

**Inter-American Development Bank  
Technical Cooperation Program (Trust Fund Financing)**

**TC/FUNDS BRIEF**

**TC N°: BO-T1034**

**I. GENERAL INFORMATION**

- |   |   |
|---|---|
| 1. Name of the T.C. Project               | Consolidation of an Integrated Solid Waste Management Strategy.   |
| 2. Name of the Trust Fund:                | Danish Consulting Services Trust Fund   |
| 3. Beneficiary country:                   | Bolivia   |
| 4. Beneficiary agency:                    | Deputy Ministry of Basic Services   |
| 5. Project Team                           | Hubert Quille (RE1/EN1); Denis Gravel (COF/CBO); Alicia Maldonado (RE1/EN1); and Christopher Jennings, Team Leader (RE1/EN1)  |
| 6. Estimated Total Amount to be financed: | US\$168,000   |
| • Financed by trust fund:                 | <b><u>US\$150,000</u></b>   |
| • Financed local counterpart:             | US\$18,000  |
| 7. Execution and Disbursement Deadlines:  | The technical cooperation will be implemented within six months of the date of approval. The date for final disbursement will be nine months from the date of approval. |

**II. OBJECTIVES**

- 2.1 Complete and consolidate the legal and strategic framework for the integrated management of solid waste disposal in Bolivia.

**III. DESCRIPTION**

- 3.1 Components. The operation will comprise three components. The first will be to finalize the regulations to the law and the necessary technical annexes through a process of public consultation; the second will be to formulate a plan for the implementation of the new solid waste strategy, and the third will be to consolidate the strategy by applying it in three municipalities.
- 3.2 The first component will comprise writing the technical annexes that are necessary to complete the regulations that complement the new law. It will also include the presentation of the law, regulations and annexes to the public and civil society in nine workshops to be held, one in each of the departments of Bolivia. The final version of the package of law, regulations and annexes will be adjusted to incorporate the results of these workshops.

- 3.3 The second component will comprise writing an Investment Plan based on the Government's new solid waste strategy. The Plan will include a quantitative analysis of the investment requirements in the country, and a proposal for their financing. The Plan will be discussed at a meeting to incorporate all interested parties, including potential sources of finance.
- 3.4 The third component will be to consolidate the strategy with its partial application in three municipalities in Bolivia. The component will comprise the support of the municipalities of Tarija, Cobija y Llallagua in the implementation of their Municipal Programs for Integrated Solid Waste Management (PMGIRS). The Municipalities will receive technical assistance to help them to implement the activities included in the PMGIRS, focusing on the most efficient means of waste collection and the introduction of efficient systems of recycling and composting. The component will include writing profiles for the activities to be undertaken in each of the four areas included in the PMGIRS: 1) Institutional and legal, 2) technical and environmental, 3) economical and 4) social participation.
- 3.5 Consulting services required. The Government of Bolivia propose that the operation will be undertaken by the Danish consulting company, Carl Bro, which will subcontract some of the activities to local consultants. The consulting company Carl Bro, which has a large portfolio of work on international solid waste projects, and the team of local consultants, has worked on all previous phases of the program for the development of the legal and institutional framework as well as preparing the Government's integrated solid waste management strategy. The same team assisted the three municipalities in the preparation of the their PMGIRS. Carl Bro and all of the local consultants were originally selected using transparent and Competitive selection processes. The company is in a unique position to undertake the technical cooperation.
- 3.6 Output Required. The Technical Cooperation will deliver the following: 1) An integrated package of regulations, appropriately adjusted as a result of the process of public consultation, in support of the new legislation. 2) A diagnosis of investment needs and an Investment Plan to meet the needs of the solid waste sector presented to interest groups and potential financial agencies. 3) Profiles of activities to be carried out as part of the PMGIRS in Tarija, Cobija and Llallagua, consistent with the Investment Plan.
- 3.7 Execution and Disbursement Deadlines. The operation will be completed within six months and the deadline for final disbursement will be nine months.

#### **IV. JUSTIFICATION**

- 4.1 For four years, the Deputy Ministry of Basic Services (VSB), the Bolivian Government organization with responsibility for solid waste disposal policy, has been working to develop a strategy for integrated management of solid waste to include the management of industrial and dangerous waste. During 2003 and 2004, the VSB produced a strategic plan called the National Strategy for the Integrated Management of Solid Waste (ENGIRS). Two feasibility studies complemented the ENGIRS, one for the management

of dangerous wastes in Santa Cruz, the other for the management of waste generated by micro, small and medium sized companies in El Alto. During 2004 and 2005, based on a legal study undertaken to support the ENGIRS, the VSB has formulated and proposed a new Solid Waste law. The proposed law has been subjected to a process of consultation with the public, and is due to be debated in the National Congress shortly. The law is not considered controversial and is expected to be approved. The proposed Technical Cooperation will allow the process to be completed, the annexes necessary for the law's implementation to be completed, and for the VSB to prepare a plan to finance the sector.

- 4.2 The VSB supported the Municipalities of Tarija, Cobija and Llallagua in writing their PMGIRS. The proposed Technical Cooperation will consolidate the process, by helping those municipalities to implement their PMGIRS.
- 4.3 The team of consultants that assisted the VSB with the activities described in paragraphs 4.1 and 4.2 have been financed by the Danish Government, through DANIDA. DANIDA's line of financing will end in November 2005 and will not be renewed, as the only counterpart institution in Bolivia will be the Sustainable Development Ministry. DANIDA will focus on different sectors such as private sector development. The operations financed by DANIDA to date have all met their objectives. It is appropriate that the Danish Consulting Services Trust Fund should be invited to continue with the support to provide continuity.
- 4.4 The Investment Plan that will be generated as part of the Technical Cooperation will identify sources of financing for the sector. The IDB will have an opportunity of participating in the exercise, and of offering finance for the Plan.
- 4.5 The Technical Cooperation is consistent with the third area of intervention defined in the IDB's country strategy for Bolivia: improve efficiency and equity in basic services.

## **V. BUDGET**

- 5.1 It is proposed that the Danish Consulting Services Trust Fund for will make available up to US\$150,000 to finance the technical cooperation. The government of Bolivia, through the Deputy Ministry of Basic Services will provide US\$ 18,000 in counterpart funding. The counterpart funding will be mostly in-kind funding by the provision of offices and services. Also included in the counterpart funding is partial financing for the public participation workshops. A summary of the cost estimate for the operation is given in Table 1.

Table 1: Cost Estimate (US\$)			
	Danish Consulting Services Trust Fund	GoBO	Total
Component 1: Complete packet of legal documents	60,000	3,000	63,000
Component 2: Complete Investment Plan	45,000	-	45,000
Component 3: Support for Municipal PMGIRs	45,000	-	45,000
Logistical support	-	12,000	12,000
Coordination from VSB	-	3,000	3,000
<b>TOTAL:</b>	150,000	18,000	168,000

## **VI. ENVIRONMENTAL AND SOCIAL IMPACT**

- 6.1 Improved solid waste management services will lead to better health and increased quality of life for the people of Bolivia. The technical cooperation will have a significant environmental and social impact. The operation will allow the new legal framework for the integrated management of solid waste to be put into practice. It will develop a plan for financing the sector and will support putting the strategy to the test in three municipalities.

## **VII. RESPONSIBILITY WITHIN THE IDB**

- 7.1 RE1/EN1 will be responsible for technical matters. Christopher Jennings, [chrisj@iadb.org](mailto:chrisj@iadb.org) tel. +202-623-1418. COF/CBO will be responsible for disbursements

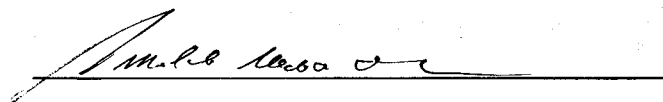
## **VIII. RECOMMENDATION**

- 8.1 Christopher Jennings, Project Team Leader, recommends the approval of this technical cooperation and the use of up to US\$150,000 from the resources of the Danish Consulting Services Trust Fund to finance the activities described in this document.

## **IX. CERTIFICATION**

- 9.1 I certify that this operation was approved for financing by the donor of the Danish Consulting Services Trust Fund through an e-mail dated November 1, 2005 signed by Sigurd Schmidt, Department for Business Cooperation and Technical Assistance, Royal Danish Ministry of Foreign Affairs. Also, I certify that resources from the Danish Consulting Services Trust Fund are available for up to US\$150,000 in order to finance the activities described and budgeted in this document. The commitment and

disbursement of these resources shall be made only by the Bank in US\$. The same currency shall be used to stipulate the remuneration and payments to consultants, except that local consultants working in their own borrowing member country shall have their remuneration defined and paid in the currency of that 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 Plan of Operations. 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.



Arnaldo M. da Fonseca  
Chief

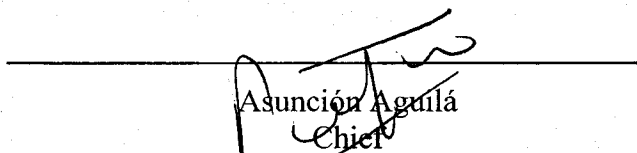
Technical Cooperation Coordination Unit

Nov 22, 2005

Date

**X. APROBACIÓN**

**10.1 Aprobado:**



Asunción Aguilá  
Chief

Environmental and Natural Resources Management  
Division

11/28/05

Date