

TECHNICAL COOPERATION DOCUMENT

I. BASIC INFORMATION

• Country/Region:	Regional
• TC Name:	Program to Strengthen Institutional Capacity to better assess Climate Impacts in Latin America and the Caribbean (LAC)
• TC Number:	RG-T2612
• Team Leader/Members:	Alfred Grünwaldt, Team leader (INE/CCS); Team members: Inês Ferreira, Maricarmen Esquivel, Martin Kerres, Gerard Alleng, and Mariana Hernández (INE/CCS); Hori Tsuneki (INE/RND); Fernando Miralles-Wilhelm, Raúl Muñoz (INE/WSA); Ramiro Rios (INE/TSP); Hilary Hoagland-Grey, and Roberto Leal (VPS/ESG); Javier Jimenez (LEG/SGO); María Eugenia Roca (VPC/FMP)
• Taxonomy:	Research and Dissemination
• Date of TC Abstract authorization:	March 23 rd , 2015
• Beneficiary:	Regional
• Executing Agency:	Inter-American Development Bank (IDB)
• Donors providing funding:	SECCI Fund
• IDB Funding Requested:	US\$ 505,000
• Local counterpart funding, if any:	US\$ 40,000 (in kind)
• Disbursement period:	30 months (execution period: 27 months)
• Required start date:	July 2015
• Types of consultants:	Firms
• Prepared by Unit:	Climate Change and Sustainability (INE/CCS)
• Unit of Disbursement Responsibility:	INE/INE
• TC Included in Country Strategy (y/n):	Yes ¹
• TC Included in CPD (y/n):	No
• GCI-9 Sector Priority:	Protect the environment, respond to climate change and promote renewable energy and food security

II. OBJECTIVES AND JUSTIFICATION

2.1 Justification: According to the last report of the Intergovernmental Panel on Climate Change (IPCC-AR5) adaptation efforts in Latin-America and the Caribbean (LAC) region are hampered by gaps in scientific knowledge. The scarcity of and difficulty in obtaining high-resolution, high quality, and continuous climate, oceanic, and hydrological data, together with availability of only very few complete regional studies, pose challenges for the region to address changes in climate variability and the identification of trends in weather extremes. This situation hampers studies on frequency and variability of extremes as well as the development of vulnerability assessments and adaptation actions². In order to support its countries in answering to those challenges, in 2008 the Inter-American Development Bank (IDB) approved a Technical Cooperation (TC), RG-T1574, focused on the generation, analysis

¹ Perú (2012-2016), México (2013-2018), Colombia (2012-2014), Costa Rica (2011-2014) and Bolivia (2011-2015). According to these Country Strategies, IDB will provide support by increasing investments in human capital for research development and innovation and supporting the development of platforms for research and innovation programs, as well as support to strengthening the climate change.

² Magrin, G.O., J.A. Marengo, J.-P. Boulanger, M.S. Buckeridge, E. Castellanos, G. Poveda, F.R. Scarano, and S. Vicuña, 2014: Central and South America. In: Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part B: Regional Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change [Barros, V.R., C.B. Field, D.J. Dokken, M.D. Mastrandrea, K.J. Mach, T.E. Bilir, M. Chatterjee, K.L. Ebi, Y.O. Estrada, R.C. Genova, B. Girma, E.S. Kissel, A.N. Levy, S. MacCracken, P.R. Mastrandrea, and L.L. White (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 1499-1566.

and visualization of climate change scenarios. Its main goal was to support the development of a science and technology transfer from scientific communities in the United States to the same community in LAC. One of the components of said Program financed a group of training sessions carried out by the University of Nebraska at Lincoln (UNL) through their Department of Earth and Atmospheric Sciences. These training sessions focused on the generation of high-resolution (12km and 4km) climate change scenarios using the Weather Research and Forecasting model (WRF), with the participation of scientists from eleven countries³.

- 2.2 Main outputs of the completed Program included: (i) at least 80 scientists and practitioners from the region trained through a variety of workshops and lectures imparted by UNL; (ii) the establishment of a small network of climate scientists that met once a year to discuss key issues on climate downscaling; (iii) the generation of high resolution (12km and 4km) climate change scenarios for the Mesoamerican region to be used in vulnerability and adaptation capacity assessments, (iv) the development of a group of key scientific studies on precipitation forecasting, hurricanes and robust methods for decision making, and (v) development of an on-line tool ([MapMaker](#)) to visualize high-resolution outputs from model runs. Although still an advanced prototype, in its current version Mapmaker already has some useful capabilities, and has proven to be an invaluable tool at the numerous workshops UNL conducted throughout Latin America. During the month of April 2015 there were 396 maps produced and 829 data downloads logged on the MapMaker server. By being a free online web-based tool, it has the potential to serve other users beyond the scientific community, including development practitioners, such as IDB specialists, national sectorial officials from different ministries, universities and regional centers of knowledge. However, the workshops conducted by UNL, and especially the input from the participants involved, have demonstrated that while a useful prototype, this visualization tool still should undergo further development, in order to make it run at its full potential - and this includes being more user friendly⁴ too.
- 2.3 Lessons learned from the implementation of RG-T1574, and specific requests for additional support received from participating countries⁵, demonstrate that further training on climate modeling is required to better handle and understand the inherent uncertainties of climate projections as well as to how fine-tune certain modeling parametrizations of site-specific natural processes that affect the quality of current model outputs. This was also observed in workshops conducted during the last three years by UNL in Guatemala and Bolivia as part of parallel activities⁶ of limited scope on climate modeling in support of, respectively, the climate change PBL⁷ and the Pilot Program for Climate

³ Mexico, Guatemala, El Salvador, Honduras, Costa Rica, Panama, Dominican Republic, Colombia, Nicaragua, Jamaica and Peru

⁴ At the moment the tool is not user friendly for users outside the scientific community

⁵ See Annex 3

⁶ A series of papers for publication in scientific journals reporting on this specific effort and joint collaboration between IDB and UNL is underway

⁷ GU-L1063, Program to support the climate change agenda of Guatemala

Resilience (PPCR)⁸. In addition and with respect to the Bank's due diligence on climate resilient development, there is a need for improving initial climate risks screening⁹ to which the proposed TC could also contribute by strengthening current capacities in national hydro-met offices and local universities on climate modeling.

- 2.4 Many countries in the region are exposed to similar climate patterns - they also share similar technological limitations on simulating certain climate-model-quality-determinants like topographic forcing. However, regional capacity to solve these issues is very heterogeneous. The proposed project will contribute to fill existing knowledge gaps in LAC on climate change impacts on infrastructure and rural/urban communities, their livelihoods and associated risks. The main objective of this TC is to support the improvement of climate change modeling related knowledge in LAC, through the consolidation of a regional network of climate scientists from different hydro-met institutions and universities¹⁰. Specifically, the TC will help generate and gather theoretical and practical expertise in complex areas of climate modeling such as simulating the climate of mountainous regions and hurricanes. The knowledge network proposed represents a good opportunity to promote in the region the exchange of high-resolution data and specific modeling techniques for the analysis and visualization of complex climate processes complementing the work initiated through RG-T1574. Information generated will be disseminated through knowledge networks and platforms (such as scientific journals, IDB's website, blogs and newsletters and Adaptation Platform). In addition outputs from model runs that currently feed MapMaker could be of great use to other vulnerability assessment tools, such as IDB's [Mesoamerica Climate Projections](#) tool for the transportation sector.
- 2.5 This TC will also indirectly benefit climate sensitive development programs led by the Bank in the region because local hydro-met institutions are the main providers of official climate scenarios at the national level. In this line, IPCC-AR5 in its Vulnerability and Adaptation chapter indicates that the use of specialized tools to better understand impacts, vulnerabilities and risks and capacity building activities represent enabling factors that could ease the planning and implementation of adaptation. Thus this TC has the potential of providing relevant support, through training, software access and modeling know-how to regional information needs for enhancing current adaptation processes. In order to successfully accomplish the activities foreseen under this TC, and based upon the previous work developed so far in the region, UNL will be hired by the Bank to carry out the activities under Components 1 and 2 described in Section III.
- 2.6 The proposed TC is in line with the goals of the Ninth General Capital Increase (GCI-9), contributing to the sector priority on climate change, sustainable energy

⁸ PPPCR is one of the funds under the Climate Investment Funds (CIF), <http://www-cif.climateinvestmentfunds.org/>.

⁹ The activities developed through this TC will contribute towards the main objectives of the PPCR Regional track within the Caribbean, helping to build better climate vulnerability and risks assessments for the Caribbean region.

¹⁰ Universities play an important role at the national level in training climatologists in the use of new modeling tools and the establishment of the most appropriate parameters to be used in model runs.

and environmental sustainability (goal #5). Furthermore, the TC is aligned with the strategic line of intervention “A” defined in the Bank’s [“Integrated Strategy for Climate Change Adaptation and Mitigation, and Sustainable and Renewable Energy”](#) that aims at strengthening climate change knowledge base through activities that include: information generation, data collection and management for the analysis of climate change impacts; the development of databases to improve access to information; the establishment of platforms to document existing knowledge; and sharing of information among public and private sectors, international organizations, MDBs, research institutions and academia. Likewise, the proposed TC is aligned with the priorities and lines of intervention defined in the [“Climate Change Action Plan 2012-2015”](#) that aims at, inter alia, increasing the quality and availability of climate vulnerability data analyses by improving climate change models, downscaling data and producing detailed local projections.

III. DESCRIPTION OF ACTIVITIES/COMPONENTS AND BUDGET

- 3.1 **Component 1.** Regional Task Force on climate change impacts (US\$271,000). This component aims at consolidating a regional network of scientists and climate change model users for the exchange of experiences, knowledge and lessons learned as well as advanced technical training on specific priority subjects (ex. hurricanes, climate in mountainous regions, etc.) that will be evaluated and confirmed on the first workshop between UNL and participating countries’ representatives. The objective of this component is to encourage trainings that generate additional knowledge and skills on climate modeling and climate change impacts in the LAC region. The activities will be conducted with the guidance and technical support of scientists from UNL, by creating working groups that will target these subjects in semi-annual workshops and virtual spaces. This component will finance the participation of climate scientists from Bank member countries and UNL instructors in semi-annual workshops. Result: Regional network of eight Bank member countries generating additional knowledge on climate modeling within three years from its first workshop. Products: Three technical papers ready to be submitted to key international scientific journal(s), one for each of the targeted regional climate-related issues.
- 3.2 **Component 2.** Improvement of an interactive tool to analyze and visualize regional climate models’ outputs (US\$254,000). This component will finance further development of the existing web-based tool MapMaker for processing, analyzing, verifying, and visualizing model outputs. UNL will be hired by IDB to improve the tool, based on recommendations received from national scientists participating in the workshops (Component 1) with experience in the use of the tool, as well as IDB specialists. These recommendations include: (i) adding additional data such as evapotranspiration, number of precipitation days, among others; (ii) include the ability to download data subsets (specific variables, times, areas, points, etc.); (iii) scaling changes to intermediate times (i.e., <50 years); (iv) improve the user’s manual section as well as the online help tool; and (v) make it have better integration so that only a single version needs to be maintained, rather than several project-specific versions¹¹. Feedback for

¹¹ As of today, there are several different links for the tool, one for each project collaboration: Regional (RG-T1574), Guatemala and Bolivia as mentioned previously.

MapMaker improvement will also be collected from staff from different IDB sectors, as it is expected that they can also use the tool (for i.e., for visualizing how climate might affect their project activities during initial project screening, and to plan accordingly), the main objective is to make the current prototype fully operational and more user-friendly, by adding new functionalities (to be determined accordingly based on the recommendations received) and giving users the access to more information through better maps with high-resolution (12 km and 4 km specifically). Result: Additional high-quality data and information on climate change scenarios easily accessible to practitioners and scientists in the region and IDB specialists through MapMaker. Products: (i) fully refurbished and operational user friendly web-based climate scenarios visualizer, with the most up-to-date data from downscaled climate modeling for the Region; and (ii) report summarizing the main adjustments made to MapMaker and detailing the capabilities of the tool at the date.

- 3.3 **Component 3.** Outreach and dissemination (US\$10,000). This component will finance the dissemination of the technical papers developed under Component 1 in international scientific journal(s), as well as the development and publication of Technical Notes (TN) that will present the results of the regional network workshops. Furthermore, this Component will also finance the dissemination of MapMaker tool and its capabilities on regional knowledge platforms and other regional workshops where the work of this partnership can be disseminated. Result: Additional knowledge on climate change modeling is disseminated throughout the region. Product: Three IDB TN that will present (i) the results of the regional network workshops published, (ii) the main issues discussed during the sessions including information gaps and (iii) assessment of any additional capacity on climate modeling needs.

Table 3.1 Results Matrix

Results Matrix			
Strategic Results	Output indicators	Baseline	Goal
Component 1: Regional Task Force on climate change impacts			
Regional network of eight countries generating additional knowledge on climate modeling within three years from its first workshop.	Number of technical papers ready to be submitted to key international scientific journal(s)	0	3
	Number of countries that actively participate in the network	0	8
Component 2: Improvement of interactive tool to analyze and visualize regional climate models' outputs			
Additional high-quality data and information on climate change scenarios easily accessible to practitioners and scientists in the region and IDB specialists within three years of TC starting date.	Number of fully refurbished and operational user friendly web-based climate scenarios visualizer (MapMaker).	0	1
	Number of reports summarizing capabilities of the visualizing tool (Mapmaker) and detailing undertaken improvements	0	1
Component 3: Outreach and dissemination			
Additional knowledge on climate change modeling is disseminated throughout the region.	Number of IDB Technical Notes published	0	3

- 3.4 The counterpart funding will be provided in kind by each designated country focal point for the regional network as indicated in the letters of request

received. The total amount has been estimated as the sum of men-hours that participating professionals will be given to the review of technical papers and improvement made to the MapMaker tool.

Table 3.2 Indicative Budget (US\$)

Description	TC Funding (US\$)		Total Funding
	IDB	Counterpart (in kind)	
Component 1: Regional task Force on climate change impacts	241,000	30,000	271,000
• Development of workshops (including preparation of papers and submission to scientific journals)	63,000	30,000	93,000
• Facilities rental for training sessions	65,000	0	65,000
• Logistic (flights/per diem, lodging for participants.) ¹²	113,000	0	113,000
Component 2: Development of a regional scientific tool/visualizer for climate modeling	244,000	10,000	254,000
Component 3: Dissemination of results	10,000	0	10,000
• Publication of technical notes (including editing and printing)	10,000	0	10,000
Quality review	10,000	0	10,000
Total	505,000	40,000	545,000

IV. EXECUTING AGENCY AND EXECUTION STRUCTURE

- 4.1 IDB will be the executing agency of the funds of this TC. The technical responsibility for the supervision within the Bank will be Alfred Grünwaldt from INE/CCS Division in Washington D.C., in coordination with different Bank Divisions participating in the project. CCS will be responsible for the selection and hiring of the consulting and no-consulting services in accordance with Bank's current procurement policies and procedures. To successfully accomplish objectives foreseen under this TC, UNL will be directly contracted by the Bank for an amount of US\$307,000 to carry out activities under Components 1 and 2. The direct contracting of UNL presents a clear advantage over competition given their previous experience with the Bank¹³ in the development of capacity building activities in the region and their work in the creation of MapMaker. Besides UNL has highly skilled professionals in the area of climate modeling. This will allow the Bank give continuity to previous work initiated and financed through RG-T1574 on climate modeling capacity building.
- 4.2 The Water Center for the Humid Tropics of Latin America and The Caribbean (CATHALAC) in Panama will be hired to host the training activities and workshops under Component 1. This institution was chosen because they have the required computational equipment and facilities that will be needed for the training activities¹⁴ and because of their location, making it a central meeting point for the participants involved, which will significantly reduce travelling costs.

¹² Funding was calculated based on a 15 people attendance to the workshops. Approximate mean cost per participant is US\$1500 per workshop (5 in total during TC execution).

¹³ Reports of the workshops held by UNL in the region can be found in this link: <http://weather.unl.edu/RCM/>. Likewise, a group of technical papers was generated, reflecting the work done by UNL for the Bank in Bolivia ("*Generación y evaluación de escenarios climáticos con alta resolución PPCR fase II*") and Guatemala ("*Impactos climáticos para Guatemala: Resultados preliminares de los modelos climáticos regionales y globales IPCC AR5*").

¹⁴ Under operation RG-T1574, two of the training sessions took place also in CATHALAC.

- 4.3 Letters of request¹⁵ for the proposed TC were received from Meteorological Institutes and/or Universities from the following countries: Mexico, Panama, Colombia, Costa Rica, Guatemala, Jamaica, Honduras, and Bolivia. It is likely that between the time this TC is submitted for approval and its official start date, additional request letters from other countries (Peru, Dominican Republic and El Salvador) are received.
- 4.4 All products of this TC will be subject to quality review by team members and/or peer-Reviewers as required. The project team will closely monitor and evaluate UNL modelling and training activities as required. Monitoring activities will be covered by the administrative budgets of each Division of the Bank involved.

V. MAJOR ISSUES

- 5.1 There are no foreseen major risks associated to the implementation of this TC project. Main issue could be on the sustainability of the created Task Force beyond the duration of this TC. To mitigate this risk, additional partnerships with regional, national and other international institutions will be explored during TC implementation under the guidance of UNL, so that existing alliances and technical dialogue among participating countries can be maintained and nurtured. On this point, there was a call to developed countries during the Conference of the Parties (COP) in Lima, to help strengthening existing capacities in developing countries to better assess climate change impacts; to this petition US has just launched a global partnership¹⁶, initially for the next two years that will among others, give training to meteorologists and climate scientists in the region, starting with Colombia. IDB is one of the funding members of this partnership and the proposed TC becomes a catalyst to expand initial support to other countries in LAC. A second risk is that participating scientists won't dedicate the time needed to achieve expected technical outputs of the regional network (i.e. technical papers). This risk is mitigated through formal commitment letters from participating national institutions to assign an official to the program (please see Annex III). A third and minor risk is related to the maintenance of the platform, which is covered by UNL through a robust platform design with minimum yearly maintenance required.

VI. EXCEPTIONS TO BANK POLICY

- 6.1 No exceptions to Bank's policies are foreseen.

VII. ENVIRONMENTAL AND SOCIAL STRATEGY

- 7.1 It is not anticipated that the activities of this TC will have negative direct social or environmental impacts, as it classified as Category "C" per the Environment and Safeguards Compliance Policy (OP-703) ([Safeguard Screening Form/Safeguard Policy Filter](#)).

VIII. REQUIRED ANNEXES:

- **Annex 1:** [Procurement Plan](#)
- **Annex 2:** [Terms of Reference](#)
- **Annex 3:** [Letter of request from beneficiary Countries](#)

¹⁵ Please see Annex 3.

¹⁶ White House Blog Post (Holdren/Deese): <https://www.whitehouse.gov/blog/2015/06/09/-climate-resilience>

PROCUREMENT PLAN FOR NON-REIMBURSABLE TECHNICAL COOPERATIONS										
Country: Regional					Executing agency: IDB				Public or private sector: Public Sector	
Project number: RG-T2612					Title of Project: Program to Strengthen Institutional Capacity to better assess Climate Impacts in Latin America and the Caribbean (LAC)					
Period covered by the plan: 27 months starting in July 2015										
Threshold for ex-post review of procurements: N/A				Goods and non consulting services (in US\$): 188,000		Consulting services(in US\$): 317, 000				
Item Nº	Ref. AWP	Description (1)	Estimated contract cost (US\$)	Procurement Method (2)	Review of procurement (3)	Source of financing and percentage		Estimated date of the procurement notice or start of the contract	Technical review by the PTL (4)	Comments
						IDB/MIF %	Local/other %			
1		Components 1 and 2								
		Goods	N/A							
		Non consulting services								
		Logistics expenses	113,000	DC	ex ante	100	N/A	May - Oct 2016 May - Oct 2017	Bank contracted Bank contracted	
		Rental of CATHALAC facilities to develop the workshops	65,000	DC	ex ante	100	N/A	Jul-15		
		Consulting services								
		Contract of UNL to provide technical support to the training activities of the regional network and to improve MapMaker tool	307,000	SSS	ex ante	100	N/A	Jul-15		
		Individual consultants	N/A							
2		Component 3								
		Goods	N/A							
		Non consulting services								
		Publication of Technical Notes	10,000	DC	ex ante	100	N/A	Oct-17		
		Consulting services	N/A							
		Individual consultants	N/A							
3		Quality review	10,000	IICQ	ex ante	100	N/A	May - Oct 2016 May - Oct 2017		
Total			505,000	Prepared by: Alfred Grunwaldt			Date: July 8th 2015			
(1) Grouping together of similar procurement is recommended, such as computer hardware, publications, travel, etc. If there are a number of similar individual contracts to be executed at different times, they can be grouped together under a single heading, with an explanation in the comments column indicating the average individual amount and the period during which the contract would be executed. For example: an export promotion project that includes travel to participate in fairs would have an item called "airfare for fairs", an estimated total value od US\$5,000, and an explanation in the Comments column: "This is for approximately four different airfares to participate in fairs in the region in years X and X1".										
(2) Goods and works: CB: Competitive bidding; PC: Price comparison; DC: Direct contracting.										
(2) Consulting firms: CQS: Selection Based on the Consultants' Qualifications; QCBS: Quality and cost-based selection; LCS: Least Cost Selection; FBS: Selection nder a Fixed Budget; SSS: Single Source Selection; QBS: Quality Based selection.										
(2) Individual consultants: IICQ: International Individual Consultant Selection Based on Qualifications; SSS: Single Source Selection.										
(2) Country system: include selection Method										
(3) Ex-ante/ex-post review: In general, depending on the institutional capacity and level of risk associated with the procurement, ex-post review is the standard modality. Ex-ante review can be specified for critical or complex process.										
(4) Technical review: The PTL will use this column to define those procurement he/she considers "critical"or "complex"that require ex ante review of the terms of reference, technical specifications, reports, outputs, or other items.										

REGIONAL
INTER-AMERICAN DEVELOPMENT BANK
CLIMATE CHANGE AND SUSTAINABILITY DIVISION (INE/CCS)
PROGRAM TO STRENGTHEN INSTITUTIONAL CAPACITY TO BETTER ASSESS CLIMATE IMPACTS
IN LATIN AMERICAN AND THE CARIBBEAN (LAC)
TERMS OF REFERENCE

I. BACKGROUND

1.1 The present consultancy is to develop the activities detailed on the Inter-American Development Bank (IDB) Technical Cooperation (TC) RG-T2612 document, which has the objective of supporting the improvement of climate change modeling related knowledge in Latin-America and the Caribbean (LAC), through a consolidation of a regional network of climate scientists from different hydro-met institutions and universities. The project will contribute to fill existing knowledge gaps in LAC on climate change impacts on infrastructure and rural/urban communities, their livelihoods and associated risks. Specifically, the TC will help generate and gather theoretical and practical expertise in complex areas of climate modeling such as simulating the climate of mountainous regions and hurricanes (among others).

1.2 To accomplish this objective, the following components are expected to be developed:

- Component 1. Regional Task Force on climate change impacts. This component aims at consolidating a regional network of scientists and climate change model users for the exchange of experiences, knowledge and lessons learned as well as advanced technical training on specific priority subjects. The objective of this component is to encourage trainings that generate additional knowledge and skills on climate modeling and climate change impacts in the LAC region.
- Component 2. Improvement of an interactive tool to analyze and visualize regional climate models' outputs. This component will finance further development of the existing web-based tool MapMaker for processing, analyzing, verifying, and visualizing model outputs. The tool will be improved based on recommendations received from national scientists participating in the workshops (Component 1) and who have experience in the use of the tool as well as IDB specialists. These recommendations include, but are not limited to: (i) adding additional data such as evapotranspiration, number of precipitation days, among others; (ii) include the ability to download data subsets (specific variables, times, areas, points, etc.); (iii) scaling changes to intermediate times (i.e., < 50 years); (iv) improve the user's manual section as well as the online help tool; and (v) make it have better integration so that only a single version needs to be maintained, rather than several project-specific versions. The main objective is to make the current prototype fully operational and more user-friendly, by adding new functionalities (to be determined accordingly based on the recommendations received) and giving users the access to more information through better maps with high-resolution (12 km and 4 km specifically).
- Component 3. Outreach and dissemination. This component will finance the dissemination of the technical papers developed under Component 1 in international

scientific journal(s), as well as the development and publication of Technical Notes that will present the results of the regional network workshops. Furthermore, this Component will also finance the dissemination of MapMaker tool and its capabilities on regional knowledge platforms and other regional workshops where the work of this partnership can be disseminated.

II. CONSULTANCY OBJECTIVE(S)

2.1 The objective of this consultancy is to provide develop the activities expected under components 1 and 2. For this purpose, a consulting firm with ample expertise in climate modeling, climate change impacts and vulnerability assessment in the region, and with MapMaker tool will be hired.

III. MAIN ACTIVITIES

3.1 The selected candidate will:

- Carry out training and educational activities with the goal of encouraging peer-to-peer training and regional collaborations and the generation of additional knowledge and skills on climate modeling and climate change impacts in the LAC region;
- Provide technical support to the process of development of the technical studies after each training session of the regional network is conducted;
- Improve MapMaker tool based on recommendations received and lead the improvement process of MapMaker tool (including the development of a questionnaire to the countries participating in the network to receive their inputs/suggestions on how to improve the tool and the development of an action plan for the improvement of the tool).

IV. REPORTS / DELIVERABLES BY COMPONENT

- Work Plan for the consultancy activities.

Component 1

- Report summarizing the results of the 1st workshop (including list of participants, agenda and the selected specific priority subjects (climate-related issues such as hurricanes, climate in mountainous regions, etc.) that the network will be working on);
- Reports summarizing each subsequent workshop results (including list of participants, agenda, barriers encountered/information gaps, suggestions/feedback received by the participants and the assessment of any additional capacity on climate modeling needs in the region);
- At least three (3) technical papers ready to be submitted to key international scientific journal(s), one for each of the targeted regional climate-related issues.

Component 2

- Fully refurbished and operational user friendly web-based climate scenarios visualizer, with the most up-to-date data from downscaled climate modeling for the Region;
- Report summarizing the main adjustments made to MapMaker and detailing the capabilities of the tool at the date;
- Handbook with examples on how to use of MapMaker.

V. PAYMENT SCHEDULE

5.1 The payment schedule will be as follows:

1. 25% after contract signature and presentation and acceptance of the Work Plan by the Bank;
2. 15% in the end of the first year of the Project execution after reception and approval by the Bank of that year's workshop reports and the corresponding papers drafts;
3. 15% in the end of the second year of the Project execution after reception and approval by the Bank of that year's workshop reports and the corresponding papers drafts;
4. 15% in the end of the third year of the Project execution after reception and approval by the Bank of that year's workshop reports and papers drafts;
5. 30% after delivery of refurbished MapMaker and its Handbook and approval by the Bank.

VI. QUALIFICATIONS

6.1 The consulting firm will be contracted according to the IDB procurement process (GN 2350-9).

- Profile of consulting firm: The consulting firm must submit the CVs and the list of the team members participating in the development of the consultancy.
- The consulting firm will be responsible for performing the activities and tasks described in these Terms of Reference and deliver the products described in the section *Reports/Deliverables by Component*. The consulting firm will demonstrate logistical, financial and technical capacity to implement the consultancy.
- Areas of Expertise: The consulting firm must have (i) knowledge and experience in climate dynamics, climate modeling (including downscaling techniques), as well as knowledge of the climates of Latin America and the Caribbean, and (ii) experience in providing training and education in the operational aspects of meteorology, climate modeling and weather modeling.

VII. CONSULTANT TEAM PROFILE

- Professional profile 1. Climatology professor with a minimum of 10 years of experience in climate modeling and providing capacity building in the subject. Demonstrated experience in Latin America and the Caribbean region. Languages: English. Fair level of Spanish preferred.
- Professional profile 2. Climatology professor with a minimum of 10 years of experience and expertise in the areas of climate modeling and visualization of information. Demonstrated experience in Latin America and the Caribbean region. Languages: English. Fair level of Spanish preferred.
- 3 support junior level personnel: Post-doctorate level and expertise in generating, understanding and communicating at the local and regional level. One position will require strong programming skills and experience with large datasets.
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VIII. CHARACTERISTICS OF THE CONSULTANCY

- Consultancy category and modality: Consulting firm.
- Contract duration: Estimated at 27 months after contract signature by both parties.
- Place(s) of work: External consultancy.
- Division Leader or Coordinator: Mr. Alfred Grünwaldt, Climate Change Senior Specialist (alfredg@iadb.org – Ext. *241888) (INE/CCS).



ETESA

EMPRESA DE TRANSMISIÓN ELÉCTRICA, S.A.

19 de noviembre de 2014
ETE-DTR-GHM-099-2014

Licenciado

DAVID WILK

Jefe de la División de Cambio Climático y Sostenibilidad a.i.

Banco Interamericano de Desarrollo

E. S. D.

Estimado señor Wilk:

Nos gustaría aprovechar esta oportunidad para saludarlo muy cordialmente y agradecer al BID el apoyo brindado a través del programa RG-T1574, "Modelaje del Cambio Climático en Latinoamérica y el Caribe", el cual fue de gran ayuda para muchas de las actividades que se desarrollaron en nuestra institución. Damos la bienvenida a un nuevo programa de apoyo para los siguientes años para poder afianzar aún más el trabajo ya iniciado.

Deseamos confirmar formalmente el interés de la Empresa de Transmisión Eléctrica, S. A, a través de la Gerencia de Hidrometeorología de Panamá de formar parte del nuevo programa de fortalecimiento institucional de capacidad en el área de cambio climático liderado por el Banco Interamericano de Desarrollo (BID) con la contribución técnica de la Universidad de Nebraska en Lincoln. El mismo contribuirá definitivamente a llenar vacíos de conocimiento científico en temas de modelamiento climático que sean de interés y apropiadas para nuestro país a través de colaboración regional entre grupos de trabajo.

De esta forma, estamos designando a la Lic. Berta Alicia Olmedo, Supervisora de Variabilidad y Cambio Climático, como nuestra representante en uno de esos grupos. La Lic. Olmedo estará disponible para formar parte de todas las actividades de los grupos de trabajo que se creen, incluyendo asistencia a talleres regionales anuales que están previstos. Entendemos también que las actividades más específicas que se realizarán entre los talleres se estarán definiendo entre el BID, NCAR y todos los países que se comprometan con la iniciativa. De igual forma entendemos que los fondos para el financiamiento de dicho programa regional están siendo gestionados y su disponibilidad no está aún garantizada.

Aprovechamos la oportunidad para reiterarle nuestra consideración y estima.

Atentamente,



EDILBERTO B. ESQUIVEL MARCONI

Gerente de Hidrometeorología

Representante Permanente de Panamá ante la OMM

Edificio Sun Tower Mall, Piso 3.

Teléfonos: 501-3800, 501-3900 – Fax: 501-3506 - CND: 230-8100 - Tumba Muerto: 501-8900.

Apartado Postal 0816-01552 - Panamá, República de Panamá.



INSTITUTO DE
INVESTIGACIONES
ELÉCTRICAS

Dirección Ejecutiva

"2014, Año de Octavio Paz"

Ref.: DE/232-2014.

Cuernavaca, Morelos a 27 de octubre de 2014.

Señor David Wilk

Jefe de la División de Cambio Climático y Sostenibilidad, a.i.
Banco Interamericano de Desarrollo
Washington D.C.

Estimado Sr. Wilk,

Nos gustaría aprovechar esta oportunidad para saludarlo muy cordialmente y agradecer al BID la oportunidad de unirnos al programa RG-T1574, "Modelaje del Cambio Climático en Latinoamérica y el Caribe", el cual será de gran ayuda para muchas de las actividades que se desarrollarán en nuestra institución. Damos la bienvenida a un nuevo programa de apoyo para los siguientes años para reforzar nuestro trabajo institucional.

Por tanto, me gustaría por medio de la presente confirmar formalmente el interés del INSTITUTO DE INVESTIGACIONES ELÉCTRICAS de México, para participar en el nuevo programa de fortalecimiento institucional de capacidad en el área de cambio climático liderado por el Banco Interamericano de Desarrollo (BID) con la contribución técnica de la Universidad de Nebraska en Lincoln. El mismo contribuirá definitivamente a llenar vacíos de conocimiento científico en temas de modelamiento climático que sean de interés y apropiadas para nuestro país a través de colaboración regional entre grupos de trabajo.

De esta forma, estamos designando al Dr. Alberto López López, investigador de la Gerencia de Ingeniería Civil, como nuestro representante en uno de esos grupos. El Dr. Alberto López estará disponible para hacer parte de todas las actividades de los grupos de trabajo que se creen, incluyendo asistencia a talleres regionales anuales que están previstos. Entendemos también que las actividades más específicas que se realizarán entre los talleres se estarán definiendo entre el BID, NCAR y todos los países que se comprometan con la iniciativa. De igual forma entendemos que los fondos para el financiamiento de dicho programa regional están siendo gestionados y su disponibilidad no está aún garantizada.

Reciba un cordial saludo,


Dr. José Luis Fernández Zayas
Director Ejecutivo

c.c.

Dr. José Miguel González Santaló, Director de Sistemas Mecánicos, IIE
M. I. Alonso Alvarado González, Gerente de Ingeniería Civil, IIE
Dr. Alberto López López, Investigador de la Gerencia de Ingeniería Civil, IIE



THE UNIVERSITY OF THE WEST INDIES

DEPARTMENT OF PHYSICS

TEL: (876) 927-1660-9 Ext. 2277-8,9/2274,
(876) 927-2480
Fax: (876) 977-1595

MONA, KINGSTON 7
JAMAICA, W.I.

Website: <http://www.mona.uwi.edu/physics/>

November 18, 2014

Mr. David Wilk,
Climate Change and Sustainability Division Chief, a.i.
Inter-American Development Bank
Washington D.C.

Dear Mr. Wilk,

We would like to take this opportunity to cordially thank the Inter-American Development Bank (IDB) for the support provided in the past through the program RG-T1574, "Modeling of Climate Change in Latin America and the Caribbean", which was a great help for many of the activities that took place at our institution and we welcome a new support program for subsequent years to further strengthen the work already begun.

Therefore, I would like to hereby formally confirm the interest of the Department of Physics, University of the West Indies, Mona, Jamaica to be part of the new program of institutional capacity building in the area of climate change led by the IDB with the technical assistance of the University of Nebraska in Lincoln. The program will definitely help fill in gaps in scientific knowledge on climate modeling that are relevant and appropriate for our country through regional collaboration between workgroups.

Thus, we are appointing Mr. Jayaka Campbell, Junior Research Fellow as our representative in one of those groups. Mr. Campbell will be available to be part of all the activities of the working groups to be created, including attending the planned annual regional workshops. We also understand that the more specific activities to be undertaken between the workshops will be defined by the IDB, NCAR and all countries that commit to the initiative. Similarly we understand that the funds to finance this regional program are being managed and their availability is not yet guaranteed.

Yours sincerely,

Michael Taylor (Professor)
Head of the Department
Director of the Climate Studies Group

Señor
David Wilk,
Jefe de la División de Cambio Climático y Sostenibilidad, a.i.
Banco Interamericano de Desarrollo
Washington D.C.

Estimado Sr. Wilk,

Nos gustaría aprovechar esta oportunidad para saludarlo muy cordialmente y agradecer al BID el apoyo brindado a través del programa RG-T1574, "Modelaje del Cambio Climático en Latinoamérica y el Caribe", el cual fue de gran ayuda para muchas de las actividades que se desarrollaron en nuestra institución. Damos la bienvenida a un nuevo programa de apoyo para los siguientes años para poder afianzar aún más el trabajo ya iniciado.

Por tanto, me gustaría por medio de la presente confirmar formalmente el interés de COMISION PERMANENTE DE CONTIGENCIAS COPECO, HONDURAS de hacer parte del nuevo programa de fortalecimiento institucional de capacidad en el área de cambio climático liderado por el Banco Interamericano de Desarrollo (BID) con la contribución técnica de la Universidad de Nebraska en Lincoln. El mismo contribuirá definitivamente a llenar vacíos de conocimiento científico en temas de modelamiento climático que sean de interés y apropiadas para nuestro país a través de colaboración regional entre grupos de trabajo.

De esta forma, estamos designando a Francisco Javier Argeñal Pinto, Meteorólogo como nuestro representante en uno de esos grupos. El Sr. Francisco Javier Argeñal Pinto estará disponible para hacer parte de todas las actividades de los grupos de trabajo que se creen, incluyendo asistencia a talleres regionales anuales que están previstos. Entendemos también que las actividades más específicas que se realizarán entre los talleres se estarán definiendo entre el BID, NCAR y todos los países que se comprometan con la iniciativa. De igual forma entendemos que los fondos para el financiamiento de dicho programa regional están siendo gestionados y su disponibilidad no está aún garantizada.

Reciba un cordial saludo,


Dr. CARLOS ANTONIO CORDERO
SUB-COMISIONADO NACIONAL COPECO



CENTRO DE ESTUDIOS
AMBIENTALES Y BIODIVERSIDAD

INSTITUTO DE INVESTIGACIONES
UNIVERSIDAD DEL VALLE DE GUATEMALA

18 AVENIDA 11-95, ZONA 15 VISTA HERMOSA III
CONTACTO: 2368-8353 EMAIL: cea@uvg.edu.gt
<http://www.uvg.edu.gt/investigacion/ceab/index.html>

Guatemala, 25 de noviembre de 2014

Señor
David Wilk,
Jefe de la División de Cambio Climático y Sostenibilidad, a.i.
Banco Interamericano de Desarrollo
Washington D.C.

Estimado Sr. Wilk,

Nos gustaría aprovechar esta oportunidad para saludarlo muy cordialmente y agradecer al BID el apoyo brindado a través del programa RG-TI574, "Modelaje del Cambio Climático en Latinoamérica y el Caribe", el cual fue de gran ayuda para muchas de las actividades que se desarrollaron en nuestra institución. Damos la bienvenida a un nuevo programa de apoyo para los siguientes años para poder afianzar aún más el trabajo ya iniciado.

Por tanto, me gustaría por medio de la presente confirmar formalmente el interés del **Centro de Estudios Ambientales y de Biodiversidad, de la Universidad del Valle de Guatemala** de hacer parte del nuevo programa de fortalecimiento institucional de capacidad en el área de cambio climático liderado por el Banco Interamericano de Desarrollo (BID) con la contribución técnica de la Universidad de Nebraska en Lincoln. El mismo contribuirá definitivamente a llenar vacíos de conocimiento científico en temas de modelamiento climático que sean de interés y apropiadas para nuestro país a través de colaboración regional entre grupos de trabajo.

De esta forma, estamos designando a **Margarita Vides Irving**, investigadora del Centro de Estudios Ambientales, como nuestro representante en uno de esos grupos. La Sra. Vides estará disponible para hacer parte de todas las actividades de los grupos de trabajo que se creen, incluyendo asistencia a talleres regionales anuales que están previstos. Entendemos también que las actividades más específicas que se realizarán entre los talleres se estarán definiendo entre el BID, NCAR y todos los países que se comprometan con la iniciativa. De igual forma entendemos que los fondos para el financiamiento de dicho programa regional están siendo gestionados y su disponibilidad no está aún garantizada.

Reciba un cordial saludo,

Edwin Castellanos, Ph.D.

Co-Director

Centro de Estudios Ambientales y de Biodiversidad

Universidad del Valle de Guatemala

Tel. (502) 2368 8353



16 de febrero 2015
N° 53-2014-IMN

Señor
David Wilk
Jefe de la División de Cambio Climático y Sostenibilidad, a.i.
Banco Interamericano de Desarrollo (BID)
Washington D.C.

Estimado señor Wilk:

Aprovecho esta oportunidad para saludarlo muy cordialmente y agradecer al BID el apoyo brindado a través del programa RG-T1574, "Modelaje del Cambio Climático en Latinoamérica y el Caribe", el cual fue de gran ayuda para muchas de las actividades que se desarrollaron en nuestra Institución. Damos la bienvenida a un nuevo programa de apoyo para los siguientes años, para poder afianzar aún más el trabajo ya iniciado.

Por tanto deseo confirmar formalmente el interés del Instituto Meteorológico Nacional (IMN) de Costa Rica, de ser parte del nuevo programa de fortalecimiento institucional de capacitación en el área de cambio climático, liderado por el BID, con la contribución técnica de la Universidad de Nebraska en Lincoln. Este programa contribuirá definitivamente a llenar vacíos de conocimiento científico en temas de modelamiento climático, que sean de interés y apropiados para nuestro país, a través de colaboración regional entre grupos de trabajo.

De ser positiva nuestra solicitud, designamos al señor Luis Fernando Alvarado Gamboa, Climatólogo, como nuestro representante en uno de esos grupos. El señor Alvarado estará disponible para ser parte de las actividades de los grupos de trabajo que se creen, incluyendo la asistencia a los talleres regionales anuales que están previstos. Entendemos también que las actividades más específicas que se realizarán entre los talleres, se estarán definiendo entre el BID, NCAR y todos los países que se comprometan con la iniciativa. De igual forma, entendemos que los fondos para el financiamiento de dicho programa regional están siendo gestionados y su disponibilidad no está aún garantizada. Aun así, deseo externarle nuestro deseo de participar plenamente y confío de su gestión a esta solicitud.

De usted con toda consideración y aprecio,



Roberto Villalobos Flores
Subdirector IMN, Costa Rica

Copia: Juan Carlos Fallas S., Director General del IMN
Luis Fernando Alvarado G., Oficial Climatólogo del IMN

Ministerio de Ambiente y Energía



IDEAM
Instituto de Hidrología,
Meteorología y
Estudios Ambientales



Al contestar por favor cite estos datos

Radicado No.: 2014400005821

Fecha: 10-11-2014

Bogotá D.C.,

Doctor

David Wilk

Jefe de la División de Cambio Climático y Sostenibilidad

Banco Interamericano de Desarrollo

Washington D.C.

Referencia: Programa de fortalecimiento institucional de capacidad en cambio climático (BID – UNL)

Respetado doctor Wilk

Nos gustaría aprovechar esta oportunidad para saludarlo muy cordialmente y agradecer al BID el apoyo brindado a través del programa RG-T1574, "Modelaje del Cambio Climático en Latinoamérica y el Caribe", el cual fue de gran ayuda para muchas de las actividades que se desarrollaron en nuestra institución. Damos la bienvenida a un nuevo programa de apoyo para los siguientes años para poder afianzar aún más el trabajo ya iniciado.

Por tanto, me gustaría por medio de la presente, confirmar formalmente el interés del Instituto de Hidrología, Meteorología y Estudios Ambientales IDEAM de Colombia de hacer parte del nuevo programa de fortalecimiento institucional de capacidad, en el área de cambio climático liderado por el Banco Interamericano de Desarrollo (BID) con la contribución técnica de la Universidad de Nebraska en Lincoln; el mismo contribuirá definitivamente a llenar vacíos de conocimiento científico, en temas de modelamiento climático que sean de interés y apropiadas para nuestro país a través de colaboración regional entre grupos de trabajo.

De esta forma, estamos designando a José Franklyn Ruiz Murcia, coordinador del Grupo de trabajo de Modelamiento de Tiempo y Clima de la Subdirección de Meteorología como nuestro representante en uno de esos grupos. Él estará disponible para hacer parte de todas las actividades de los grupos de trabajo que se creen, incluyendo asistencia a talleres regionales anuales que están previstos. Entendemos también que las actividades más específicas que se realizarán entre los talleres se estarán definiendo entre el BID, NCAR y todos los países que se comprometan con la iniciativa. De igual forma entendemos que los fondos para el financiamiento de dicho programa regional están siendo gestionados y su disponibilidad no está aún garantizada.

Cordialmente,

OMAR FRANCO TORRES
Director General.

MARIA TERESA MARTÍNEZ GÓMEZ
Subdirectora de Meteorología.



MINAMBIENTE



TODOS POR UN
NUEVO PAÍS
PAZ EQUIDAD EDUCACIÓN



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INSTITUTO DE INVESTIGACIONES FÍSICAS
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Cota Cota, calle 27 - Campus Universitario
Casilla 8635 - Telf.: 2792999 Fax: (591) 2-792622
E-mail: fisica@fiumsa.bo - www.umsanet.edu.bo/fisica/iif
La Paz - Bolivia

Física Cósmica
Física de la Admósfera
Geofísica
Física Teórica
Física Aplicada
Materiales y Ensayos
Electrónica



CITE: FCPN.IIF. No. 016/15
La Paz, 09 de febrero de 2015

Señor

David Wilk,

Jefe de la División de Cambio Climático y Sostenibilidad, a.i.
Banco Interamericano de Desarrollo
Washington D.C.

Estimado Sr. Wilk,

El Instituto de Investigaciones Físicas (IIF), dependiente de la Universidad Mayor de San Andrés (UMSA), ha recibido con interés el inicio de un nuevo programa, promovido por su institución, y que pretende afianzar y reafirmar el trabajo realizado a través del programa RG-T1574, "Modelaje del Cambio Climático en Latinoamérica y el Caribe".


Por esta razón, por intermedio de esta nota me gustaría confirmar formalmente el interés del Laboratorio de Física de la Atmósfera (LFA), dependiente del IIF-UMSA de Bolivia, en formar parte del nuevo programa de fortalecimiento institucional de capacidad en el área de cambio climático, liderado por el Banco Interamericano de Desarrollo (BID) con la contribución técnica de la Universidad de Nebraska en Lincoln.

Pienso que, el mismo contribuirá definitivamente a llenar vacíos de conocimiento científico en temas de modelamiento climático, de interés y apropiados para nuestro país a través de colaboración regional entre grupos de trabajo.

De esta forma, estamos designando al Dr. Marcos F. Andrade F., Investigador del LFA, como nuestro representante en uno de esos grupos. El Dr. M. Andrade estará disponible para formar parte de las actividades de los grupos de trabajo a crearse, incluyendo asistencia a talleres regionales anuales que están previstos como parte del programa. Entendemos que las actividades más específicas que se realizarán entre los talleres se estarán definiendo entre el BID, NCAR y todos los países que, se comprometan con la iniciativa. De igual forma entendemos que los fondos para el financiamiento de dicho programa regional están siendo gestionados y su disponibilidad no está aún garantizada.

Sin otro particular, reciba un saludo.

Atentamente,


Ing. PEDRO MIRANDA LOZA
DIRECTOR - IIF- UMSA

MA
c.c. Arch.



**PERÚ****Ministerio del
Ambiente****Servicio Nacional de Meteorología
e Hidrología del Perú - SENAMHI****Presidencia
Ejecutiva**

2007-2016 "DECENIO DE LAS PERSONAS CON DISCAPACIDAD EN EL PERÚ"
"AÑO DE LA DIVERSIFICACION PRODUCTIVA Y DEL FORTALECIMIENTO DE LA EDUCACION"

Lima, 24 de junio de 2015

CARTA N° 010/SENAMHI/PREJ-2015

Señor

DAVID WILK

Jefe de la División de Cambio Climático y Sostenibilidad, a.i.

Banco Interamericano de Desarrollo

Washington D.C.

Estimado Sr. Wilk:

Nos gustaría aprovechar esta oportunidad para saludarlo muy cordialmente y agradecer al BID el apoyo brindado a través del programa RG-T1574, "Modelaje del Cambio Climático en Latinoamérica y el Caribe", el cual fue de gran ayuda para muchas de las actividades que se desarrollaron en nuestra institución. Damos la bienvenida a un nuevo programa de apoyo para los siguientes años para poder afianzar aún más el trabajo ya iniciado.

Por tanto, nos complace por medio de la presente confirmar formalmente el interés del Servicio Nacional de Meteorología e Hidrología del Perú-SENAMHI de ser parte del nuevo programa de fortalecimiento institucional de capacidad en el área de cambio climático liderado por el Banco Interamericano de Desarrollo (BID) con la contribución técnica de la Universidad de Nebraska en Lincoln por considerar que contribuirá definitivamente a llenar vacíos de conocimiento científico en temas de modelamiento climático que sean de interés y apropiados para nuestro país a través de colaboración regional entre grupos de trabajo.

De esta forma, estamos designando al Físico **Alan Llacza Rodríguez**, Especialista en Modelamiento Numérico de la Dirección General de Meteorología como nuestro representante en uno de esos grupos. El Físico Alan Llacza estará disponible para ser parte de todas las actividades de los grupos de trabajo que se creen, incluyendo y/o coordinando la asistencia a talleres regionales anuales que están previstos. Entendemos también que las actividades más específicas que se realizarán entre los talleres se estarán definiendo entre el BID, NCAR y todos los países que se comprometan con la iniciativa. Igualmente, comprendemos que los fondos para el financiamiento de dicho programa regional están siendo gestionados y su disponibilidad no está aún garantizada.

Reciba mi cordial saludo,

Atentamente,

Ing. AMELIA YSABEL DÍAZ PABLÓ
Presidenta Ejecutiva del SENAMHI



Jr. Cahuide 785 Jesús María
Tel: 6141401 Telefax: 4717287
Email: oci@senamhi.gob.pe
www.senamhi.gob.pe

SAFEGUARD SCREENING FORM

PROJECT DETAILS	
IDB Sector	ENVIRONMENT AND NATURAL DISASTERS-CLIMATE CHANGE ADAPTATION POLICY
Type of Operation	Technical Cooperation
Additional Operation Details	
Country	REGIONAL
Project Status	
Investment Checklist	Generic Checklist
Team Leader	Grunwaldt, Alfred Hans (ALFREDG@iadb.org)
Project Title	Strengthen institutional capacity to better assess climate impacts in LAC
Project Number	RG-T2612
Safeguard Screening Assessor(s)	Ferreira, Ines Pires Araujo (inesa@IADB.ORG)
Assessment Date	2015-03-18

PROJECT CLASSIFICATION SUMMARY		
Project Category: C	Override Rating:	Override Justification:
		Comments:
Conditions/ Recommendations	<ul style="list-style-type: none"> No environmental assessment studies or consultations are required for Category "C" operations. Some Category "C" operations may require specific safeguard or monitoring requirements (Policy Directive B.3). Where relevant, these operations will establish safeguard, or monitoring requirements to address environmental and other risks (social, disaster, cultural, health and safety etc.). The Project Team must send the PP (or equivalent) containing the Environmental and Social Strategy (the requirements for an ESS are described in the Environment Policy Guideline: Directive B.3) as well as the Safeguard Policy Filter and Safeguard Screening Form Reports. 	

SUMMARY OF IMPACTS/RISKS AND POTENTIAL SOLUTIONS	
Identified Impacts/Risks	Potential Solutions

DISASTER RISK SUMMARY	
Disaster Risk Category: Low	
Disaster/ Recommendations	<ul style="list-style-type: none"> No specific disaster risk management measures are required.

ASSESSOR DETAILS

Name of person who completed screening:	Ferreira, Ines Pires Araujo (inesa@IADB.ORG)
Title:	
Date:	2015-03-18

COMMENTS

No Comments

SAFEGUARD POLICY FILTER REPORT

PROJECT DETAILS	
IDB Sector	ENVIRONMENT AND NATURAL DISASTERS-CLIMATE CHANGE ADAPTATION POLICY
Type of Operation	Technical Cooperation
Additional Operation Details	
Investment Checklist	Generic Checklist
Team Leader	Grunwaldt, Alfred Hans (ALFREDG@iadb.org)
Project Title	Strengthen institutional capacity to better assess climate impacts in LAC
Project Number	RG-T2612
Safeguard Screening Assessor(s)	Ferreira, Ines Pires Araujo (inesa@IADB.ORG)
Assessment Date	2015-03-18

SAFEGUARD POLICY FILTER RESULTS		
Type of Operation	Technical Cooperation	
Safeguard Policy Items Identified (Yes)	Type of operation for which disaster risk is most likely to be low .	(B.01) Disaster Risk Management Policy– OP-704
	The Bank will make available to the public the relevant Project documents.	(B.01) Access to Information Policy– OP-102
	The operation is in compliance with environmental, specific women's rights, gender, and indigenous laws and regulations of the country where the operation is being implemented (including national obligations established under ratified Multilateral Environmental Agreements).	(B.02)
	The operation (including associated facilities) is screened and classified according to their potential environmental impacts.	(B.03)
	The Bank will monitor the executing agency/borrower's compliance with all safeguard requirements stipulated in the loan agreement and project operating or credit regulations.	(B.07)
	Suitable safeguard provisions for procurement of goods and services in Bank financed projects may be incorporated into project-specific loan agreements, operating regulations and bidding documents, as appropriate, to ensure environmentally responsible procurement.	(B.17)

Potential Safeguard Policy Items(?)	No potential issues identified	
Recommended Action:	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.	
Additional Comments:		

ASSESSOR DETAILS	
Name of person who completed screening:	Ferreira, Ines Pires Araujo (inesa@IADB.ORG)
Title:	
Date:	2015-03-18

COMMENTS
No Comments

**PROGRAM TO STRENGTHEN INSTITUTIONAL CAPACITY TO BETTER ASSESS
CLIMATE IMPACTS IN LATIN AMERICA AND THE CARIBBEAN (LAC)**

**RG-T2612
CERTIFICATION**

I hereby certify that this operation was approved for financing under the Sustainable Energy and Climate Change Initiative (SECCI-SCI) through a communication dated March 23, 2015 and signed by Felipe Caicedo (ORP/GCM). Also, I certify that resources from said fund are available for up to **US\$505,000** in order to finance the activities described and budgeted in this document. This certification reserves resources for the referenced project for a period of four (4) 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, for which the Fund is not at risk.

[Original signed]

07/21/2015

Sonia M. Rivera
Chief
Grants and Cofinancing Management Unit
ORP/GCM

Date

APPROVAL

Approved:

[Original signed]

07/21/2015

David Wilk
Division Chief a.i.
Climate Change and Sustainability Division
INE/CCS

Date