

***OAS – Sustainable Communities Grant Proposal
Sustainable Recycling and Reuse Project - Pilot***

Name of the Organization: Plenty International Belize Ltd	Type of Organization: NGO
Brief Description of the Organization: <p>Plenty International Belize Ltd is a registered NGO whose mission is: “Working Together for the People, Communities, and Environment of Toledo.” Plenty Belize has a 7 member Board of Directors that sets policy. Current Executive Director Mark Miller has been managing the daily operations since 2002. Three staff are trained in Project Management, and manage projects themselves, with the E.D. overseeing their projects as well as managing his own. Plenty Belize currently has 7 full time staff, 1 part time staff, and 2 part time international volunteers all focusing on Sustainable Development. As stated in our mission, we work solely in the Toledo District of Belize. All of our work is based on the principles of Sustainable Development.</p>	
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Project title: Sustainable Recycling and Reuse - Pilot Project	
Project Objective and Expected Outcomes: Objectives – <ol style="list-style-type: none"> 1. Heighten awareness on the importance of proper solid waste disposal. 2. Promote the 3 R Philosophies of solid waste management particularly “Reuse” and “Recycle” of materials found in environment. 3. Determine feasibility of a sustainable recycling / reuse facility. Outcomes – <ol style="list-style-type: none"> 1. Ten (10) Environmental Education Workshops conducted. 2. Fifteen (15) pilot plastic recycling sites established. 3. Feasibility Study Report for a Recycling and Reuse Facility. 	
Target Population: Community stakeholders of Punta Gorda Town and surround villages, Golden Stream Corridor villages, and Sarstoon-Temash buffer zone villages in Toledo District, Belize, Central America	
Amount Requested in USD: <p style="text-align: center;">\$49,981.50</p>	Project Duration in Months: <p style="text-align: center;">Twelve (12) months</p>

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2. PROJECT SUMMARY

The Sustainable Recycling and Reuse Project - Pilot, is a two part project that encompasses Community Outreach along with Research and Development of alternative solid waste disposal options. This proposed waste management through education and alternative solid waste disposal project pilot has been designed to heighten community awareness on the importance of reducing the environmental impacts of solid waste disposal while gathering data to identify diversified recycling and reuse methods beneficial for sustainable community development.

Project components discussed in this proposal will be implemented through various mediums to engage concerned community stakeholders of Punta Gorda Town, Golden Stream Corridor villages, and Sarstoon-Temash buffer zone villages. Individuals interested in reducing solid waste disposal will be invited to participate in workshops, public forums, community clean-ups, recycling campaigns, and practical application employment opportunities to contribute to the recycling project pilot. Research gathered through surveys, focus group sessions, and the management reports of the recycling project pilot will demonstrate the impact of the project and its feasibility to be sustainable after the grant funding has ended.

Objectives 1) Heighten awareness on the importance of proper solid waste disposal and; 2) Promote the 3 R Philosophy of solid waste management particularly “Reuse” and “Recycle” of materials found in environment – are methods to heighten awareness and educate on alternative solid waste disposal methods. Objective 3) Determine feasibility of a sustainable recycling / reuse facility in the Toledo District – is a strategic approach to solve the obstacles faced with establishing a conventional recycling program.

Through this OAS Sustainable Communities grant opportunity, Plenty Belize and committed community partners will implement the strategies documented in this proposal to promote the well-being of the people, the communities, and the environment we share in the Toledo District of Belize.

3. ORGANIZATION’S EXPERIENCE

Plenty is a not-for-profit 501-c-3 organization that was created to help protect and share the world's abundance and knowledge for the benefit of all. Plenty supports economic self-sufficiency, cultural integrity and environmental responsibility in partnership with community groups and organizations in Central America, the U.S., the Caribbean, and Africa.

Plenty's Mission is to assist in the protection, stewardship, and sharing of the world's resources to promote the well-being of the communities and environment we share. Plenty Belize operates independently, yet benefits from access to material, financial and technical support from its affiliation with Plenty International. Within this context, the mission of Plenty Belize is to promote the health and well-being of the people, the communities, and the environment we share in the Toledo District of Belize. This has been done by assisting indigenous Mayan, Garifuna and other local community-based groups in their efforts to create and maintain economically viable and environmentally sustainable activities.

Since 1990, Plenty staff and volunteers have provided financial, technical, and material support to these local efforts. Technical support has included strategic planning, computer training, project development, marketing, fundraising and networking. Plenty Belize also implements a number of projects in agriculture, health, nutrition, and education, in close liaison with local government and non-governmental agencies.

4. PROJECT NARRATIVE DESCRIPTION

4.1 Rationale

This proposed waste management through recycling and reuse project pilot is vital to heighten community awareness on the importance of reducing the environmental impacts of solid waste disposal. The targeted population is situated among priceless natural resources of forestry, watershed areas, rivers, and rare wildlife and plant life. Improper disposal of solid waste material poses a threat of soil and water contamination which could damage the ecosystems of the plants, animals, and fresh water sources in the area. To abate this pending catastrophe, the Sustainable Recycling and Reuse Project Pilot seeks to provide environmental education material to community residents of the targeted population and gathering pertinent data that identifies diversified recycling and reuse methods that are beneficial for sustainable community development.

Targeted Population:

The targeted population includes residents of Punta Gorda Town, Golden Stream Corridor villages, and Sarstoon-Temash National Park buffer zone communities located in the Toledo District of Belize, Central America. As of the 2010 Census, Toledo District has a population of 29,885 with 17,449 of its residents of age to be in its labor force. With an alarming 21.1% unemployment rate along with environmental impacts affecting Toledo (deforestation rate, reduction in marine life habitation, and a rising population growth rate), the Sustainable Recycling and Reuse Project - Pilot is critical to assessing the viability of creating alternative solid waste disposal habits that can also create employment in an emerging industry.

Complementary Projects:

Through a grant from the Social Investment Fund (SIF), Plenty Belize is scheduled to provide certified capacity building training sessions to 144 members of at least six non governments and community based organizations within the targeted population of this proposed project. The SIF project profile presents a proposal for financial assistance to Plenty Belize to conduct training in customer services, conflict resolution, records management and management skills. The cost of the training program is \$91,010.00 (BZ) which is to be funded under the SIF II Loan Organizational Strengthening Sector.

Six (6) participants of the SIF funded training sessions will participate in this proposed Sustainable Recycling and Reuse Project – Pilot. These participants will apply their skills attained from the SIF funded project into this project thus contributing to the Sustainable Recycling and Reuse Project Pilot. Completion of the SIF funded training empowers participants to gain four (4) skills relevant for communities to effectively manage the proposed solutions of the Sustainable Recycling and Reuse Project – Pilot.

Population Relevance:

Punta Gorda Town is located on the west coast of the Caribbean Sea in Southern Belize and is geographically part of the Gulf of Honduras. Punta Gorda Town has a population of approximately 5,500 inhabitants (989 households) and is the administrative capital of the Toledo District. People commute from an area of 900 square miles daily to the district capital for work and trade. PG functions as the economical center for the surrounding fifty-one (51) villages of which two of the largest nature reserve communities are targeted for this project pilot – Golden Stream Corridor Preserve and Sarstoon-Temash National Park.

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The Golden Stream Corridor Preserve makes up one of the last stretches of rare lowland tropical broadleaf forest which serves as a valuable conservation corridor linking the extensive protected areas in the Maya Mountains to the north (Maya Mountain Forest Reserve, Bladen Nature Reserve and Chiquibul National Park) with the Port Honduras Marine Reserve. The Golden Stream Watershed Corridor is unique because of the great diversity of habitat types concentrated within a relatively short distance. Golden Stream Corridor Preserve villages include Medina Bank, Hicatee, Golden Stream, Indian Creek, and Big Falls (although Big Falls is not within the managed areas, its location impacts the preserved areas.)

The Sarstoon-Temash National Park is the southernmost protected area in Belize. Established in 1994, the park encompasses 41, 898 acres of broadleaf, wetland and mangrove forest. The park encompasses 13 different ecosystems and approximately ten miles of coast along the Amatique Bay in the Gulf of Honduras. The documented fauna of the STNP include 226 species of birds, 24 mammals species including Jaguar, Jaguarundi, Ocelot and Manatee, 22 reptile species including the Morelet's Crocodile, 42 fish species and 46 species of Lepidoptera (the butterfly and moth family). The park contains plant species and ecosystems found nowhere else in Belize and is said to house some of the best examples of undisturbed red mangrove forest in the region. Sarstoon Temash National Park buffer zone communities include Barranco, Midway, Sunday Wood, Conejo, Crique Sarco, Graham Creek, Dolores, Corazon, and Otoxha.

These three areas are crucial to the preservation of Belize's natural resources located in the Toledo District – people, wildlife, plant life, marine life, forestry and quality soil. Punta Gorda Town, Golden Stream Corridor villages, and the Sarstoon-Temash buffer zone villages are experiencing population growth without sustainable infrastructure in place for their unavoidable buildup of solid waste. Although landfills are established, without adequate knowledge of the impacts of improper solid waste disposal, communities could become inundated with waste causing contamination to their surrounding environment. It is of timely priority to teach the importance of proper solid waste disposal and to implement the initial processes of selecting a proven methodology of alternative solid waste disposal that is viable for sustainable community development. Over 80% of the population is rurally based and relies on subsistence agriculture for their livelihood. The Toledo District has one of the highest poverty rates in Belize, and regularly ranks at the bottom with regards to education, health, infant mortality, and similar measures of standards of living.

The Sustainable Recycling and Reuse Project - Pilot is foreseen to deliver reciprocal information exchanges between the project and the participants for maximum public awareness and data collection with tangible solutions implemented within the timeframe of the project.

4.2 Baseline

Currently, the infrastructure to use an alternative solid waste disposal method is not stable in Toledo District. There are two recycling service providers in Punta Gorda and a few traveling recyclers. The obstacles incurred by residents to use these services include 1) no transportation services to collect and/or deliver recycled materials to the service provider, 2) taxi services are not cost effective for the price paid for recycled material, and 3) traveling recyclers are not easily found. Additional hindrances faced by the service providers include limited space for recycled items and capital to manage a pickup service. The service providers are attempting to offer an alternative solid waste disposal method yet the process must be established through a larger community approach.

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Through the Sustainable Recycling and Reuse Project Pilot, material collection and transportation solutions can be provided to alleviate the current obstacles. This two part project pilot can provide the community with 1) education on the benefits of recycling to promote usage of the alternative solid waste disposal method, 2) awareness of Sustainable Recycling Collection Sites made available through the project, and 3) data collection to assess the feasibility of a self-sustaining recycling facility.

The price paid for recycled material in the Toledo District does not meet the expenses of a standard recycling program. The transportation cost alone for bulky solid waste such as plastic discourages the ideal of recycling for export. To offset the cost of operating a full service recycling facility, R & D is necessary to identify the feasibility of incorporating recycling-based manufacturing. Upon initial research of the recycled products market (plastic), marginal cost for recycled material outdoor furniture is \$375 - \$550 US for a bench, \$800 US plus for a picnic table, with plastic lumber averaging approximately \$4.00 US per board foot. Although the recycled product costs are higher than their wood counterparts, the rising conservation efforts to prevent deforestation may potentially make plastic lumber the innovative product requirement for future construction codes globally. Considering the potential of this emerging industry and the volume of recycled products available through the pilot recycling sites, this pilot project can also conduct the vital research to complete a feasibility study. If assessment findings reflect an exceptional level of feasibility, a Business Model Canvas can then be created to illustrate cost effectiveness and other pertinent details to generate investment interest in a Solid Waste Recycling and Reuse Facility in Toledo District.

4.3 Project Goal and Purpose

Plenty Belize's goal for this project is to empower the targeted communities with critical resources needed to develop conscience mindsets of their environmental responsibility and to assemble the infrastructure for a sustainable solid waste recycling and reuse facility. This can be achieved by the project goals –

- Supply educational material and remediation of improperly disposed solid waste to ten (10) communities of the target population.
- Establish fifteen (15) pilot recycling service sites to promote usage of an alternative solid waste disposal method.
- Complete a Feasibility Study to determine the potential of a sustainable recycling facility in Toledo District.

The Sustainable Recycling and Reuse Project – Pilot purpose is to 1) supply information to communities on the environmental impacts of improper solid waste disposal, 2) educate individuals on alternative solid waste disposal methods, and 3) provide solutions to use alternative methods for disposal of select types of solid waste material.

4.4 Project Outputs and Indicators

The following outputs and indicators reflect the end results of the strategies implemented in this project. Project planning charts/models, activity reports, and participant feedback will be used to assess project implementation efficiency, effectiveness, and impact.

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Anticipated Outputs:

1. Host ten (10) Environmental Education Workshops that delivers tangible material and practical application activities for participants to obtain a heightened awareness of their environmental responsibilities.
2. 200 participants total attend Environmental Education Workshops to receive handout material that can be shared with others in their community to continually promote the project purpose.
3. Fifteen (15) pilot recycling sites established in Toledo District to provide access to an alternative solid waste disposal method with logistics management training provided to communities to maintain the service after the project ends.
4. Ten (10) location clean-ups conducted throughout the targeted communities to remedy areas blighted with trash.
5. Feasibility Study Report for a Recycling and Reuse Facility completed from R&D of the recycling industry, processing procedures for manufacturing recycle plastic products, and a cost analysis to compare a standard recycling program versus a reuse facility.

Indicators:

1. Ten (10) workshops (events and tours) arranged with community leader 30 days prior to event scheduling.
2. Workshop attendance level averages twenty (20) persons or more per workshop.
3. 15 MOU's signed with Pilot Recycling Site Locations to provide a secure location for receptacle placement and notification of relevant conditions that may jeopardize material collection
4. Before and after photos of cleanup locations included in Activity Reports verify necessity and remediation provided.
5. Data collection from the nine key areas of the feasibility study – technical data, economics, legal, operational, scheduling, cultural, resource, financial, and market.

4.5 Project Activities and Methodology

The following activities of the Sustainable Recycling and Reuse Project – Pilot are contained within two components – Community Outreach and Research and Development for Feasibility Report.

4.5a Community Outreach Activities

Environmental Education Workshops:

As the educational component of the Sustainable Recycling and Reuse Project - Pilot, workshop will be offered on two platforms – Event Location (3) and School Tours (7). Event Location workshops are designed for adult participants with the School Tour workshops designed for youth participants. These two community outreach efforts are designed to provide awareness and education on the importance of sustainable solid waste disposal practices and gather relevant information of project research.

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Participants will be engaged in:

1. Solid Waste Management Presentations

Participants will observe presentations with surveys provided pre and post presentation to gather data on participant awareness on topics of solid waste disposal and environmental impacts.

Methodology

Presentations will be conducted by industry leaders of their respective areas of expertise on information relevant to the project purpose.

Expected Output:

Handout material distributed to provide convenient tips for daily use and solutions made available through the project.

2. Creative Reuse Activity

These activities are designed to reveal creative reuse ideas for solid waste and encourage the reuse of disposable items as truly usable and valuable material.

- i. *Sustainable Waste Management Essay*. During promotion of workshops scheduled, students will be requested to complete an essay on sustainable waste management methods. Winning essay will be awarded during workshop. Three (3) prizes will be awarded as scholarships to student's school of choice with winning essay displayed at the WeArt Gallery in Punta Gorda.
- ii. *Recycled Artwork*. Participants will be grouped to complete creative reuse pieces of art as displayed in the presentations. Participant groups with the most creative pieces will receive table prizes for first, second, and third prize with the first prize work of art from each workshop displayed at the "WeArt Gallery" in Punta Gorda.

Methodology:

Prior to and during the workshops, participants will be interactively engaged in activities that inspire research, creativity, and practical application of information presented.

Expected Outputs:

Prizes selected are intended to promote the project purpose among the participants community and through exhibition tours at the WeArt Gallery.

3. Pilot Recycling Service

Within centralized areas of the targeted population, pilot recycling collection sites will be managed through the project. Six community members will be trained in four (4) key areas: customer services, conflict resolution, records management and management skills. These skills will be used to promote sustainability of the pilot recycling service. It's anticipated for the pilot recycling service to employ route collection staff with trained community members providing the ongoing logistic management to properly keep records of the activities' outputs. Staffing will be established through volunteer participation and solicited request. Implementation of each of these areas will establish the initial accessibility to alternative solid waste disposal in the targeted population.

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Methodology

Potential locations for collection of plastic solid waste have been identified by their high traffic levels and/or environmental impact location in Punta Gorda Town and surrounding communities. The collection service is to be provided by contract employees through the project that will remove full receptacles and replace with and empty receptacles from pilot recycling collection sites on their route. Two routes will be established to economize fuel across the 100 square mile area.

This recycling pilot is intended to capture all plastic material and other specified solid waste material for R & D related to estimated annual plastic waste volume and potential material reuse for manufacturing recycled and/or biodegradable products. Plastic solid waste can be deposited into the available receptacles located at the indicated Pilot Recycling Collection Sites. Receptacles will be scheduled for pickup with captured waste delivered to the SRRP Pilot Materials Handling Center for processing. Unused collected material will be sold to a third party recycler for final disposal. Monies generated from the initial recycling project are anticipated to subsidize transportation and labor expenses of the recycling service during the grant cycle.

Expected Outputs:

Qualified participants of the targeted communities will to perform the logistical, managerial, customer service, and research duties required to effectively implement and assess the pilot project component. Incentives for dedicated services will be contract employment for participants with wages paid for the task completed.

It is anticipated to establish a minimum of fifteen (15) locations as official Pilot Recycling Collection Sites. Incentives for Pilot Recycling Collection Sites include location receiving promotional advertising through print material distributed during the Pilot Project with publicity through TV ads and PSA videotaped at location.

4. Recycling Receptacle Decorating

To memorialize participant involvement in each community clean-up, event volunteers will be allowed to decorate recycling receptacles being placed in the area cleaned.

Methodology

Multiple staging areas will be setup at workshop location. Participants will be given the opportunity to enshrine their memorable insignia.

Expected Output:

Memory of event embedded in the minds of participants with decorative receptacles that capture public attention.

5. Skits- Play

To theatrically illustrate the effects of improper solid waste disposal, participants will be entertained and enlightened by the play “Mi No Litta”. This play creates a visual impression of the health hazards, environmental destruction, and reduction of the quality of life in a community where excessive litter occurs.

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Methodology:

Performing a skits-play provides a comic relief to a very serious topic prior to engaging the workshop participants in discussion related directly to their living environment. As a means to display local talent, residents from within each community where the workshop is held will be auditioned to perform the prewritten script with contracted cast available as needed.

Expected Output:

Increase participant awareness and contributions in focus group session.

6. Focus Group Session

Following the play, participants will be engaged in group discussions to identify key areas of concerns related to solid waste disposal and solutions to make sustainable changes for the future.

Methodology:

Various data collection tools will be used to obtain pertinent information. Sessions will be recorded for detailed notation of discussions. Dictation will be completed from the recordings to document the issues and solutions that arise during the sessions.

Expected Outputs:

Focus group sessions provide an opportunity to collect project evaluation data along with R&D data to properly assess project effectiveness and needs of the community.

7. Ongoing Public Service Announcement - Ad Campaign

To promote awareness of the project's purpose and to encourage community participation in recycling plastic containers, public service announcements will be aired on PGTV twice a week with campaign ads played throughout each broadcast. With radio broadcast on Tumul'kin/Acutan Radio and Wamalali Radio aired to promote scheduled events.

Methodology

Campaign material will be created to illustrate the objectives of the project and the coinciding activity scheduled following the broadcast date. PGTV will also provide video coverage during workshops and community outreach events give updates through news reports.

Expected Outputs:

Exposure through 104 days of advertising the projects' purpose is designed to increase community participation in activities. Footage of project activities will be made available on DVD and shared with communities for an increased awareness of project benefits.

8. Community Clean-up

Through the help of workshop participants and community volunteers, areas blighted with improperly disposed solid waste will be cleaned. This activity is provides improvements to the quality of life for community impacted and is intended to instill a conscience mindset of environmental responsibility.

Methodology

During the each workshop, participants will be requested to sign-up for a to-be scheduled community clean-up. Clean-up locations will be identified based community need assessed and volume of participants that sign-up. Clean-ups will be scheduled with transportation provided for volunteer to travel to multiple locations per day. This will allow the group work

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more efficiently and cost effectively. Incentives for participation per clean-up day include a BBQ Social and an award of five (5) tickets for an Environmental Education Field Trip.

Expected Output:

It is anticipated to recruit twenty (20) workshop participants to work along with community organization volunteers to clean ten (10) locations in the targeted population communities.

9. Environmental Education Field Trip

Throughout the project, multiple attempts will be made to increase attendance at each workshop. It is anticipated to have collectively, 90 participants from the event location workshops and 120 from the school tour workshops. To promote the level of interest for participation in the workshop and the clean-ups, 30 tickets for an Environmental Education Field Trip to one of the conservation areas or art exhibition tour. Tickets will be given away through raffle, question prize, table prizes or other creative technique to encourage participation, feedback, and/or motivation during activities.

Methodology:

Environmental Education Field Trips provide practical application of the information gained during the workshop and are designed to instill a conscience mindset that encourages a change in unsustainable solid waste disposal habits.

As a tool for participation incentives, a field trip ticket to terrestrial or marine protected areas, or Creative Reuse Art Exhibition will be given away. These field trips are provided to selected workshop participants plus support staff for hands-on experiences that allow them to relate to the significance of contributing to alternative solid waste disposal habits.

Field Trip Destinations: Golden Stream Corridor Preserve (terrain), Port Honduras Marine Reserve (marine), and Sartoon-Temash National Park (terrain and marine), WeArt Gallery (art exhibition tour)

Expected Output:

Community members and students will be encouraged to participate in focus group sessions and provide survey feedback.

10. Workshop Catering / Refreshment

Event Location workshops are scheduled to exceed four (4) hours. To accommodate participants during the lunch hours, food will be provided with a cafeteria style meal. School tour workshops are scheduled for two (2) or less. Students will be provided with a portable beverage and snack.

Methodology:

Workshop surveys will be collected as participants are being organized to enter meal/refreshment area. Catering will be provided by third party service provider.

Expected Output:

Community members and students will be encouraged to participate and provide survey feedback.

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4.5b. Research and Development Activities

In addition to community outreach activities, the project will generate preliminary data in research areas related to the feasibility of recycling-based manufacturing facility.

The R & D components below are intended to reveal the feasibility of establishing a solid waste recycling and reuse facility in the Toledo District of Belize.

1. Feasibility Study

This aspect of the project aims to objectively and rationally uncover the strengths and weaknesses of a recycling-based manufacturing facility and its opportunities and threats as presented by the environment, the resources required to carry through, and ultimately the prospects for success.

Methodology:

The assessment will be completed in ten (10) subsections of feasibility:

a. Technology and System

The assessment is based on an outline design of facility requirements in terms of Input, Processes, Output, Fields, Programs, and Procedures.

b. Economic

This cost/benefits analysis is to evaluate the effectiveness of a new facility.

c. Legal

It is imperative to determine whether the proposed facility conflicts with legal requirements

d. Operational

This subsection will measure how well the proposed facility solves the problem of the volume of plastic waste collected and the opportunity for it to eliminate excessive transportation expenses to export recycled material out of the country.

e. Schedule

The facility project would fail if the processing timeframes take too long to be completed in relation to the cost being incurred. The subsection will assess the collection phase, preparation of material for processing, and time to manufacture an end product against its market demand.

f. Market

This subsection will take an in-depth look at the plastic recycling industry and the marketability of potential products in this region, nationally, and globally.

g. Resource

This involves questions as to the resources available to build the new facility, amount of available recycled material, qualified labor force or necessity for employee training, and the dependencies of the facility for operational support.

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h. Cultural

In this stage, the facility's alternatives are evaluated for their impact on the local and general culture. Key areas will be the environmental factors which need to consider the communities willingness to participate.

i. Financial

As a new facility, financial viability will be judged on the parameters of: total estimated cost of the facility construction, equipment, working capital for initial operations, debt equity ratio, projected cash flow and profitability.

This recycling and reuse pilot R & D component is intended to capture all plastic material and other specified solid waste material for study of estimated waste volume, potential material reuse for manufacturing marketable recycled and/or biodegradable products, and the cost-effectiveness of proposed business models.

Qualified participants of the targeted communities will to perform the logistical, managerial, scientific, and research duties required to effectively implement and assess the pilot project component. Incentives for dedicated services will be contract employment for participants with wages paid for the task completed.

Upon completion of the R&D, if assessment findings reflect an exceptional level of feasibility, a Business Model Canvas will be created to illustrate its cost effectiveness and other pertinent details that generate investment interest. It is anticipated to continue providing the recycling service for a second year to verify practical application of the models business strategies.

Expected Output:

Completion of research for the above components and the practical application step applied will produce the Feasibility Study Report detailing the evaluation criteria, the study findings, and the recommendations.

During this process, contract employees from the targeted population will be utilized to process R & D materials and to conduct feasibility assessments.

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4.6 Logical Framework

****See Attached Chart****

4.7 Timeframe and Work Plan

*****See Attached Chart*****

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4.8 Monitoring and Evaluation

Throughout the project various monitoring and evaluation tools will be utilized to gauge the level of achievement of each activity and the overall project efficiency, effectiveness, and impact in the community. Primary monitoring and evaluation methods will include planning models, monitoring charts, activity reports, and participant feedback surveys. These tools along with other internal management methods will provide dynamic approaches to identify project inefficiencies and to apply counter measures that ensure successful completion of each activity planned.

4.9 Gender Sensitivity and Community Inclusiveness:

Promotional exposure of the project will emphasize the need for participants of all genders, race, age and culture come out to participate.

4.10 Team Composition and Task Assignment

For this project, Plenty Belize is partnering with multiple NGO's, professional firms, community volunteer groups, and schools to effectively and efficiently implement this proposed project. Key management staff will be provided by Plenty Belize with supportive activities conducted by staff/volunteers with respective expertise from the following community partners.

Community Partners:

Gumagarugu Networking Group
TIDE
Solid Waste Management Authority
Toledo Association of Businesses
Punta Gorda Town Council
NiHi Hollywood Committee
ProWorld
PG Methodist School
Social Investment Fund
The Forgotten Foods – Remembered
The Bamboo Chicken

Ya'axche Conservation Trust
Kuttin Ground Spirit, Ltd
PG TV
WeArt Gallery
Josephine Supaul's Grocery & Hardware
4A's Recyclers
Diaspora Ltd. / NGO
Johnson Distributors
SATIIM
Mad Media

4.11 CVs of Proposed Staff:

Key management staff consist of:

Executive Director/Programs
Plenty Belize

Manager Mark Miller - Master's Degree in Environmental Pollution Control, a Bachelor's in Electrical Engineering, and is also adjunct faculty at the University of Belize.

Office Manager
Plenty Belize

Tasha Petillo - Associate's Degree in Natural Resources Management for the University of Belize.

Project Manager
Kuttin Ground Spirit, Ltd

Regina Foster – Ten years work experience in logistics management, strategic planning, and business administration with extended experience in customer service, accounting, marketing, and project management.

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5 Budget (2 pages):

The attached Project Budget depicts expenses to be incurred during the 12 month project period. Co-financing is being provided by the following organizations in the areas indicated

See Attached –

- 12-Month Project Budget
- Sustainable Recycling and Reuse Project Pilot - Community Partners):

Annex 1:

See Attached

**OEA – Propuesta de Subvención de Comunidades Sostenibles
Sostenible de Reciclaje y Reutilización Proyecto – Piloto**

Abundante Belice, distrito de Toledo, en Belice.

2. El proyecto Resumen:

El reciclaje sostenible y reutilizar proyecto - piloto, es un proyecto de parte que comprende talleres de educación ambiental junto con la investigación y el desarrollo de posibles soluciones. Esta propuesta de gestión de residuos a través de la educación y piloto del proyecto de eliminación de desechos sólidos alternativos ha sido diseñado para aumentar la sensibilización de la comunidad sobre la importancia de reducir los impactos ambientales de eliminación de residuos sólidos durante la recopilación de datos para identificar diversificada de reciclaje y reutilización de métodos beneficiosos para el desarrollo comunitario sostenible.

Componentes del proyecto discutidos en esta propuesta se implementará a través de diversos medios para contratar a actores interesados de la comunidad de Punta Gorda Town, aldeas de Golden Stream corredor y Sarstún Temash amortiguamiento aldeas. Las personas interesadas en la reducción de la eliminación de desechos sólidos se invitará a participar en talleres, foros públicos, limpiezas comunitarias, campañas de reciclaje y oportunidades de empleo de aplicación práctica para contribuir al piloto del proyecto de reciclaje. Investigación recopilada a través de encuestas, sesiones de focus group y los informes de gestión de logística de piloto del proyecto de reciclaje demostrará el impacto del proyecto y su viabilidad para ser sostenible, después de que los fondos de la beca ha terminado.

Objetivos 1) Crear conciencia sobre la importancia de la correcta eliminación de desechos sólidos y; 2) Promover la filosofía de R 3 de manejo de residuos sólidos particularmente "reutilización" y "Reciclar" de materiales encontrados en el medio ambiente – son métodos para sensibilizar y educar sobre métodos alternativos de eliminación de residuos sólidos. Objetivo 3) determinar la viabilidad de un reciclaje sostenible / reutilización de instalaciones en el distrito de Toledo – es un enfoque estratégico para resolver los obstáculos que enfrentan con el establecimiento de un programa de reciclaje convencional.

A través de esta comunidades sostenibles de OEA conceder oportunidad, abundante Belice y socios comunitarios comprometidos implementará las estrategias que se documentan en esta propuesta para promover el bienestar de las personas, las comunidades y el medio ambiente que compartimos en el distrito de Toledo, en Belice

**OAS Sustainable Communities Grant Proposal
Sustainable Recycling and Reuse Project - Pilot**

US Currency

<i>Project Activity Expenses</i>	Rate	12 - Month Project Budget		Co-Financing	Grant Funding
		Qty	Total		
4.5a Community Outreach Activities					
Environmental Education Workshops					
4.5a.1 Presentations					
Solid Waste Disposal	75.00	3	225.00	225.00	0.00
Conservation	75.00	3	225.00	225.00	0.00
Community Responsibility	75.00	3	225.00	225.00	0.00
Handout Material	3.63	300	1,087.50	200.00	887.50
Survey #1 Material	0.18	300	52.50	22.50	30.00
Survey #1 Material	0.18	300	52.50	22.50	30.00
Projector Rental	37.50	5	187.50	125.00	62.50
PA System Rental	50.00	5	250.00	125.00	125.00
4.5a.2 Participant Activities					
a. Recycled Artwork					
Hobby/Crafts Kits	6.13	60	367.50	0.00	367.50
3rd Prize	12.50	3	37.50	0.00	37.50
2nd Prize	25.00	3	75.00	0.00	75.00
1st Prize	37.50	3	112.50	0.00	112.50
b. Student Waste Mgmt					
Essay Contest					
\$200 Scholarship Prize	100.00	3	300.00	0.00	300.00
\$100 Scholarship Prize	50.00	3	150.00	0.00	150.00
\$50 Scholarship Prize	25.00	3	75.00	0.00	75.00
Creative Reuse					
Art Exhibition	37.50	3	112.50	112.50	0.00
4.5a.3 Pilot Recycling Service					
Certified Staff for					
Service Management	3,200.00	6	19,200.00	19,200.00	0.00
2 - Collection Crew					
(\$70/per)	105.00	52	5,460.00	0.00	5,460.00
Route #1 - Fuel					
(1.5/mile)	37.50	52	1,950.00	0.00	1,950.00
Route #2 - Fuel					
(1.5/mile)	37.50	52	1,950.00	0.00	1,950.00
Pilot Material Handling					
Facility (mo. rent/utility)	300.00	12	3,600.00	0.00	3,600.00

**OAS Sustainable Communities Grant Proposal
Sustainable Recycling and Reuse Project - Pilot**

US Currency

<i>Project Activity Expenses</i>	Rate	12 - Month Project Budget		Co-Financing	Grant Funding
		Qty	Total		
4.5a.4 Pilot Recycling Service					
Receptacle Decorating					
55 Gallon Container	75.00	25	1,875.00	0.00	1,875.00
Acrylic Paint Sets	9.00	15	135.00	0.00	135.00
Stencil Sets	12.50	15	187.50	0.00	187.50
Hardware	22.50	15	337.50	0.00	337.50
4.5a.5 Skits Play					
Stage Play Script	175.00	1	175.00	175.00	0.00
Stage Props	125.00	1	125.00	62.50	62.50
Contract Cast (4)	70.00	3	210.00	210.00	0.00
4.5a.6 Focus Group Session					
Session Supplies	12.50	10	125.00	0.00	125.00
Dictation Service	75.00	10	750.00	0.00	750.00
4.5a.7 PSA and Ad Campaigns					
PGTV	700.00	1	700.00	350.00	350.00
Wamalali Radio	220.00	1	220.00	30.00	190.00
Tumul'kin/Aucutan					
Radio	125.00	1	125.00	75.00	50.00
Wagner Cable Ad	57.00	3	171.00	57.00	114.00
4.5a.8 Community Clean-up					
Supplies	15.00	10	150.00	150.00	0.00
BBQ					
(40 people per)	6.00	120	720.00	100.00	620.00
Transportation Fuel	37.50	3	112.50	112.50	0.00
Volunteer Support	15.00	30	450.00	450.00	0.00
4.5a.9 Environmental Ed. Field Trips					
Sarstoon-Temash	40.00	10	400.00	0.00	400.00
Port Honduras Marine					
Reserve	50.00	10	500.00	0.00	500.00
Creative Reuse Art					
Exhibition	7.50	10	75.00	0.00	75.00
4.5a.10 Event Catering					
Event Location					
(50 people per)	7.50	150	1,125.00	0.00	1,125.00
School Tours (30 per)	3.50	210	735.00	0.00	735.00
Environmental Education Staffing					
KGS - Support Staff - 3	112.50	10	1,125.00	375.00	750.00
Volunteer Support - 2	15.00	10	150.00	75.00	75.00
4.5a Activities Total			46,373.50	22,704.50	23,669.00

**OAS Sustainable Communities Grant Proposal
Sustainable Recycling and Reuse Project - Pilot**

US Currency

<i>Project Activity Expenses</i>	Rate	12 - Month Project Budget		Co-Financing	Grant Funding
		Qty	Total		
4.5b Research and Development					
4.5b.1 Feasibility Study					
KGS -Technical Staff - 2	75.00	135	10,125.00	4,750.00	5,375.00
Phone Credit	200.00	2	400.00	0.00	400.00
Research Transportation (Per Diem)	17.50	52	910.00	910.00	0.00
Product Sample Purchases	400.00	3	1,200.00	0.00	1,200.00
4.5b Activities Total			12,635.00	5,660.00	6,975.00
Grant Administration					
Executive Director.	325.00	12	3,900.00	1,950.00	1,950.00
Project Manager	125.00	104	13,000.00	5,400.00	7,600.00
Finance Officer Contract	3,762.50	1	3,762.50	0.00	3,762.50
M&E Officer Contract	2,687.50	1	2,687.50	0.00	2,687.50
Consumables	537.50	1	537.50	0.00	537.50
Office Rent and Utilities	100.00	12	1,200.00	0.00	1,200.00
Transportation (1.50/per m)	25.00	52	1,300.00	750.00	550.00
Promotional Material	400.00	3	1,200.00	150.00	1,050.00
Grant Administration Total			27,587.50	8,250.00	19,337.50
Grant Request			86,596.00	36,614.50	49,981.50

**Sustainable Recycling and Reuse Project - Pilot
Community Partners**

*** Belize Currency***

Entity	Contribution To Project	Type of Contribution	Cash Value	Status
1 Toledo Institute of Development and Environment (TIDE)	Staff for presentation at: Three (3) Environmental Education Workshops Three (3) Environmental Education Field Trips	In-kind	900.00	Confirmed
2 Gumagarugu Networking Group	1. Stage Play Script 2. (4) Cast for skits-play	In-kind	770.00	Confirmed
3 Ya'axche Conservation Trust	1. Liaising for project with village leaders in your managed areas of Medina Bank, Golden Stream, Indian Creek, Hickatee, and Big Falls, 2. Supplying coordinated transportation to Golden Stream Corridor villages for project planning sessions with village leaders and community outreach activities	In-kind	1,500.00	Confirmed
4 Kuttin Ground Spirit, Ltd	1. Composition of grant proposal 2. Staffing for Technical and Support reduced rate 3. Workshop event equipment shared cost 4. Project Management reduced rate 5. Provide Transportation during research	In-kind and % match	22,870.00	Confirmed
5 Solid Waste Management Authority	1. Staff for presentation at four (3) Environmental Education Workshops, 2. Handout material on presentation content (200)	In-kind	950.00	Confirmed
6 PG TV	1. Broadcasting of project PSA campaign material (1 - Yr) 2. Video coverage of events 3. Production of DVD of project footage	1:1 Match	700.00	Confirmed
7 Toledo Association of Businesses	Support through promotion of project throughout members	In-kind	<input type="text"/>	Confirmed
8 WeArt Gallery	Exhibition Showcase of Creative Reuse projects	In-kind	225.00	Confirmed

Community Partners

***** Belize Currency*****

Entity	Contribution To Project	Type of Contribution	Cash Value	Status
9 Punta Gorda Town Council	Purchase of ___ receptacles	In-kind		Pending
10 Josephine Supaul's Grocery & Hardware	Upto \$200 in purchases for event supplies.	In-kind	200.00	Confirmed
11 NiHi Hollywood Committee	Upto ___ hrs event support staff	1:1 Match		Pending
12 4A's Recyclers	1. Recycling industry research assistance 2. Presentations on recycling	In-kind	200.00	Confirmed
13 ProWorld	Three (3) persons for volunteer support	In-kind	150.00	Confirmed
14 Diaspora Ltd. / NGO	Three (3) persons for volunteer support	In-kind	150.00	Confirmed
15 PG Methodist School	Three (3) persons for volunteer support	In-kind	150.00	Confirmed
16 Johnson Distributors	1. Recycling industry research assistance 2. Purchase of ___ recycling receptacles	In-kind		Pending
17 Social Investment Fund	Certified capacity building training for six (6) project participants (\$1600/per person x 4 days)	In-kind	38,400.00	Confirmed
18 SATIIM	1. Liaising for project with village leaders in your managed areas of Barranco, Midway, Sunday Wood, Conejo, Crique Sarco, Graham Creek, Dolores, Corazon, and Otoxha 2. Supplying coordinated transportation to Sarstoon-Temash buffer zone villages for project planning sessions with village leaders and community outreach activities			Pending
19 The Forgotten Foods - Remembered	1. Purchase upto \$400 in project supplies 2. Provide community responsibility presentation 3. Volunteer support at community cleanup (4 persons) 4. Transportation to cleanup event	In-kind	745.00	Confirmed
20 Plenty Belize	1. Ten percent (10%) of Exec. Director time per mo 2. Twenty percent (20%) of Office Rent/Utilities per mo	In-kind and % Match	5,400.00	Confirmed

Plenty Belize

Community Partners

***** Belize Currency*****

Entity	Contribution To Project	Type of Contribution	Cash Value	Status
21 Texaco	Transportation Fuel Discount	1:5 Match	<input type="text"/>	Pending
22 Toledo Rainforest Water	Discounted purchase of 400 bagged water	In-kind	<input type="text"/>	Pending
23 Oceana	Purchase of ____ recycling receptacles	In-kind Purchase	<input type="text"/>	Pending
24 Oak Foundation	Purchase of ____ recycling receptacles	In-kind Purchase	<input type="text"/>	Pending
25 Belize Coalition to Save our Natural Heritage	Purchase of ____ recycling receptacles	In-kind Purchase	<input type="text"/>	Pending
26 Belize Audubon Society	Purchase of ____ recycling receptacles	In-kind Purchase	<input type="text"/>	Pending
27 Wamalali Radio	Radio broadcast of PSA campaign and events (1 - Year package discount)	In-kind	60.00	Confirmed
28 Tumul'kin/Acutan Radio	Radio broadcast of PSA campaign and events (workshop and event promotion)	In-kind	150.00	Confirmed
29 The Bamboo Chicken	Sponsorship of Workshop Ad on Wagner Cable	In-kind Purchase	114.00	Confirmed
30 D Liven Sea	Sea transportation for Envirn.Ed Field trip Port Honduras Marine Reserve	Service Discount	200.00	Confirmed
31 KC Photo Shop	Discount on printed material (\$.15/per b/w print)	Service Discount	90.00	Confirmed
32 Mad Media	Discounted advertising services	Service Discount	300.00	Confirmed

Total In-kind Co-financing: 73,924.00 *

*Additional contributions received after completion of budget

US Currency: 36,962.00

Ministry of Human Development, Women and Children, and Civil Society



Certificate of Registration as a Non-Governmental Organization

I hereby certify that

Plenty International (Belize) Limited

is this day registered as a Non-Governmental Organization under
Act. No. 26 of 2000.

Signed this 30th day of November, 2001

S. P. P. P.
Registrar
Non-Governmental Organizations

Certificate No: 4/01