a concept note proposal for Paramaribo (Annex I) to the Adaptation Fund¹. The main objective of the project is to contribute towards increasing the adaptive capacity of communities living in the Paramaribo city and

¹ The Adaptation Fund is an international organization that finances projects and programs to help vulnerable communities in developing countries adapt to climate change.

adjacent metropolitan vulnerable areas to cope with observed and anticipated impacts of climate change on floods and sea level rise. It seeks to complement IDB operation SU-L1046.

The specific objectives of this proposed project are to:

- i. Implement a group of strategic and cost-effective adaptation hard measures in the historic downtown area of Paramaribo that illustrate the benefits of building climate resilience as part of a long-term planning strategy for the city and its metropolitan area;
- ii. Establish a framework for managing knowledge and disseminating lessons learned that could be used in future resilience programs for the city of Paramaribo and that could be part of a city-level Adaptation Plan;
- iii. Build capacity across local communities and GoS stakeholders responsible for decision making in Paramaribo to ensure strong implementation and enforcement of the Adaptation Plan; and
- iv. Ensure there is a robust plan and implementation structure to allow the Proposed Project to be implemented, monitored, evaluated and lessons learned disseminated.

In March 2017, the Adaptation Fund Board, at its twenty-ninth meeting in Bonn, Germany, agreed to endorse the project concept. Along with the endorsement, the Board also included a list of observations that need be addressed in the full proposal document (Annex II).

The Bank is now looking to hire an individual contractual to develop to prepare the full proposal to the Adaptation Fund.

Consultancy objective(s)

The main objective of this consultancy is to build on the concept note for the project “Urban Investments for the Resilience of Paramaribo” and prepare a fully-developed proposal, as defined by the Adaptation Fund, that can be submitted by the IDB to the Adaptation Fund Board to apply for funding. The proposal document must address the comments included in the Adaptation Fund’s project review sheet. The contractual is also expected to provide technical support during the preparation of the feasibility studies by reviewing the deliverables of the consultancy “Support the development of a Full Proposal Document to the Adaptation Fund for Urban Investments for the Resilience of Paramaribo (Phase II)” and examine alternative funding opportunities with other international green funds.

Main activities

To meet the objectives described above, the contractual will perform the following activities:

1. Review the Concept Note and the Full Proposal Document Requirements.

The selected candidate is required to review the Concept Note and all relevant studies to become familiar with the project. The contractual will also review the comments sheet submitted by the Adaptation Fund’s Board to the IDB.

After learning the specifics about the project, the contractual must examine the requirements set forth by the Adaptation Fund on how to complete the full proposal document. This includes reviewing the project proposal materials (i.e. program review criteria, environment and social policy). The contractual must also review other project

proposals endorsed by the Adaptation Fund that share characteristics with the Paramaribo climate change adaptation project.

2. Provide Technical Support in the Preparation of Feasibility Studies.

The contractual is required to provide technical support in the preparation of the feasibility studies that are associated with the preparation of Adaptation Fund's Full Proposal. This includes drafting terms of reference, supporting procurement processes, overseeing the progress of the studies, and providing feedback on technical reports. The selected candidate will ensure that the feasibility studies meet the requirements of the Adaptation Fund, including economic evaluations and environmental and social safeguards.

3. Prepare the Full Project Document for the Adaptation Fund.

In close collaboration with IDB team members, the contractual will draft the full proposal for the adaptation fund, including Part I (Project/Programme Information), Part II (Project / Programme Justification) and Part III (Implementation Arrangements). Any required annexes must also be drafted by the contractual.

4. Research International Green Funds for Climate Change

The contractual will also strategically review and analyze potential funding opportunities through other international climate change funds. This includes performing a screening process to prioritize funds that are aligned with the scope of this project and its future phases. In this regard, the contractual is required to prepare a concept note that can be readily submitted by the IDB as an implementing agency to other international funds.

Reports / Deliverables

- Work Plan with a detailed timetable and activities.
- Report on Feasibility Studies, which includes relevant terms of reference and technical feedback on the quality of studies.
- Full Project Document for the Adaptation Fund.
- Report on International Green Funds for Climate Change and Concept Note Proposal for future project phases.

Every report must be submitted to the Bank in an electronic file. The report should include cover, main document, and all annexes. Zip files will not be accepted as final reports, due to Records Management Section regulations.

Payment Schedule

Payment will be made according to the following schedule, provided the prior approval and total satisfaction of the IDB of the following products:

- 20% upon signature of contract and approval of the Work Plan;
- 30% upon submission and approval of the Feasibility Studies report;
- 30% upon submission and approval of the Full Project Document for the Adaptation Fund;
- 20% upon submission and approval of the report on international green funds for climate change and concept note proposal.

Qualifications

Academic Degree/level and years of professional experience: Master's degree in urban planning, urban economics, climate change, international development, economics, international relations, or similar related field with an interdisciplinary approach. Minimum five years of experience in working in international development project planning. Experience in grant writing is a plus.

Languages: Full command of English is required. Proficiency in an additional Official IDB language is desirable.

Areas of Expertise: international development, Suriname/LAC, international development project planning, grant writing.

Skills: data collection and indicator analysis; excellent written and oral communication in English; cultural sensitivity; ability to liaise with a variety of actors, including local and national government authorities, civil society organizations, and staff of multilateral organizations.

Characteristics of the Consultancy

- Consultancy category and modality: Products and External Services Contractual, Lump Sum
- Contract duration: 6 months
- Place(s) of work: External consultancy, with at least three field visits to Paramaribo, Suriname are required.
- Division Leader or Coordinator: Jesus Navarrete, (CSD/HUD) in coordination with Alfred Grunwaldt (CSD/CCS) and Luis Schloeter (CSD/HUD).

Payment and Conditions: Compensation will be determined in accordance with Bank's policies and procedures. In addition, candidates must be citizens of an IDB member country.

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 Bank 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, religion, and HIV/AIDs status. We encourage women, Afro-descendants and persons of indigenous origins to apply.

ANNEX A

SURINAME

CSD

HUD/CCS

Support the development of a Full Proposal Document to the Adaptation Fund for Urban Investments for the Resilience of Paramaribo (Phase II)

TERMS OF REFERENCE

Background

Established in 1959, the Inter-American Development Bank (IDB) is the main source of multilateral 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 member countries.

Paramaribo's Climate Change Challenge

The Emerging and Sustainable Cities Program (ESC) (SU-T1081) and the Paramaribo Urban Rehabilitation Program (SU-L1046) identified climate change as a critical issue in the city. The Environmental and Social Assessment prepared for SU-L1046, highlights that the urban area of Paramaribo is considered highly vulnerable to floods due to sea level rise and increasing of intensity of precipitation and loss of land due to coastal and riverbank erosion. At the east side of Paramaribo City flows the Suriname River, which is a tidal influenced river with a catchment area of 16,500 square kilometers (km²).

Inland and coastal flooding in urban areas of Paramaribo is produced from high volume of precipitation, poor drainage, and rising sea and river water levels. According to the Ministry of Public Works (2002), in 2002, approximately 13% of the total urban area of Paramaribo was affected by this hazard causing economic damage and health conditions associated with stagnant water. The most recent severe floods in Paramaribo occurred in 2006 and 2008 but no records of economic or lives losses were available. Floods in Paramaribo are principally caused because large parts of the city were built on low-lying lands and the lack of an updated stormwater drainage system. The SU-L1046 Program's area is prone to floods because it is located at low-lying lands and it is part of the left bank of the Suriname River. This river is tidal influenced and when high water level of the Suriname River is combined with runoff from impermeable areas produce floods affecting properties within the Program's study area.

International Funding to Support Adaptation Actions in Paramaribo

In this context, the IDB HUD/CCS project team prepared and submitted a concept note proposal for Paramaribo (Annex I) to the Adaptation Fund¹. The main objective of the project is to contribute towards increasing the adaptive capacity of communities living in the Paramaribo city and

¹ The Adaptation Fund is an international organization that finances projects and programs to help vulnerable communities in developing countries adapt to climate change.

adjacent metropolitan vulnerable areas to cope with observed and anticipated impacts of climate change on floods and sea level rise. It seeks to complement IDB operation SU-L1046.

The specific objectives of this proposed project are to:

- i. Implement a group of strategic and cost-effective adaptation hard measures in the historic downtown area of Paramaribo that illustrate the benefits of building climate resilience as part of a long-term planning strategy for the city and its metropolitan area;
- ii. Establish a framework for managing knowledge and disseminating lessons learned that could be used in future resilience programs for the city of Paramaribo and that could be part of a city-level Adaptation Plan;
- iii. Build capacity across local communities and GoS stakeholders responsible for decision making in Paramaribo to ensure strong implementation and enforcement of the Adaptation Plan; and
- iv. Ensure there is a robust plan and implementation structure to allow the Proposed Project to be implemented, monitored, evaluated and lessons learned disseminated.

In March 2017, the Adaptation Fund Board, at its twenty-ninth meeting in Bonn, Germany, agreed to endorse the project concept. Along with the endorsement, the Board also included a list of observations that need be addressed in the full proposal document (Annex II).

The Bank is now looking to contract a consulting firm to conduct the required feasibility studies.

Project Area

The Adaptation Fund project area includes the Historic Center of Paramaribo. The specific boundaries are defined by the map below:



Figure 1: Project Area

Consultancy objective(s)

The main objective of this consultancy is to build on the concept note for the project “Urban Investments for the Resilience of Paramaribo” and prepare the feasibility studies for climate

change adaptation measures that are compatible with SU-L1046 and are based on the pre-feasibility studies conducted under SU-T1081.

Specific Objectives:

- Elaborate conceptual designs and assess parametric costs of the downtown adaptation measures.
- Prepare a quantitative cost-benefit analysis to compare downtown adaptation measures options.
- Conduct feasibility studies and pre-engineering designs for the downtown adaptation measures, including floodwall, green infrastructure and drainage system.
- Conduct a cost-benefit analysis for the downtown adaptation measures based on the feasibility studies.
- Identify biodiversity measures to be implemented as green infrastructure, and assess direct and indirect benefits.
- Prepare bidding documents for final engineering designs for the downtown adaptation measures.
- Building on the Environmental and Social Analysis undertaken in the context of the Paramaribo Urban Rehabilitation Program (SU-L1046) undertaken in 2016, undertake project specific impact environmental and social impact assessments for the identified projects (floodwall, green infrastructure and drainage system) based on the pre-engineering designs, and prepare project specific measures to be addressed in the final engineering designs and an Environmental and Social Management Plan.
- Conduct a gap analysis of national standards and regulations (e.g. Environmental impact assessment legislation, coastal management regulations, building codes, etc.) and make relevant recommendations.

Main activities

All activities described herein shall be performed in close cooperation with the IDB. The consulting firm shall keep in mind that the activities and tasks described herein cannot be considered as the complete and comprehensive description of the firm's services and duties. It is rather the firm's responsibility to critically verify the scope of the services indicated herein, and to propose modifications in the proposal wherever the firm deems it necessary according to the professional judgment and the knowledge that the firm will acquire during the preparation of the proposal. It is understood that the firm shall perform all the activities as necessary to fulfill the objective of the Consultancy Contract.

The firm shall carry out only the work specified as Phase II. Details on Phase I are included only to provide an overall understanding on previous tasks associated with this project.

- **Phase 1.** Conceptual Designs and Cost-Effectiveness Analysis
- **Phase 2.** Feasibility Studies and Pre-Engineering Designs

1.1 Compile and Review Available Information

Compile and review information available from private and public sources, to the extent feasible, which will provide an understanding of the physical conditions and flood risks of the project area, including topography, geologic and geotechnical characteristics, surface and groundwater hydrology, and drainage conditions.

The Bank will share with the firm a high resolution Digital Terrain Map (2 meters) of the project area, as well as a climate change vulnerability assessment that was prepared for IDB's Paramaribo Cities Program (SU-T1081). The latter includes hazard, vulnerability and risk maps for inland and coastal flooding for 25, 50 and 100 year-return periods.

1.2 Collect and Develop Site-Specific Data

The consulting firm is required to prepare a topographic profile for the project area and collect, as needed, the following:

- Information on the characteristics and values of exposed assets (physical, economic, and social).
- Land use information.
- Geological and geotechnical data.
- Relevant biodiversity information.
- Sediment particle sampling (20 samples).
- Drainage canal cross section.

1.3 Analyze Information, Conduct Site-Specific Risk Analysis and Write Pre-Design Report

Analyze the information gathered and the data generated in the above tasks (1.1 and 1.2) and conduct a risk analysis for the project area. This includes the following:

- **Estimate the probabilistic occurrence of hazards.** Prepare a 2D hydraulic analysis of the flood risk in the study area for a 25, 50 and 100 year-return period, using historical flood events to calibrate and adjust results. This step will include de-archive FLOD-2D, SWAT or better, updating the system with new information, conducting tests and validating results. The consulting firm will also need to establish HEC-RAS or better for drainage canal, interface with FLO-2D, SWAT or better.
- **Climate change impact assessment on local hydrology with an emphasis on major floods.** Taking as a reference the standard hydrological study and the probabilistic study on hazards occurrence mentioned above, the consultant will undertake additional analytical work to assess the impacts of climate change on local hydrology throughout:
 - (i) the revision and update of existing IDF curves (intensity-duration-frequency) for use by the city of Paramaribo. To this aim, the consultant will use a non-parametric K-nearest Neighbor weather generator algorithm operating on a daily time step to synthetically create long time series of weather data. For the analysis, two climate scenarios could be used; the first is the historic climate change scenario used to reshuffle and perturb observed data. The second could be a wet scenario used to

modify observed record according to regionalized climate model simulation outputs. Results of this analysis include tabular and graphical representation of updated IDF curves for Paramaribo. (results will be generated for return periods of 5 ,10, 25, 50, 100 and 250 years).

(ii) the generation of average hydrographs for downscaled regional climate models' projections for the 2020s, 2050s and 2080s time horizons and the baseline for Suriname river. The document generated should contain a discussion of results and recommendations to the use of data generated in the design phase of infrastructure for the protection of the city of Paramaribo. It is highly recommended to use different (at least 3) regional climate models (e.g. HadCM3, CCSM3.0, ECHAM5, CSIRO, CCCMA, among others).

- **Assess the probable damages to assets and estimate risk.** Assess the damages to assets within the project area based on the probabilistic occurrence of flood-related hazards, annual risk exposure (vulnerability), and asset values. Estimate the net present value of future annual-risk exposure values to understand the total risk the project area faces. The consulting firm will clarify which vulnerability function will be used for the probabilistic risk assessment.
- **Risk maps.** Develop site-specific risk maps for inland and coastal flooding.

Write a report that includes an analysis on site-specific risks, and an engineering analysis, complete with identification of design issues and needs for downtown adaptation measures (e.g. quantifying the height and extension of the floodwall).

1.4 Develop Alternative Conceptual Designs

Based on the previous activities, develop three conceptual design alternatives for the downtown adaptation measures – floodwall, green infrastructure, and drainage system based on the probabilistic risk scenario for the return periods of 25, 50 and 100 years of the current hazard and 2050 CC scenario. Examine and quantify green alternatives to supplement “hard” adoption measures (e.g. local scour, erosion). It is critical that conceptual designs maximize biodiversity benefits and minimize potential impacts on local vegetation.

Furthermore, assess the impact of the different design options on reducing flood risk exposure of communities and business serving the historic downtown area. Determine potential beneficiaries and clearly identify project outputs and outcomes.

Provide parametric cost estimates for each alternative and conduct a cost-benefit analysis (CBA) to compare options under each probabilistic risk scenario for the return periods of 25, 50 and 100 years of the current hazard and 2050 CC scenario.²

1.5 Conduct Public Participation Workshops

Develop an engagement and public participation plan for the design, preparation and construction phase of the project. This should involve early identification of potentially affected stakeholders, stakeholder mapping, surveys of local perceptions. Public consultation workshops should be held

² The consulting firm must take into consideration that total funds available for delivering the downtown adaptation measures is US\$7.3 million in phase one. The firm is required to plan for subsequent phases, which should not exceed US\$10 – US\$20 million each. The CBA should be done exclusively for phase one.

during the early design phase to seek inputs on alternatives being considered, in particular where these may have impacts on local livelihoods, and to ensure that the communities fully support and feel ownership over the adaptation effort, including the measures proposed; the comprehensive consultation process should cover key issues, such as flooding, climate change and gender. Depending on the locations being considered for the interventions, it may be necessary to hold specific consultations for indigenous people (for example if the flood wall extends behind the market and indigenous market).

1.6 Finalize Conceptual Designs

Based on inputs from the public participation hearings and workshops, as well as review comments from the GoS and IDB, modify and select a final target hazard intensity (of the return periods of 25, 50 and 100 years of the current hazard and 2050 CC scenario), conceptual design, as appropriate.

Phase 2: Feasibility Studies and Pre-Engineering Designs

2.1 Site Development Works Design and Sustainability Plan

Perform detailed architectural, pre-engineering, and design of civil works for the selected project concept. The firm is required to develop 30% of the final engineering drawings and calculations. This includes size, scale, depth of foundations, construction materials of engineering works, among others.

Designs must be functionally effective at least in 20 years from the beginning of the civil works operation, and require minimum maintenance during the life time. Also, the floodwall must be compatible with conceptual designs of the IDB Paramaribo Urban Rehabilitation Program (SU-L1046).

In addition, the firm is required to elaborate a plan for ensuring the sustainability of proposed infrastructure measures.

2.2 Project Outputs, Outcomes and Impact

Conduct a comprehensive assessment of expected beneficiaries, linked with project outputs, outcomes and impacts.

2.3 Legal Analysis

Perform a legal analysis to guarantee that the project complies with local and national regulations. In the absence of relevant regulatory frameworks, perform a gap analysis of national technical standards (Environmental impact assessment legislation, coastal management regulations, building codes, etc.), providing recommendations to close existing gaps.

2.4 Cost Estimates and Implementation Schedule

Provide direct cost estimates for all civil engineering works, and indirect costs, such as temporary or permanent relocation of households and businesses. Assumptions must be kept to a minimum, and cost estimates must be kept within a $\pm 5\%$ of actual project costs.

Prepare a detailed implementation and disbursement schedule for the adaptation measures, with specific activities, duration, duties and responsibilities for the project's Executing Agency.

2.5 Cost-Benefit Analysis

Conduct an economic and social cost-benefit analysis of the downtown adaptation measures as an integrated project with a 12% discount rate.

2.6 Tender and Contract Documents

Prepare the following documents for civil engineering works included within the scope of services, including:

- Instruction to tenderers;
- Complete set of construction drawings (30% of final project design);
- Technical specifications for downtown adaptation measures;
- Bidding forms.

2.7 Prepare an Environmental and Social Management Plan

Building on the [Environmental and Social Assessment](#) (ESA), (prepared for Paramaribo Urban Revitalization Program):

- Review relevant documents and any new information or reports;
- Perform site reconnaissance of the floodwall and associated area;
- Assess project specific environmental, social, cultural, health and safety, and labor impacts and risks for each investment (floodwall, green infrastructure and drainage system) based on the pre-engineering designs;
- Prepare project specific measures to be addressed in the final engineering designs.

In addition, the firm must develop the recommended mitigation, management and monitoring plans required for the project, as part of the Environmental and Social Management Plan (ESMP).

As part of the process the consulting firm will facilitate a public participation process including a series of consultation events in which the main impacts and risks of the projects, as well as project alternatives, will be presented. Feedback from the public on the ESA and ESMP will be solicited and help inform the final design, ESA and ESMP.

Reports / Deliverables

- Work Plan with a detailed timetable and activities
- Engineering designs and sustainability plan (Activity 2.1)
- Report on Activities 2.2 – 2.5
- Tender and contract documents
- Environmental and Social Management Plan

The firm must submit all the relevant raw calculation data (excel sheets, shape files, etc.) associated with the study.

Every report must be submitted to the Bank in an electronic file. The report should include cover, main document, and all annexes. Zip files will not be accepted as final reports, due to Records Management Section regulations.

Payment Schedule

Payment will be made according to the following schedule, provided the prior approval and total satisfaction of the IDB of the following products:

- 20% upon signature of contract and approval of the work plan;
- 30% upon submission and approval of engineering designs and sustainability plan
- 25% upon submission and approval of the report on activities 2.2-2.5;
- 10% upon submission and approval of the tender and contract documents
- 15% upon submission and approval of the environmental and social management plan;

Qualifications

The consulting firm must have at least 15 years of experience. Team members must have strong analytical skills and ability to develop probabilistic disaster risk assessments as well as susceptibility and impact analysis; ability to incorporate climate change scenarios into such assessments and analysis; demonstrated working experience in the creation, processing and analysis of spatial data sets in the context of disaster risk management; ability to identify and analyze causes and consequences of vulnerability; ability to develop risk reduction actions and strategies including both engineering and socioeconomic aspects.

The project manager must hold a Master's degree in applied sciences, engineering, or related areas, and should have at least 10 years of professional experience in probabilistic disaster risk assessments and climate change adaptation in an urban context. Key personnel must have expertise in biodiversity; public engagement and participatory design; and hazard and risk assessment and related disciplines including hydrology, coastal engineering, geology, and experience in GIS applications.

In addition, the project team should include an international engineer with at least 10 years of experience in developing risk-reduction and/or climate change adaptation projects, and must be familiar with international best practices. The members of the team should have a minimum combined experience of 20 years in the subject area.

Characteristics of the Consultancy

- Consultancy category and modality: Lump Sum
- Contract duration: 6 months
- Place(s) of work: External consultancy, with at least three field visits to Paramaribo, Suriname are required.
- Division Leader or Coordinator: Jesus Navarrete, (CSD/HUD) in coordination with Alfred Grunwaldt (CSD/CCS) and Luis Schloeter (CSD/HUD).



Safeguard Policy Filter Report

Operation Information

Operation		
SU-T1098 Urban Adaptation to Climate Change in Paramaribo		
Environmental and Social Impact Category	High Risk Rating	
B	{Not Set}	
Country	Executing Agency	
SURINAME		
Organizational Unit	IDB Sector/Subsector	
Climate Chng & Sustainable Dev	URBAN DEVELOPMENT AND HOUSING	
Team Leader	ESG Primary Team Member	
JESUS NAVARRETE	{Not Set}	
Type of Operation	Original IDB Amount	% Disbursed
Technical Cooperation	\$220,000	0.000 %
Assessment Date	Author	
14 Nov 2017	natashaw	
Operation Cycle Stage	Completion Date	
ERM (Estimated)	{Not Set}	
QRR (Estimated)	{Not Set}	
Board Approval (Estimated)	{Not Set}	
Safeguard Performance Rating		
{Not Set}		
Rationale		
{Not Set}		

Safeguard Policy Items Identified

[B.1 Bank Policies \(Access to Information Policy– OP-102\)](#)

The Bank will make the relevant project documents available to the public.

[B.1 Bank Policies \(Disaster Risk Management Policy– OP-704\)](#)

The specific objective of the operation is climate change adaptation



Safeguard Policy Filter Report

B.1 Bank Policies (Gender Equality Policy– OP-761)

The operation will offer opportunities to promote [gender equality](#) or [women's empowerment](#).

B.2 Country Laws and Regulations

The operation is expected to be in compliance with laws and regulations of the country regarding specific women's rights, the environment, gender and indigenous peoples (including national obligations established under ratified multilateral environmental agreements).

B.3 Screening and Classification

The operation (including [associated facilities](#)) is screened and classified according to its potential environmental impacts.

B.4 Other Risk Factors

The operation is associated with the design and/or implementation of a major investment loan in infrastructure (technical cooperations only).

B.4 Other Risk Factors

The operation is [specifically designed](#) to increase the ability of society and ecological systems to adapt to a changing climate.

B.4 Other Risk Factors

The operation [includes activities](#) to close current "adaptation deficits" or to increase the ability of society and ecological systems to adapt to a changing climate.

B.6 Consultations

Consultations with affected parties will be performed equitably and inclusively with the views of all stakeholders taken into account, including in particular: (a) equal participation by women and men, (b) socio-culturally appropriate participation of indigenous peoples and (c) mechanisms for equitable participation by vulnerable groups.

B.7 Supervision and Compliance

The Bank is expected to monitor the executing agency/borrower's compliance with all safeguard requirements stipulated in the loan agreement and project operating or credit regulations.

B.15. Co-financing Operations

The operation or any of its components is being co-financed.

B.17. Procurement

Suitable safeguard provisions for the procurement of goods and services in Bank financed operations may be incorporated into project-specific loan agreements, operating regulations and bidding documents, as appropriate, to ensure environmentally responsible procurement.

Potential Safeguard Policy Items

B.1 Bank Policies (Indigenous People Policy– OP-765)

The operation will offer opportunities for indigenous people



Safeguard Policy Filter Report

B.4 Other Risk Factors

The borrower/executing agency exhibits weak institutional capacity for managing environmental and social issues.

B.16. In-country Systems

In-country systems will be used based on results from equivalency and acceptability analyses.

Recommended Actions

Operation has triggered 1 or more Policy Directives; please refer to appropriate Directive(s). Complete Project Classification Tool. Submit Safeguard Policy Filter Report, PP (or equivalent) and Safeguard Screening Form to ESR. The project triggered the Disaster Risk Management policy (OP-704) and this should be reflected in the Project Environmental and Social Strategy. A Disaster Risk Assessment (DRA) may be required (see Directive A-2 of the DRM Policy OP-704). Next, please complete a Disaster Risk Classification along with Impact Classification. Also: if the project needs to be modified to increase resilience to climate change, consider the (i) possibility of classification as adaptation project and (ii) additional financing options. Please consult with INE/CCS adaptation group for guidance. The project triggered the Other Risks policy (B.04): climate risk.

- Please include sections on how climate risk will be dealt with in the ESS as well as client documents (EIA, EA, etc);
- Recommend addressing risks from gradual changes in climate for the project in cost/benefit and credit risk analyses as well as TORs for engineering studies.

Additional Comments

[No additional comments]



Safeguard Screening Form

Operation Information

Operation		
SU-T1098 Urban Adaptation to Climate Change in Paramaribo		
Environmental and Social Impact Category	High Risk Rating	
B	{Not Set}	
Country	Executing Agency	
SURINAME		
Organizational Unit	IDB Sector/Subsector	
Climate Chng & Sustainable Dev	URBAN DEVELOPMENT AND HOUSING	
Team Leader	ESG Primary Team Member	
JESUS NAVARRETE	{Not Set}	
Type of Operation	Original IDB Amount	% Disbursed
Technical Cooperation	\$220,000	0.000 %
Assessment Date	Author	
14 Nov 2017	natashaw	
Operation Cycle Stage	Completion Date	
ERM (Estimated)	{Not Set}	
QRR (Estimated)	{Not Set}	
Board Approval (Estimated)	{Not Set}	
Safeguard Performance Rating		
{Not Set}		
Rationale		
{Not Set}		

Operation Classification Summary

Overriden Rating	Overriden Justification
Comments	



Safeguard Screening Form

Conditions / Recommendations

Summary of Impacts / Risks and Potential Solutions

Disaster Risk Summary

Disaster Risk Level

Disaster / Recommendations

Disaster Summary

Details

Actions

URBAN ADAPTATION TO CLIMATE CHANGE IN PARAMARIBO

SU-T1098

CERTIFICATION

I hereby certify that this operation was approved for financing under **Ordinary Capital Strategic Development Program for Sustainability (SUS)** through a communication dated September 8, 2017 and signed by Jane Silva (ORP/GCM). Also, I certify that resources from said fund are available for up to **US\$220,000** in order to finance the activities described and budgeted in this document. This certification reserves resource for the referenced project until December 13th, 2017. 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

12/5/2017

Sonia M. Rivera

Date _____

Division Chief

Grants and Co-Financing Management Unit

ORP/GCM

APPROVED BY:

ORIGINAL SIGNED

12/8/2017

Tatiana Gallego Lizon

Date _____

Division Chief

Housing and Urban Development Division

CSD/HUD