

<b>BELIZE</b>	<b>No. SOCI-18</b>
<b>PROJECT TITLE: RECONSTRUCTING, CLEANING AND RESTORING LATRINES IN RURAL AREAS</b>	

**Sector: WATER AND SANITATION**

**Subsector:**

Background: The islands and four districts were completely flooded, resulting in dumpsites, sewer, lagoons and excreta from latrines and septic tanks washed into residential areas, mixing with debris from destroyed houses. Chemical contamination from the dumpsites, chemical storage areas and gas stations also occurred in certain areas.

**Project objectives:** Reduce health risks due to unhealthy and dangerous environment in residential areas.

**Duration of the project:** 12 months

**National executing agency:** Ministry of Public Works

**Date of initiation:** Immediate

**Description of activities and tasks:** Contracting of services and purchasing of material for reconstruction of approximately 400 latrines and cleaning up and restoring approximately 800 latrines, all in rural areas.

**Expected results and products:** Functioning latrines

<b>Total required investments:</b>	340,000
<ul style="list-style-type: none"> <li>• Labour requirements     (work/months)</li> <li>• National inputs:</li> <li>• Imported inputs: _____</li> </ul>	
<b>Financial requirements (dollars)</b>	
<ul style="list-style-type: none"> <li>• Local:</li> <li>• External:</li> <li>• Donation/Loan/Funding _____</li> </ul>	
<b>Potential source of financing</b>	
External credit:	
Donor:	

**Special remarks:**

BELIZE

No. SOCI-19

**PROJECT TITLE: COLLECTING GARBAGE AND DEBRIS, AND CLEANING UP  
RESIDENTIAL AREAS**

**Sector: WATER AND SANITATION****Subsector:**

**Background:** The islands and four districts were completely flooded, resulting in dumpsites, sewer, lagoons and excreta from latrines and septic tanks washed into residential areas, mixing with debris from destroyed houses. Chemical contamination from the dumpsites, chemical storage areas and gas stations also occurred in certain areas.

**Project objectives:** Reduce health risks due to unhealthy and dangerous environment in residential areas.

**Duration of the project:** 6 months**National executing agency:** Ministry of Public Works**Date of initiation:** Immediate

**Description of activities and tasks:** Contracting of services for cleaning up of residential areas, collecting and destruction of garbage. Hiring local men and women for the work.

**Expected results and products:** Elimination of garbage and material from washing dumpsites, sewer, lagoons and excreta from latrines and septic tanks into residential areas, mixing with debris from destroyed houses.

<b>Total required investments:</b>	500,000
• Labour requirements	
(work/months)	200
• National inputs:	200
• Imported inputs:	0
<b>Financial requirements (dollars)</b>	
• Local:	50,000
• External:	450,000
• Donation/Loan/Funding	450,000
<b>Potential source of financing</b>	
External credit:	
Donor:	

**Special remarks:**

<b>BELIZE</b>	<b>No. EDU-1</b>
<b>PROJECT TITLE: REHABILITATION OF EDUCATIONAL AND RECREATIONAL FACILITIES</b>	
<b>Sector: EDUCATION</b>	<b>Subsector:</b>
<p>Background: The education sector suffered considerable damage. Schools in Belize District, particularly the Cayes and Belize City suffered the most damage to roofs and structures due to flooding. 51 schools, 33 at the primary and 18 at the secondary level were affected. Over 2,000 children missed school for at least two and a half weeks. Schools also suffered damages as they were used as shelters.</p>	

**Project objectives:**

- Reconstruction and repair of existing structures, including reinforcement, in order to reduce vulnerability to natural disasters.

<b>Duration of the project:</b> one year <b>Date of initiation:</b>	<b>National executing agency:</b> Ministry of Education
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**Description of activities and tasks:**

- Reparation of Schools
- Replacement of school materials, equipment and furnishings
- Reparation of libraries and sports facilities

<p><b>Expected results and products:</b> Preventive: fewer damages to be foreseen from the next hurricane season; fewer children missing school.</p> <p>Rehabilitation: school buildings will be better equipped to withstand a natural disaster.</p>
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<p><b>Total required investments:</b> 3,038,000</p> <ul style="list-style-type: none"> <li>• Labour requirements (work/months)</li> <li>• National inputs:</li> <li>• Imported inputs: _____</li> </ul> <p><b>Financial requirements (dollars)</b></p> <ul style="list-style-type: none"> <li>• Local:</li> <li>• External:</li> <li>• Donation/Loan/Funding _____</li> </ul> <p><b>Potential source of financing</b></p> <p>External credit:</p> <p>Donor:</p>	<p><b>Special remarks:</b></p>
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<b>BELIZE</b>	<b>No. HAB-1</b>
<b>PROJECT TITLE: SHELTERS ALSO SERVING AS COMMUNITY CENTERS IN AMBERGRIS AND CAYE CAULKER</b>	

**Sector:** HOUSING

**Subsector:**

Background: The disaster demonstrated the vulnerability of poor people, living in areas and in houses unsuitable for withstanding the natural forces of a tropical storm. In the islands of Ambergris and Caye Caulker there were no buildings suitable for shelters. The new constructions in these two islands will provide shelters in case of tropical storms, and they will also be used for community activities, training and capacity building activities for the population in the poor areas of San Pedro ("San Pedrito") and Caye Caulker.

**Project objectives:** Create shelter for vulnerable parts of the population that will also serve as centres for community development.

**Duration of the project:** 12 months

**Date of initiation:** Immediate

**National executing agency:** Ministry of Public Works

**Description of activities and tasks:** Construction of 2 shelters/Community Centers, purchase of basic furniture and equipment, identifying local leaders, capacity building and promoting local management of the shelters/community Centers and the use of them for training activities and community development proposed in other projects.

**Expected results and products:** Shelters constructed and equipped, and organization for local management of the centres.

<p><b>Total required investments:</b> 250,000</p> <ul style="list-style-type: none"> <li>• Labour requirements (work/months)</li> <li>• National inputs:</li> <li>• Imported inputs: _____</li> </ul> <p><b>Financial requirements (dollars)</b></p> <ul style="list-style-type: none"> <li>• Local:</li> <li>• External:</li> <li>• Donation/Loan/Funding _____</li> </ul> <p><b>Potential source of financing</b></p> <p>External credit:</p> <p>Donor:</p>	<p><b>Special remarks:</b></p>
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<b>BELIZE</b>	<b>No. HAB-2</b>
<b>PROJECT TITLE: REPAIR AND CONSTRUCTION OF HOUSES</b>	

**Sector: HOUSING****Subsector:**

**Background:** Many houses have been either totally destroyed or suffered complete or partial roof damage, particularly in the coastal areas or were damaged as a result of the flooding. An estimated 3000 houses need complete replacement. The most affected districts are Belize (San Pedro and Caye Caulker) and Orange Walk.

Lack of building materials and the lack of a plan that could provide alternatives for securing financial assistance have been barriers for the reconstruction of houses in the period following the disaster.

**Project objectives:** Safe houses provided to affected population.

**Duration of the project:** 24 months

**Date of initiation:** Immediate

**National executing agency:** Ministry of Public Works

**Description of activities and tasks:** Contracting of services and construction or repair of destroyed and damaged houses.

**Expected results and products:** Houses repaired and constructed with increased protection for future natural disaster.

**Total required investments:** 93,000,000

- Labour requirements  
(work/months)

- National inputs:

- Imported inputs: \_\_\_\_\_

**Financial requirements (dollars)**

- Local:

- External:

- Donation/Loan/Funding \_\_\_\_\_

**Potential source of financing**

External credit:

Donor:

**Special remarks:**

<b>BELIZE</b>	<b>No. ELEC-1</b>
<b>PROJECT TITLE: SAN PEDRO'S ENERGY SYSTEM REHABILITATION</b>	

**Sector: INFRASTRUCTURE****Subsector: ELECTRICITY**

Background: The passage of Hurricane Keith resulted in excessive rainfall in the north and wind affecting mainly the eastern part of the country. The electrical system was affected as a whole, but in particular the transmission and distribution lines suffered cuts and loss of poles. Some damages affected the generating system also. The most affected area is concentrated in the island of San Pedro and Caye Caulker's village. In San Pedro the entire main and secondary distribution lines were affected in some way and many poles fell down or broken affecting 9.4% of the 34.5 kV transmission lines; 43.2% of the main and 32.7% of the secondary distribution network. The total generation capacity was also severely affected. The damages on the network were caused by the extreme winds and flooding, while the damage in the power stations was due to the excessive rain and flooding. The metering infrastructure was also partially damaged.

**Project objectives:** To restore the energy infrastructure in order to provide energy to all the inhabitants in San Pedro and to bill the real energy consumption.

<b>Duration of the project:</b> 4 months	<b>National executing agency:</b> Belize Electricity Limited (BEL)
<b>Date of initiation:</b> Immediately	

**Description of activities and tasks:**

- To repair all damages of the affected main and secondary distribution lines
- To replace all the poles fell down or broken on approximately 9.4% of the transmission lines, 43.2% of the main ones and 32.7% of the secondary distribution network
- To repair/replace the damaged equipment in the control room and power station and to replace the damaged meters.

<b>Expected results and products:</b> To recover the domestic, commercial, tourist and all economic activities in town as before the hurricane.
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<b>Total required investments : (BZ\$ thousand)</b>	2,422.6
• Labour requirements (BZ\$ thousand)	424.9
• National inputs:	424.9
• Imported inputs:	1,997.7
<b>Financial requirements (dollars)</b>	
• Local:	726.8
• External:	1,695.8
• Donation/Loan/Funding	
<b>Potential source of financing</b>	
External credit: IDB/CDB	
Donor:	

**Special remarks:** The project is already in progress.

<b>BELIZE</b>	<b>No. ELEC-2</b>
<b>PROJECT TITLE: CAYE CAULKER'S ENERGY SYSTEM REHABILITATION</b>	

**Sector: INFRASTRUCTURE**
**Subsector: ELECTRICITY**

**Background:** The passage of Hurricane Keith resulted in excessive rainfall in the north and wind affecting mainly the eastern part of the country. The electrical system was affected as a whole, but in particular the transmission and distribution lines suffered cuts and loss of poles. The generating system also suffers some damages. The most affected area is concentrated in the island of San Pedro and Caye Caulker's village. In Caye Caulker the entire main and secondary distribution lines were affected in a worse way and the damages caused by poles fell down were more severe, affecting 73% of the main and 42% of the secondary distribution networks respectively.. The power station also suffer intensive damages. The damages on the network were caused by the extreme winds and flooding, while the damage in the power stations was due to the excessive rain and flooding. The metering infrastructure was also intensive damaged.

**Project objectives:** To restore the energy infrastructure in order to provide energy to all the inhabitants in Caye Caulker and to bill the real energy consumption.

**Duration of the project:** 4 months

**Date of initiation:** Immediately

**National executing agency:** Belize Electricity Limited (BEL)

**Description of activities and tasks:**

- To repair all damages of the affected main and secondary distribution lines
- To replace all the poles fell down or broken on 73% of the main and 42% of the secondary distribution networks respectively
- To repair/replace the damaged generator set and to replace the damaged meters.

**Expected results and products:** To recover the domestic, commercial, tourist and all economic activities in village as was before the hurricane.

<b>Total required investments:</b>	2,023.8	<b>Special remarks:</b> The project is already in progress.
<b>(BZ\$ thousand)</b>		
• Labour requirements	355.0.	
<b>(BZ\$ thousand)</b>		
• National inputs:	355.0	
• Imported inputs:	1,688.8	
<b>Financial requirements (dollars)</b>		
• Local:	607.1	
• External:	1,416.7	
• Donation/Loan/Funding		
<b>Potential source of financing</b>		
External credit: IDB/CDB		
Donor:		

<b>BELIZE</b>	<b>No. ELEC-3</b>
<b>PROJECT TITLE: LINKAGE OF CAYE CAULKER TO THE INTERCONNECTED NATIONAL SYSTEM (INS)</b>	

**Sector: INFRASTRUCTURE**

**Subsector: ELECTRICITY**

Background: The passage of Hurricane Keith resulted in excessive rainfall in the north and wind affecting mainly the eastern part of the country. The electrical system was affected as a whole, but in particular the transmission and distribution lines suffered cuts and loss of poles. The generating system also suffers damages, specially in Caye Caulker, where the power station was severe affected and there are not other source of energy to provide the inhabitants energy needs.

**Project objectives:** To perform a feasibility study in order to provide energy to Caye Caulker from the Interconnected National System (INS).

**Duration of the project:** 6 months

**Date of initiation:** January 2001

**National executing agency:** BEL

**Description of activities and tasks:** To perform technical and economical investigation in order to demonstrate the feasibility to interconnect Caye Caulker to INS through San Pedro interconnection link and to define a project profile of such link in order to negotiate funds to build it.

**Expected results and products:** To demonstrate the technical and economic feasibility of a submarine interconnection between San Pedro and Caye Caulker

<b>Total required investments:</b>	250.00
<b>(BZ\$thousands)</b>	
• Labour requirements (work/months)	
• National inputs:	
• Imported inputs:	250.00
<b>Financial requirements (dollars)</b>	250.00
• Local:	
• External:	250.00
• Donation/Loan/Funding	250.00
<b>Potential source of financing</b>	
External credit:	
Donor:	

**Special remarks:**



BELIZE

No. WS-1

**PROJECT TITLE: ORANGE WALK'S WATER SYSTEM REHABILITATION****Sector: INFRASTRUCTURE****Subsector: WATER AND SANITATION**

Background: Most damage to drinking water and sewerage systems is in the municipalities worst affected by the hurricane. The short-term aims of the institutions involved are to re-establish damaged drinking water and sewerage systems, and to carry out actions to prevent and reduce the risk of epidemics in affected areas; in the medium term, actions will focus on the total reconstruction and repair of damaged systems. In Orange Walk City an overhead storage tank damaged because of the stress force of the winds. This storage tank has more than 20 years in operation.

**Project objectives:** To replace the affected storage capacity including a new design to consider some improvement in order to reduce vulnerability.

**Duration of the project:** 4 months**Date of initiation:** Immediately**National executing agency:** Water and Sewerage Authority (WASA)

**Description of activities and tasks:** To design, to build and to install a new tank of the same capacity as the collapsed tank is.

**Expected results and products:** To recover the storage capacity in town in order to have no problems with the water supply to the inhabitants.

<b>Total required investments:</b>	1,371.1
<b>(BZS thousand)</b>	
• Labour requirements	205.7
(work/months)	
• National inputs:	205.7
• Imported inputs:	1,165.4
<b>Financial requirements (dollars)</b>	
• Local:	411.3
• External:	959.8
• Donation/Loan/Funding	
<b>Potential source of financing</b>	
External credit: IDB/CDB	
Donor:	

**Special remarks:**

<b>BELIZE</b>	<b>No. WS-2</b>
<b>PROJECT TITLE: COROZAL TOWN'S WATER SYSTEM REHABILITATION</b>	

**Sector: INFRASTRUCTURE**

**Subsector: WATER AND SANITATION**

**Background:** Most damage to drinking water and sewerage systems is in the municipalities worst affected by the hurricane. The short-term aims of the institutions involved are to re-establish damaged drinking water and sewerage systems, and to carry out actions to prevent and reduce the risk of epidemics in affected areas; in the medium term, actions will focus on the total reconstruction and repair of damaged systems. In Corozal City an overhead storage tank damaged because of the stress force of the winds. This storage tank has more than 20 years in operation.

**Project objectives:** To replace the affected storage capacity including a new design to consider some improvement in order to reduce vulnerability.

<p><b>Duration of the project:</b> 4 months</p> <p><b>Date of initiation:</b> Immediately</p>	<p><b>National executing agency:</b> Water and Sewerage Authority (WASA)</p>
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**Description of activities and tasks:** To design, to build and to install a new tank of the same capacity as the collapsed tank is.

**Expected results and products:** To recover the storage capacity in town in order to have no problems with the water supply to the inhabitants.

<b>Total required investments:</b>	
<b>(BZ\$ thousand)</b>	1,371.1
• Labour requirements	205.7
(work/months)	
• National inputs:	205.7
• Imported inputs:	1165.4
<b>Financial requirements (dollars)</b>	
• Local:	411.3
• External:	959.8
• Donation/Loan/Funding	
<b>Potential source of financing</b>	
External credit: IDB/CDB	
Donor:	

**Special remarks:**

<b>BELIZE</b>	<b>No. WS-3</b>
<b>PROJECT TITLE: SAN IGNACIO'S WATER SYSTEM REHABILITATION</b>	

**Sector: INFRASTRUCTURE****Subsector: WATER AND SANITATION**

Background: Most damage to drinking water and sewerage systems is in the municipalities worst affected by the hurricane. The short-term aims of the institutions involved are to re-establish damaged drinking water and sewerage systems, and to carry out actions to prevent and reduce the risk of epidemics in affected areas; in the medium term, actions will focus on the total reconstruction and repair of damaged systems. In San Ignacio/Santa Elena town a ground storage tank collapsed due to ground saturation and ground shifting caused by rains. This storage tank has more than 20 years in operation.

**Project objectives:** To replace the affected storage capacity including a new design to consider some improvement in order to reduce vulnerability.

**Duration of the project:** 3 months

**Date of initiation:** Immediately

**National executing agency:** Water and Sanitation Authority (WASA)

**Description of activities and tasks:** To design, to build and to install a new tank of the same capacity as the collapsed tank is.

**Expected results and products:** To recover the storage capacity in town in order to have no problems with the water supply to the inhabitants of San Ignacio/Santa Elena.

<b>Total required investments:</b>	381.0
<b>(BZ\$ thousand)</b>	
• Labour requirements	64.7
<b>(BZ\$ thousand)</b>	
• National inputs:	64.7
• Imported inputs:	316.3
<b>Financial requirements (dollars)</b>	
• Local:	114.3
• External:	266.7
• Donation/Loan/Funding	
<b>Potential source of financing</b>	
External credit: IDB/CDB	
Donor:	

**Special remarks:**

<b>BELIZE</b>	<b>No. WS-4</b>
<b>PROJECT TITLE: WATER SUPPLY PREVENTIVE CAPACITY FOR EVACUATION PLAN TO BELMOPAN</b>	

**Sector: INFRASTRUCTURE**

**Subsector: WATER AND SANITATION**

**Background:** Due to the intensive rain caused by the hurricane Keith, the water supply system was affected by flooding in Belmopan city. The pumping station suffered certain damages affecting the electrical equipment and provoked certain water scarcity..

**Project objectives:** To mitigate water scarcity caused by flooding at the pumping station. To have a back up water supply and to prevent and reduce the risk of epidemics in affected areas.

**Duration of the project:** 3 months

**Date of initiation:** January 2001

**National executing agency:** WASA

**Description of activities and tasks:** To drill a back up well with pump, motor and electrical controls, including a diesel generator set to provide emergency energy supply, with their respective power house and fuel storage tank.

**Expected results and products:** To maintain drinking water supply during emergency caused by natural disasters.

<b>Total required investments:</b>	135.50
<b>(BZ\$ thousands)</b>	
• Labour requirements	20.30
(BZ\$)	
• National inputs:	
• Imported inputs:	115.20
<b>Financial requirements (dollars)</b>	135.50
• Local:	40.30
• External:	95.20
• <u>Donation/Loan/Funding</u>	
<b>Potential source of financing</b>	
External credit: IDB/CDB	
Donor:	

**Special remarks:**

BELIZE

No. TC-1

**PROJECT TITLE: SAN PEDRO'S TELECOMMUNICATION SYSTEM REHABILITATION****Sector: INFRASTRUCTURE****Subsector: TELECOMMUNICATION**

Background: Telecommunications services suffer damages in all the country, however the most important failures are concentrated in the island of San Pedro and Caye Caulker's village. In many localities failures were due not only to rain, flood and wind, but also to lightning storm and power failures. In San Pedro the devastation caused by the hurricane damaged the BTL infrastructure, affecting all the services provided by them, which include, local, long distance, international, data, paging, Internet, and mobile communication. The damages primarily were due to the collapse of a 37.5 m. self-supporting tower, provoked by intensive wind. The rain and flood affected the Exchange and Transmission equipment, while, rain, wind and flood also affected the overhead network and distribution point cases. Additionally many ancillary equipment, such as, payphones, key systems, private automatic branch exchange, Wireless Local Loop, etc. also suffered intensive damage.

**Project objectives:** To recover the whole communications capacity loosed because the hurricane.

**Duration of the project:** 6 months**Date of initiation:** Immediately

**National executing agency:** Belize  
Telecommunication Limited (BTL)

**Description of activities and tasks:**

- To design, to build and to install a new tower for telecommunications purpose
- To acquire and to install new electronic equipment for exchanges, wire and wireless communication
- To replace the destroyed overhead and underground networks and ancillary equipment.

**Expected results and products:** To restore the communication capacity as was before the hurricane.

**Total required investments:****(BZ\$ thousand)**

2,910.0

- Labour requirements (BZ\$ thousand) 727.0
- National inputs: 727.0
- Imported inputs: 2182.5

**Financial requirements (dollars)**

- Local: 900.0
- External: 2010.0
- Donation/Loan/Funding

**Potential source of financing**

External credit: IDB/CBD

Donor:

**Special remarks:** The project is already in progress.

<b>BELIZE</b>	<b>No. TC-2</b>
<b>PROJECT TITLE: CAYE CAULKER'S TELECOMMUNICATION SYSTEM REHABILITATION</b>	

**Sector: INFRASTRUCTURE****Subsector: TELECOMMUNICATION**

Background: In Caye Caulker the devastation caused by the hurricane damaged the BTL infrastructure, affecting all the services provided by BTL, which include, local, long distance, international, data, paging, internet, and mobile communication. The rain and flood affected the Exchange and Transmission equipment, while rain, wind and flood also affected the overhead network and distribution point cases. Additionally many ancillary equipment, such as, payphones, key systems, etc. were damaged. The damaged external network must be replaced as well as the electronic equipment, which was irreversible damaged by rain and flood

**Project objectives:** To recover the whole communications capacity loosed because the hurricane.

<b>Duration of the project:</b> 6 months <b>Date of initiation:</b> Immediately	<b>National executing agency:</b> Belize Telecommunication Limited (BTL)
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**Description of activities and tasks:**

- To acquire and to install new electronic equipment for exchanges, wire and wireless communication
- To replace the destroyed overhead and underground networks and ancillary equipment.

**Expected results and products:** To restore the communication capacity as was before the hurricane.

<b>Total required investments:</b> (BZ\$ thousand) <span style="float: right;">1,940.0</span>	<b>Special remarks:</b> The project is already in progress.
• Labour requirements <span style="float: right;">485.0</span> (BZ\$ thousand)	
• National inputs: <span style="float: right;">485.0</span>	
• Imported inputs: <span style="float: right;">1,455.0</span>	
<b>Financial requirements (dollars)</b>	
• Local: <span style="float: right;">582.0</span>	
• External: <span style="float: right;">1,358.0</span>	
• <u>Donation/Loan/Funding</u>	
<b>Potential source of financing</b>	
External credit: IDB/CBD	
Donor:	

<b>BELIZE</b>	<b>No. T-1</b>
<b>PROYECT TITLE: ENGINEERING STUDIES FOR ROUTE AR2 NORTHERN HIGHWAY SECTION MILE 0,0 - MILE 15,0</b>	

**Sector: TRANSPORT**

**Subsector: HIGHWAYS**

**Background:** It is necessary to provide a detailed engineering study for the most damaged section of the Northern Highway, due to overflow of the Belize River

**Project objectives:** Biding documents for reconstruction of the affected sections of the highway

<b>Duration of the project:</b> 4 months <b>Date of initiation:</b>	<b>National executing agency:</b> MWTC&BI
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**Description of activities and tasks:** Topographic, Soils and Hydrological data, plant, elevation and cross section profile, drainage, culverts, pavement structure, technical specifications, schedule of quantities, drawings and award of contract documents.

**Expected results and products:** Documents for construction bidding

<b>Total required investments</b>	288,000	BZ\$
Labour requirement (work/month)	7	
National Inputs	86,400	
Imported Inputs	201,600	
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<b>Financial requirements</b>		
Local		
External		
Donation/ Loan / Funding		
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<b>Potential source of financing</b>		
External Credit		
Donor		

**Special remarks:**

<b>BELIZE</b>	<b>No. T-2</b>
<b>PROJECT TITLE: ENGINEERING STUDIES FOR ROUTE AR1 WESTERN HIGHWAY SECTION MILE 0,0 - MILE 10,0</b>	
<b>Sector: TRANSPORT</b>	<b>Subsector: HIGHWAYS</b>
<b>Background:</b> It is necessary to provide a detailed engineering study for the most damaged section of the Western Highway, due to overflow of the Simbun River	
<b>Project objectives:</b> Biding documents for reconstruction of the affected sections of the highway.	
<b>Duration of the project:</b> 4 months  <b>Date of initiation:</b>	<b>National executing agency:</b> MWTC&BI
<b>Description of activities and tasks:</b> Topographic, Soils and Hydrological data, plant, elevation and cross section profile, drainage, culverts, pavement structure, technical specifications, schedule of quantities, drawings and award of contract documents.	
<b>Expected results and products:</b> Documents for construction bidding	

<b>Total required investments</b>	192,000	BZ\$
Labour requirement (work/month)	7	
National Inputs	57,600	
Imported Inputs	134,400	
<b>Financial requirements</b>		
Local		
External		
Donation/ Loan /Funding		
<b>Potential source of financing</b>		
External Credit		
Donor		

**Special remarks:**



<b>BELIZE</b>	<b>No. T-3</b>
<b>PROJECT TITLE: RECONSTRUCTION OF ROUTE AR2 NORTHERN HIGHWAY SECTION MILE 0,0 - MILE 15,0</b>	
<b>Sector: TRANSPORT</b>	<b>Subsector: HIGHWAYS</b>
Background: It is necessary the reconstruction and upgrading of the most damaged section of the Northern Highway, to prevent overflow of the Belize River	

**Project objectives:** Reconstruction works

<b>Duration of the project:</b> 18 months <b>Date of initiation:</b>	<b>National executing agency:</b> MWTC&BI
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**Description of activities and tasks:** Earthmoving, fill rise, base, pavement, culverts, marks and signals construction

**Expected results and products:** Works done

<b>Total required investments</b>	14,400,000	BZ\$
Labour requirement (work/month)	200	
National Inputs	6,480,000	
Imported Inputs	7,920,000	
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<b>Financial requirements</b>		
Local		
External		
Donation/ Loan / Funding		
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<b>Potential source of financing</b>		
External Credit		
Donor		

**Special remarks:**

<b>BELIZE</b>	<b>No. T-4</b>
<b>PROYECT TITLE: RECONSTRUCTION OF ROUTE ARI WESTERN HIGHWAY, SECTION MILE 0,0 - MILE 10,0</b>	
<b>Sector: TRANSPORT</b>	<b>Subsector: HIGHWAYS</b>
Background: It is necessary the reconstruction and upgrading of the most damaged section of the Western Highway, to prevent overflow of the Simbun River	

**Project objectives:** Reconstruction works

<b>Duration of the project:</b> 18 months  <b>Date of initiation:</b>	<b>National executing agency:</b> MWTCBI
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**Description of activities and tasks:** Earthmoving, fill rise, base, pavement, culverts, marks and signals construction

**Expected results and products:** Works done

<b>Total required investments</b>	9,600,000	BZ\$
Labour requirement (work/month)	133	
National Inputs	4,320,000	
Imported Inputs	5,280,000	
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<b>Financial requirements</b>		
Local		
External		
Donation/ Loan / Funding		
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<b>Potential source of financing</b>		
External Credit		
Donor		

**Special remarks:**

<b>BELIZE</b>	<b>No. T-5</b>
<b>PROYECT TITLE: RECONSTRUCTION OF SAN PEDROS'S AIRPORT FENCE</b>	
<b>Sector: TRANSPORT</b>	<b>Subsector: AIRPORTS</b>
Background: It is urgently necessary the reconstruction of the airport fence to prevent accidents in the runway	
Project objectives: Reconstruction of fence	
<b>Duration of the project:</b> 2 months <b>Date of initiation:</b> Now	<b>National executing agency:</b> Airport Authority

**Description of activities and tasks:** Reconstruction of fence

**Expected results and predates:** Works done

<b>Total required investments</b>	100,000	BZ\$	<b>Special remarks:</b>
Labour requirement (work/month)	13		
National Inputs	80,000		
Imported Inputs	20,000		
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<b>Financial requirements</b>			
Local			
External			
Donation/ Loan / Funding			
<hr/>			
<b>Potential source of financing</b>			
External Credit			
Donor			

<b>BELIZE</b>	<b>No. T-6</b>
<b>PROJECT TITLE: PORT FACILITIES AT AMBERGRIS CAYE AND OTHER</b>	
<b>Sector: TRANSPORT</b>	<b>Subsector: PORTS</b>
<b>Background:</b> It is necessary to construct port facilities in the Cayes (two) to improve the vulnerability and prevent environmental damages	
<b>Project objectives:</b> To supply adequate and safety installations.	

<b>Duration of the project:</b> 12 months  <b>Date of initiation:</b>	<b>National executing agency:</b> Port Authority
<b>Description of activities and tasks:</b> Construction of ramp, pier bridge, pipes, tanks and buoys at the cayes	
<b>Expected results and products:</b> Works done	

<b>Total required investments</b>	2,000,000	BZ\$
Labour requirement (work/month)	42	
National Inputs	900,000	
Imported Inputs	1,100,000	
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<b>Financial requirements</b>		
Local		
External		
Donation/ Loan / Funding		
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<b>Potential source of financing</b>		
External Credit		
Donor		

**Special remarks:**

<b>BELIZE</b>	<b>No. T-7</b>
<b>PROJECT TITLE: MARITIME TRANSPORTATION SUPPLY</b>	
<b>Sector: TRANSPORT</b>	<b>Subsector: MARITIME</b>
Background: It is necessary to operate the future port facilities in the cayes with adequate and specialist vessels.	
Project objectives: Maritime Transportation Supply	
<b>Duration of the project:</b> 24 months  <b>Date of initiation:</b>	<b>National executing agency:</b> Port Authority

**Description of activities and tasks:** Supply of maritime transportation with a landcraft for freight and another for fuels.

**Expected results and products:** Vessels operating

<b>Total required investments</b>	4,000,000	BZ\$	<b>Special remarks:</b>
Labour requirement (work/month)			
National Inputs			
Imported Inputs	4,000,000		
<b>Financial requirements</b>			
Local			
External			
Donation/ Loan / Funding			
<b>Potential source of financing</b>			
External Credit			
Donor			

<b>BELIZE</b>	<b>No. T-8</b>
<b>PROYECT TITLE: HYDROLOGICAL STUDIES FOR DRAINAGE AND CULVERT DESIGN</b>	
<b>Sector: TRANSPORT</b>	<b>Subsector: HIGHWAYS</b>
Background: It is necessary to define criteria for return periods for drainage, culverts, bridges and wall retaining design	
Project objectives: Obtain rainfall series and period of return criteria for design	
<b>Duration of the project:</b> 3 months <b>Date of initiation:</b>	<b>National executing agency:</b> MWTC&BI
Description of activities and tasks: Rainfall series and measurement network analysis, calculations and a proposal for periods of returns for each type of structure	
Expected results and products: Design Criteria and Standards	

<b>Total required investments</b>	200,000	BZ\$
Labour requirement (work/month)	4	
National Inputs	50,000	
Imported Inputs	150,000	
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<b>Financial requirements</b>		
Local		
External		
Donation/ Loan / Funding		
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<b>Potential source of financing</b>		
External Credit		
Donor		

**Special remarks:**

<b>BELIZE</b>	<b>No. T-9</b>
<b>PROYECT TITLE: GEODESIC STUDY FOR HEIGHTS DETERMINATION</b>	

<b>Sector: TRANSPORT</b>	<b>Subsector: HIGHWAYS</b>
Background: It is necessary to increase accuracy of heights determination for any drainage design in Belize, Orange Walk and Corozal Districts	

**Project objectives:** Obtain topographic accuracy references for drainage studies in basins using GPS with a distance of 20 km among them

<b>Duration of the project:</b> 5 months  <b>Date of initiation:</b>	<b>National executing agency:</b> MWTC&BI
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**Description of activities and tasks:** Topographic reference of heights in the low areas with flooding hazardous

**Expected results and products:** Topographic Heights Points of reference for design

<b>Total required investments</b>	700,000	BZ\$
Labour requirement (work/month)	4	
National Inputs	210,000	
Imported Inputs	490,000	
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<b>Financial requirements</b>		
Local		
External		
<u>Donation/ Loan / Funding</u>		
<b>Potential source of financing</b>		
External Credit		
Donor		

**Special remarks:**

<b>BELIZE</b>	<b>No. T-10</b>
<b>PROJECT TITLE: CANALIZE AND CLEANING OF CULVERTS</b>	
<b>Sector: TRANSPORT</b>	<b>Subsector: HIGHWAYS</b>
Background: It is necessary the maintenance and clearance of culverts from silt and garbage	

**Project objectives:** Clearance of culverts

<b>Duration of the project:</b> 12 months  <b>Date of initiation:</b>	<b>National executing agency:</b> MWTC&BI
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**Description of activities and tasks:** cleaning of silt and garbage the culvert itself and basin

**Expected results and products:** Works done

<b>Total required investments</b>	2,000,000	BZ\$	<b>Special remarks:</b>
Labour requirement			
(work/month)	200		
National Inputs	2,000,000		
Imported Inputs	0		
<hr/>			
<b>Financial requirements</b>			
Local			
External			
Donation/ Loan / Funding			
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<b>Potential source of financing</b>			
External Credit			
Donor			