# Report No. 6

According to the Amended Grant Arrangement between KOICA and the ACS "Impact Assessment of Climate Change on the Sandy Shorelines of the Caribbean: Alternatives for its Control and Resilience"







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## **ACRONYMS**

**ACS** Association of Caribbean States

**CITMA** Ministry of Science, Technology and Industry (Cuba)

**CSC** Caribbean Sea Commission

**DECS** Directorate for Disaster Risk Reduction, Environment and the

Caribbean Sea

ICIMAR Institute of Ocean Science (Cuba)

**KOICA** Korean International Cooperation Agency

**KIOST** Korean Institute of Ocean Science and Technology

**NEPA** National Environment and Planning Agency (Jamaica)

**OSG** Office of the Secretary General

**UDC** Urban Development Corporation (Jamaica)

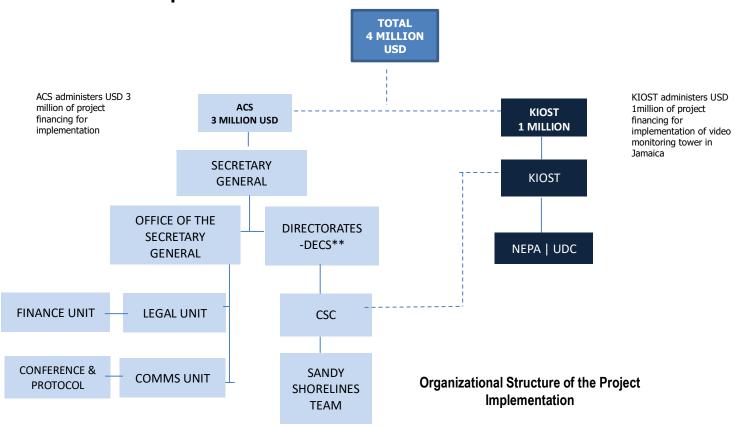






#### 1. PROJECT OVERVIEW

#### 1.1. Operations Overview



The Sandy Shorelines Project currently operates within the Directorate for Disaster Risk Reduction, Environment and the Caribbean Sea (DECS):

During the period covered by this report January 2021 to June, 2021, the ACS was able to successfully engage the services of a new Director of Disaster Risk Reduction, Environment and the Caribbean Sea in the person of Ms Ana Ramirez Cuevas who assume office on the 15<sup>th</sup> February, 2021 as well as a new Project Manager for the Sandy Shorelines Project namely Mr Colin Jack who started on the 3<sup>rd</sup> May, 2021.

The recruitment of these key staff positions have given the project new impetus as advances have been made on the key components of the project.







#### 2. PERFORMANCE REVIEW

#### 2.1. Activities Undertaken and Results Achieved

Notwithstanding the continued constraints to the project poised by the COVID -19 Pandemic, the Sandy Shorelines Project team was able to achieve the following

- ✓ Update the Nominations to the Focal Point Network
- ✓ Active Collaboration with the Technical Coordinator
- ✓ Reviewed and revised Coastal Equipment Procurement Exercise
- ✓ Contracted consultant GAMMA SA and have commenced the Beach Rehabilitation Executive Projects
- ✓ NEPA has successfully completed the Video Monitoring Tower and are in the process of capacity building for its local staff and formulating capacity building exercises for the benefit of the wider focal points within the Sandy Shorelines Project.

#### **COMPONENT 1: Establishment of Focal Point Network and Needs Assessment**

#### ACTIVITY 1.1-Update the Focal Point Network

The nominations to the focal point network were successfully updated -including the nomination of alternate focal points- except for Haiti and these representatives would be in place as the country liaisons up to the expected completion of the project in June, 2022, this will ensure continuity (see attached table). The confirmation was critical for the commencement of the Beach Rehabilitation Projects, the delivery of the coastal equipment and general input on the project. ACS recently set the up the 6<sup>th</sup> Focal Point Meeting which will be held on September 14<sup>th</sup>, 2021.

Country	Technical Focal Point Designated	Position	Institution			
Antigua & Barbuda	Mr. Mark Archibald	Senior Fisheries Officer within the Fisheries Division	Point Wharf Fisheries Complex			
Antigua & Barbuda (alternate)	Mr. Hilroy Simon	Fisheries Officer within the Fisheries Division	Point Wharf Fisheries Complex			
Costa Rica	Sra. Lilliana Piedra Castro	Natural Resources and Wildlife Laboratory Coordinator	National University of Costa Rica			
Costa Rica	Sr. Mario Cerdas Gómez	Director of the Amistad				







Country	Technical Focal Point Designated	Position	Institution			
(Alternate)		Caribe Conservation Area				
Cuba	Dr. Roberto Rafael Núñez Moreira	Director	Instituto de Ciencias del Mar (ICIMAR) / Institute of Ocean			
	Dr. José Luis Juanes Martí	Senior Research Scientist	Science (ICIMAR)			
Dominican Republic	Bienvenido Santana	Technician, Department of Integrated Management of Coastal and Marine Ecosystems - Vice Ministry of Coastal and Marine Resources	Ministry of Environment and Natural Resources			
Dominican Republic (alternate)	Patricia Ortiz	Analyst of the Directorate of Climate Change				
Guatemala	Sigrid Gabriela Castellanos Mendez	Chief a.i. of the Department of Ecosystems	Ministry of			
Guatemala (alternate)	Luisa Maria Fernandez Lujan	Professional Advisor assigned to the Department of Ecosystems	Environment and Natural Resources			
Haiti (To be confirmed)	Ninon Angrand	Director	National Office of Environmental Evaluations (BNEE)			
Jamaica	Una May Gordon	Principal Director – Climate Change Division	Ministry of Economic Growth & Job Creation			
	Anthony McKenzie	Director- Environmental Management and Conservation	National Environment & Planning Agency			
Panama	Ligia Castro	National Director of Climate Change	Ministry of			
Panama (alternate)	Jose Julio Casas	National Director of Coasts and Seas	Environment of Panama			
Trinidad and Tobago	Dr Rahanna Juman	Director (Ag.)	Institute of Marine			
Trinidad and Tobago (alternate)	Dr Cassandra Nanlal	Physical Oceanographer Physical Oceanography	Affairs			







#### • ACTIVITY 1.4 – Technical Advisory Group (TAG)

The Project Manager held ongoing consultations with the Technical Coordinator for the Project in Dr Jose Luis Juanes in reviewing the key components of the project to review the approaches and the way forward, notably with the conferences, beach erosion monitoring network and beach rehabilitation projects.

# **COMPONENT 2: Creating Institutional and Human Resources Capacities in Dealing with the Erosion Process and Climate Change**

#### • ACTIVITY 2.1 – Conferences

With the restriction of movement due to the COVID-19 Pandemic, the scheduling and attendance of conferences were difficult. There were no conferences hosted by the project, nor attended by its focal point representatives as part of the project during the reporting period. However the Project Manager have been in consultation with Dr Chang of KIOST and Dr De La Torre of Carib Coast to determine possible conferences in the period end of 2021 to Mid-2022 and is actively engaged with NEPA on the capacity building exercises on their Video Monitoring Tower project.

#### **COMPONENT 3: Establishment of Regional Erosion Monitoring Network**

The Establishment of the Regional Monitoring Network is divided into two (2) activities: procurement and regional monitoring network.

#### • ACTIVITY 3.1: Procurement of Equipment

In the year 2020, the Sandy Shorelines Project was unsuccessful in its attempt to procure the coastal equipment with the conclusion of the procurement exercise resulting in the tender quotations being larger than the budget allocation.

The ACS has revised its procurement strategy, with the updating of the equipment list as well as changing to a direct purchase approach from specified and approved equipment suppliers to facilitate the delivery of the equipment to the focal point network by the end of the December, 2021.

#### **Synopsis of Revised Procurement Strategy**

The revised ACS procurement strategy is essentially to undertake a direct purchase of the equipment from the main suppliers (manufacturers) of the coastal equipment.

This is advantageous:

✓ The equipment needed and its detailed specifications of the equipment was







supplied by its independent Technical Advisory Group (TAG)

- ✓ Member States were arranged into Tier 1, Tier 2 and Tier 3 through assessment of their coastal programme and their needs.
- ✓ Arrange the varied 229 items into groups and identify suppliers that can supply multiple products
- ✓ This approach eliminates an intermediatory company which will ensure that the budget and time (tendering & delivery) is reduced.

The ACS has decided to approach the Member States to secure the items that can be purchased directly from Amazon due it being small purchases and varied in nature. The proposal is to provide a small budget for these member states to make the purchases

#### PROCUREMENT PROCESS SOURCING STRATEGY NEEDS ASSESSMENT NEGOTIATION **MEMBER LIAISON** /PRODUCT IDENTIFICATION Identify Suppliers **Negotiate Cost** Develop Contact with Needs Assessment Identify Alternative Brands Secure Maintenance & Member State and where necessary Completed Service Determine Delivery **Equipment List Compiled Evaluate Tentative Sale** Information Agreements where Agreements Brands and Specifications necessary Review Adequacy of **Budget Secured** Negotiate Warranties Custody Transfer Agreement Budget MEMBER DETAILS PRODUCT & **SUPPLIER** SUPPLIER APPROVAL & NEGOTIATION **IDENTIFICATION** DELIVERY ACS CONTRACT DEPT MONITOR DELIVERY Confirm Delivery & Member State Get Payments Approved Satisfaction Track Delivery of the by ACS internal Finance Warranties & Service Contract Details Equipment Dep't Recognised Assess Quality of Delivery Facilitate & Follow Up Payment Releases to Supplier **DELIVERY EQUIPMENT INSTALLATION** Project Manager to facilitate, software CLOSE OUT REPORT and equipment installation through Project Manager to compile report webnars and third party interfacing, on Procurement Process to submit avoiding in person contact where to KOICA pratical due to COVID Environment REPORTING & TRAINING

Figure1: shows an overview of the Sandy Shorelines Coastal Equipment Procurement Process.







# **REVISED COASTAL EQUIPMENT LIST**

# ITEM	DESCRIPTION	Antigua and Barbuda	Costa Rica	Cuba	Guatemala	Haití	República Dominicana	Jamaica	Panamá	Trinidad and Tobago	Total Units
1	Total Station TS02 (code:765268 o 765271)	1		2	1	1	1	1	2	1	10
2	Battery GEB 211 (Code 733269)	2	1	2	2		1				8
3	Standard accessories (Code: 6002322)			2	1		1				4
4	Trípod GSTO 5L (Code: 563630)	1	1	1	1		1				5
5	Manuals (Code: 766169, 767508, 767511)	1		1	1		1				4
6	FlexOffice Software (Código: 769608, 769610)	1		1	1		1				4
7	Digital Sieving Machine (Code: 60.131.00998)	1	1	2	1	1		1			7
8	Set of Sieves (Code: 60.131.000038, 60.131.004000)	1		3	1	1		1			7
9	Stereoscopic Microscope	2	1	3	1	1		1	3		12
10	Hondex PS-7			4							4
11	GPS-Metric Precision	1		3	2	1		1			8
12	GPS with camera										0
13	DGPS		1		1						2
14	DGPS - Centimetric precision										0
	Mareographer						1		2		3
16	Stay of Invar (or Horizontal Look)		1						2		3
17	Basic Drone	1	1								2
18	Software to process drone data	1	1					1	1	1	5
19	Mavic Drone for qualitative surveys				1			1	_	-	2
20	Desktop Computer		1		1			1			2
21		1			1			1			3
	Laptop computer (DELL) Laptop computer (PANASONIC)	- 1	1		1	1		1			2
23	Field Tablet	2	1			1		1		1	5
24	Walkie Talkies	2			2			1	4	4	10
25	Fixed Level		1				1		2	-	4
26	Lab/collection materials	1			1	1	1	1		1	6
27	Complete equipment for diving	1			1	1	4	1		1	4
	ArcGIS 3D Analysis Software				1		1				2
29	Software for satellite images				1		1	1			2
30	Nautical Charts				1			1			0
31	Camera				1						1
32	Underwater Camera	1			1	1					3
	Camera with GPS		1			_					1
34	Digital Camera (Canon)			I	T	I		1			1
35	Zip Level PRO 2000				1		4	1			5
36	High-precision Mobile Station				_		-				0
37	Manual level Abney	1	1			1	1				4
38	Graduated bars	1				_	_				1
39	Mersuring tape 25 m										0
40	Mersuring tape 50m				1						1
41	Mersuring tape (fibre glass 100m)	1			1			2			4
42	Compass		1			1	1	1	2	2	8
43	Clinometer		1		1						2
44	Mark paint						10				10
45	Tower of Granulometry				1		1				2
46	Sediment nucleator		1		1		1				3
47	Sediment trap				1		1				2
48	Drying Oven	1			1	1	1	1			5
49	Analytical Scale	1	1		1	1		1	2	1	8
50	Portable weather station		1								1
51	Sand density cones		1				1				2
52	Salinometer		1		1		1				3
53	Odometer		1				1			$\sqcup$	2
54	Coastal video camera		6		1						7
55	Surf monitoring and observation software		1							$\vdash$	1
56	Geoscaners										0
57	Distance meter	1	1		1		1				4
58	APNI Level or Compass Manual				-	1	1				2
59	Survey Tripod	1			<u> </u>		1			$\vdash$	2
60	Prism Poles	1			2			2			3
61	Automatic survey level	1						2			3
62	Survey Staff 2.60 m	1			-			2			3
63 64	Tripod Aluminium	1	1			_		2		1	2
04	Licence (drone) - Pilot Licence		1							1	







# ITEM	DESCRIPTION	Antigua and Barbuda	Costa Rica	Total Units	GROUP		COMPANY/SUPPLIER
1	Total Station TS02 (code:765268 o 765271)	1		10			
2	Battery GEB 211 (Code 733269)	2	1	8	TOTAL STATION		
3	Standard accessories (Code: 6002322)			4	SURVEYING EQUIPMENT		LEICA GEOSYSTEMS
4	Trípod GSTO 5L (Code: 563630)	1	1	5	(item 1 to 6)		
5	Manuals (Code: 766169, 767508, 767511)	1		4			
6	FlexOffice Software (Código: 769608, 769610)	1		4			
7	Digital Sieving Machine (Code: 60.131.00998)	1	1	7			
8	Set of Sieves (Code: 60.131.000038, 60.131.004000)	1		7	(LAB EQUIPMENT)		ELE INTERNATIONAL
9	Stereoscopic Microscope	2	1	12			
10	Hondex PS-7 (Echo Sounder)			4	SINGLE	_	AMAZON.COM ONLINE SHOPPING
11	GPS-Metric Precision	1		8			GARMIN International
12	GPS with camera			0	GPS	-	GARMIN International
13	DGPS		1	2			GARMIN International CHC
14	DGPS - Centimetric precision			0			GARMIN International
15	Mareographer			3			GEONICA RBR (BATTER
16	Stay of Invar (or Horizontal Look)		1	3		_	LEICA GEOSYSTEMS
17	Basic Drone	1	1	2			
18	Software to process drone data	1	1	5	DRONE	-	Rectrix Drone Services Limited
19	Mavic Drone for qualitative surveys			2			Rectify Divise Services Emilieu
20	Desktop Computer		1	2			
21	Laptop computer (DELL)	1	_	3	IT EQUIPMENT		AMAZON.COM ONLINE SHOPPING
	Laptop computer (PANASONIC)	1	1	Ž			
_	Field Tablet	2	1	5			
_	Walkie Talkies	2	1	10			AMAZON.COM ONLINE SHOPPING
_			1	4			
	Fixed Level	1	1				LEICA GEOSYSTEMS
	Lab/collection materials	1		6	DIVING EQUIPMENT		ELE International
	Complete equipment for diving						SCUBA PRO.COM
	ArcGIS 3D Analysis Software			2	ARC GIS		ESRI Mapping Software
	Software for satellite images Nautical Charts			2			ESRI Mapping Software
30 31	Camera	_		1			AMAZON.COM ONLINE SHOPPING
32		1			CAMEDA		
	Underwater Camera	1		3	CAMERA		AMAZON.COM ONLINE SHOPPING
33	Camera with GPS	+	1	1			AMAZON.COM ONLINE SHOPPING
34	Digital Camera (Canon)	_		1		$\vdash$	AMAZON.COM ONLINE SHOPPING
35	Zip Level PRO 2000	-		5			AMAZON.COM ONLINE SHOPPING
36	High-precision Mobile Station	-		0			
37	Manual level Abney	1	1	4			AMAZON.COM ONLINE SHOPPING /ELE
38	Graduated bars	1		1			AMAZON.COM ONLINE SHOPPING
39	Measuring tape 25 m			0			AMAZON.COM ONLINE SHOPPING /ELE
40	Measuring tape 50m			1	FIELD EQUIPMENT		AMAZON.COM ONLINE SHOPPING /ELE
41	Measuring tape (fibre glass 100m)	1		4			AMAZON.COM ONLINE SHOPPING /ELE
42	Compass		1	8			THE COMPASS STORE .COM ELE Int
43	Clinometer		1	2			AMAZON.COM ONLINE SHOPPING /ELE
44	Mark paint			10			
45	Tower of Granulometry			2			ELE International
46	Sediment nucleator		1	3			KC DENMARK
47	Sediment trap			2			KC DENMARK
48	Drying Oven	1		5			ELE International
49	Analytical Scale	1	1	8			ELE International
		1	_	1			
50	Portable weather station	-	1	1			ELE International
51	Sand density cones Salinometer		1	3			ELE International  AMAZON.COM ONLINE SHOPPING

### **Supplier Negotiation**

- ✓ The Project Manager having identified the prospective suppliers , made contact and submitted its detailed product specifications for the company to submit its product that meets its specification
- ✓ The company was also requested to indicate its ability to ship its product /equipment to the identified member states, its training, warranties and cost.
- $\checkmark$  Once the company meets ACS requirement s, a formal request will be sent, having







already know that this company will be able to close the deal.

#### **Current Status**

		STAGE 1	STAGE2			STA	GE 3	STAGE 4	
ITEM	NAME OF SUPPLIER	E OF SUPPLIER EQUIPMENT TO BE SUPPLIED		Received	ACS	Supplier		Official	
			Contact		Specs	Specs		Request	
			Made	Response	Sent	Received	Approved	Sent	STATUS
1	ELE International	Lab Equipment	YES	YES	YES	REVIEW	PENDING	PENDING	STAGE 3
2	Leica Geo Systems	Field Equipment (Surveying)	YES	YES	YES	REVIEW	PENDING	PENDING	STAGE 3
3	Brunton	Compass	YES	YES	YES	REVIEW	PENDING	PENDING	STAGE 3
4	Dectares	Coastal Software	YES	YES	YES	REVIEW	YES	PENDING	STAGE 3
5	Rextrix Drone Services	Drone Equipment	YES	YES	YES	REVIEW	YES	PENDING	STAGE 3
6	ESRI Mapping Limited	GIS Software	YES	YES	YES	REVIEW	PENDING	PENDING	STAGE 3
7	Scuba Pro	Diving Equipment	YES	YES	YES	REVIEW	PENDING	PENDING	STAGE 3
8	GEONICA	Mareographer/Tidal Station	YES	YES	YES	REVIEW	PENDING	PENDING	STAGE 3
9	KC Denmark	Sediment Traps	YES	YES	YES	REVIEW	PENDING	PENDING	STAGE 3
10	Garmin International	GPS Equipment	YES	NO	YES	REVIEW	PENDING	PENDING	STAGE 2
11	Amazon Shopping	Miscellanes Equipment( IT , Cameras)	YES	YES	YES	REVIEW	PENDING	PENDING	STAGE 3

As per the compiled table, majority of the equipment are at Stage 3 in the supplier negotiation stage, where ACS is finalizing shipping cost with the Focal points to identify addresses for delivery of the equipment and determining INCOTERMS with the suppliers.

#### • ACTIVITY 3.2 Establishment of National Erosion Monitoring Networks

The ACS is in consultation with its Technical Coordinator to change its approach in setting up the National Erosion Monitoring Network, previously the Network would have depended solely on the procurement of the equipment to the commence the exercise, but with the delay in the arrival in the equipment, ACS has begun to review and update the monitoring template developed by the TAG in consultation with the focal point network to use existing equipment and supplement, it with the delivery of the equipment by December, 2021. The project team will ensure that each country receives training on the use of the equipment provided and still intends provide a budget to cover the expenses for a local monitoring team to carry out their work for a period of six (6) months.

# **COMPONENT 4: Preparing Beach Rehabilitation Projects and Monitoring Beach Erosion Process**

#### ACTIVITY 4.1 - Beach Rehabilitation Projects in Panama, Antigua Barbuda and Trinidad & Tobago

During this period the ACS has successfully engaged contracted CITMA/GAMMA (a Cuban company responsible for the conducting the extensive coastal studies/work in the region) to commence the executive projects at Viento Frio' Beach in Panama, Runaway Beach, St John's Antigua & Barbuda, and Bonasse Beach, Cedros Trinidad & Tobago.







The contract with GAMMA was signed on January 27, 2021. It had been considered to make the first payment in Canadian Dollars. However, the bank did not allow the transaction to be carried out, which delayed the first payment. ACS explored all instances and after requesting the intervention of the Cuban Ambassador in Trinidad and Tobago, the first payment could be made on May 7. This modified the budget and the second payment is under review, both for the amount and for the currency with which it can be made.

ACS and GAMMA held its first kick off meeting on 11<sup>th</sup> June, 2021, and have since formed a beach rehabilitation project team comprising of ACS, GAMMA and the representatives of the three focal point, with the first meeting of all three stakeholders held in June, 18<sup>th</sup>, 2021. The virtual meeting with the focal point is essential for the desk study and planning phase of the project due to issues with travel restrictions and vaccination requirements due to the COVID -19 Pandemic.

It is estimated for the period Mid-June to Mid-August 2021, regular meeting of the project teams to formulate and provide information on:

- ✓ Assist with existing information, for the characterization of the coastal areas where the beaches to be recovered are located.
- ✓ Assist with the coordination for the entry of GAMMA specialists and teams to each country, as well as ensure the logistics required to carry out the work.
- ✓ Assist in appointment of local representatives who are linked to the realization of the work throughout the process, to guarantee the logistical part and immediately resolve any need that arises.

The following key dates are given for consideration:

Site/Count	ry				Start of Fieldwork(Estimated)			
Viento Frio	Beach C	Colon	/Panama	1	1st September, 2021			
Runaway Beach St John's /Antigua				/Antigua	1st October, 2021			
Barbuda								
Bonasse Bo	each Cec	lros /	Trinidad	& Tobago	1st December, 2021			

GAMMA specialists carried out various steps to start the activities of the executive projects. Six experts arrived in Panama on Friday, August 6<sup>th</sup>, in order to start planning the project directly with the focal point.







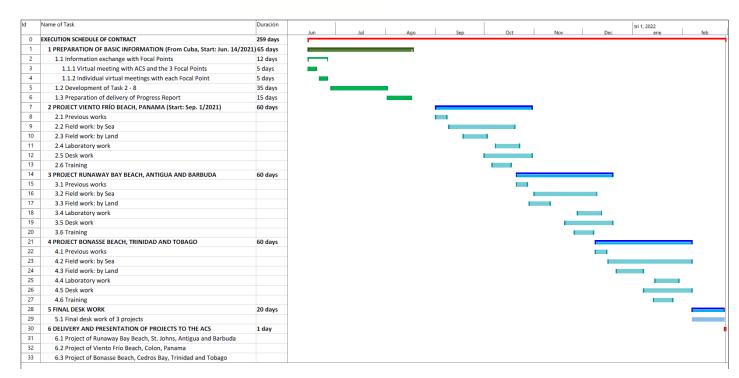


Figure 2: shows the draft project schedule submitted by consultant GAMMA SA for the Beach Rehabilitation Projects

#### ACTIVITY 4.2 - Video Monitoring Tower Jamaica

(This component is managed by the KIOST and the NEPA)

NEPA and the local construction company D.T Brown Construction Limited have completed the construction of the Video Monitoring Tower (VMT) at Hellshire Beach, Jamaica on May 28<sup>th</sup>, 2021 and are currently liaising with KOIST for their assistance and expertise in the installation of the Video Monitoring System (VMS). ACS have held two Progress Meetings with NEPA on the 21 May, 2021 and on the 27<sup>th</sup> June, 2021 respectively to facilitate the reporting on the project deliverables on the project and on the formulating on the Component 2 and 3 of the project , which is the capacity building aspect of the project.

ACS have also received a Project Status Report and have had the opportunity to review and approve the graphics a sign for the tower. The VMS should be operationalised by December, 2021 and capacity building exercises commencing in the year 2022.









Figure 3: shows a picture of the Video Monitoring Tower at Hellshire Beach, Jamaica

# COMPONENT 5: Writing a Beach Rehabilitation Manual with Scientific and Engineering Criteria that respond to the special features of the Caribbean Coastal Regions

#### • ACTIVITY 5.1 – Beach Rehabilitation Manual

The project has begun Component 5 which is the development and publication of a Beach Rehabilitation Manual in collaboration with the CARIB – COAST project. In this phase, initial talks have been had with Mr. Ywenn De La Torre, the coordinator of the CARIB – COAST project, to determine the scope and responsibilities of each party in this partnership. Drs. Juanes (CITMA) and Yeon Chang (KIOST) will be the technical experts on the ACS/KOICA end, to ensure that the manual fulfils the requirements for the Sandy







Shorelines project.

The project has received feedback from Focal Points on the general outline for the manual so there is involved consensus and inclusion all around. It is anticipated that the manuals would be completed and distributed to member countries by the 4<sup>th</sup> quarter of this year.

#### FINANCIAL MATTERS - PROJECT EXTENSION

For the period January 2021 to August 31<sup>st</sup>, 2021, the ACS has used US\$ 414,714.62 from the Sandy Shorelines Budget, the majority of which consist of payment to GAMMA SA, associated with Component 4: The current budget for Beach Executive Projects is sufficient. However, ACS will present a request for an extension of the Project. The Association is realigning the budget before requisition this extension. See Budget Summary Sheet below:







Individual Components as per Budget	Revised Budget as per 2020 Amendment		Costs inc	rred in 2020	Costs incurred in 2021 Total Co		s to date	Balance available at 30th June2021	
	<u>US\$</u>	<u>USS</u>	<u>uss</u>	<u>US\$</u>	<u>uss</u>	<u>US\$</u>	<u>US\$</u>	<u>USS</u>	<u>uss</u>
COMPONENT 1: Focal Point Coordination and Needs Assessment Activity 1.1 - Establishment of Focal Point Network Activity 1.2 - Focal Point and Country Needs Assessment Activity 1.3 - Focal Point Meeting	86,000.00		(6,783.32	)		(52,412.37)		33,587.63	
Activity 1.4 - Technical Advisory Group (TAG)	103,000.00	189,000.00	(22,303.49	<u>)</u> (29,086.81)		(102,262.65)	(154,675.02)	737.35	34,324.98
COMPONENT 2 : Building Institutions and Human Resource Capacitites Activity 2.1 - Participation to ICS 2018 (+ ICCE 2018)	97,000.00		(12,665.94	)		(50,038.62)		46,961.38	
Activity 2.2 - Cuban Laboratory Techniques Training	110,000.00	207,000.00	(17,877.33	<u>)</u> (30,543.27)		(117,057.05)	(167,095.67)	(7,057.05)	39,904.33
COMPONENT 3 : Executing Field Work to Monitor the Erosion Process Activity 3.1 - Procurement of Equipment	450,000.00							450,000.00	
Activity 3.2 - Establishment of Monitoring Network  Activity 3.3 - Supervisory Visits  Activity 3.4 - National Assessment Report and Regional Report	262,000.00 70,000.00 8.000.00		(8,010.00	)		(26,700.00)		235,300.00 70,000.00 8,000.00	
recently 2.1 Personal resources report one regional report	5,000.00	790,000.00		(8,010.00)			(26,700.00)	0,000.00	763,300.00
COMPONENT 4: Preparing Beach Rehalitation Manual  Activity 4.1 - Field work 3 Executive Projects	750,000,00								
Activity 4.2 - Installation of Video Monitoring Systems		750,000.00		- 0.00	(401,880.52)	(401,880.52)	(401,880.52) 0.00	348,119.48	348,119.48
COMPONENT 5: Writing a Beach Rehabilitation Manual with Scientific and Engineering									
Criteria Activity 5.1 - Beach Rehabilitation Manual	210,000.00							210,000.00	
Activity 5.2 - Editing, Layout and Publication of the Beach Rehabilitation Manual	50,000.00							50,000.00	
Activity 5.3 - Training/Lectures to University Students Activity 5.4 - Online Monitoring Platform	40,000.00 70,000.00							40,000.00 70,000.00	
		370,000.00		0.00			0.00		370,000.00
COMPONENT 6: Hosting the 1st Conference on the Preservation of Beaches in the Caribbean Region									
Activity 6.1 - Regional Conference on Beach Preservation Activity 6.2 - Communication	170,000.00							170,000.00	
,		170,000.00		0.00			0.00		170,000.00
Contingency Cost & Commucations Stratergy		224,000.00		(9,672.27)	(34.10)		(34,037.85)		189,962.15
Overhead Cost (10%)		300,000.00		11,575.90	(12,800.00)		(197,237.67)		102,762.33
	_					-		_	
Balance as per Approved ACS Project Costs		3,000,000.00		(65,736.45)	(414,714.62)		(981,626.73)		2,018,373.27

The delay in the acquisition of equipment and the consequent delay in the start of data analysis will imply a rethinking of the times established to conclude the project. Likewise, the restrictions of some countries regarding the management of the pandemic caused by COVID-19 have caused a delay in the beginning of the field work of component 4.1. ACS is currently working on an analysis of the pandemic impact on the development of the activities of this project, clarification from the Focal Points related to this item is needed. KOICA will be informed and updated of any advance or progress related with this activity.

There will be a request of one year extension 2021-2023 in order to conclude all activities.







# STATEMENT OF REASONS FOR EXTENSION OF PROJECT PERIOD: "IMPACT ASSESSMENT OF CLIMATE CHANGE ON THE SANDY SHORELINES OF THE CARIBBEAN: ALTERNATIVES FOR ITS CONTROL AND RESILIENCE"

Reference is made to the Grant Arrangement between the Korea International Cooperation Agency (KOICA), and the Association of Caribbean States (ACS) on "*Impact Assessment of Climate Change on the Sandy Shorelines of the Caribbean: Alternatives for its Control and Resilience"* ("the Sandy Shorelines Project"), signed on April 28<sup>th</sup> 2017 in the Republic of Trinidad and Tobago as follows:

#### **Application for Extension of Project Period**

Particular reference is made to **Paragraph No. 3, "Implementation"**, clause 4, which outlines the process to be adopted for the extension of the Project period; accordingly the Association of Caribbean States seeks consideration and approval for an extension of the Project for a further twelve (12) months commencing in June 2022 and concluding in June 2023, in order to complete the pending activities regarding the Sandy Shorelines Project.

#### **Statement of Reasons:**

#### **Global COVID-19 Pandemic**

1. The COVID-19 Pandemic has significantly impacted the project schedule, particularly with regard to the closure of businesses and borders. While there has been progress with some aspects of the project, many of the activities that were scheduled to take place within the period of March-July 2020 were halted. These activities (primarily from Components 3 and 4) have impacted subsequent activities in the work plan.

A more detailed account of the delays is provided below:

i. Component 3 – Establishment of Monitoring Network - This component includes the procurement and delivery of monitoring







equipment, establishment of national monitoring networks, commencement of monitoring activity as well as assessments each country's performance. *Activity 3.1 – Procurement* is currently under way. However, delivery and installation of the equipment are expected to be delayed and has been significantly impacted by the on-going global pandemic. Global and national limitations on travel, border closures currently make it difficult to determine when the movement of goods will return to normal. This delay in procurement delays the other activities within the component - Activities 3.2-3.4.

- ii. *Activity 3.2-* Establishment of National Erosion Monitoring Networks. ACS revised its approach to initiate the network, even without the delivery and installation of the equipment is dependent upon buy in from the participating member countries performing the ground work for their monitoring activities including information and data anlysis. However for a more practical approach the additional time would allow for project team to receive the training on the use of the equipment provided and will provide additional time for experts to go in and assist local monitoring team to carry out their work for a period of six (6) months. ACS expects travel restrictions and vaccination issues to be sorted in that time.
- iii. Component 4 Beach Rehabilitation Projects Under this component, extensive beach rehabilitation studies will be conducted in three (3) priority sites in three (3) beneficiary countries. These countries will be Antigua &Barbuda, Panama and Trinidad & Tobago. The aforementioned travel limitations and border closures under Component 3 also impact the commencement of this component. ACS, Beach Rehabilitation Consultant GAMMA held a meeting with KIOCA on 31st July ,2021 to discuss contingency plans and their first







team arrived Panama in August. Delays in this component also impact Activities 5.1-5.3 under Component 5 – Beach Rehabilitation Manual.

iv. Component 4 –Activity 4.2 -Video Monitoring Tower Jamaica (This component is managed by the KIOST and the NEPA). The construction of the tower has been completed at the end of May 2021, however due to the restrictions in travel to Jamaica and the schedule of flights the experts from KIOST have been unable to set up the video monitoring system of the tower which will delay the testing or commissioning phase of the project as well as component 2&3 which is the training of the member states of the project. The additional time will grant ACS and NEPA time to ensure the capability of the tower is understood and shared as an important part of the capacity building component.

### **Communication with Beneficiary Countries**

- 2. The nature of the project's work requires feedback from the various governments and ministries of the beneficiary countries, which is a lengthy process in some instances, involving bureaucratic procedures. These have resulted in delayed progress in interactions with the countries. As a result, these delays have also affected project timelines.
- 3. Structural institutional changes among countries participating in this project have also impacted project timelines. Focal Points and technicians designated to the project have changed which impacts the communication process as well as rate of implementation for certain project activities.
- 4. The Project is currently in full progress with clear projected completion by May 2022.







### **Budgetary Extension Considerations**

Overall project expenditure remains effective. The project has submitted proposed reallocations for consideration to KOICA. It is projected that the project will be completed within the approved budget and with full expenditure of the budget.

# **APPENDIX**

APPENDIX I - NEPA - VIDEO MONITORING TOWER STATUS REPORT

APPENDIX II- GAMMA SERVICE COMMENCEMENT REPORT

APPENDIX III- SANDY SHORES BUDGET SUMMARY

APPENDIX IV Revised Work Plan