



APPLICATION FORM

CONTEST 2023 « MY PROJECT IN 120 SECONDS »

How did you discover the CELEBRATE ISLANDS call for project? Email from MAR Fund



General informations on the project

Name of the project	Waste, People and Reef Health
Name of the island	Roatan, Bay Islands
Size (hectares)	6000 h
Country	Honduras

Theme of the application (only one choice) :

- Ecological restoration
 Sustainable agriculture and/or aquaculture
 Circular economy and/or waste recovery

Information about the applicant organization

Applicant organization	
Full Name	Bay Island Conservation Association
Missions and objectives of the association (max 200 words)	Conserve in a participatory, transparent and sustainable way the coastal marine resources and the ecosystem services that they provide for the social well-being of the Bay Islands; through the implementation of projects and programs.
Status (ID number)	45-91
Creation Date	1991
Country	Honduras
Address	Center for Community Growth, Detour Anthony's Key, Sandy Bay, Roatan.
Phone number	+504 9796-9956
E-mail	www.bicainc.org
Website and social networks	Facebook: bica.hon Instagram: bica.hn
The Legal Representative of the applicant organization	
First name, last name	Rosa Daniela Hendrix
Role	President
Phone number	+504 3351-5483



E-mail	boardofdirectors@bicainc.org
The CELEBRATE ISLANDS Project Manager (if different from the legal representative)	
Name	Nikita Johnson
Role	Community Development Program Coordinator - Chapter Roatan
Phone number	+504 8776-4599
E-mail	nikita.johnson@bicainc.org

Project details

General description of the project (max 250 words)	<p>Currently, BICA implements a Citizen Science program, which consists of collecting data on solid waste through specialized reef, beach, creek, mangrove, and community cleanups, as well as other methods like waste characterization in municipalities. This data has supported the approval of a single-use plastic ban for plastic bags, straws, bottles and foam in the municipality of Roatan. Through this project BICA plans to use aerial drones as a non-intrusive method to monitor, identify and track marine litter and understand its origins in the Bay Islands National Marine Park. Drones will allow for the capture of the total view of remote areas which are difficult to access and would normally be visited once per season. Photogrammetry will allow BICA to identify spatial, and textural properties of waste; create maps of waste along the coastline; track the movement of waste from land to sea via black water channels and identify after storm hotspots to reach the waste before it can go into the sea.</p> <p>Drone data will be correlated with the data collected by citizen science activities for a more comprehensive picture of the waste accumulation in multiple ecosystems. Maps and other products from this data will be shared with stakeholders (municipalities, NGOs, schools, and communities) to improve waste management on the island of Roatan and promote a waste separation municipal ordinance. In conjunction, waste separation pilot projects in the nearest communities to the waste hotspots will be implemented. Teachers, students, and other organizations will be included</p>
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	<p>in the training to increase awareness, collection, and separation of waste.</p>
<p>Main activities planned within the framework of the project</p>	<p>The main activities of the project include:</p> <ol style="list-style-type: none"> 1. Use of drones and photogrammetry software to produce maps of the affected areas. The drones will be able to monitor remote areas. The maps produced will be used in the long-term to effectively allocate and distribute resources on the island. 2. The data collected by this project will be compiled with the data from the brand audit activities for a more descriptive and decisive analysis of the trash washing up on the shore. 3. Posters and infographics will also be produced and shared with the public and scientific community. 4. Simultaneously, there will be several community- driven projects including bi-monthly beach cleanups, with the aim of getting the younger generation more invested in conservation and preservation of the MPA. We expect to instill a feeling of pride and love towards the environment in several groups of the next generation of Islanders. 5. We also aim to increase awareness of proper waste separation, disposal, recycling and hygiene by implementing a waste separation pilot project in the community of Sandy Bay. <p>We believe that the use of drones will significantly reduce time and resources required to monitor such a large area of the Bay islands National Park and being able to modernize monitoring techniques is the next step towards having a successful waste monitoring system in a marine protected area (MPA).</p>
<p>Expected results of the project (max 150 words)</p>	<p>Result 1: Generate data on solid waste</p> <ul style="list-style-type: none"> ● Through Citizen Science, data will be collected on solid waste on beaches and in the ocean. ● Identify hotspots where litter is landing to create a database which facilitates clean ups and prevents



	<p>accumulation of marine litter on the coastline through the use of drones and photogrammetry.</p> <p>Result 2: Raise public awareness about the effects of waste on coral reefs and human health</p> <ul style="list-style-type: none"> ● Implement the campaign on waste in schools on Roatan; which consists of talks in classroom, hands-on activities (art contest, painting signs, specialized clean-ups, and others). <p>Result 3: Improve private and public waste management strategies</p> <ul style="list-style-type: none"> ● Once the marine litter monitoring data has been analyzed the results will be socialized with local and central governments. These results will be used as a tool for making decisions, creating changes and taking specific actions in the MPA.
<p>How do you plan to evaluate the project' results and impacts in the medium and long term ?</p>	<p>The indicators that we will use to achieve our expected results are the following:</p> <ul style="list-style-type: none"> # of beaches monitored with drone to generate data # of hotspots # of students and volunteers participating in project # of public and private waste management strategies that use the data generated <p>The community development program coordinator will implement the activities; and will report to the program coordinator.</p>
<p>Links between the project and existing conservation and management activities on the island (max 150 words)</p>	<p>Waste management in the Bay Islands is poor. Since 2014, we have been working on strategies to increase data on the waste problem on the island of Roatan. Data collected through citizen science has been used to promote bans at a municipality level. Furthermore, the municipalities have been seeking solutions to this problem that only increases yearly. Therefore, being able to have data in a timely and efficient manner allows change to be facilitated.</p>



	<p>Through this project we plan to continue collecting data that support change and also makes our monitoring of waste more efficient to improve waste management at department level.</p>
<p>Presentation of the mobilized team (max 100 words)</p>	<p>Nikita Johnson, BSc in Natural Resources; Community Development Program Coordinator, BICA-Roatan Chapter.</p> <p>Raj Mathias: Intern, Biologist from the University of Plymouth.</p>
<p>Public organizations & partners involved in the project (max 150 words)</p>	<p>BICA is a co-manager of the Bay Islands National Marine Park (BINMP) with the government institution Institute of Forestry Conservation & Wildlife (ICF).</p>



Provisional schedule 2023

Details of activities/month <i>Add lines if necessary</i>	July	August	September	October	November	December	January
1 : Generate data on solid waste	X	X	X	X			
Analyze and present data (presentation and info graphics)				X	X	X	X
2: Raise awareness Clean ups	X	X	X	X	X	X	
4 : Waste separation in the community of Sandy Bay	X	X	X	X	X	X	

Activities and sub-activities	ESTIMATED BUDGET	COFINANCING (optional)
Activity 1 - Generate data on solid waste		
<i>In-kind/human means</i>		
<i>Beach marine debris monitoring equipment</i>		6,068.07
<i>Purchase of materials, services and other expenses</i>		
<i>Travel expense for two BICA technician - Utila</i>	126.97	
<i>Accommodation (hotel and food) :</i>	643.90	
<i>Inner transportation</i>	108.83	
<i>Travel expense for two BICA technician - Guanaja</i>	126.97	
<i>Accommodation (hotel and food) :</i>	643.90	
<i>Inner transportation</i>	108.83	
<i>Equipment:</i>	976.95	
<i>Three month salary for community scientist</i>	568.63	

<i>Activity 1 – Sub-total</i>	3,304.98€	6,068.07€
Activity 2 - Raise public awareness about the effects of waste on coral reefs and human health		
<i>In-kind/human means</i>		
<i>Administrative expenses such as phone plan, office supplies, public utilities, monthly payment zoom.</i>		2,486.72
<i>Cost of equipment (printer, laptop for environmental education, projector, garmin gps and tablets) to be used in the implementation of the project.</i>		3,192.29
<i>Purchase of materials, services and other expenses</i>		
<i>Production of printed materials to increase awareness : posters, puzzle</i>	357.32	
<i>One educational Field trips</i>	190.45	
	547.77 €	5,679.01 €
TOTAL BUDGET OF THE PROJECT	0,00 €	

Information on the operation's budget



SUPPORTING DOCUMENTS TO BE ATTACHED TO THE APPLICATION FILE :

A large empty rectangular box with a dark teal border, intended for listing supporting documents to be attached to the application file.