

**PROMOTION OF INFRASTRUCTURE INNOVATIONS IN SMALL AND MEDIUM-SIZED  
MUNICIPALITIES IN BRAZIL**

**BR-T1415**

**CERTIFICATION**

I hereby certify that this operation was approved for financing under the **United Kingdom Sustainable Infrastructure Program (SIP)**, through a communication dated July 2, 2019 and signed by Carolina Cardenas (ORP/GCM). Also, I certify that resources from said fund are available for up to **US\$500,000** in order to finance the activities described and budgeted in this document. This certification reserves resource for the referenced project for a period of six (6) calendar months counted from the date of eligibility from the funding source. If the project is not approved by the IDB within that period, the reserve of resources will be cancelled, except in the case a new certification is granted. The commitment and disbursement of these resources shall be made only by the Bank in US dollars. The same currency shall be used to stipulate the remuneration and payments to consultants, except in the case of local consultants working in their own borrowing member country who shall have their remuneration defined and paid in the currency of such country. No resources of the Fund shall be made available to cover amounts greater than the amount certified herein above for the implementation of this operation. Amounts greater than the certified amount may arise from commitments on contracts denominated in a currency other than the Fund currency, resulting in currency exchange rate differences, represent a risk that will not be absorbed by the Fund.

Certified by:	Original signature	10/16/2019
	_____ Sonia M. Rivera Chief Grants and Co-Financing Management Unit ORP/GCM	_____ Date

Approved by:	Original signature	10/17/2019
	_____ Nestor H. Roa Division Chief Transport Division INE/TSP	_____ Date

## TC DOCUMENT

### I. BASIC INFORMATION FOR TC

▪ Country/Region:	BRASIL
▪ TC Name:	Promotion of Infrastructure Innovations in Small and Medium-sized Municipalities in Brazil
▪ TC Number:	BR-T1415
▪ Team Leader/Members:	Maia Ribeiro, Karisa (INE/TSP) Team Leader; Brakarz, Barbara (CSD/CCS) Alternate Team Leader; Alarcon, Arturo (INE/ENE); Baladi Rodriguez, Aziz (INE/TSP); Cabrera Botero, Maria Margarita (CSD/CCS); Carpizo Riva Palacio, Carlos Ignacio (VPC/FMP); Celeste Marzo, Cristina (LEG/SGO); Cocha, Agustina (INE/TSP); Hobbs, Jason Anthony (CSD/HUD); Mendez Torrico, E. Gustavo (INE/WSA); Nunes Nishiyama, Leandro (CSC/CBR); Rosa Da Silva Cruvinel, Rodrigo (INE/TSP); Zoghbi, Eduarda Oliveira (CSD/CCS); Valente Lins, Paula (CSC/CBR); De Oliveira Santos, Lorayne (CSC/CBR)
▪ Taxonomy:	Operational Support
▪ Operation Supported by the TC:	BR-L1503, BR-T1375, BR-T1395, BR-T1377
▪ Date of TC Abstract authorization:	30 May 2019
▪ Beneficiary:	Banco do Brasil and eligible Brazilian municipalities of BR-L1503
▪ Executing Agency:	Inter-American Development Bank
▪ Donors providing funding:	United Kingdom Sustainable Infrastructure Program (SIP)
▪ IDB Funding Requested:	US\$500.000,00
▪ Local counterpart funding, if any:	N/A
▪ Disbursement period (which includes Execution period):	36 months
▪ Required start date:	November, 2019
▪ Types of consultants:	Individuals; Firms
▪ Prepared by Unit:	INE/TSP-Transport Division
▪ Unit of Disbursement Responsibility:	CSC/CBR-Country Office Brazil
▪ TC included in Country Strategy (y/n):	Yes
▪ TC included in CPD (y/n):	No
▪ Alignment to the Update to the Institutional Strategy 2010-2020:	Social inclusion and equality; Productivity and innovation; Institutional capacity and rule of law; Environmental sustainability; Climate change;

### II. OBJECTIVES AND JUSTIFICATION

**2.1 General Background:** Brazil has a total of 5,570 municipalities<sup>1</sup>, which generally have low management capacity, resulting in the dispersion of actions and underutilization of scarce public resources. According to the FIRJAN Fiscal Management Index<sup>2</sup>, only 13 of the 4,544 municipalities evaluated received an excellence rating for public resource management. Smaller municipalities are most affected by the lack of technical capacity, procurement operations,

<sup>1</sup> Forty-one municipalities with more than 500,000 inhabitants (or 30% of Brazil's total population); 618 with a population of between 500,000 and 50,000 (38%); 1,100 with between 50,000 and 20,000 (16%); and 3,811 with 20,000 or fewer inhabitants (16%). Source: Instituto Brasileiro de Geografia e Estatística (IBGE).

<sup>2</sup> Industry Federation of the State of Rio de Janeiro (FIRJAN) [Fiscal Management Index 2017](#).

resources for investment<sup>3</sup>, and the financial capacity required to obtain funding. The literature shows that the economic and social impact of investment spending depends on its efficiency, whereas the efficiency of investment spending depends fundamentally on how it is managed. A recent study shows that 30% of the potential benefits of public investment in a selected group of countries is squandered through management inefficiencies<sup>4</sup>. While the GDP impact of a 1% increase in investment in countries with efficient public investment management institutions is around 0.6%, the impact drops to half (0.3%) in those that have inefficient systems. The evidence in Latin America also suggests that better investment management can help close efficiency gaps: countries that have more developed national public investment systems have better efficiency indices<sup>5</sup>. According to the FNP<sup>6</sup>, innovation could be one way to overcome these weaknesses. However, the World Bank<sup>7</sup> argues that improving the efficiency of public spending and investment requires systems to monitor and evaluate existing policies and programs.

- 2.2 The IDB approved a loan operation of US\$600 million with Banco do Brasil (BB) called Investment Program in Public Infrastructure Management for Municipal Efficiency (Municipal Efficiency Program) (4691/OC-BR), in the Global Credit modality, which its main objective is to execute sub-loans in small and medium size municipalities (up to 500,000 inhabitants) in order to support the modernization of their infrastructures in the transport, energy and water sectors. It is important to mention that it was a great challenge for the Bank to approve this operation, considering the complexities of having small and medium size municipalities as sub-borrowers, and by virtue of the multisectoral nature of this investment loan project, which involved multiple divisions and departments of the Bank. In addition, it is not very common for the Bank to grant loans to small and medium municipalities, due to the high transaction costs to structure these operations.
- 2.3 Despite the BB's capacity throughout the national territory, the weak institutional capacities present in a large portion of the Brazilian municipalities have limited the BB to transfer good practices, particularly in infrastructure projects. Due to its nature as a commercial bank, BB has encountered some challenges in: (i) creating internal institutional capacities to design innovative instruments; and (ii) transfer good practices in its lines of credit to government entities.
- 2.4 As a consequence of the situation, at requested of BB, the IDB approved a TC (ATN/OC-16563-BR) to support the process of structuring the loan operation and the preparation of innovative tools to support the execution of the loan operation. The innovative tool will be an online platform, which will include: (i) financial, administrative and technical information of the operation in the same repository; (ii) the automation in the generation of supervision reports of the program to the IDB and of statistical data, with the use of machine learning for the identification and mitigation of risks; (iii) scripts and documents for the municipalities institutional strengthening, for public procurement processes and for the preparation of projects; and (iv) an "open innovation" sheet, to disseminate

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<sup>3</sup> IBGE: [Perfil dos municípios brasileiros 2015](#).

<sup>4</sup> International Monetary Fund (IMF), 2015. [Making Public Investment More Efficient](#).

<sup>5</sup> Armendariz and Contreras. [El gasto de inversión pública en América Latina: cuánto y cuán eficiente](#). 2016.

<sup>6</sup> Frente Nacional dos Prefeitos (FNP). Anuário Multicidades – [Finanças dos municípios do Brasil. Ano 13, 2018](#).

<sup>7</sup> World Bank. A Fair Adjustment: An Analysis of the Efficiency and Equity of Public Spending in Brazil: Volume 1, Overview, November 2017.

innovative tools offered by startups that promote infrastructure efficiency in the areas covered by the loan.

- 2.5 **Problem.** The economic disparity that exists in Brazil, especially between different states and municipalities is enormous. Expanding the sources of financing for the technological modernization of smaller municipalities is essential to improve their economies. An opportunity was identified to support and train municipalities to adopt elements of sustainability in the planning and execution of infrastructure projects, helping the Bank and the country to meet its sustainable development goals.
- 2.6 Moreover, the resources currently provided with ATN/OC-16563-BR are only enough for the structuring of the online platform. For this reason, there is an important challenge for the maintenance and operation of the platform, an essential activity to carry out open innovation actions, for the realization of the process of identification, updating and advertising of the existing technologies together with the sub-borrowers. Also, this platform is an opportunity: (i) to support to disclosure the activities under development by TC ATN/JF-16881-BR, through the offering a channel to municipalities to access a repository with technical documents to support the preparation of infrastructure projects, including the energy sector; and (ii) to support municipalities to incorporate a sustainable framework in their projects, by offering access to the products developed by TC ATN/MC-16594-BR, that it was developed with the Federal Brazilian government for planning, design, and programming of sustainable infrastructure programs, and to enable the financial tools, regulatory and policy frameworks required to scale them up.
- 2.7 The objectives of this technical cooperation are: (i) to support the implementation of the supervision and monitoring platform for the loan operation with Banco do Brasil (4691/OC-BR); (ii) to technically support the eligible municipalities of the operation for the implementation of sustainable infrastructure projects; and (iii) to strengthen the development of activities to identify innovative and more efficient technologies to increase the efficiency of resilient infrastructures of Brazilian municipal public entities.
- 2.8 The modernization of municipal systems with the use of more efficient technologies, will promote the rational use of human and natural resources and make it possible to reduce systemic losses, improve public service delivery, increase energy efficiency, and enhance public expenditure with sustainable infrastructure in the municipalities. These investments will help Brazil achieve its targets, as defined in its Nationally Determined Contributions<sup>8</sup> under the United Nations Framework Convention on Climate Change, since the energy and transport sectors jointly accounted for 50% of Brazil's greenhouse gas emissions<sup>9</sup>. Investments to reduce losses in water supply systems will enable municipalities to adapt better to the effects of climate change.
- 2.9 It is important to highlight that the IDB has some previous experiences in the creation and strengthening of good institutional practices, such as those obtained in PROCIDADES (1986/OC-BR and 2957/OC-BR), which financed investments in integrated urban interventions. In addition, the IDB has some experience in operational support for the execution of loan executions, such as the project to Support of the Design and Implementation of PR-L1070 (ATN/KF-13762-PR), which conducted a series of studies to obtain baseline indicators and business innovation surveys, and the project Inputs for the Design and Execution of the Programs for the Fiscal and Public Investment Expenditure Strengthening in

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<sup>8</sup> [Ratification by Brazil of the Paris Agreement in September 2016.](#)

<sup>9</sup> SEEG. [Greenhouse Gas Emissions and Removals Estimates, Total Emissions.](#) 2016.

Subnational Entities (ATN/FG-13797-CO), which supported the execution of the urban development components of loan operations 3104/OC-CO and 3392/OC-CO. These experiences will contribute to bring greater efficiency and effectiveness to the line of joint financing in structuring by banks.

- 2.10 **Strategic alignment.** The TC and is consistent with the Institutional Strategy Update 2010-2020 (AB-3008), and is aligned with the development challenges, including the cross-cutting challenges of: (i) social inclusion and equality, by offer access to small and medium size Brazilian municipalities to technologies that will support the improvement of the local infrastructure; (ii) productivity and innovation, by foster the use of techniques to improve infrastructure project development; (iii) climate change and environmental sustainability, by fostering the use of more efficient technologies in the infrastructure sector; and (iv) institutional capacity and rule of law, by develop instruments that will support governmental entities in the process of planning and development of projects. It is aligned with the Brazilian Country Strategy (GN-2973) in: (i) to increase the prominence of the private sector, through the improvement of the quality of the business environment; and (ii) to reduce infrastructure gaps. The TC also is aligned with the Update to the Institutional Strategy - Development Solutions that Reignite Growth and Improve Lives (AB-3190-2) by promoting technology adoption and innovation in LAC, through fostering operations monitoring by an electronic platform and to forecast actions to support the identification of sustainable technologies that could be used by municipalities.
- 2.11 Likewise, the TC is consistent with the: (i) Sustainable Infrastructure Strategy for Competitiveness and Inclusive Growth (GN-2710-5), with the objective of supporting the construction and maintenance of a social and environmental sustainable infrastructure that contributes to increasing quality of life, through the prioritization of projects that improve public and private financing in an innovative way; (ii) Transportation Sectoral Framework Document (SFD) (GN-2740-7), as it contributes to increasing competitiveness and promoting regional integration for the benefit of inclusive economic growth through financing, technical assistance and the dissemination of new knowledge to its member countries; (iii) Climate Change Sectoral Framework Document (SFD) (GN-2835-8), as it will contribute to make climate change considerations more central to sector actions; (iv) Sectorial Strategy for the Support of Regional and Global Competitive Incorporation (GN-2565-4), by promoting regional capacity for management of transport infrastructures; and (v) Corporate Results Framework (GN-2727-6), at aligning at least one challenge or cross-cutting issue of the AB-3008 update. Lastly, the TC meets the objectives of the United Kingdom Sustainable Infrastructure (GN-2903) by supporting investments to offer technical support the development of sustainable and low carbon infrastructure for smaller size Brazilian municipalities, activities that also will contribute to the implementation of the Nationally Determined Contributions (NDCs) of the Paris Agreement.
- 2.12 The CT is also aligned with the Brazilian federal government's guideline established in the Nationally Determined Contributions (NDC)<sup>10</sup>, by seeking to bring improvements in transport infrastructure and the use of more energy-efficient equipment.

### III. DESCRIPTION OF ACTIVITIES AND OUTPUTS

- 3.1 The main activities that will be developed within the framework of this TC include:

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<sup>10</sup> Enacted by [Decree No. 9,073, of June 5, 2017](#).

- 3.2 **Component 1. Development of platform maintenance (US\$200,000).** This component will support the maintenance and execution of the monitoring platform of municipal infrastructure projects. The activities to be financed will include: (i) maintenance, monitoring and supervision of the infrastructure project platform developed in TC ATN/OC-16563-BR; (ii) technological support to the platform for the maintenance and offering of interactive training of the society and users for the accompaniment, monitoring of infrastructure undertakings; (iii) courses and workshops to disseminate the knowledge obtained with the operation of the platform and the loan operation with BB; and (iv) preparation of an interactive manual for the municipalities.
- 3.3 **Component 2. Technical support to eligible municipalities of smaller size in the development of sustainable and low carbon infrastructure (US\$270,000).** This component will support with a sectoral technical team the municipalities that will execute sub-loans projects with resources from the project 4691/OC-BR, and also it will support the process of identification and regionalization of innovative technologies developed for the monitoring of resilient, sustainable and low carbon infrastructure focused on municipalities. The activities to be financed will include: (i) promoting standards for project designs and project analysis; (ii) encouraging the implementation of innovative solutions in all sectors more sustainable for the environment and that potentially could offer improvements on the benefit-cost for the infrastructure projects; (iii) making public calls to identify technologies, including 2 project pilots in a municipal level; (iv) holding regional events to promote existing technologies; (v) preparation of sectorial materials (water, transport and energy) for dissemination; (vi) holding a tender to encourage the development of sustainable, low-carbon innovative technologies focused on the modernization of infrastructures of small and medium-sized cities; and (vii) a study to measure the regional impacts of new sustainable infrastructure technologies in municipalities and their impacts in order to meet the goal of the NDC in Brazil.
- 3.4 **Component 3. Dissemination of knowledge on issues of resilient infrastructure and climate change (US\$30,000).** This component will support the dissemination of knowledge through different means: (i) studies for the adoption of new technologies in loan operations and their impacts on national and subnational entities; (ii) studies to improve the management of infrastructure projects; and (iii) structuring of products for dissemination of knowledge, including printed and digital materials.

Indicative Budget (US\$)

Component	Description	IDB/SIP	Total Funding
1	Technological support for the infrastructure project platform of the loan operation between the IDB and BB and the user manual concluded	180,000	180,000
	Training workshops for the use of the infrastructure project platform of the loan operation between IDB and Banco do Brasil	20,000	20,000
2	Standards of project designs of projects completed	50,000	50,000
	Support the review of technical products	50,000	50,000
	Making public calls to identify sustainable and low-carbon innovative technologies focused on modernization of infrastructure of small and medium-sized cities completed	30,000	30,000
	Regional events to promote existing technologies carried out	20,000	20,000
	Regional impacts of low carbon and sustainable infrastructure technologies in municipalities concluded	50,000	50,000
	Participants in intraregional exchange providing advisory services	10,000	10,000

	Actions to promote the implementation of innovative infrastructure solutions and pilot projects concluded	60,000	60,000
3	Publications of the results and innovative experiences obtained	6,000	6,000
	Events for dissemination of results and innovative experiences obtained with the project	10,000	10,000
	Technical Notes	10,000	10,000
	Participants in intraregional exchange providing advisory services	4,000	4,000
<b>Total</b>		<b>500,000</b>	<b>500,000</b>

- 3.5 This TC is requesting a US\$500,000 to start the development of the activities. However, it will be necessary a US\$500,000 amount increment for concluding all activities forecasted.

#### **IV. EXECUTING AGENCY AND EXECUTION STRUCTURE**

- 4.1 By request of the beneficiary, the IDB will be the executing agency of this TC. This execution structure justifies due to the experience of the IDB: (i) with the preparation of the platform, developed under TC ATN/OC-16563-BR; and (ii) the experience with innovative activities in infrastructure in Latin America and the Caribbean, to provide technical knowledge in the development and execution of the components, as in TC ATN/OC-12472-RG, whose included a pilot study on vulnerability and adaptation of transport systems, and in TC ATN/OC-15782-RG, that developed a platform to reduce asymmetry of information in the utilities urban services of transport, water and sewage.
- 4.2. In this sense, the Bank will be responsible by: (i) identifying the studies and technical work necessary to structure the project; (ii) selecting and hiring consultants to provide the necessary services; and (iii) manage the execution and delivery of consulting services. The Bank will contract the services of individual consultants and consulting firms in accordance with the policies and procedures in force in the Bank. The activities will be executed in accordance with the Bank's established procurement methods, namely: (i) recruitment of individual consultants, as established in AM-650; (ii) hiring consulting firms for services of an intellectual nature according to GN-2765-1 and its associated operational guides (OP-1155-4); and (iii) hiring of logistic services and other services other than consulting, according to the policy GN-2303-20.
- 4.3. The execution time and disbursements of the TC is estimated at 36 months. CSC/CBR will act as the Basic Responsibility Unit (URB) of these contracts.
- 4.4. The IDB staff is expected to provide specialized technical and quality knowledge on the activities that will be implemented. In this regard, missions<sup>11</sup> are foreseen to support the execution of the proposed activities. This is essential for the proper application of the TC and to ensure adequate and coordinated cooperation between the Bank and the BB.

#### **V. PROJECT RISKS AND ISSUES**

- 5.1 Some potential risks may arise due to the merging of process and cultures between the banks, specially while attempting to establish more innovative processes through combining the vision of a development bank and a commercial bank in terms of management processes and the structuring of government projects. In addition, adaptation risks may also arise with municipal entities while promotion the adoption of the measures for the management of infrastructure projects. To mitigate these risks, the TC will be executed in close

<sup>11</sup> Travel of IDB staff will be done with administrative budget for regular supervision travel.



collaboration with the BB, and will require extensive involvement from sector specialists of Infrastructure and Energy Sector (INE - ENE, TSP and WSA); Competitiveness, Technology and Innovation Sector (CTI); the Fiscal and Municipal Management Sector (FMM); and the Climate Change and Sustainability Sector (CCS).

- 5.2. Also, it was identified a related risk with: (i) delays during the 4691/OC-BR project implementation that could affect the platform operation; and (ii) the unilateral cancelation of the platform maintenance contract by the consultancy firm, that could contribute to occurs delays with the implementation of the 4691/OC-BR project. These risks will be mitigated, respectively with: (i) a contract management by the IADB, to do the hire process in an adequate project stage; and (ii) with the utilization of the technical platform developer manual and with contractual clauses that will request to share periodically backups of the system, allowing to hire a new consultant company and to maintain the platform operation.

## **VI. EXCEPTIONS TO BANK POLICY**

- 6.1 No exceptions to Bank policies were identified.

## **VII. ENVIRONMENTAL AND SOCIAL CLASSIFICATION**

- 7.1 The ESG classification for this operation is "C"<sup>12</sup>.

### **REQUIRED ANNEXES:**

- [Request from the Client](#)
- [Results Matrix](#)
- [Terms of References](#)
- [Procurement Plan](#)

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<sup>12</sup> [Safeguard Policy Filter Report \(SPF\)](#) and [Safeguard Screening Form \(SSF\)](#).



**Rosa Da Silva Cruvinel, Rodrigo**

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**From:** esrondon@bb.com.br  
**Sent:** Friday, June 14, 2019 4:14 PM  
**To:** Rosa Da Silva Cruvinel, Rodrigo  
**Cc:** Maia Ribeiro, Karisa; felipelopes@bb.com.br; maargenton@bb.com.br  
**Subject:** Cooperação Técnica BB-BID

Prezado Rodrigo,

A/C ao Representante do Banco Interamericano de Desenvolvimento (BID) no Brasil

O Banco do Brasil (BB) oferece uma estrutura de atendimento especializado ao setor público, englobando o governo federal e os governos estaduais e municipais. O escopo da parceria que estamos prestes a formalizar, por meio da captação de US\$600 milhões pelo Banco do Brasil, visa permitir ao BB realizar financiamentos aos municípios para a modernização da gestão administrativa e fiscal municipal, projetos de melhoria da iluminação pública e de eficiência energética em edifícios públicos, saneamento básico e máquinas e equipamentos para infraestrutura viária e mobilidade urbana.

O alto grau de heterogeneidade dos municípios brasileiros e os desafios inerentes a esses clientes no que concerne à identificação de necessidade e atendimento especializado, visto que normalmente carecem de capacidade institucional para elaborar e gerenciar projetos de infraestrutura, motivaram o BB a solicitar apoio do BID, por meio de uma cooperação técnica, em complemento ao programa de financiamento BR-L1503 (Programa Eficiência Municipal), ao entender que seria fundamental o apoio técnico do BID na execução da operação de empréstimo BR-L1503.

Com o objetivo de fortalecer e estimular o desenvolvimento dessas ações, solicitamos uma cooperação técnica não-reembolsável (de valor a ser estimado por esse BID), para apoiar no processo de implantação e operação da plataforma de supervisão e monitoramento e preparação da operação de crédito BR-L1503, na disponibilização de apoio técnico para projetos de infraestrutura sustentáveis em municípios elegíveis da operação crédito supramencionada, e para o fortalecimento do desenvolvimento de atividades para identificar tecnologias inovadoras e mais eficientes para aumentar a eficiência das infraestruturas resilientes em municípios brasileiros.

Ademais, solicitamos que a execução do projeto seja realizada diretamente pelo BID, permanecendo o BB como beneficiário e interlocutor do projeto. Tal pedido advém do fato do BID possuir experiência e equipe com expertise na execução de estudos e projetos para entes governamentais da América Latina e Caribe, o que traz a possibilidade de aportar know-how e dar celeridade para a execução destas atividades.

Na oportunidade, aproveito para reiterar votos de consideração e respeito e permaneço a disposição para eventuais esclarecimentos.

Atenciosamente,

Emmanuel Schmidt Rondon  
Gerente Executivo  
Banco do Brasil

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25/03/2019

SEI/MP - 8202549 - Ofício

03400.000086/2019-74  
SEI nº 8202549



MINISTÉRIO DA ECONOMIA  
SECRETARIA ESPECIAL DE COMÉRCIO EXTERIOR E ASSUNTOS INTERNACIONAIS  
SECRETARIA DE ASSUNTOS ECONÔMICOS INTERNACIONAIS

**Ofício nº 22680/2019/CORES-SEAIN/MP**

Brasília/DF, 22 de março de 2019.

Ao Senhor  
FELIX PRIETO  
Chefe de Operações

**BANCO INTERAMERICANO DE DESENVOLVIMENTO - BID**

SEN Quadra 902 conjunto F Lote 39  
70800-400 - Brasília/DF

**Assunto: Informe de Não Objeção - Apoio ao Projeto "Promoção de inovações de infraestrutura em municípios de pequeno e médio porte do Brasil".**

Prezado Senhor

1. Faço referência à correspondência de 21 de março de 2019, pela qual Vossa Senhoria solicita posicionamento a respeito do apoio à operação de cooperação técnica "Promoção de inovações de infraestrutura em municípios de pequeno e médio porte do Brasil", no valor de US\$ 1.000.000,00.
2. A propósito, informo que esta Secretaria não apresenta objeções quanto ao projeto supramencionado.

25/03/2019

SEI/MP - 8202549 - Ofício



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Outputs	Unit of Measure	Baseline	Baseline Year	Means of verification	Physical Progress				Financial Progress				Theme	Fund	Flags
					2020	2021	2022	EOP	2020	2021	2022	EOP			
2.4 Seminars organized	Seminars (#)	0	2019	Proceedings of the seminars approved by the executing agency of the program	P	0	0	2	P	0	20000	0	20000	Sustainable Infrastructure	SIP
					P(a)	0	0	2	P(a)	0	20000	0	20000		
2.5 Impact evaluations designed	Evaluations (#)	0	2019	Document finalized and approved by the executing agency of the program	A				A					Sustainable Infrastructure	SIP
					P	0	0	1	P	20000	30000	0	50000		
					P(a)	0	0	1	P(a)	20000	30000	0	50000		
2.6 Participants in intraregional exchange providing advisory services	Individuals (#)	0	2019	Reports finalized and approved by the executing agency of the program	A				A					Sustainable Infrastructure	SIP
					P	1	1	1	P	0	0	10000	10000		
					P(a)	1	1	1	P(a)	0	0	10000	10000		
2.7 Pilot interventions implemented	Pilots (#)	0	2019	Report document finalized and approved by the executing agency of the program	A				A					Sustainable Infrastructure	SIP
					P	0	1	1	P	30000	30000	0	80000		
					P(a)	0	1	1	P(a)	30000	30000	0	80000		
3 Dissemination of knowledge on issues of resilient infrastructure and climate change					A				A						
3.1 Technical notes created	Technical notes created	0	2019	Document finalized and approved by the executing agency of the program	P	0	0	1	P	0	0	10000	10000	Sustainable Infrastructure	SIP
					P(a)	0	0	1	P(a)	0	0	10000	10000		
3.2 Seminars organized	Seminars (#)	0	2019	Seminars reports approved by the executing agency of the program	A				A					Sustainable Infrastructure	SIP
					P	0	0	1	P	0	0	10000	10000		
					P(a)	0	0	1	P(a)	0	0	10000	10000		
3.3 Participants in intraregional exchange providing advisory services	Individuals (#)	0	2019	Reports finalized and approved by the executing agency of the program	A				A					Sustainable Infrastructure	SIP
					P	0	0	1	P	0	2000	2000	4000		
					P(a)	0	0	1	P(a)	0	2000	2000	4000		
3.4 Presentations delivered	Presentations (#)	0	2019	Publications finalized and approved by the executing agency of the program	A				A					Sustainable Infrastructure	SIP
					P	0	1	2	P	0	2000	4000	6000		
					P(a)	0	1	2	P(a)	0	2000	4000	6000		

Other Cost

Total Cost

	2020	2021	2022	Total Cost
P	\$150,000.00	\$224,000.00	\$126,000.00	\$500,000.00
P(a)	\$150,000.00	\$224,000.00	\$126,000.00	\$500,000.00
A				

## **Support for the Maintenance of the Operation Supervision Platform**

### **Background:**

The Inter-American Development Bank (IDB) has carried out a US\$600 million credit operation, with Banco do Brasil (BB), to make sub-loans for municipalities of up to 500 thousand inhabitants, in order to support the modernization of their infrastructure in the energy, water and transportation sectors.

To support the structuring of the credit operation, an electronic platform has been prepared by the IDB to support the supervision and monitoring processes of municipal projects of infrastructure that are financed with sub-loan resources. Achieving the objective, the platform adds tools that make possible: (i) having financial, administrative and technical information about the operation in the same repository; (ii) automating the generation of reports of supervision of the program to the IDB and statistical data, using machine learning for identification and mitigation of risks; (iii) offering scripts and documents for the institutional strengthening of the sub-borrowers of the program in processes of public procurement and for the elaboration of projects; and (iv) disseminating innovative tools offered by startups that promote efficiency in infrastructure projects.

Considering this, the IDB seeks to offer technical support to eligible municipalities of the operation for the implementation of sustainable infrastructure projects and strengthening the development of activities to identify innovative and more efficient technologies to increase the efficiency of the infrastructure resilience of municipal public entities in Brazil.

### **The Team's Mission:**

IDB Transport's Division has one of the largest project portfolios within the IDB, with more than \$11 billion operations in execution and with US\$1.5 billion overall approvals per year. The division also manages 70 Technical Cooperation operations for US\$49 million.

### **What You'll Do:**

The contractual must perform the following tasks:

- Task 1

Giving the technological support in full-time for the maintenance of the platform (which must remain available 24 hours, 7 days a week), based on the technical specifications presented in the operation manual of the platform.

- Task 2

Developing the platform – making improvements in the functionality, including the updates in the database with the inclusion of new implementations related to data group or fields, and the optimization of the platform - implements which aims the improvement of performance and analyzes to improve the performance of the database in production.

- Task 3

Preparation and execution of training, in person and remotely, for the use of the platform. The activity includes the preparation of a pedagogical and interactive script for training users to use the platform.

All products must be presented in Portuguese by electronic format and must be submitted to IDB for approval. All the forms and files that comprises the project must be delivered in an editable format, that is, that allows the modification of the information, in Microsoft Office, and, when applicable, in geo-referenced data formats for Google Earth and GIS Software's.

Spreadsheets, graphics, etc. must be delivered to the contractor with all the information, including formulas and fund data, needed for the simulation of other scenarios or contexts. No data can be undercover.

Spreadsheets may not contain macros or functions that do not exist or fall under the file formats defined in this document.

All information contained in reports, spreadsheets and other documents must be traceable and have their sources identified, in order to allow the reproduction of the presented calculations and information.

The final version of each product, defined as the one that has been accepted, must go through the analysis of a Portuguese-speaking professional.

### **Deliverables and Payments Timeline:**

The contractual shall deliver the following products:

- a) Product 1: Work plan;
- b) Product 2: Preliminary Report of Task 1;
- c) Product 3: Preliminary Report of Task 2;
- d) Product 4: Preliminary Report of Task 3;
- e) Product 5: Final report containing all the activities requested in Task 1;
- f) Product 6: Final report containing all the activities requested in Task 2;
- g) Product 7: Final report containing all the activities requested in Task 3;
- h) Product 8: Final report consolidated.

Products payments will be made in accordance with the following schedule:



	Percentage of payment	Estimated payment term
i.	5% after the submission and approval of Product 1	Up to 15 days after the signing of the contract
ii.	15% after the submission and approval of Product 2	Up to 6 months after the signing of the contract
iii.	15% after the submission and approval of Product 3	Up to 12 months after the signing of the contract
iv.	15% after the submission and approval of Product 4	Up to 18 months after the signing of the contract
v.	10% after the submission and approval of Product 5	Up to 15 months after the signing of the contract
vi.	10% after the submission and approval of Product 6	Up to 18 months after the signing of the contract
vii.	10% after the submission and approval of Product 7	Up to 27 months after the signing of the contract
viii.	20% after the submission and approval of Product 8	Up to 30 months after the signing of the contract

### **Skills Needed:**

To fulfill the objectives of this contract, the legal entity must have the following qualifications:

- i. Nonprofit or non-profit company with at least 10 years of experience in systems development and maintenance.
- ii. The general coordinator must have at least a master's degree in project management, quality or related areas and a minimum of 10 years of experience in software project management.

### **Core and Technical Competencies:**

The consultancy must have knowledge in Java, J2EE, Databases (MySQL, Postgre, Oracle, Microsoft SQL), Hibernate, Mobile Technologies (Android and iOS). Also, the consultancy must have implemented development processes for Software in accordance with ISO 12207 and ISO 15504.

### Opportunity Summary:

- **Type of contract and modality:** External Products and Services Contractual (PEC), Fixed Amount
- **Length of contract:** 30 months
- **Starting date:** October 15, 2019
- **Location:** Consulting must be based in Brazil
- **Responsible person:** Karisa Maia, Senior Transport Specialist (TSP/CBR)
- **Requirements:** Must be from one of 48-member countries of the IDB Group
- **Travels:** All travel costs will be included in the overall contract amount

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

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

## **Technical Support to Municipalities for the Development of Sustainable and Low Carbon Infrastructure**

### **Background:**

The Inter-American Development Bank (IDB) has carried out a US\$600 million credit operation, with Banco do Brasil (BB), to make sub-loans for municipalities of up to 500 thousand inhabitants, in order to support the modernization of their infrastructure in the energy, water and transportation sectors.

To support the structuring of the credit operation, an electronic platform has been prepared by the IDB to support the supervision and monitoring processes of municipal projects of infrastructure that are financed with sub-loan resources. Achieving the objective, the platform adds tools that make possible: (i) having financial, administrative and technical information about the operation in the same repository; (ii) automating the generation of reports of supervision of the program to the IDB and statistical data, using machine learning for identification and mitigation of risks; (iii) offering scripts and documents for the institutional strengthening of the sub-borrowers of the program in processes of public procurement and for the elaboration of projects; and (iv) disseminating innovative tools offered by startups that promote efficiency in infrastructure projects.

Considering this, the IDB seeks to offer technical support to eligible municipalities of the operation for the implementation of sustainable infrastructure projects and strengthening the development of activities to identify innovative and more efficient technologies to increase the efficiency of the infrastructure resilience of municipal public entities in Brazil.

### **The Team's Mission:**

IDB Transport's Division has one of the largest project portfolios within the IDB, with more than \$11 billion operations in execution and with US\$1.5 billion overall approvals per year. The division also manages 70 Technical Cooperation operations for US\$49 million.

### **What You'll Do:**

The contractual must perform the following tasks:

- Task 1

Offer support in carrying out project analysis and in promoting project standards together with the operation BR-L1503 eligible municipalities. Activities must include the review of the project standards developed to promote innovative technical solutions to drives efficiencies to projects in the sectors covered by the program (water losses, energy efficiency of buildings and public lighting and pavement management systems).

- Task 2

Support the preparation and execution of public calls for identifying technological solutions to drive efficiencies to projects in the sectors covered by the program (water losses, energy efficiency of buildings and public lighting and pavement management systems), including the support to analyze and to promote innovative infrastructure solutions identified.

All products must be presented in Portuguese by electronic format and must be submitted to IDB for approval. All the forms and files that comprises the project must be delivered in an editable format, that is, that allows the modification of the information, in Microsoft Office, and, when applicable, in geo-referenced data formats for Google Earth and GIS Software's.

Spreadsheets, graphics, etc. must be delivered to the contractor with all the information, including formulas and fund data, needed for the simulation of other scenarios or contexts. No data can be undercover.

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All information contained in reports, spreadsheets and other documents must be traceable and have their sources identified, in order to allow the reproduction of the presented calculations and information.

The final version of each product, defined as the one that has been accepted, must go through the analysis of a Portuguese-speaking professional.

### **Deliverables and Payments Timeline:**

The contractual shall deliver the following products:

- a) Product 1: Work plan;
- b) Product 2: Preliminary Report of Task 1;
- c) Product 3: Preliminary Report of Task 2;
- d) Product 4: Final report containing all the activities requested in Task 1;
- e) Product 5: Final report containing all the activities requested in Task 2;
- f) Product 6: Final report consolidated.

Products payments will be made in accordance with the following schedule:

	Percentage of payment	Estimated payment term
i.	10% after the submission and approval of Product 1	Up to 30 days after the signing of the contract
ii.	20% after the submission and approval of Product 2	Up to 6 months after the signing of the contract
iii.	20% after the submission and approval of Product 3	Up to 12 months after the signing of the contract
iv.	20% after the submission and approval of Product 4	Up to 18 months after the signing of the contract
v.	20% after the submission and approval of Product 5	Up to 21 months after the signing of the contract
vi.	10% after the submission and approval of Product 6	Up to 24 months after the signing of the contract

### Skills needed:

To fulfill the objectives of this contract, the consultant must have the following qualifications:

- **Education:** Master's degree in engineering or related areas.
- **Experience:** The contractual must have at least 5 years of experience in the field of project preparation. Previous experience with multilaterals organism is required. Desirable knowledge and experience in innovative and disruptive technologies on transport, or water or energy sectors in Brazil.
- **Languages:** Fluence in Portuguese. It is desirable knowledge in English and Spanish.

### Opportunity Summary:

- **Type of contract and modality:** External Products and Services Contractual (PEC), Fixed Amount
- **Length of contract:** 24 months
- **Starting date:** November 01, 2019
- **Location:** Consulting must be based in Brazil
- **Responsible person:** Karisa Maia, Senior Transport Specialist (TSP/CBR)
- **Requirements:** You are a citizen of one of our 48-member countries and have no family members currently working at the IDB Group

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

**We encourage women, afro-descendants, people of indigenous origins, and persons with disabilities to apply.**

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## **Support for the Dissemination of Knowledge on Issues of Resilient Infrastructure and Climate Change**

### **Background:**

The Inter-American Development Bank (IDB) has carried out a US\$600 million credit operation, with Banco do Brasil (BB), to make sub-loans for municipalities of up to 500 thousand inhabitants, in order to support the modernization of their infrastructure in the energy, water and transportation sectors.

To support the structuring of the credit operation, an electronic platform has been prepared by the IDB to support the supervision and monitoring processes of municipal projects of infrastructure that are financed with sub-loan resources. Achieving the objective, the platform adds tools that make possible: (i) having financial, administrative and technical information about the operation in the same repository; (ii) automating the generation of reports of supervision of the program to the IDB and statistical data, using machine learning for identification and mitigation of risks; (iii) offering scripts and documents for the institutional strengthening of the sub-borrowers of the program in processes of public procurement and for the elaboration of projects; and (iv) disseminating innovative tools offered by startups that promote efficiency in infrastructure projects.

Considering this, the IDB seeks to offer technical support to eligible municipalities of the operation for the implementation of sustainable infrastructure projects and strengthening the development of activities to identify innovative and more efficient technologies to increase the efficiency of the infrastructure resilience of municipal public entities in Brazil.

### **The Team's Mission:**

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### **What You'll Do:**

The contractual must perform the following tasks:

- Task 1

To develop a technical document, with an executive summary, about the adoption of new technologies in credit operations, their impacts to national and subnational authorities, and the improvements in infrastructure project management.

- Task 2

To prepare 10 infographics considering the technical document mentioned on the Task 1.

All products must be presented in Portuguese by electronic format and must be submitted to IDB for approval. All the forms and files that comprises the project must be delivered in an editable format, that is, that allows the modification of the information, in Microsoft Office, and, when applicable, in geo-referenced data formats for Google Earth and GIS Software's.



Spreadsheets, graphics, etc. must be delivered to the contractor with all the information, including formulas and fund data, needed for the simulation of other scenarios or contexts. No data can be undercover.

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### **Deliverables and Payments Timeline:**

The contractual shall deliver the following products:

- a) Product 1: Work plan;
- b) Product 2: Preliminary Report of Task 1;
- c) Product 3: Preliminary Report of Task 2;
- d) Product 4: Final report containing all the activities requested in Task 1;
- e) Product 5: Final report containing all the activities requested in Task 2;

Products payments will be made in accordance with the following schedule:

	<b>Percentage of payment</b>	<b>Estimated payment term</b>
i.	10% after the submission and approval of Product 1	Up to 15 days after the signing of the contract
ii.	30% after the submission and approval of Product 2	Up to 3 months after the signing of the contract
iii.	20% after the submission and approval of Product 3	Up to 3 months after the signing of the contract
iv.	20% after the submission and approval of Product 4	Up to 6 months after the signing of the contract
v.	20% after the submission and approval of Product 5	Up to 6 months after the signing of the contract

### **Skills Needed:**

To fulfill the objectives of this contract, the consultant must have the following qualifications:

- Education: Academic degree with a master's degree in advertising, journalism, media, public relation, or related areas.

- **Experience:** The contractual must have at least 5 years of experience with consolidation of business reports for digital and press medias, including presentations in PowerPoint and infographics. Previous experience with multilaterals organism is desirable.
- **Languages:** Fluence in Portuguese. It is desirable knowledge in English and Spanish.

### **Opportunity Summary:**

- **Type of contract and modality:** External Products and Services Contractual (PEC), Fixed Amount
- **Length of contract:** 6 months
- **Starting date:** April 01, 2021
- **Location:** Consulting must be based in Brazil
- **Responsible person:** Karisa Maia, Senior Transport Specialist (TSP/CBR)
- **Requirements:** Must be from one of 48-member countries of the IDB Group

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PROCUREMENT PLAN FOR BANK EXECUTED OPERATIONS														
Country: Brazil			Executing agency: IDB				UDR: CSC/CBR							
Project number: BR-T1415			Title of Project: Promotion of Infrastructure Innovations in Small and Medium-Sized Municipalities in Brazil											
Period covered by the plan: 36 months			Total Project Amount US\$500,000											
Component	Procurement Type	Service type (1) (2)	Description	Estimated contract cost (US\$)	Selection Method (2)	Type of contract	Source of financing and percentage			Estimated date of the procurement notice	Estimated contract start date	Estimated contract duration	Comments	
							IDB/MIF	Other External Donor						
								Amount	%					Amount
Component 1	A. Consulting services:	Firm Consultant (GN-2765)	Technological support for the infrastructure project platform of the loan operation between the IDB and BB and the user manual concluded	180,000	SC >100K and <=250K	Lump Sum	180,000	100%	-	0%	15-Nov-19	01-Feb-20	30 months	
Component 1	A. Consulting services:	Corp. Procurement (GN-2303)	Training workshops for the use of the infrastructure project platform of the loan operation between IDB and Banco do Brasil	20,000	SC <=100K	Lump Sum	20,000	100%	-	0%	01-Mar-20	01-May-20	6 months	
Component 2	A. Consulting services:	Firm Consultant (GN-2765)	Standards of project designs and analysis of completed projects	50,000	SC <=100K	Lump Sum	50,000	100%	-	0%	15-Nov-19	01-Feb-20	9 months	
Component 2	A. Consulting services:	Firm Consultant (GN-2765)	Actions to promote the implementation of innovative infrastructure solutions and pilot projects concluded	60,000	SC <=100K	Lump Sum	60,000	100%	-	0%	01-Dec-19	01-Feb-20	12 months	

Component 2	A. Consulting services:	Corp. Procurement (GN-2303)	Making public calls to identify sustainable and low-carbon innovative technologies focused on modernization of infrastructure of small and medium-sized cities completed	40,000	SC <=100K	Lump Sum	40,000	100%	-	0%	01-Dec-19	01-Mar-20	6 months	
Component 2	A. Consulting services:	Corp. Procurement (GN-2303)	Regional events to promote existing technologies carried out	30,000	SC <=100K	Lump Sum	30,000	100%	-	0%	01-Feb-20	01-Apr-20	6 months	
Component 2	A. Consulting services:	Firm Consultant (GN-2765)	Study to measure the regional impacts of the new sustainable infrastructure technologies in municipalities and their impacts to meet the goal of the Brazilian NDC concluded	50,000	SC <=100K	Lump Sum	50,000	100%	-	0%	01-Feb-20	01-Apr-20	9 months	
Component 2	A. Consulting services:	Individual Consultant (AM-650)	Support the review technical products	50,000	IICQ	Lump Sum	50,000	100%	-	0%	15-Nov-19	01-Feb-20	12 months	
Component 3	A. Consulting services:	Individual Consultant (AM-650)	Publications of the results and innovative experiences obtained with the project	15,000	IICQ	Lump Sum	15,000	100%	-	0%	01-Feb-21	01-Apr-21	6 months	
Component 3	A. Consulting services:	Firm Consultant (GN-2765)	Events for dissemination of results and innovative experiences obtained with the project	15,000	SC <=100K	Lump Sum	15,000	100%	-	0%	01-Sep-20	01-Nov-20	6 months	
Prepared by:			<b>TOTAL</b>	<b>500,000</b>			<b>500,000</b>	<b>100%</b>	<b>-</b>	<b>0%</b>				

(1) Grouping together of similar procurement is recommended, such as 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 comment's 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 of 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) Individual consultants: IICO: International Individual Consultant Selection Based on Qualifications; SSS: Single Source Selection. Selection process to be done in accordance with AM-650.
(2) Consulting firms: Per GN-2765-1, Consulting Firm selection methods for Bank-executed Operations are: Single Source Selection (SSS); Simplified Competitive <= 100K (SC <=100K); Simplified Competitive >100K and <=250K (SC >100K and <=250K); Fully Competitive >250K and Framework Agreement Task Order (FWTO). All Consulting Firm selection processes under this policy must use the electronic module in Convergence.
(2) Goods: Per GN-2765-1, par. A.2.2.c: "The procurement of goods and related services, except when such goods and related services are necessary to achieve the objectives of the Bank-executed Operational Work and are included in the consulting services contract and represent less than ten percent (10%) of the consulting services contract value."