

GCF Output / Atlas Activity	Activity	Financing Source	Atlas Budget Account Code	Atlas Budget Account Description	Amount Year 1 (USD)	Amount Year 2 (USD)	Amount Year 3 (USD)	Amount Year 4 (USD)	Amount Year 5 (USD)	Amount Year 6 (USD)	TOTAL (USD)	Budget Note	
		UNDP	72100a	Contractual Services - Companies / Nat-Serv	-	50 000	5 000	5 000	5 000	5 000	70 000	C14	
			72100c	Contractual Services - Companies / Nat-G&W	-	16 000	-	8 000	-	-	24 000	C15	
			71600	Travel	-	3 000	3 000	3 000	3 000	3 000	15 000	C16	
			Activity 3.4 UNDP total				2 160	76 270	15 270	18 950	10 950	134 550	
			Total - Activity 3.4				2 160	76 270	15 270	18 950	10 950	134 550	
			71400	Contractual Services - Individual	-	24 500	-	-	-	-	24 500	C17	
			72300	Materials & Goods	-	-	50 000	-	-	-	50 000	C18	
			75700	Training, Workshops and Conference	-	-	2 200	-	-	-	2 200	C19	
			72100a	Contractual Services - Companies / Nat-Serv	-	-	70 000	-	-	-	70 000	C20	
			71600	Travel	-	-	1 550	-	-	-	1 550		
	Activity 3.5 UNDP total				-	24 500	123 750	-	-	-	148 250		
	Total - Activity 3.5				-	24 500	123 750	-	-	-	148 250		
GCF Total - Output 3				177 172	360 792	147 942	137 942	127 842	337 542	1 289 232			
UNDP Total - Output 3				2 160	137 270	139 020	33 950	10 950	25 950	349 300			
Govt. Co-financing Total - Output 3				200 000	209 400	28 400	31 900	28 400	31 900	530 000	CoF3		
Sub total - Output 3				379 332	707 462	315 362	203 792	167 192	395 392	2 168 532			

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GCF Output / Atlas Activity	Activity	Financing Source	Atlas Budget Account Code	Atlas Budget Account Description	Amount Year 1 (USD)	Amount Year 2 (USD)	Amount Year 3 (USD)	Amount Year 4 (USD)	Amount Year 5 (USD)	Amount Year 6 (USD)	TOTAL (USD)	Budget Note
Project Management	4.0	GCF	64300	Services to Projects - CO staff	57 703	57 703	57 703	57 703	28 852	28 852	288 516	PM1
			71400	Contractual Services - Individual	61 832	70 076	70 076	70 076	70 076	70 076	412 212	PM2
			71600	Travel	4 500	5 100	5 100	5 100	5 100	5 100	30 000	PM3
			72300	Materials & Goods	3 600	3 600	3 600	3 600	3 600	-	18 000	PM4
			74100b	Professional Services - Int	5 000	5 000	5 000	5 000	5 000	5 000	30 000	PM5
			75700	Training, Workshops and Conference	6 000	6 000	6 000	6 000	6 000	6 000	36 000	PM6
	UNDP	UNDP	71400	Contractual Services - Individual	18 000	20 400	20 400	20 400	20 400	20 400	120 000	PM7
			72200	Equipment and Furniture	117 000	15 000	15 000	15 000	15 000	15 000	192 000	PM8
			72400	Communic & Audio Visual Equip	7 500	7 500	15 000	-	-	-	30 000	PM9
			72500	Supplies	7 200	7 200	7 200	7 200	1 200	-	30 000	PM10
			73100	Rental & Maintenance- Premises	4 500	4 500	4 500	4 500	4 500	7 500	30 000	PM11
					138 635	147 479	147 479	147 479	118 628	115 028	814 728	
GCF Total - PMC					154 200	54 600	62 100	47 100	41 100	42 900	402 000	
UNDP Total - PMC					-	-	-	-	-	-	-	
Govt. Co-financing Total - PMC					292 835	202 079	209 579	194 579	159 728	157 928	1 216 728	
Sub total - PMC					523 932	2 255 410	4 020 662	3 863 560	5 741 772	850 419	17 255 755	
Grand Total - GCF					392 950	515 740	276 990	142 840	113 840	135 390	1 577 750	
UNDP Total												

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GCF Output / Atlas Activity	Activity	Financing Source	Atlas Budget Account Code	Atlas Budget Account Description	Amount Year 1 (USD)	Amount Year 2 (USD)	Amount Year 3 (USD)	Amount Year 4 (USD)	Amount Year 5 (USD)	Amount Year 6 (USD)	TOTAL (USD)	Budget Note
Co-financing Total					964 900	1 608 240	1 157 550	1 161 050	1 797 360	116 300	6 805 400	
GRAND TOTAL					1 881 782	4 379 390	5 455 202	5 167 450	7 652 972	1 102 109	25 638 905	

Budget Notes

Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
OUTPUT 1									
A1	61100	Salary costs - NP staff	Services provided by existing UNDP staff in the form of technical inputs for the implementation of the project as outlined in the LoA signed with the Govt. of Liberia. Costs spread equally across Outputs 1, Output 3 and Output 3. Personnel expected to provide technical support over the 6 year project duration include - Team Leader (10% of time for a total of \$57,668) - Programme specialist (30% of time for a total of \$173,002) - M&E specialist (15% of time for a total of \$86,501) - Safeguards specialist (15% of time for a total of \$86,501)	403 672	1	Items	33,0%	133 212	133 212
A2	71400	Contractual Services - Individual	Contract Coastal Engineer as part of PMU staff and provide quality control and oversight on the development of the detailed and socially sensitive design and construction plan. Total contract for 6 years at USD 30,000 per year spread across Output, 20% for Activity 1.1 and 80% for Activity 1.2).	180 000	1	Persons	20,0%	36 000	199 800
			Project coordinator to guide the overall implementation of the project activities and manage implementation over the 6 year project duration. Costed across Output 1 @ 30%, Output 2 @ 25%, Output 3 @ 25% and PMC at 20% for project management for 6 years	216 000	1	Persons	30,0%	64 800	
			Gender Officer for the project to support consultations, community meetings and project activities. Total contract for a duration of 5 years at USD 24,000 per year spread across Output 1 @ 20%, Output 2 @ 50% and Output 3 @ 30%	120 000	1	Persons	20,0%	24 000	
			Safeguards Officer for the project to support consultations, community meetings and project activities. Total contract for a duration of 5 years at USD 30,000 per year spread across Output 1 @ 50%, Output 2 @ 20% and Output 3 @ 30%	150 000	1	Persons	50,0%	75 000	

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
A3	71200	International Consultants	UNDP Co-finance for contracting international service provider (\$700) to validate design specifications, develop detailed terms of reference and procurement packages for developing the final detailed design and construction plans for the coastal defense at west point.	700	10	Days		7 000	7 000
A4	71300	Local Consultants	UNDP Co-finance for contracting local service provider (\$350) to develop detailed terms of reference and procurement packages for developing the final detailed design and construction plans for the coastal defense at west point.	350	10	Days		3 500	3 500
A5	71400	Contractual Services - Individual	UNDP Co-finance for contracting Gender specialist (part-time) to support consultations, community meetings and other activities for the first 3 years of the project. Total cost at USD 36,000 spread across Output 1 @ 20%, Output @ 50% and Output 3 @ 30%	36 000	1	Persons	20,0%	7 200	7 200
A6	75700	Training, Workshops and Conference	UNDP Co-finance for contracting service provider for organization of a validation workshop in year 2 for 100 participant stakeholders; Costs include i) Venue costs (\$1000); ii) Catering costs: \$30 per person (\$3000)	4 000	1	Workshops		4 000	4 000
A7	71600	Travel	UNDP Co-finance for transportation costs for participant stakeholders of the validation workshop in year 2: \$10 per person (\$1000)	10	100	trips		1 000	6 000
			UNDP Co-finance for travel and logistics for Coastal engineer/CTA and technical experts personnel for site inspection and surveys supervision visits for development of final detailed design and construction plan by engineering firm	250	20	trips		5 000	
A8	72100a	Contractual Services - Companies / Nat-Serv	UNDP Co-finance for contracting National Firm to conduct ESIA for the coastal defense structure at west point	50 000	1	Contract(s)		50 000	345 000
			UNDP Co-finance for contractual services of an Engineering firm to develop the final detailed design and construction plan, including: i) site inspection and surveys; ii) a project-level hydro-engineering study of West Point; iii) draft designs incorporating sufficient drainage capacity; iv) participation in consultation and validation workshops; and v) final working drawing and construction specifications.	295 000	1	Contract(s)		295 000	
Total Activity 1.1									705 712

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
A9	71400	Contractual Services - Individual	Contract Coastal Engineer as part of PMU staff and provide quality control and oversight on the development of the detailed and socially sensitive design and construction plan. Total contract for 6 years at USD 30,000 per year spread across Output, 20% for Activity 1.1 and 80% for Activity 1.2).	180 000	1	Persons	80,0%	144 000	359 234
			Project level Chief Technical Advisor (NOB/NOC equivalent) to i) supervise the construction of the revetment; ii) develop the vulnerability map; iii) develop the ICZMP; iv) establish and operationalize the education and innovation centers; and v) provide technical inputs for the overall implementation of project activities. Total contract at \$436,170 for 6 years spread across Output 1 @ 20%, Output 2 at 60% and Output 3 at 20%	436 170	1	Persons	20,0%	87 234	
			Contract with an Independent International engineering expert for appraisal of revetment construction works to ensure that progress is in line with design specifications and quality standards. The international engineer will be hired part time between year 2-5 of the project with 70 days utilized in year 2 and 30 days per year in years 3,4 & 5	128 000	1	Persons		128 000	

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
A10	72100d	Contractual Services - Companies / Int-G&W	<p>Execution of construction and civil works according to the final design and construction plan. Single contract with a construction company with broad cost breakdown as below based on the feasibility study (with further information provided in the Bill of Quantities). See "Activity 1.2 Costing" worksheet for further detail</p> <p>Costs of sorting, transport and installation of materials @ US\$40 per ton</p> <p>Quarry run (86,000 tons): \$3,440,000.00</p> <p>Armour 2-5 t (74,000 tons): \$2,960,000.00</p> <p>Underlayer 60-300 kg (38,000 tons): \$1,520,000.00</p> <p>Armour 300-1000kg (5,800 tons): \$232,000.00</p> <p>Sub-total: US\$8,152,000.00</p> <p>Other items for construction</p> <p>Excavation: \$503,840.00</p> <p>Geotextile: \$460,875.00</p> <p>Promenade pavement: \$276,000.00</p> <p>Drainage: \$103,500.00</p> <p>Sand (nourished): \$57,300.00</p> <p>Backfill: \$27,500.00</p> <p>Landscaping: \$23,000.00</p> <p>Sub-total: US\$1,452,015.00</p> <p>Additional costs (inc. labour, equipment, supervision and contingency costs)</p> <p>Mob/DeMob: \$1,040,206.00</p> <p>Gender-responsive initiative: \$25,000.00</p> <p>Contingency: \$1,581,677.00</p> <p>Supervision: \$ 554,777.00</p> <p>Sub-total: \$3,201,660.00</p> <p>Total: \$12,805,675.00</p>	12 805 675	1	Contract(s)		12 805 675	12 805 675
A11	71600	Travel	Transportation costs for supervision visits by coastal engineer, CTA, monitoring and technical experts for supervisions of construction works over the 4 year execution period beginning year 2	1 250	4	Years		5 000	5 000
A12	72100b	Contractual Services - Companies / Int-Serv	UNDP Co-finance for contracting international service provider to develop ToRs and procurement package based on the final design and construction plan in collaboration with the relevant government agencies including the Ministry of Gender, Children and Social Protection.	700	10	Days		7 000	7 000

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
Total Activity 1.2									
CoF1			Activity 1.2: Materials supplied by the Government of Liberia as in-kind co-finance for the construction of coastal defence infrastructure. Supply of materials for construction of revetment according to the final design and construction plan. Broad cost breakdown is as follows, based on the BoQ: Quarry run: 86,000 tons @ US\$ 15.00 per ton = US\$ 1,290,000.00 Armour 2-5 t: 74,000 tons @ US\$23.00 per ton = US\$1,702,000.00 Underlayer 60-300 kg: 38,000 tons @ US\$30.00 per ton = US\$1,140,000.00 Armour 300-1000 kg: 5,800 tons @ US\$23.00 per ton = US\$133,400.00 Total = US\$4,265,400.00					4 265 400	13 176 909
GCF total Output 1									
UNDP total Output 1									
Govt. Co-financing Total Output 1									
Output 1 Total									
OUTPUT 2									
B1	61100	Salary costs - NP staff	Services provided by existing UNDP staff in the form of technical inputs for the implementation of the project as outlined in the LoA signed with the Govt. of Liberia. Costs spread equally across Outputs 1, Output 3 and Output 3. Personnel expected to provide technical support over the 6 year project duration include - Team Leader (10% of time for a total of \$57,668) - Programme specialist (30% of time for a total of \$173,002) - M&E specialist (15% of time for a total of \$86,501) - Safeguards specialist (15% of time for a total of \$86,501)	403 672	1	Contract(s)	33,0%	133 212	133 212

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
B2	71200	International Consultants	Procurement of services of an international ICZMP for implementing Phase 1 - development of ICZMP (190 days); and Phase 2 - Update the ICZMP three years after the original development (in accordance with Liberian law) (100 days). The same expert or different expert may be used for Phase 2. PHASE 1 tasks includes: i) Survey and assessment of the current intuitional structures and policy environment of coastal management in Liberia; ii) Development of a high resolution multi-criteria vulnerability map of the Liberian coastline. iii) Provide support to the trainer-of-trainers contracted under Activity 2.2.2. The service provider should be appropriately qualified (including national and international experts) with relevant experience in all aspects of ICZMP development. PHASE 2: update the ICZMP by i) taking into account lessons learned during the first three years; ii) undertaking extensive stakeholder consultations with government agencies, municipalities, community leaders, civil society and the private sector; iii) Provide support to the trainer-of-trainers contracted under Activity 2.2.2.	740	290	Days		214 600	214 600
B3	71300	Local Consultants	Procurement of 2 National consultants i) A national coastal management specialist; and ii) a National gender and social impact. The two national consultants providers will be contracted to work with the international expert to develop the ICZMP supporting data collection, coordination with relevant ministries and development of the ICZMP. General guidance on the profile of the service provider are: i) a minimum of 15 years' demonstrable experience in the design and implementation of ICZM programmes; ii) demonstrable experience working in LDCs in general and West Africa in particular; and iii) experience in institutional assessment and governance strategies for government-led ICZM approaches.	284	580	Days		164 500	164 500
B4	71600	Travel	Transportation and logistics costs include for multiple visits for survey and site supervision by technical project staff in phase 1 and phase 2 of the ICZM development and update.	100	100	trips		10 000	10 000
B5	71400	Contractual Services - Individual	Project coordinator to guide the overall implementation of the project activities and manage implementation over the 6 year project duration. Costed across Output 1 @ 30%, Output 2 @ 25%, Output 3 @ 25% and PMC at 20% for project management for 6 years	216 000	1	Persons	25,0%	54 000	345 702

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
			Project level Chief Technical Advisor (NOB/NOC equivalent) to i) supervise the construction of the revetment; ii) develop the vulnerability map; iii) develop the ICZMP; iv) establish and operationalize the education and innovation centers; and v) provide technical inputs for the overall implementation of project activities. Total contract at \$436,170 for 6 years spread across Output 1 @ 20%, Output 2 at 60% and Output 3 at 20%	436 170	1	Persons	60,0%	261 702	
			Safeguards Officer for the project to support consultations, community meetings and project activities. Total contract for a duration of 5 years at USD 30,000 per year spread across Output 1 @50%, Output 2 @20% and Output 3 @30%	150 000	1	Persons	20,0%	30 000	
B6	73400	Rental & Maint of Other Equip	Vehicles rental contract for development of ICZM. Costs budgeted for 160 days and 275per day for one vehicle.	275	160	Days		44 000	44 000
B7	75700	Training, Workshops and Conference	UNDP Co-finance for contracting service provider for organization of 2 Validation Workshop for 50 participants i) In Year 2 to present the updated ICZMP to relevant MACs after it has been developed in Year 2 of the Project. ii) In Year 6 after the ICZMP has been updated. During the validation workshop members for the ICZM committee and the CSWGS will be elected. The committee and CSWG shall include 30% women representatives from the 10 government ministries involved with coastal zone management, the ICZMU and MoGCSP. Cost include: i) Venue (\$500); ii) Catering cost \$20 per person (\$1250); iii) Printing/Audio-visual equipment (\$500)	2 250	2	Workshops		4 500	4 500
B8	71600	Travel	UNDP Co-finance for transportation of participants of the 2 Validation Workshop (50 participants) i) In Year 2 to present the updated ICZMP to relevant MACs after it has been developed in Year 2 of the Project. ii) In Year 6 after the ICZMP has been updated. During the validation workshop members for the ICZM committee and the CSWGS will be elected: \$10 per person (\$500)	10	100	trips		1 000	1 000
Total Activity 2.1									917 513

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
B9	71200	International Consultants	Contract 1 expert trainer-of-trainers to work in collaboration with the international and national service providers engaged under Activity 2.1. to develop training material defined in Activity 2.2.3. and conduct the training under Activity 2.2.4. Expert shall be engaged for 175 days. During the first 75 days of the contract the service provider will engage with the CSWGs and national ICZM experts to define and develop the training curricula. The additional 100 days of the contract will be used to conduct the long-term training of technical staff (Activity 2.2.3) from relevant ministries and the ICZMU on the effective implementation of ICZM.	665	175	Items		116 360	116 360
B10	75700	Training, Workshops and Conference	Contract service provider for organizing of a three-day co-creation workshop will be held with all members of the CSWG and ICZM Committee to present the framework of the training program and work collaboratively to: i) define the various roles and responsibilities for each of the 10 institutions engaged in coastal management; and ii) finalise the curricula to be included in the training program. This CSWGs will include representative from the 10 ministries involved in coastal management as well as from MoGCSP; Costs include i) Venue: \$500 per day (\$1,500); ii) Catering: \$30 per person per day (\$2,250); and iii) Printing, audio-visual equipment per day (\$1,500)	5 250	1	Workshops		5 250	5 250
B11	71600	Travel	Travel costs for expert ToT to work in collaboration with the international and national service providers engaged under Activity 2.1. to develop training material defined in Activity 2.2.3. and conduct the training under Activity 2.2.4.	750	8	trips		6 000	6 750
			Costs for transportation of participants of the three-day co-creation workshop will be held with all members of the CSWG and ICZM Committee During the validation workshop members for the ICZM committee and the CSWGS will be elected: \$10 per person (\$750)	10	75	trips		750	
B12	71300	Local Consultants	UNDP Co-finance for contracting service provider engaged to develop ToRs for the expert in training-of-trainers. The ToRs will be developed with input from relevant government ministries, the international and national service providers developing the ICZMP as well as UNDP	250	20	Days		5 000	5 000
B13	75700	Training, Workshops and Conference	UNDP Co-finance for contracting service provider for organizing of 2 stakeholder validation workshops for 25 participants to present the finalized ICZMP to the members of the CSWG on 2 occasions i.e Year 2 and Year 6. This CSWGs will include representative from the 10 ministries involved in coastal management as well as from MoGCSP;	1 750	2	Workshops		3 500	3 500

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
			Costs include i) Venue: \$500; ii) Catering: \$30 per person (\$750); and iii) Printing, audio-visual equipment (\$500)						
			UNDP Co-finance for contracting service provider for organizing a two-day planning workshop in year 3 for the CSWG to develop an action plan for implementing the ICZMP, including plans for changes/updates required for sector-specific regulation and by-laws. This CSWG will include representative from the 10 ministries involved in coastal management as well as from MoGCSP; Costs include i) Venue: \$500 per day (\$1,000); ii) Catering: \$30 per person per day (\$1,500); and iii) Printing, audio-visual equipment per day (\$1,000)	3 500	1	Workshops		3 500	3 500
B14	71600	Travel	UNDP Co-finance for transportation for participants for 2 stakeholder validation workshops for 25 participants to present the finalized ICZMP. Travel: \$10 per person (\$250)	10	50	trips		500	1 000
			UNDP Co-finance for transportation for participants of the two-day planning workshop in year 3 for the CSWG to develop an action plan for implementing the ICZMP, including plans for changes/updates required for sector-specific regulation and by-laws. Travel: \$10 per person per day (\$500);	10	50	trips		500	
Total Activity 2.2									140 360
B15	71300	Local Consultants	Contract international service provider to develop the ToRs for the ICT firm. The international service provider will engage with the ICZMU and CSWGs to determine the requirements for the integrated solution.	250	20	Days		5 000	5 000

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
B16	72100a	Contractual Services - Companies / Nat-Serv	Contract with an ICT firm to provide an integrated, near-shore wave buoy-based data collection and processing system to support the collection of meteorological and oceanographic data for improved generation of information on parameters relevant to ICZM and meteorological decision-making in Liberia. The integrated solution will include: i) Supply 4 Wave buoys at \$ 65,000 per buoy (\$260,000). ii) Supply of associated ICT equipment (Total \$15,500 for 4 High-specification desktop computers at \$2000 each (\$8,000)/1 Server to manage the database system at \$3,500/2 Backups at \$1,000 each (\$2,000)/Upgrading of internet connection bandwidth for the ICZMU office at \$2,000 iii) Installation of 4 Wave buoys and associated ICT equipment (\$33,000) iv) Development of database and training courses on installation, use and maintenance of the system, and support in integrating the system into the existing early warning system and weather forecasting system established under GEF-funded project. (\$40,000) v) Provide off-site technical support on an annual basis for 3 year to ensure that the system is fully operational and that technical staff at relevant government institution including at (EPA, NDMA, LMS and ICZMU Technical staff) (Total \$15,000 at \$5,000 per year)	363 500	1	Contract(s)		363 500	363 500
B17	72100b	Contractual Services - Companies / Int-Serv	Procurement of high-resolution remote sensing data for the MMA to monitor coastal erosion and mangrove ecosystem health and degradation in the MMA to be made publicly accessible and used for the vulnerability map under Sub-activity 2.1.1. The data will be hosted by the ICZMU and made publicly accessible through the EKMS under Activity 2.4 The initial data procured will be a historical dataset covering the Mesurado Wetland and coastal area of Monrovia and will be procured in Q2 of Year 1, for use in the vulnerability mapping under Activity 2.1.1. Thereafter, updated datasets should be procured annually in Q2, to inform annual monitoring and analysis unde Sub-activity 3.3.1. SPOT6 Satellite imagery, five historical images every two years for the last 10 years @ \$500 + \$ 350 post processing (\$850\$ X 5 = \$4,250) in year 2. Pleaides new tasking images for years 2, 4 and 6: \$3,500 per image incl. post processing (\$3,500 X 3 = \$10,500).	14 750	1	Contract(s)		14 750	14 750

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
Total Activity 2.3									
B18	71400	Contractual Services - Individual	Contract one National service provider to design the knowledge products on ICZM based on engagements with the CSWG and ICZMU and the reports produced under Activity 2.4.2.: 35 days in the second year and 20 days per year for the additional four years. The knowledge products will be gender sensitive in their design and depict different social groups for the mainstreaming of ICZM into government policies and practices.	350	115	Items		40 250	383 250
B19	71400	Contractual Services - Individual	UNDP Co-finance for procurement of services of a National service provider contracted to i) collect lessons learned and best practice on ICZM from Liberia to contribute to the EKMS (15 days per year for 5 years); ii) update and maintain the EKMS with information generated through the project (10 days per year for 5 years); and iii) prepare annual report on ICZM lessons learned and submit the report to the EKMS (10 days per year for 5 years)	350	175	Days		61 250	61 250
B20	72800	Information Technology Equipmt	UNDP Co-finance for procurement of ICT Equipment to support improved capacity of the EKMS. Cost include i) 2 laptops per ministry at \$1,500 per laptop for 10 ministries (\$30,000) ii) Improved bandwidth connection for EPA office hosting the EKMS (\$5,000) iii) Increased storage capacity: At \$1500 per ministry for 10 ministries (\$15,000)	50 000	1	Contract(s)		50 000	50 000
B21	74200	Audio Visual & Print Prod Costs	UNDP Co-finance for costs towards printing of Knowledge products i) Posters: 500 posters per year at \$4 per poster for 5 years (\$10,000) ii) Brochures: 1,000 brochures per year at \$5 per brochure for 5 years (\$25,000)	7 000	5	Years		35 000	35 000
Total Activity 2.4									
B22	71400	Contractual Services - Individual	Gender Officer for the project to support consultations, community meetings and project activities. Total contract for a duration of 5 years at USD 24,000 per year spread across Output 1 @ 20%, Output 2 @ 50% and Output 3 @ 30%	120 000	1	Persons	50,0%	60 000	60 000
B23	72100a	Contractual Services - Companies / Nat-Serv	Contract Media Firm (with expertise in communications, gender and climate change) to design campaign and the awareness raising material and update material annually (50 days in the first year and an additional 15 days per year for the remaining 5 years)	125 000	1	Persons		125 000	125 000

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
B24	71400	Contractual Services - Individual	UNDP Co-finance for contracting Gender specialist (part-time) to support consultations, community meetings and other activities for the first 3 years of the project. Total cost at USD 36,000 spread across Output 1 @ 20%, Output @ 50% and Output 3 @ 30%	36 000	1	Persons	50,0%	18 000	78 000
	71400	Contractual Services - Individual	UNDP Co-finance for procurement of services of 2 Facilitators for conducting training workshops to facilitate the dissemination of knowledge products. The facilitators will conduct 5-day workshops for 10 participants in the 4 areas each year for 5 years. Each of the two consultants will be hired at \$300 per day for 20 days per year over 5 years	300	200	Days		60 000	
B25	73400	Rental & Maint of Other Equip	UNDP Co-finance for contracting for 12 billboards erected \$5500 per billboard erected for 12 billboards (\$60,000) (This will include 3 billboards within each of the 4 areas being supported under the project and includes the printing cost of the billboard and minor maintenance for 5 years from year 2)	5 500	12	Items		66 000	66 000
B26	74200	Audio Visual & Print Prod Costs	UNDP Co-finance for contracting for developing and distribution of communication and awareness raising materials. Each of the 4 areas will receive the same quantity of awareness-raising materials every year for 6 years. In the first year materials will be distributed throughout the communities by the community awareness groups established under Output 3. Between year 2 and 6 the materials will be distributed during the community awareness raising meetings hosted under activity 2.5.5. Cost include i) \$4 per poster for 400 posters per year for 6 years (\$9,600) (100 posters per area per year) ii) \$5 per brochure for 400 brochures per year for 6 years (\$12,000) (100 brochures per area per year) iii) \$3 per sticker for 800 stickers per year for 6 years (\$14,400) (200 stickers per area per year) iv) \$10 per caps for 400 caps per year for 6 years (\$24,000) (500 caps per area per year) v) \$20 per t-shirt for 400 t-shirts per year for 6 years (\$48,000) (500 t-shirt per area per year)	108 000	1	Contract(s)		108 000	108 000
B27	75700	Training, Workshops and Conference	UNDP Co-finance for event management services for organization of training workshops to facilitate the dissemination of knowledge products developed under Activity 2.5.5. 5 day workshop per community per year hosted at education and innovation centers. Catering: \$20 per day for 10 people for 5 days from each of the 4 areas per year for 5 years (20,000)	1 000	20	Workshops		20 000	20 000

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
B28	71600	Travel	Transportation: \$10 per day for 10 people for 5 days from each of 4 areas per year for 5 years (\$10,000)	10	1000	trips		10 000	10 000
Total Activity 2.5									
CoF2			Activity 2.1: Contractual services of a consulting firm for developing ToRs for developing a high-resolution multi-criteria vulnerability assessment of the Liberian coastline to inform development of the ICZMP. For these ToRs, one international service provider and one national service provider will be contracted and will work in coordination with the PMU, UNDP, EPA and the MME, NMIDA, MSD and the MoGCSP.					8 500	2 010 000
			Activity 2.1: Contractual services with a firm to undertake an assessment of the current institutional structures and policy environment of coastal management in Liberia and develop a high resolution multi-criteria vulnerability map of the Liberian coastline. The vulnerability map will consider biophysical vulnerabilities and climate change impacts, as well as map social and gender-specific vulnerabilities to inform the development of the ICZMP. Cost Breakdown is as follows:					1 500 000	
			Institutional assessment: \$236,500.00						
			Biophysical vulnerability mapping: \$296,500.00						
			Socioeconomic vulnerability mapping: \$256,000.00						
			Validation & ground-truthing: \$283,600.00						
			ICZMP integration: \$298,700.00						
			Upscaling & knowledge sharing: \$128,700.00						
			Activity 2.2: Costs for conducting 2 co-design workshops for 39 members of the CSWGS and the ICZMU (1 in YR2 and 1 in YR5) to introduce the ICZMP and collaboratively define curricula to be included under the long-term training on ICZM					43 200	
			Activity 2.2: Costs for conducting a long-term (16 weeks) training course to capacitate 36 technical staff from relevant government institutions (3 members from each of the 10 relevant institutions and 6 members of the ICZMU) for mainstreaming the effective implementation of ICZM through a trainer-of-trainers approach. At least 30% of these staff will be women and preference will be given to women candidates.					137 900	
			Activity 2.5: Host quarterly radio programmes on climate change impacts, vulnerability and adaptation practices in coastal areas. The radio shows will be one hour long and include provision for men and women in communities to call-in and pose questions and input, capitalising on local ecological knowledge and innovative and sustainable adaptation strategies.					9 600	
			Activity 2.5: Establish, train and employ community-based knowledge sharing groups in each of the 5 communities targeted under the project for 5 years (beginning in year 2) the knowledge sharing groups will be managed by the CSCs, will consist of 4 members for each of the 4 areas and will be employed for the duration of the project. 50% of the community members employed will be women.					100 800	
			Activity 2.5: Host 3 community meetings per year in each of the 4 areas to raise awareness and share information on social and gender dimensions of climate change as well as sustainable and innovative adaption strategies to support ongoing awareness-raising activities (starting in year 2)					210 000	
GCF total Output 2									1 648 873
UNDP total Output 2									446 750
Govt. Co-financing Total Output 2									2 010 000
Output 2 Total									4 105 623

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
OUTPUT 3									
C1	61100	Salary costs - NP staff	Services provided by existing UNDP staff in the form of technical inputs for the implementation of the project as outlined in the LoA signed with the Govt. of Liberia. Costs spread equally across Outputs 1, Output 3 and Output 3. Personnel expected to provide technical support over the 6 year project duration include - Team Leader (10% of time for a total of \$57,668) - Programme specialist (30% of time for a total of \$173,002) - M&E specialist (15% of time for a total of \$86,501) - Safeguards specialist (15% of time for a total of \$86,501)	403 672	1	Contract(s)	34,0%	137 248	137 248
C2	71400	Contractual Services - Individual	Project coordinator to guide the overall implementation of the project activities and manage implementation over the 6 year project duration. Costed across Output 1 @ 30%, Output 2 @ 25%, Output 3 @ 25% and PMC at 20% for project management for 6 years Project level Chief Technical Advisor (NOB/NOC equivalent) to i) supervise the construction of the revetment; ii) develop the vulnerability map; iii) develop the ICZMP; iv) establish and operationalize the education and innovation centers; and v) provide technical inputs for the overall implementation of project activities. Total contract at \$436,165 for 6 years spread across Output 1 @ 20%, Output 2 at 60% and Output 3 at 20% Safeguards Officer for the project to support consultations, community meetings and project activities. Total contract for a duration of 5 years at USD 30,000 per year spread across Output 1 @ 50%, Output 2 @ 20% and Output 3 @ 30%	216 000	1	Persons	25,0%	54 000	186 234
				436 170	1	Persons	20,0%	87 234	
				150 000	1	Persons	30,0%	45 000	
C3	75700	Training, Workshops and Conference	UNDP Co-finance for contractual services for organization of event to inaugurate the innovation center. During this event community members nominated for the CSCs will be presented and the by-laws governing the education and innovation centers will be presented by local officials and community authorities. Cost include Catering services: Catering for 1,500 people at \$15 per person (\$22,500); Advertising costs for the event through posters (400 posters and \$4 per poster) (\$1,600); Printing for additional knowledge products to be disseminate during the event (1,000 brochures per event @\$5 per brochure) (\$5,000)	29 100	1	Workshops		29 100	34 500

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
			UNDP Co-finance for contractual services for organization of 2-day inception workshop for all members of the 4 CSCs as well as representatives from relevant government ministries, NGOs, development, conservation and community organizations to meet and define a set of guiding principles to ensure alignment across all community-based activities under Output 3. Costs include Venue (hotel or other venue (\$1400); Catering for 100 people at \$20 per person (\$4,000)	5 400	1	Contract(s)		5 400	
C4	71600	Travel	UNDP Co-finance for transportation for participants of 2-day inception workshop for all members of the 4 CSCs as well as representatives from relevant government ministries, NGOs, development, conservation and community organizations. Transport costs for 100 people at \$10 per person (\$2,000)	10	200	trips		2 000	2 000
Total Activity 3.1									359 982
C5	71400	Contractual Services - Individual	Contract two expert facilitators to work with government, civil society, NGOs, conservation organizations and CSCs to develop the co-management agreements for reducing anthropogenic pressure on mangroves. The facilitators will be experts in conducting community stakeholder engagements and will have experience in natural resource based management initiatives and will focus on understanding community and gender specific use of mangroves. They will design a gender-responsive and socially-sensitive management plan.	350	150	Days		52 500	123 500
			Procurement of contractual services of two national consultants design awareness-raising material, campaign and the dissemination strategy. Community-based Natural Resource Management (CBNRM) and the co-management agreements. The service provider contracted to develop the material will work in collaboration with the national service providers contracted under Activity 3.2.1 and ensure that the knowledge products are developed to be gender-sensitive in their design and depict the uses of mangroves by different social groups and sectors. Contract at USD 350 per day for 10 days per year for 5 years	350	100	Days		35 000	
			Gender Officer for the project to support consultations, community meetings and project activities. Total contract for a duration of 5 years at USD 24,000 per year spread across Output 1 @ 20%, Output 2 @ 50% and Output 3 @ 30%	120 000	1	Persons	30,0%	36 000	

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
C6	74200	Audio Visual & Print Prod Costs	Contractual services for production of awareness raising materials. Costs include i) \$4 per poster for 100 posters per year for 5 years (\$2,000) (25 posters per area per year). ii) \$5 per brochure for 400 brochures per year for 5 years (\$10,000) (100 brochures per area per year) iii) 20 signboards erected (1 at each community center and 16 at various entry points to mangrove areas) \$1500 per signboard (additional \$1000 maintenance per year is included for all signboards) (\$35,000)	47 000	1	Contract(s)		47 000	47 000
C7	75700	Training, Workshops and Conference	Contractual services for organization of a 3-day co-creation and validation workshop for relevant government ministries, NGOs, conservation organizations and CSC members to engage on the draft co-management agreements developed under Activity 3.2.1. These workshops will be facilitated by the service providers contracted under Activity 3.2.1. Costs include Venue hire: \$700*3 (\$2100); Catering: \$25 for 50 people (\$3,750)	5 850	1	Contract(s)		5 850	9 750
			Contractual services for organization of a 2-day workshop to assess the effectiveness of the co-management agreements and re-negotiate them in year 5 based on findings from Activity 3.3. Costs include Venue hire: \$700*2 (\$1,400); Catering: \$25 for 50 people (\$2,500)	1 950	2	Workshops		3 900	
C8	71600	Travel	Costs for travel for two expert facilitators contracted to work with government, civil society, NGOs, conservation organizations and CSCs to develop the co-management agreements for reducing anthropogenic pressure on mangroves	1 500	2	trips		3 000	5 500
			Costs for transportation for participants of the 3-day co-creation and validation workshop for relevant government ministries, NGOs, conservation organizations and CSC members to engage on the draft co-management agreements developed under Activity 3.2.1. Transport \$10 per person for 50 participants (\$1500)	10	150	trips		1 500	
			2-day workshop to assess the effectiveness of the co-management agreements and re-negotiate them in year 5 based on findings from Activity 3.3. Costs for transportation for participants of the Transport \$10 per person for 50 participants (\$1000)	10	100	trips		1 000	
Total Activity 3.2									185 750

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
C9	72100b	Contractual Services - Companies / Int-Serv	Provision of contractual services for conducting of Impact Assessment (IA) for the project i.e. across Output 1, Output 2 and Output 3. Costs include the following i) Consultation and Planning, training and presentation of results workshops (3); ii) Design of the IA methodology and process; iii) Conducting two surveys i.e Baseline and End line surveys in 6 project districts; iv) Logistics and overhead costs	500 000	1	Firm		500 000	700 000
			Procurement of contractual services of a firm to conduct analyses of mangrove extent and degradation in the Mesurado Wetland to assess the impact of project interventions Using high-resolution remote sensing data procured under Sub-activity 2.3.1	100 000	1	Firm		100 000	
			Procurement of contractual services of a firm to conduct monitoring implementation of the environmental and social safeguards, spread across the project period. This includes implementing the grievance redressal mechanism, monitoring of any environmental impacts in relation to the whole project.	100 000	1	Firm		100 000	
C10	71200	International Consultants	Procurement of international consultant for conducting independent interim and terminal evaluation of the project. Costs include i) Interim evaluation at USD 35,000; and ii) Terminal evaluation at USD 45,000	40 000	2	Studies		80 000	80 000
C11	71300	Local Consultants	UNDP Co-finance for procurement of National consultant for conducting independent interim and terminal evaluation of the project. Costs include i) Interim evaluation at USD 15,000; and ii) Terminal evaluation at USD 15,000	15 000	2	Studies		30 000	30 000
Total Activity 3.3									810 000
C12	71400	Contractual Services - Individual	UNDP Co-finance for contracting Gender specialist (part-time) to support consultations, community meetings and other activities for the first 3 years of the project. Total cost at USD 36,000 spread across Output 1 @ 20%, Output @ 50% and Output 3 @ 30%	36 000	1	Persons	30,0%	10 800	10 800
C13	75700	Training, Workshops and Conference	UNDP Co-finance for contractual services for organization of annual workshop at the innovation center to act as information sessions and networking events for women's groups , value-chain actors, informal finance institutions and agencies. These events will promote business skills development, provide information on marketing strategies and facilitate access to finance for investments into — and upscaling of — the value-added products being developed at the education and innovation centers, such as the energy efficient eco-stoves). Costs include: Catering:\$15 for 150 people for 5 years (\$11,250); Facilitators to host workshops: two	2 950	5	Workshops		14 750	14 750

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
			facilitators to host each meeting: \$350 per facilitator per meeting (\$3,500)						
C14	72100a	Contractual Services - Companies / Nat-Serv	UNDP Co-finance for contracting a national firm or service provider to construct an improved fish smoking kiln system at the education and innovation centre, to provide equipment (such as moulds) and initial material inputs for the construction of energy efficient cookstoves, as well as to develop and deliver training on the construction of energy efficient stoves, use of smoking kilns and benefits of these technologies through a training-of-trainers approach. The firm will conduct trainings at the education and innovation centers and will provide additional training material and the technical specifications of the cookstoves, smoking kiln and associated structures (Activity 3.4.2) to support upscaling of this activity. The initial cost of the training will be \$10,000 with annual follow up trainings at \$5,000 per year, with a \$38,000 contract for developing the training materials and \$2,000 for constructing the fish smoking kiln.	70 000	1	Contract(s)		70 000	70 000
C15	72100c	Contractual Services - Companies / Nat-G&W	UNDP Co-finance for contractual services for establishing a simple workshop and procure supply of i) building material for the structures (\$8,000); and ii) Moulds and input materials (\$8,000 in YR 2 with an additional \$8,000 in YR 4)	24 000	1	Contract(s)		24 000	24 000
C16	71600	Travel	UNDP Co-finance for transportation for participants of the annual workshop at the innovation center to act as information sessions and networking events for women's groups, value-chain actors, informal finance institutions and agencies. Transport \$10 per person for 150 people for 5 year (\$7500); Logistics: \$1,500 per workshop (\$7,500);	3 000	5	Years		15 000	15 000
Total Activity 3.4									134 550
C17	71400	Contractual Services - Individual	UNDP Co-finance for contracting service provider to conduct needs assessment to provide information on community requirements for the cold storage facilities. This service provider will conduct stakeholder consultations in the four communities targeted under the project. Additionally, the service provider will contribute to the development of the ToRs for the firm to be contracted under activity 3.4.2	350	70	Items		24 500	24 500
			The same service provide will be contracted to conduct annual assessments (10 days per year) to assess the differentiated use and impact of the cold stores by fishmongers in the four areas						

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
C18	72300	Materials & Goods	UNDP Co-finance for procurement of materials required for the construction of two cold storage facilities. Specifications for the materials will be provided by the contracted firm with a total budget of \$25,000 per cold storage facility	25 000	2	facilities		50 000	50 000
C19	75700	Training, Workshops and Conference	UNDP Co-finance for contractual services for organization of a validation workshops at the Education and innovation center for 100 participants to present the final design to community representatives and members of the CSCs. Costs include Catering: \$15 per person for 100 people (\$1500); and facilitators to host workshops: two facilitators to host each meeting: \$350 per facilitator per meeting (\$700)	2 200	1	Workshops		2 200	2 200
C20	72100a	Contractual Services - Companies / Nat-Serv	UNDP Co-finance for contracting firm to design and construct the eco-friendly solar-operated cold storage facilities. The design will be based on the needs assessment conducted under Activity 3.4.1 and includes travel costs, DSA and the representation at the validation workshop. These will be installed near fish processing areas in each of the four areas being targeted under Output 3. The cold storage will upcycled shipping containers and will be designed to be low maintenance. In addition to designing and developing the facilities, the contracted firm will be responsible for providing technical specification designs and training to the relevant government entity to support future maintenance under the supervision of UNDP.	70 000	1	Contract(s)		70 000	70 000
C21	71600	Travel	The firm will be required to provide training to the members of the CSCs and representatives of fishmongers in the 4 areas to operate and manage the solar powered cold facilities UNDP Co-finance for transportation for participants of the validation workshops at the Education and innovation center for 100 participants to present the final design to community representatives and members of the CSCs. Transport: \$10 per person for 100 people (\$1,000); Logistics: \$550	16	100	trips		1 550	1 550
Total Activity 3.5									148 250
CoF3			Activity 3.1: Locate and renovate a community compound or building with an on-site open area in West Point to act as an education and innovation centre to upskill communities on climate-resilient livelihoods and good adaptation practices. Identify and upgrade a existing community-owned compound or building to be established as an education and innovation centre. The centre will include amenities such as an outdoor cooking area, on-site sanitation, water access (such as a hand pump) and a generator as well as community meeting and training facilities. Renovation will be undertaken by the Ministry of Public Works under the supervision of UNDP.					200 000	530 000

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
			Activity 3.1: Procure material with on-site construction or renovations being conducted on a case-by-case basis by the Ministry of Public Works under the supervision of UNDP.					100 000	
			Activity 3.1: Establish and commission the 10-person Community Stewardship Council (CSC) for each of the 4 areas. The education and innovation centres will act as the headquarters for these CSCs and the CSC will provide high-level oversight for all community-based activities under Output 3. This body will be elected by the community and will include at least 50% women representatives. Costs include monthly stipend for the CSC members for 5 years					30 000	
			Activity 3.3: Contract service provider to conduct community-level assessments in each of the four areas targeted under the project to develop indicators that determine baseline community perceptions and awareness on climate change, adaptative strategies, as well as the role and importance of mangrove ecosystems.					120 000	
			Activity 3.3: Contract service provider with expertise in the development of alternative, climate-resilient livelihoods to assess the baseline of existing livelihood strategies in the four target communities. The service provider should detail a menu of potential alternative livelihood strategies and/or strategies to increase the climate resilience of existing livelihood activities. These alternative activities will be incorporated into the training of community members under Activity 3.4. and activities that are identified as appropriate by the CSC will receive support in year 4 of the project under Activity 3.4					80 000	
									1 289 232
			GCF total Output 3						1 289 232
			UNDP total Output 3						349 300
			Govt. Co-financing Total Output 3						530 000
			Output 3 Total						2 168 532
PROJECT MANAGEMENT									
PM1	64300	Services to Projects - CO staff	Costs for support services provided by existing UNDP CO staff for admin, financial, procurement services based on UNDP transaction service costs the breakup of which is as below: i) HR services - USD 49,915 ii) Procurement Services - USD 62,298 iii) Finance Services - USD 108,571 iv) IT Services - USD 11,732 v) Administrative & Security services - USD 56,000	48 086	6	Years		288 516	288 516
PM2	71400	Contractual Services - Individual	Project coordinator to guide the overall implementation of the project activities and manage implementation over the 6 year project duration. Costed across Output 1 @ 30%, Output 2 @ 25%, Output 3 @ 25% and PMC at 20% for project management for 6 years Admin & Finance Assistant costed at 100% for project management for 6 years Procurement Assistant costed at 100% for project management for 6 years	216 000	1	Persons	20,0%	43 200	412 212
				18 001	6	Years		108 004	
				18 001	6	Years		108 004	

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Budget notes	3	Atlas Budget Account Description	Description of Cost	Unit Cost (USD)	QTY	UNIT	Percentage	Sub-total (USD)	TOTAL (USD)
			Procurement Expert costed at 100% for project management for 6 years	18 993	6	Years		113 958	
			Project driver costed at 100% for project management for 6 years	6 508	6	Years		39 046	
PM3	71600	Travel	Travel expenses for PMU for implementation and supervision of project activities	5 000	6	Years		30 000	30 000
PM4	72300	Materials & Goods	Stationery and office supplies at USD 3,000 per year	3 000	6	Years		18 000	18 000
PM5	74100b	Professional Services - Int	Contractual services for engagement of an Auditing firm to carry out the project financial audits: Costs at USD 5000 per year for Audit for 6 years	5 000	6	Years		30 000	30 000
PM6	75700	Training, Workshops and Conference	Provision for organization of Inception workshop and annual project board meetings over the 6-year project period	6 000	6	Years		36 000	36 000
PM7	71400	Contractual Services - Individual	UNDP Co-finance for contracting project level Monitoring and Evaluation Officer to monitor implementation of activities over the duration of the project beginning year 2. Total contract of \$120,000.	120 000	1	Persons		120 000	120 000
PM8	72200	Equipment and Furniture	UNDP co-finance for the procurement of Equipment and Furniture	25 000	6	Years		150 000	192 000
			UNDP Co-finance for procurement of 4-wheel drive vehicle to facilitate travel for PMU staff for the monitoring and supervision of project activities	42 000	1	items		42 000	
PM9	72400	Communic & Audio Visual Equip	UNDP Co-finance for procurement of communication materials	5 000	6	Items		30 000	30 000
PM10	72500	Supplies	UNDP Co-finance for costs towards Office supplies at USD 5,000 per year	5 000	6	Years		30 000	30 000
PM11	73100	Rental & Maintenance-Premises	UNDP Co-finance for costs towards maintenance and running costs	5 000	6	Items		30 000	30 000
GCF total Project Management									814 728
UNDP total Project Management									402 000
Co-financing Total Project Management									-
Sub total PMC									1 216 728
GCF Total PMC									17 255 755
UNDP Total PMC									1 577 750

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Cofinancing Total PMC									6 805 400
GRAND TOTAL									25 638 905

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X. LEGAL CONTEXT

This project document shall be the instrument referred to as such in Article 1 of the Standard Basic Assistance Agreement between the Government of Liberia and UNDP, signed on 27 April 1977. All references in the SBAA to "Executing Agency" shall be deemed to refer to "Implementing Partner."

This project will be implemented by Environmental Protection Agency of Liberia ("Implementing Partner") in accordance with its financial regulations, rules, practices and procedures only to the extent that they do not contravene the principles of the Financial Regulations and Rules of UNDP. Where the financial governance of an Implementing Partner does not provide the required guidance to ensure best value for money, fairness, integrity, transparency, and effective international competition, the financial governance of UNDP shall apply.

The designations employed and the presentation of material on this map do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations or UNDP concerning the legal status of any country, territory, city or area or its authorities, or concerning the delimitation of its frontiers or boundaries.

XI. RISK MANAGEMENT

1. Consistent with the Article III of the SBAA *[or the Supplemental Provisions to the Project Document]*, the responsibility for the safety and security of the Implementing Partner and its personnel and property, and of UNDP's property in the Implementing Partner's custody, rests with the Implementing Partner. To this end, the Implementing Partner shall:
 - a) put in place an appropriate security plan and maintain the security plan, taking into account the security situation in the country where the project is being carried;
 - b) assume all risks and liabilities related to the Implementing Partner's security, and the full implementation of the security plan.
2. UNDP reserves the right to verify whether such a plan is in place, and to suggest modifications to the plan when necessary. Failure to maintain and implement an appropriate security plan as required hereunder shall be deemed a breach of the Implementing Partner's obligations under this Project Document.

The Implementing Partner agrees to undertake all reasonable efforts to ensure that no UNDP funds received pursuant to the Project Document are used to provide support to individuals or entities associated with terrorism and that the recipients of any amounts provided by UNDP hereunder do not appear on the list maintained by the Security Council Committee established pursuant to resolution 1267 (1999). The list can be accessed via http://www.un.org/sc/committees/1267/aq_sanctions_list.shtml.

3. The Implementing Partner acknowledges and agrees that UNDP will not tolerate sexual harassment and sexual exploitation and abuse of anyone by the Implementing Partner, and each of its responsible parties, their respective sub-recipients and other entities involved in Project implementation, either as contractors or subcontractors and their personnel, and any individuals performing services for them under the Project Document.

(a) In the implementation of the activities under this Project Document, the Implementing Partner, and each of its sub-parties referred to above, shall comply with the standards of conduct set forth in the Secretary General's Bulletin ST/SGB/2003/13 of 9 October 2003, concerning "Special measures for protection from sexual exploitation and sexual abuse" ("SEA").

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(b) Moreover, and without limitation to the application of other regulations, rules, policies and procedures bearing upon the performance of the activities under this Project Document, in the implementation of activities, the Implementing Partner, and each of its sub-parties referred to above, shall not engage in any form of sexual harassment ("SH"). SH is defined as any unwelcome conduct of a sexual nature that might reasonably be expected or be perceived to cause offense or humiliation, when such conduct interferes with work, is made a condition of employment or creates an intimidating, hostile or offensive work environment.

4. a) In the performance of the activities under this Project Document, the Implementing Partner shall (with respect to its own activities), and shall require from its sub-parties referred to in paragraph 4 (with respect to their activities) that they, have minimum standards and procedures in place, or a plan to develop and/or improve such standards and procedures in order to be able to take effective preventive and investigative action. These should include: policies on sexual harassment and sexual exploitation and abuse; policies on whistleblowing/protection against retaliation; and complaints, disciplinary and investigative mechanisms. In line with this, the Implementing Partner will and will require that such sub-parties will take all appropriate measures to:

- i. Prevent its employees, agents or any other persons engaged to perform any services under this Project Document, from engaging in SH or SEA;

- ii. Offer employees and associated personnel training on prevention and response to SH and SEA, where the Implementing Partner and its sub-parties referred to in paragraph 4 have not put in place its own training regarding the prevention of SH and SEA, the Implementing Partner and its sub-parties may use the training material available at UNDP;

- iii. Report and monitor allegations of SH and SEA of which the Implementing Partner and its sub-parties referred to in paragraph 4 have been informed or have otherwise become aware, and status thereof;

- iv. Refer victims/survivors of SH and SEA to safe and confidential victim assistance; and

- v. Promptly and confidentially record and investigate any allegations credible enough to warrant an investigation of SH or SEA. The Implementing Partner shall advise UNDP of any such allegations received and investigations being conducted by itself or any of its sub-parties referred to in paragraph 4 with respect to their activities under the Project Document, and shall keep UNDP informed during the investigation by it or any of such sub-parties, to the extent that such notification (i) does not jeopardize the conduct of the investigation, including but not limited to the safety or security of persons, and/or (ii) is not in contravention of any laws applicable to it. Following the investigation, the Implementing Partner shall advise UNDP of any actions taken by it or any of the other entities further to the investigation.

- b) The Implementing Partner shall establish that it has complied with the foregoing, to the satisfaction of UNDP, when requested by UNDP or any party acting on its behalf to provide such confirmation. Failure of the Implementing Partner, and each of its sub-parties referred to in paragraph 4, to comply of the foregoing, as determined by UNDP, shall be considered grounds for suspension or termination of the Project.

5. Social and environmental sustainability will be enhanced through application of the UNDP Social and Environmental Standards (<http://www.undp.org/secs>) and related Accountability Mechanism (<http://www.undp.org/secu-srm>).

6. The Implementing Partner shall: (a) conduct project and programme-related activities in a manner consistent with the UNDP Social and Environmental Standards, (b) implement any management or mitigation plan prepared for the project or programme to comply with such standards, and (c) engage in a constructive and

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timely manner to address any concerns and complaints raised through the Accountability Mechanism. UNDP will seek to ensure that communities and other project stakeholders are informed of and have access to the Accountability Mechanism.

7. All signatories to the Project Document shall cooperate in good faith with any exercise to evaluate any programme or project-related commitments or compliance with the UNDP Social and Environmental Standards. This includes providing access to project sites, relevant personnel, information, and documentation.
8. The Implementing Partner will take appropriate steps to prevent misuse of funds, fraud or corruption, by its officials, consultants, responsible parties, subcontractors and sub-recipients in implementing the project or using UNDP funds. The Implementing Partner will ensure that its financial management, anti-corruption and anti-fraud policies are in place and enforced for all funding received from or through UNDP.
9. The requirements of the following documents, then in force at the time of signature of the Project Document, apply to the Implementing Partner: (a) UNDP Policy on Fraud and other Corrupt Practices and (b) UNDP Office of Audit and Investigations Investigation Guidelines. The Implementing Partner agrees to the requirements of the above documents, which are an integral part of this Project Document and are available online at www.undp.org.
10. In the event that an investigation is required, UNDP has the obligation to conduct investigations relating to any aspect of UNDP projects and programmes in accordance with UNDP's regulations, rules, policies and procedures. The Implementing Partner shall provide its full cooperation, including making available personnel, relevant documentation, and granting access to the Implementing Partner's (and its consultants', responsible parties', subcontractors' and sub-recipients') premises, for such purposes at reasonable times and on reasonable conditions as may be required for the purpose of an investigation. Should there be a limitation in meeting this obligation, UNDP shall consult with the Implementing Partner to find a solution.
11. The signatories to this Project Document will promptly inform one another in case of any incidence of inappropriate use of funds, or credible allegation of fraud or corruption with due confidentiality.

Where the Implementing Partner becomes aware that a UNDP project or activity, in whole or in part, is the focus of investigation for alleged fraud/corruption, the Implementing Partner will inform the UNDP Resident Representative/Head of Office, who will promptly inform UNDP's Office of Audit and Investigations (OAI). The Implementing Partner shall provide regular updates to the head of UNDP in the country and OAI of the status of, and actions relating to, such investigation.

12. UNDP shall be entitled to a refund from the Implementing Partner of any funds provided that have been used inappropriately, including through fraud or corruption, or otherwise paid other than in accordance with the terms and conditions of the Project Document. Such amount may be deducted by UNDP from any payment due to the Implementing Partner under this or any other agreement. Recovery of such amount by UNDP shall not diminish or curtail the Implementing Partner's obligations under this Project Document.

Where such funds have not been refunded to UNDP, the Implementing Partner agrees that donors to UNDP (including the Government) whose funding is the source, in whole or in part, of the funds for the activities under this Project Document, may seek recourse to the Implementing Partner for the recovery of any funds determined by UNDP to have been used inappropriately, including through fraud or corruption, or otherwise paid other than in accordance with the terms and conditions of the Project Document.

Note: The term "Project Document" as used in this clause shall be deemed to include any relevant subsidiary agreement further to the Project Document, including those with responsible parties, subcontractors and sub-recipients.

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13. Each contract issued by the Implementing Partner in connection with this Project Document shall include a provision representing that no fees, gratuities, rebates, gifts, commissions or other payments, other than those shown in the proposal, have been given, received, or promised in connection with the selection process or in contract execution, and that the recipient of funds from the Implementing Partner shall cooperate with any and all investigations and post-payment audits.
14. Should UNDP refer to the relevant national authorities for appropriate legal action any alleged wrongdoing relating to the project, the Government will ensure that the relevant national authorities shall actively investigate the same and take appropriate legal action against all individuals found to have participated in the wrongdoing, recover and return any recovered funds to UNDP.
15. The Implementing Partner shall ensure that all of its obligations set forth under this section entitled "Risk Management" are passed on to each responsible party, subcontractor and sub-recipient and that all the clauses under this section entitled "Risk Management Standard Clauses" are included, *mutatis mutandis*, in all sub-contracts or sub-agreements entered into further to this Project Document.

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XII. MANDATORY ANNEXES

Annex A: GCF Funding Activity Agreement and Notice of Effectiveness

Annex B: GCF Board-approved Funding Proposal

Annex C: Letter of agreement between the Implementing Partner and Responsible Parties

Annex D: Letters of co-financing (commitment letters from the project design stage)

Annex E: Timetable of project implementation

Annex F: Procurement plan

Annex G: Terms of References for Project Board and Project Team

Annex H: UNDP Social and Environmental and Safeguards screening procedure (SESP) and Environmental and Social Management Plan or Framework (ESMP or ESMF), as relevant

Annex I: Stakeholder Engagement Plan

Annex J: Gender Analysis and Action Plan

Annex K: UNDP Risk Log

Annex L: Letter of Agreement with the government in case UNDP Support Service Costs are applied

Annex M: HACT micro assessment and Partner Capacity Assessment

Annex N: Additional agreements: Including cost sharing agreements, project cooperation agreements signed with NGOs (where the NGO is designated as the "executing entity"), letters of financial commitments

Annex O: UNDP Project Quality Assurance Report (to be completed in UNDP online corporate planning system, does not need to be attached as separate document)

Annex P: Monitoring and evaluation plans

Annex #	Title	Location
A	GCF Funding Activity Agreement and Notice of Effectiveness	FAA: PIMS+ NoE: To be received from GCF
B	GCF Board-approved Funding Proposal	https://www.greenclimate.fund/sites/default/files/document/funding-proposal-fp160.pdf
C	Letter of agreement between the Implementing Partner and Responsible Parties	EPA to provide
D	Letters of co-financing	Govt Co-finance: PIMS+ UNDP co-finance: PIMS+
E	Timetable of project implementation	Attached below and in PIMS+
F	Procurement plan	PIMS+

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G	Terms of Reference for Project Board and Project Team	Attached below
H	UNDP Social and Environmental and Safeguards screening procedure (SESP) and Environmental and Social Management Plan or Framework (ESMP or ESMF)	SESP: PIMS+ ESMF: ESAR in PIMS+ Summaries attached below
I	Stakeholder Engagement Plan	PIMS+
J	Gender Analysis and Action Plan	https://www.greenclimate.fund/document/gender-action-plan-fp160-monrovia-metropolitan-climate-resilience-project
K	UNDP Risk Log	Attached below
L	Letter of Agreement with the government in case UNDP Support Service Costs are applied	Under preparation
M	1.HACT micro assessment 2.Partner Capacity Assessment	1. PIMS+ 2. PIMS+
N	Additional agreements: Including cost sharing agreements, project cooperation agreements signed with NGOs (where the NGO is designated as the "executing entity"), letters of financial commitments	N/A
O	UNDP Project Quality Assurance Report (to be completed in UNDP online corporate planning system)	Available
P	Monitoring and evaluation plans	Attached below

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Annex A: GCF Funding Activity Agreement and Notice of Effectiveness

FAA available as Separate attachment

Notice of Effectiveness still to be received from GCF

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Annex B: GCF Board-approved Funding Proposal

Available online at: <https://www.greenclimate.fund/sites/default/files/document/funding-proposal-fp160.pdf>

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Annex C: Letter of agreement between the Implementing Partner and Responsible Parties
Under development by EPA

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Annex D: Letters of co-financing

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Annex E: Timetable of project implementation

COMPONENTS/OUTPUTS	Year1				Year2				Year3				Year 4				Year5				Year6				Year7	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q1	Q2		
Output 1. Protection of coastal communities and infrastructure at West Point against erosion caused by sea-level rise and increasingly frequent high-intensity storms.																										
1.1 Prepare construction plan and finalise design specifications for coastal defence structures at West Point.	TORs developed				Work on ESIA, hydro-engineering study, detailed designs and construction plan commences				ESIA, Stakeholder Consultations, Hydro-engineering Study and detailed designs and construction plan completed; stakeholder validation workshop hosted to present final designs and construction plan																	

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COMPONENTS/OUTPUTS	Year1				Year2				Year3				Year 4				Year5				Year6				Year7	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q1	Q2		
2.2 Capacitate the Cross-Sectoral Working Group to mainstream ICZM into relevant government sectors through a Training-of-Trainers approach.			TORs developed/Inception workshop hosted/ICZM training curriculum developed and validated																							

COMPONENTS/OUTPUTS	Year1				Year2				Year3				Year 4				Year5				Year6				Year7	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
2.4 Strengthen the existing Environmental Knowledge Management System (EKMS) to act as a platform for awareness-raising and sharing of climate risk-informed ICZM approach.					Equipment Procured and installed	National service provider contracted Annual lessons learned report produced/EKMS knowledge products designed and distributed																				

COMPONENTS/OUTPUTS	Year1				Year2				Year3				Year 4				Year5				Year6				Year7	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
2.5. Conduct an awareness-raising campaign for communities in focus areas on climate change impacts and adaptation practices.		TORs developed/Awareness-raising campaign designed																								
			Awareness-raising campaign implemented / Awareness raising materials distributed (campaign updated and new materials distributed annually)/ Radio shows hosted (every quarter)																							
				Knowledge-sharing groups established																						

COMPONENTS/OUTPUTS	Year1				Year2				Year3				Year4				Year5				Year6				Year7	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2

Output 3. Protecting mangroves and strengthening gender- and climate-sensitive livelihoods to increase local adaptive capacity in Monrovia.

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COMPONENTS/OUTPUTS	Year1				Year2				Year3				Year 4				Year5				Year6				Year7	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
3.2. Establish community-led co-management agreement to ease anthropogenic pressure on mangroves in the MMA.																										
																								</		

COMPONENTS/OUTPUTS	Year1				Year2				Year3				Year 4				Year5				Year6				Year7	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
3.5. Purchase and install low-maintenance eco-friendly cold storage facilities near fish processing sites to reduce pressure on mangroves and increase market efficiency.																										
Project management, monitoring and evaluation																										

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COMPONENTS/OUTPUTS	Year1				Year2				Year3				Year 4				Year5				Year6				Year7	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Project Staffing, Project Operationalisation, Project Monitoring, Evaluation and Reporting*	Recruitment of Project Staff commences; Project launch workshop				APR**				APR				APR				APR				APR				TE***	
	Inception report												MTE***												Completion report/ terminal report	

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Annex F: Procurement plan

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Annex G: Terms of References for Project Board and Project Team

Terms of Reference of Technical Services to be provided by UNDP:

- *These staff costs cannot include any oversight functions as this would duplicate GCF implementation functions paid by the GCF Fee.*
- *All technical services must be specified and known and cannot refer to anticipated or expected technical support services.*
- *The qualifications necessary to undertake these technical services must be included in the TOR.*
- *The NCE-VF RTA and the PTA must approve the technical services included in the TOR (and the qualifications). The RTA and the PTA have the full authority to edit, revise, and/or refuse the technical services if they are contrary to GCF policy.*

Terms of Reference for Key Project Staff

Project Manager

Background

The Project Manager (PM) will be appointed by the project Implementing Partner (EE). The PM will be responsible for the overall management of the Project, including the mobilisation of all project inputs, supervision over project staff, consultants and sub-contractors, as well as preparing project reports as specified in UNDP and GCF requirements. The PM's prime responsibility is to ensure that the project produces the results specified in the project document, to the required standard of quality and within the specified constraints of time and budget. The PM will report directly to the Executive Director/Chief Executive Officer of the EPA.

Duties and Responsibilities

- Manage the overall conduct of the project.
- Plan the activities of the project and monitor progress against the approved workplan.
- Execute activities by managing personnel, goods and services, training and low-value grants, including drafting terms of reference and work specifications, and overseeing all contractors' work.
- Monitor events as determined in the project monitoring plan, and update the plan as required.
- Provide support for completion of assessments required by UNDP, spot checks and audits.
- Manage requests for the provision of UNDP financial resources through funding advances, direct payments or reimbursement using the FACE form.
- Monitor financial resources and accounting to ensure the accuracy and reliability of financial reports.
- Monitor progress, watch for plan deviations and make course corrections when needed within project board-agreed tolerances to achieve results.
- Ensure that changes are controlled, and problems addressed.
- Perform regular progress reporting to the project board as agreed with the board, including measures to address challenges and opportunities.
- Prepare and submit financial reports to UNDP on a quarterly basis.
- Manage and monitor the project risks — including social and environmental risks — initially identified and submit new risks to the Project Board for consideration and decision on possible actions if required; update the status of these risks by maintaining the project risks log;
- Capture lessons learned during project implementation.
- Prepare revisions to the multi-year workplan, as needed, as well as annual and quarterly plans if required.
- Prepare the inception report no later than one month after the inception workshop.
- Ensure that the indicators included in the project results framework are monitored annually in advance of the GCF APR submission deadline so that progress can be reported in the GCF APR.
- Prepare the GCF APR;
- Assess major and minor amendments to the project within the parameters set by NCE-VF;

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- Monitor implementation plans including the gender action plan, stakeholder engagement plan, and any environmental and social management plans;
- Monitor and track progress against the GCF Core indicators.
- Support the Mid-term review and Terminal Evaluation process.

Required skills and expertise

- A minimum of a Masters degree in social and natural sciences; project management; environment; natural resources management; business administration; or related disciplines
- At least 7 years working experience in the environment and climate change; natural resources management sector in a development context.
- Good management and coordination skills, with experience of at least 5 years in project implementation and management and strategic management.
- Experience in writing project reports and management plans.
- Knowledge in use of computer software packages for word-processing, excel, power point, databases and spreadsheets, and the internet.
- Proven experience in coordinating and monitoring projects.
- Experience in writing project success stories, lessons learned and best practices.
- Experience in working with NGOs and CSOs.

Competencies

- Strong leadership, managerial and coordination skills, with a demonstrated ability to effectively coordinate the implementation of large multi-stakeholder projects, including financial and technical aspects.
- Ability to effectively manage technical and administrative teams, work with a wide range of stakeholders across various sectors and at all levels, to develop durable partnerships with collaborating agencies.
- Ability to administer budgets, train and work effectively with counterpart staff at all levels and with all groups involved in the project.
- Ability to coordinate and supervise multiple Project Implementation Units in their implementation of technical activities in partnership with a variety of subnational stakeholder groups, including community and government.
- Strong drafting, presentation and reporting skills.
- Strong communication skills, especially in timely and accurate responses to emails.
- Strong computer skills, in particular mastery of all applications of the MS Office package and internet search.
- Strong knowledge about the political and socio-economic context related to the Indonesian protected area system, biodiversity conservation and law enforcement at national and subnational levels.
- Excellent command of English and local languages.

Administration and Finance Officer

Under the guidance and supervision of the Project Manager, the Administration and Finance Officer will implement and manage the project's operational and financial strategies. The officer will work closely with the Procurement Officer and the UNDP Finance and Procurement teams in the execution of their duties and will see to the following:

- Keeping records of project funds and expenditures, and ensure all project-related financial documentation are well maintained and readily available when required by the Project Manager;
- Reviewing project expenditures and ensure that project funds are used in compliance with the Project Document and GoL financial rules and procedures;
- Validating and certify FACE forms before submission to UNDP;
- Providing necessary financial information as and when required for project management decisions;
- Providing necessary financial information during project audit(s);
- Reviewing annual budgets and project expenditure reports, and notify the Project Manager if there are any discrepancies or issues;

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- Consolidating financial progress reports submitted by the responsible parties for implementation of project activities;
- Liaising and follow up with the responsible parties for implementation of project activities in matters related to project funds and financial progress reports.

Duties and Responsibilities:

1. Ensures implementation of project financial management strategies, and adapts processes and procedures focusing on achievement of the following results:
 - Keep records of project funds and expenditures, and ensure all project-related financial documentation are well maintained and readily available when required by the Project Manager;
 - Review project expenditures and ensure that project funds are used in compliance with the Project Document and GoL financial rules and procedures;
 - Validate and certify FACE forms before submission to UNDP;
 - Provide necessary financial information as and when required for project management decisions;
 - Provide necessary financial information during project audit(s);
 - Review project expenditure reports in line with budget, and notify the Project Manager if there are any discrepancies or issues;
 - Consolidate financial progress reports submitted by the responsible parties for implementation of project activities;
 - Full compliance with UN/UNDP rules, regulations, and policies of financial activities, financial recording/reporting system and follow up on audit recommendations; implementation of effective internal controls, proper functioning of a client-oriented financial resources management system;
 - Liaise and follow up with the responsible parties for implementation of project activities in matters related to project funds and financial progress reports; and
 - Continuous analysis and monitoring of the financial situation, presentation of forecasts for development and management projects, monitoring of financial exception reports for unusual activities, transactions.
2. Ensures the management of the GCF project budget focusing on achievement of the following results:
 - Elaboration of proposals for planning of financial resources of the project budget in line with the project disbursement schedule;
 - Preparation of reports containing analysis of the financial situation;
 - Preparation and monitoring of budgets; regular analysis and reporting on the budget approvals and the delivery situation;
 - Establishment of projects' budgets preparation/modification monitoring system, control of budgetary status versus authorized spending limits (ASL) and budgets delivery levels;
 - Develop and implement the project co-financing schedule in line with co-financing obligation of the project; and a co-financing tracking and reporting system ensuring the co-financing partners are regularly appraised of their contributions; and
 - Implementation of the control mechanism for projects through monitoring budgets preparation and modifications, budgetary status versus ASL, follow up with HQs on ASL for projects, maintenance of the General Ledger.

Required skills and expertise

- A Bachelor's degree or an advanced diploma in accounting/ financial management; or a professional accounting qualification from an internationally recognized institute of accountancy. Professionally qualified accountants from an internationally recognized institute of accountancy will have a distinct advantage;

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- At least five years of relevant work experience preferably in a project management setting involving multi-lateral/ international funding agency. Previous experience with UNDP or UN project will be a definite asset;
- Proficiency in the use of computer software applications particularly MS Excel;
- Excellent language skills in English (writing, speaking and reading) and in local languages.

Procurement Officer

Background

Under the guidance and supervision of the Project Manager, the Procurement Officer will implement and manage the project procurement strategies. The officer will work closely with the Administration and Finance Officer and the UNDP Finance and Procurement teams in the execution of their duties

Duties and Responsibilities

1. Implementation and management of project procurement processes focusing on achievement of the following results:
 - Full compliance of procurement activities with UN/UNDP rules, regulations, policies and strategies; implementation of the effective internal control, proper design and functioning of a client-oriented procurement management system;
 - Timely and duly preparation of procurement plans for the GCF project and monitoring of their implementation, ensuring that all procurement is within the agreed budget;
 - Implementation of proper monitoring and control of procurement processes including supporting the RFQ, ITB or RFP, receipt of quotations, bids or proposals, their evaluation, negotiation of certain conditions of contracts in full compliance with UNDP rules and regulation;
 - Provide guidance and support RPs and IPs procurement ensuring compliance to UNDP or Government guidelines;
 - Support the review and certification of submissions to the Contract, Asset and Procurement Committee (CAP) and Advisory Committee on Procurement (ACP);
 - Implementation of the strategic procurement in the GCF project including sourcing strategy, supplier selection and evaluation, quality management, customer relationship management, e-procurement introduction and promotion, performance measurement;
 - Review and evaluate the performance of suppliers;
 - Support the management of contracts and, upon delegation of responsibility, performing the functions of Manager Level 1 in Atlas for Purchase orders approval;
 - Support the implementation of the internal control system which ensures that Purchase orders are duly prepared and dispatched. Timely corrective actions on POs with budget check errors and other problems; and
 - Preparation of cost-recovery bills in Atlas for procurement services provided by UNDP to other Agencies.

Required skills and expertise

- A Bachelor's degree or an advanced diploma in accounting/ financial management, Business or Public Administration; or a professional accounting qualification from an internationally recognized institute of accountancy. Professionally qualified accountants from an internationally recognized institute of accountancy will have a distinct advantage;
- Certification in Procurement required;
- Up to 3 years of relevant experience in providing financial management services, managing staff and operational systems;
- Relevant work experience in a project management setting involving multi-lateral/ international funding agency is preferable;

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- Good knowledge and Experience in the usage of computers and office software packages (MS Word, Excel, etc) and advance knowledge of spreadsheet and database packages, experience in handling of web based management systems and ERP financials, preferably PeopleSoft required; and
- Familiarity with contract and financial procedures of the UNDP including online systems is preferred, is a distinct advantage; and
- Experience of IPSAS and/or IFRS is required for external candidates;

Project Monitoring and Evaluation Officer

Under the overall supervision and guidance of the Project Manager, the Monitoring and Evaluation (M&E) Officer will have the responsibility for project monitoring and evaluation. The M&E Officer will work closely with the UNDP M&E Officer to ensure full compliance to UNDP M&E guidelines, and with the Regional Technical Advisor (RTA) — Adaptation to ensure specific GCF monitoring requirements are met. The M&E Officer will also liaise closely with the UNDP Communications Officer on knowledge management aspects of the project.

Duties and Responsibilities

- Monitor project progress and participate in the production of progress reports ensuring that they meet the necessary reporting requirements and standards;
- Ensure project's M&E meets the requirements of the Government, the UNDP Country Office, and NCE-VF; develop project-specific M&E tools as necessary;
- Oversee and ensure the implementation of the project's M&E plan, including periodic appraisal of the Project's Theory of Change and Results Framework with reference to actual and potential project progress and results;
- Oversee/develop/coordinate the implementation of the stakeholder engagement plan;
- Oversee and guide the design of surveys/ assessments commissioned for monitoring and evaluating project results;
- Facilitate mid-term and terminal evaluations of the project; including management responses;
- Facilitate annual reviews of the project and produce analytical reports from these annual reviews, including learning and other knowledge management products;
- Support project site M&E and learning missions;
- Visit project sites as and when required to appraise project progress on the ground and validate written progress reports.

Required skills and expertise

- Master's degree, preferably in the field of environmental or natural resources management;
- At least five years of relevant work experience preferably in a project management setting involving multi-lateral/ international funding agency. Previous experience with UN project will be a definite asset;
- Significant experience in collating, analysing and writing up results for reporting purposes;
- Very good knowledge of results-based management and project cycle management, particularly with regards to M&E approach and methods. Formal training in RBM/ PCM will be a definite asset;
- Knowledge and working experience of the application of gender mainstreaming in international projects;
- Understanding of biodiversity conservation, law enforcement, sustainable livelihoods and associated issues;
- Very good inter-personal skills;
- Proficiency in computer application and information technology.
- Excellent language skills in English (writing, speaking and reading) and in local languages.

Project Gender Officer

Under the overall supervision and guidance of the Project Manager, the Gender Officer will have the responsibility for the implementation of the Gender Action Plan. The Gender Officer will work closely with the M&E Officer,

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Safeguards Officer and the UNDP Communications Officers on related aspects of project implementation, reporting, monitoring, evaluation and communication.

Duties and responsibilities:

1. Provide technical support to the project team

- Provide advice and support to the Project Managers and the Technical Advisors in the Implementation of the key gender components across the crisis response interventions in KR-1 and the DIBs area.
- Provide advice and support to the technical staff working within the respective field offices.
- Review the Gender Action Plan annually, and update and revise corresponding management plans as necessary.
- Analyze and ensure the interventions are sensitive to issues of inclusion of displaced population groups.
- Support in updating and sharing with staff recent developments and knowledge tools in the areas of interventions.
- Oversee/develop/coordinate implementation of all gender-related work.

2. Monitoring and reporting on gender issues

- Monitor progress in implementation of the project Gender Action Plan ensuring that targets are fully met, and the reporting requirements are fulfilled.
- Work with the M&E officer and Safeguards Officer to ensure reporting, monitoring and evaluation fully address the gender issues of the project
- Monitor and report on the project related gender issues in the region.
- Prepare reports on the crisis response interventions in KR-1 and the DIBs area.
- Provide information to be updated in Atlas for the Crisis response projects.

3. Networking and Coordination

- Liaise with key national and international stakeholders, key domestic political and civic actors, civil society organizations, international NGOs, UN partners and donors in the region to facilitate and enhance contribution towards the implementation of the gender equality agenda.
- Attend conferences and seminars as directed by the supervisors in the region.
- Represent UNDP in the regional Sexual Gender-Based Violence working group.

4. Knowledge management and knowledge sharing

- Provide brief updates on the development of gender-related issues in the region
- Provide assistance in data collection, compiling lessons learned, establishing indicators to support knowledge sharing.
- Assist in the development of project documents and policy frameworks and research area and gender issues for best practices as directed by supervisor.
- Participate in gender-related communities of practice
- Support in writing stories related to programme and project developments as they relate to gender equality issues.

Required skills and expertise

The Project Gender Officer will be recruited based on the following qualifications:

- Master's degree in gender studies, gender and development, environment, sustainable development or closely related area.
- Demonstrated understanding of issues related to gender and sustainable development; at least 5 years of practical working experience in gender mainstreaming, women's empowerment and sustainable development in relevant Country/Region/Area of Work;
- Proven experience in gender issues in Country/Region/Area of Work
- Previous experience with UN projects will be a definite asset;

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- Demonstrated understanding of the links between sustainable development, social and gender issues;
- Experience in gender responsive capacity building;
- Experience with project development and results-based management methodologies is highly desired/required;
- Excellent analytical, writing, advocacy, presentation, and communications skills.
- Excellent language skills in English (writing, speaking and reading) and in local languages.

Project Safeguards Officer

Under the overall supervision and guidance of the Project Manager, the Project Safeguards Officer will have the responsibility for the implementation of the environmental and social management plan/framework and will provide strategic technical support to the project team both on and off-site in compliance workplace safety procedures and requirements. The Safeguards Officer will work closely with the M&E Officer and the UNDP Communications Officers on related aspects of project reporting, monitoring, evaluation and communication.

Duties and responsibilities:

- Monitor progress in development/implementation of the project ESMP/ESMF ensuring that UNDPs SES policy is fully met, and the reporting requirements are fulfilled;
- Oversee/develop/coordinate implementation of all safeguard related plans;
- Ensure social and environmental grievances are managed effectively and transparently;
- Review the SESP annually, and update and revise corresponding risk log; mitigation/management plans as necessary;
- Work with the M&E officer to ensure reporting, monitoring and evaluation fully address the safeguard issues of the project;
- Review workflow and activities to ensure compliance with workplace safety procedures and requirements
- Develop and implement safety Standard Operating Procedures — ensure SOPs are in place and enforced
- Inspections — inspect the workplace for potential hazards, identify potential hazards, assess the risks and recommend remedial measures
- Conduct drills such as fire drills, to ensure equipment is properly functioning and staff are aware of what to do in an emergency
- Ensure project implementation is in compliance with applicable environmental safety laws — conduct training with staff to make sure they are aware of regulations and procedures and provide guidance
- Ensure that workplace is in good sanitary condition and workers wear their Personal Protective Equipment (PPE)
- Ensure full disclosure with concerned stakeholders;
- Ensure environmental and social risks are identified, avoided, mitigated and managed throughout project implementation;
- Being current in implementing workplace safety applicable regulations, practices and procedures
- Ensure the workplace, including equipment are safe and well maintained
- Ensure workplace is in compliance with environmental and safety regulations, practices and procedures
- Ensure that employees, communities' dwellers and visitors within work areas have been provided with appropriate safety training and information, and adhere to established safety practices and requirements

Required skills and expertise:

The Project Safeguards Officer will be recruited based on the following qualifications:

- The Safeguard Officer should have a Master's degree in Public Health, Social or Natural Sciences or other relevant disciplines, preferably in areas such as environmental health and safety, industrial hygiene or personnel safety

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- A minimum of 3 years practical experience in the field of environmental health and safety, industrial hygiene or personnel safety as well as relevant work experience of communications for project or programme implementation, ideally involving international donors;
- Previous experience in developing and implementing environmental and social safeguard strategies for organisations or projects
- Experience in policy development process associated with adaption and mitigation issues in relation to environmental health and safety, climate change, sustainable development
- Experience in working and collaborating with government institutions, UNDP and private sector
- Extensive working experience in Liberia
- Excellent knowledge of English including writing and communication skills
- Possess excellent technical skills in socio-economic and project performance assessment
- Demonstrated experience in monitoring and evaluation of development project activities
- Ability to write clearly and concisely, and have sound quantitative skills (managing, analyzing and interpreting data)
- Experience in planning, monitoring and evaluation and having good computer knowledge of database software like MS, PowerPoint & Excel
- Detailed knowledge familiarity in the five major areas of stakeholder engagement, information and knowledge, policy and legislation development, management and implementation, and monitoring and evaluation
- Experience working with best practices for integrating global environmental priorities into planning, decision-making, and reporting processes
- Experience in development work, partnerships building and resource mobilization

Administration and Finance Assistant

The Administration and Finance Assistant will assist the Project Manager in the day-to-day management and oversight of project activities. The Administration and Finance Assistant will work closely with, and support, the Administration and Finance Officer as well as the Procurement Officer to resolve complex finance-related issues and exchange of information.

- Ensure all project documentation (progress reports, consulting and other technical reports, and minutes of meetings) are properly maintained in hard and electronic copies in an efficient and readily accessible filing system, for when required by PB, TAC, UNDP, project consultants and other PMU staff;
- Provide PMU-related administrative and logistical assistance.

Duties and Responsibilities

1. Support the formulation of GCF project strategies and implementation of the project implementation plan focusing on achievement of the following results:
 - Assist the Project Manager in day-to-day management and oversight of project activities;
 - Collection, analysis and presentation of background information for preparation of CCA, UNDAF, CPD, CPAP, effective application of RBM tools and establishment of management targets (BSC);
 - Presentation of background information for formulation of draft project documents, work plans, budgets, proposals on implementation arrangements.
2. Support the management of the GCF project focusing on the achievement of the following results:
 - Creation of a project in Atlas, preparation of required budget revisions, revision of project award and project status, determination of unutilized funds, operational and financial close of a project;
 - Provision of guidance to the executing agencies on implementation of the GCF project; and
 - Presentation of information for audit of the GCF project, supports implementation of audit recommendations.
3. Provides administrative support to the GCF Project Management Unit *focusing* on achievement of the following results:

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- Provide PMU-related administrative and logistical support;
 - Assist in the preparation of Project Financial and Progress reports;
 - Review of the project Financial Reports; preparation of non-PO vouchers for the project;
 - Maintenance of the internal expenditures control system which ensures that vouchers processed are matched and completed, transactions are correctly recorded and posted in Atlas;
 - Timely corrective actions on unposted vouchers, including the vouchers with budget check errors, match exceptions, unapproved vouchers;
 - Creation of requisitions in Atlas for the GCF project, register of goods receipt in Atlas; and
 - Making budget check for requisitions, POs and vouchers.
4. Ensures facilitation of knowledge building, management and sharing in the CO and among project partners focusing on achievement of the following results:
- Assist the M&E Officer in matters related to M&E and knowledge resources management;
 - Ensure all project documentation (progress reports, consulting and other technical reports, minutes of meetings, etc.) are properly maintained in hard and electronic copies in an efficient and readily accessible filing system, for when required by PB, TAC, UNDP, project consultants and other PMU staff;
 - Organization of trainings for the project staff and implementing partners;
 - Synthesis of lessons learnt and best practices in the project; and
 - Sound contributions to knowledge networks and communities of practice.

Required skills and expertise

- Secondary Education, preferably with specialized certification in Accounting and Finance. University Degree in Business or Public Administration, Economics, Political Sciences and Social Sciences would be desirable, but it is not a requirement;
- 6 years of progressively responsible administrative or programme experience is required at the national or international level, preferably in a project involving biodiversity conservation, natural resource management and/or sustainable livelihoods. Previous experience with UN project will be a definite asset;
- Experience in the usage of computers and office software packages (MS Word, Excel, etc) and advance knowledge of spreadsheet and database packages, experience in handling of web-based management systems;
- Very good inter-personal skills;
- Excellent language skills in English (writing, speaking and reading) and in local languages.

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Annex H: UNDP Social and Environmental and Safeguards screening procedure (SESP) and Environmental and Social Management Plan or Framework (ESMP or ESMF) as relevant

The full Environmental and Social Safeguards (ESS) documentation annexed to the GCF Funding Proposal is available at: [\[insert hyperlink\]](#). A summary of the Environmental and Social Assessment Report (ESAR) is provided below.

A. INTRODUCTION

Climate change has been generating higher sea levels since at least the start of the current century and appears to be set to accelerate over the coming years. More intense storm-driven waves are already pushing the marginal shorelines of the Monrovia Metropolitan Area (MMA) out of equilibrium. The rising sea levels, with high tides becoming ever higher, coupled with storm waves of increasing intensity, is leading to flooding, the collapse of buildings and housing, salt intrusion into wells, and pollution from disrupted sewerage and city drains. There will be consequent impacts on the poor coastal communities which include large communities of artisanal fisherfolk, as houses, small businesses, markets and people are progressively forced to move elsewhere. Food security will deteriorate markedly as the fishery collapses because the fishermen can no longer live on the shores from which it is accessible.

Ensuring the survival of this fishery is key to the maintenance of a sustainable food source for a large city, through methods that are very low in carbon emissions. Keeping the industry operational on a low carbon basis requires a number of adaptations in the ways that the industry itself and the land of the coastal fringe are managed. It also needs some protection against the threat of increased inundation.

The project proposes solutions based on management interventions and ecologically sound control measures. These use nature-based techniques to control the encroaching sea, with "soft" engineering measures added where necessary. A key aspect of the project will be to protect the low-lying land occupied by the fisherfolk and their neighbouring communities. Other actions will address the health of the mangroves, making space for their survival as sea level rises. These management-based activities will focus on improving land use planning and reducing encroachment into the large, highly biodiverse mangrove-filled inlets close to Monrovia. Coastal management capacity will be enhanced to encompass improved governance and protection of these inland but tidal zones, where the forests are important carbon sequestration sites. Ensuring the long-term health of the mangroves is itself a nature-based solution to low energy food security, since these areas are the breeding grounds for the inshore fish and crustaceans that keep the artisanal fishery both highly productive and sustainable. Hence this strategy is central to sustaining the fishery and keeping Monrovia food secure while minimising carbon emissions – and thereby its contribution to the drivers of climate change.

This document, an Environmental and Social Assessment Report (ESAR), has been developed to safeguard the environment and society through the implementation of the project and beyond. It follows the requirements laid out in the United Nations Development Programme's (UNDP) 2014 Social and Environmental Screening Procedure (SESP) and Social and Environmental Standards (SES). The approach followed has been as holistic as possible. Although the project is designed to focus on the immediate zone of the ocean shore threatened by sea level rise and intense storm energy, the potential impacts on both the environment and society will extend well beyond this line. The complicated range of measures envisaged at the frontier of sea and land leads to the need for a comprehensive environmental and social management system to ensure that the safeguards meet the requirements of both the Environmental Protection Agency (EPA) and the UNDP, and to avoid the situation where an essentially pro-environment project actually causes more harm.

The ESAR report is an interim provision covering the requirements for a Project Brief, in addition to providing an Environmental and Social Monitoring Plan (ESMP). However, a full Environmental and Social Impact Assessment (ESIA) is required for this project in order to meet the requirements of the EPA.

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The project reviewed five coastal sections in Monrovia, as shown in the figure and table below. These coastal sections represent areas that are all experiencing coastal retreat and where fishing activities are prominent, since some of their sandy beaches offer suitable locations for the safe landing of the wooden canoes used by the artisanal fishermen.

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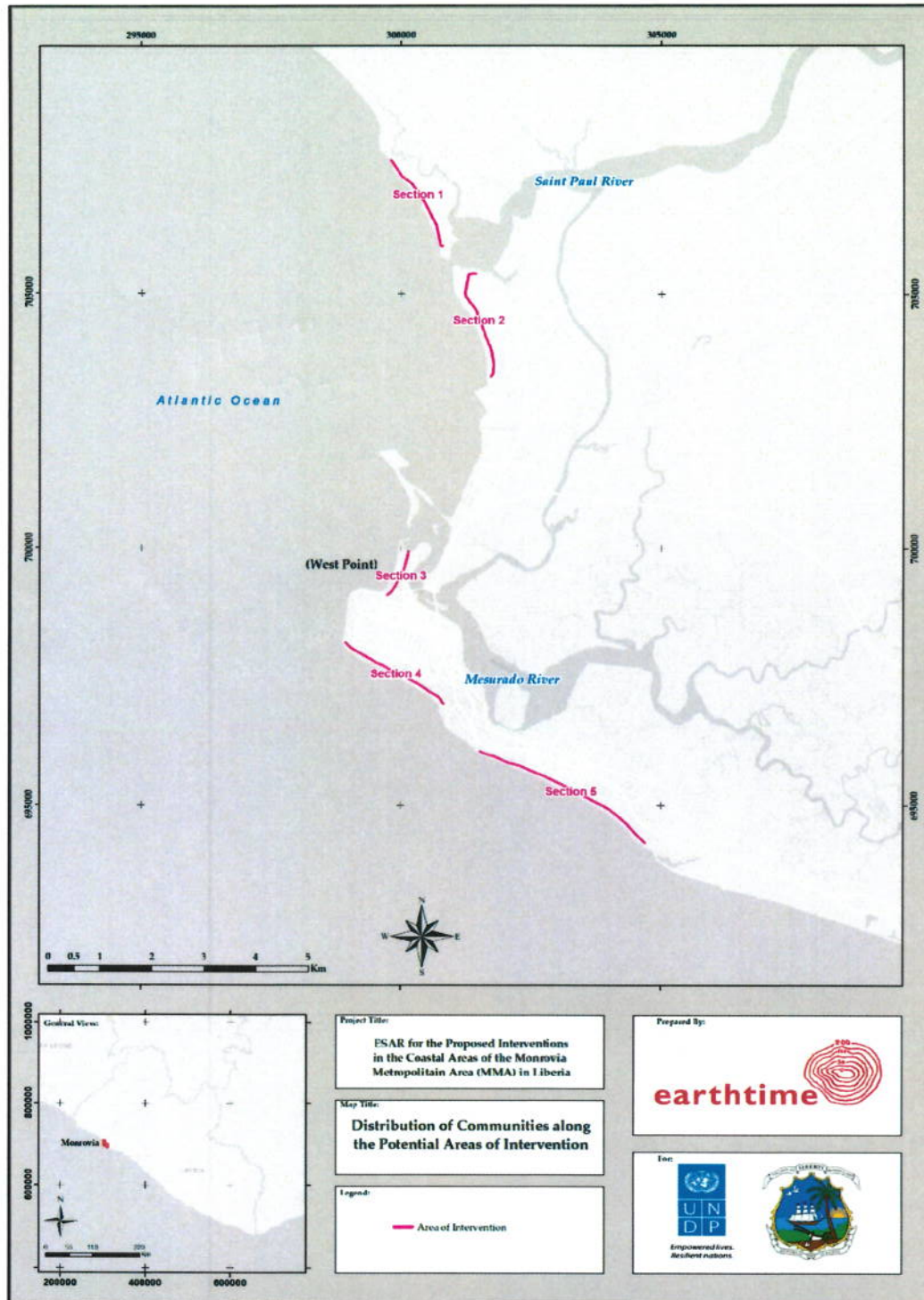
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Project location map

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Name and length of project location sections

Coastal section	Common Name	Length (m)
Coastal section 1	Hotel Africa	2,200
Coastal section 2	New Kru Town to the Port	2,400
Coastal section 3	West Point	1,500
Coastal section 4	American Embassy to the Military Base	2,600
Coastal section 5	Military Base to Bernard Beach (JFK Hospital)	4,700
Total		13,400

Following detailed analysis, it was established that the only location with expected impacts that are very clearly attributable to the effects of climate change was that at West Point. For this reason, it is only at West Point that physical interventions are proposed under the project. However, a range of adaptive interventions are proposed that will have wider effectiveness.

The project aims at providing a climate-resilient strategy for Monrovia by:

- Minimising contributions to the drivers of climate change;
- Reducing vulnerability and making society climate resilient;
- Protecting and enhancing livelihoods;
- Upholding human rights;
- Safeguarding food security; and
- Enhancing ecosystems.

In order to achieve these objectives, the project proposes a two-fold approach that must be implemented together:

- The first category is a group of proposed interventions that are adaptive measures, aiming at aiding society to minimize the drivers of climate change. These are listed below.
 - Increase the capacity of the institutions responsible for integrated coastal zone management (ICZM); and
 - Increase awareness of the importance of addressing climate change issues among the affected society.
 - Address the management of fishing, catches, and fish processing and storage;
 - Understand the biological resource and ensure its protection as necessary to sustain catch volumes; and
 - Understand and manage the pollution that threatens the biological resource in the urban proximity.
- There are also two adaptive measures that will help to reduce the impacts of climate change.
 - Alternative sources of construction sand; and
 - Options for climate-resilient infrastructure in coastal areas.
- The second category covers protective interventions, aiming at mitigating the impacts of climate change, particularly rising sea level and the damaging effects of waves from higher-energy storm events. The proposed interventions are at Coastal Section 3, West Point, where two options were examined, from which

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the most environmentally sound was chosen. This is the construction of a revetment wall. The other option included the use of a groyne with beach nourishment, which would have a potentially significant environmental impact through the need for dredged sand.

C. PROJECT ALTERNATIVES

Alternatives to the project are few and have clear disadvantages. Resettlement in coastal sections 2 and 3 would seriously affect the coastal communities who rely on proximity to the beach for their livelihoods. It would also almost certainly lead to a more carbon-dependent economy for the people involved: supporting an increasing industrialisation of the fishery would lead to a higher consumption of fossil-fuel energy, the displacement of many workers and potentially the over-exploitation of the fishery.

Other types of engineering solutions to protect against coastal retreat are either not technically feasible or not deemed acceptable by the stakeholders. Some are also very costly to construct and to maintain (groynes and beach nourishments) or have significant environmental impacts because of the need for offshore dredging (beach nourishments). In some areas of the project, the impact of climate change could not be clearly set as the main driver for the coastal retreat and therefore the options of building protective structures in these areas have to be dropped because they cannot fit in the project rationale (coastal sections 2 and 4). Although the Do Nothing alternative does not have any foreseen direct impacts on the environment, it will generate significant harmful socio-economic impacts on the communities living along the coast, rendering it an unsupportable proposition.

It is clear that there is a strong need for the project, and that none of the possible alternatives are suitable.

D. LEGAL AND INSTITUTIONAL FRAMEWORK

Environmental Protection Agency (EPA) Requirements

All projects and activities identified in Annex I of the Environmental Protection and Management Law of Liberia (EPML) are required to conduct an environmental impact assessment. The proposed project includes building structures for erosion control, which falls under the "Land Reclamation and Land Development" category in Annex I of the EPML. This project must therefore present an Environmental and Social Impact Assessment report (ESIA) to the EPA and obtain a permit before the commencement of activities.

Green Climate Fund (GCF) Requirements

The proposed project falls under Category B of the GCF Environmental and Social Policy: Activities with potential limited adverse environmental or social risks and impacts that individually or cumulatively, are few, generally site-specific, largely reversible, and readily addressed through mitigation measures.

United Nations Development Programme (UNDP) Requirements

The ESAR is developed and presented in a manner that meets the SESP and Stakeholder Response Mechanism (SRM) requirements and objectives. Standard 5 (Displacement and Resettlement) and Standard 6 (Indigenous Peoples) of the Social and Environmental Standards (SES) were not considered to be relevant in this context, as the resettlement of people and impacts on indigenous groups are not anticipated (although these matters need to be confirmed in the project's ESIA). Standards 1, 2, 3, 4 and 7 are to be met by the project.

E. DESCRIPTION OF THE OVERALL ENVIRONMENT

Physical Environment

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The project location lies on the coastal plains of Monrovia, characterised by relatively flat sandy beaches interspersed with sand bar-enclosed lagoons, mangrove swamps, and a few rocky cliffs. The bathymetric topography of coastal sections 1 and 2 is characterised by gentle slopes, while coastal sections 3, 4 and 5 have steeper slopes.

Monrovia's shoreline experiences a semi-diurnal tide, which reportedly influences wetlands and rivers to about 10 km inland. Liberia's wave regime is largely dominated by long period swell waves which are highly energetic and relatively uniform in direction and in height. Offshore wave heights have a seasonal variation, showing higher waves and a larger wave height distribution in the rainy season, when there are stronger onshore winds.

In the project area, the coastal waters are mainly influenced by inputs from the Mesurado River, the St. Paul River, and to a lesser extent by the Farmington River (southeast of coastal section 5). On the other hand, several sewer channels discharge raw wastewater into the ocean. These are mostly found in coastal sections 4 and 5.

Spot sampling was carried out in the Atlantic Ocean and in the estuarine areas of the St. Paul River and the Mesurado River, with a total of 21 samples. The results show a high TSS concentration in surface and coastal waters, which is an indication of pollution by anthropogenic activities. Chemical oxygen demand (COD) content increases downstream along the Mesurado River, and becomes diluted in the estuarine area. Samples collected from the St. Paul estuarine area clearly show a salinity gradient that increases with proximity to the ocean, as the St. Paul River's freshwater mixes with the ocean's saline water. The salinity in samples collected from the Mesurado estuarine area is comparable with that of seawater, demonstrating that this estuary is more influenced by the coastal waters than by the inland surface water. The implication is that impacts on coastal water quality may reach deeper inside the Mesurado estuary than they would in the St. Paul estuary where freshwater flows dominate the hydrology. Traces of heavy metals were detected in some samples, while cyanide, nitrite, petroleum hydrocarbons and phenols were not detected in any of the samples.

Sediment analysis onshore and offshore of the five coastal sections revealed that the samples are coarse, containing more than 85% of sand. Onshore samples have no silt or clay content, while offshore samples generally contain no gravel.

In the project area, the major continuous sources and sinks affecting the sediment budget are:

- St. Paul River, a source, located between coastal sections 1 and 2;
- Mesurado River, a sink, located between coastal sections 2 and 3; and
- Farmington River and its tributary Junk River, sources, located southeast of coastal section 5.

The average global sea level has been rising since at least the beginning of the 20th century, as a result of global warming. Although the rise to date might look marginal (approximately 7 cm since 2000), projections show that sea level rise will continue, even for the most optimistic projection (i.e. currently the IPCC's Representative Concentration Pathway, RCP 4.5 scenario). This will subsequently cause a worsening of the effects of climate change that are already noticeable: intensified waves, more intense and frequent storms, and a change in the sediment balance of the nearshore ocean system. All these effects will contribute to coastal retreat.

Biological Environment

The Monrovia coastal belt contains significant areas of swamp-related vegetation, which includes mangrove forests and savannah woodland-related vegetation. The mangrove forests provide nutritional inputs to adjacent shallow lagoons and lakes that are the primary habitat, as well as the main spawning and breeding grounds for many aquatic and marine species. The marine environment also plays a significant ecosystem services role, exerting influence over local processes such as the absorption of atmospheric carbon dioxide.

Mangrove forests are the most important flora in the coastal area. Also common in the coastal zones are palm trees, mango trees, papaya trees, other fruit trees and some ornamental plants. Minor seagrass growth may occur, especially in lagoons and wetland areas such as the Mesurado Wetland.

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The wetland ecosystems of Monrovia support a very diverse assemblage of faunal species, some of which have high biological, conservation or economical values. In contrast, the faunal diversity of sandy beaches along the coast is relatively very low.

Published information on seaweed species diversity in Liberia revealed about 90 different algal species, but this number may be underestimated. Different seaweed species are expected to occur on rocky areas in the inter-tidal and subtidal zones of Monrovia's shore.

Detailed surveys of marine invertebrates in Liberia are lacking. However, the nearshore zone has well developed crustacean and mollusc populations, including commercially valued species. The benthic macrofaunal populations have not been studied in detail.

Terns and most importantly black terns (*Chlidonias niger*) pass through the offshore waters of Liberia, mainly in the spring when food stocks are high. Other marine birds identified in previous studies include juvenile gannets, skuas and white-fronted petrels.

Specific records of marine mammal occurrences in Liberian waters are scarce. A marine mammal fauna list consisting of 29 confirmed and potential species was identified for Liberia, comprising baleen whales, sperm whales, beaked whales, dolphinid species and a single species of Sirenia (sea cows and manatees). Of these, two species are of particular conservation importance in the region, the Atlantic Humpback Dolphin and the West African Manatee.

At least four species of sea turtles are present in Liberian waters and nest in Liberia. No information could be located regarding their distribution at sea, although it can be expected that most – if not all – of the sea turtle species use both coastal and pelagic waters in Liberia's Exclusive Economic Zone (EEZ) for foraging and migrating, and are present in these habitats throughout the year.

Cassava Croakers, West African Ilisha, Sardine and Barracuda are the most abundant fish species in the coastal waters of Monrovia. Other fish commonly present are Groupers, Snappers and the Lesser African Threadfin. Tuna species, Wahoos, Marlins and Sailfinish, Sharks and Rays are more common in the offshore waters beyond six nautical miles. The fishing season extends usually from October to May. June to September is considered to be a low season for net fishing but the high season for hook and line fishing, which targets mostly Snappers on rocky bottoms.

Socio-economic Environment

A rapid appraisal of the fishing-based communities was carried out along the beaches potentially affected by sea level changes and the possible locations of coastal interventions. Twenty-one focus group discussions were carried out as part of the ESAR, out of which six were fishing communities. None of these communities have groups that could be identifiable as "indigenous" using the international definition of the term by the UNDP.

The concerns that were voiced in relation to the project are loss of access to the beaches, loss of livelihood, relocation, and loss of the beach as a recreational area. In addition, security of land tenure is a serious concern for the communities in the project area. With the project's protection of the coast, the values of land will be raised. Many members of the coastal communities do not have formal title to the land they occupy, having settled there either with customary rights allocated by a traditional Chief, or because of displacement during the civil wars. Many communities have been in place for at least 40 years and believe they have "squatters' rights" via "adverse possession".

In general, the fishing communities are either Kru, Fanti or Popo (a minority) and identify as such. In these artisanal fishing communities, the actual fishing is primarily undertaken by men and the processing and sale of the fish (fish mongering) are undertaken by their wives and female relatives. It is generally thought that up to three women will process and sell the catch of each man from each canoe.

F. STAKEHOLDER ENGAGEMENT AND PUBLIC PARTICIPATION

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Public Consultation and Environmental and Social Disclosure

The ESAR includes public consultation as part of the ongoing stakeholder engagement plan for the project. The project was discussed with a wide range of stakeholders including relevant government departments, industry groups, NGOs, and individual community members. It is essential that consultation with any affected communities will continue. It is anticipated that based on the communities' expressed views, the project will be fully accepted, provided that communities can stay where they are and are protected from eviction.

The Project Management Unit's (PMU) Safeguards Officer will be required to develop and release updates on the project on a regular basis to provide interested stakeholders with information on project status in line with the Stakeholder Engagement Plan for the project. All enquiries, concerns, complaints and grievances will be recorded on a register and the appropriate manager will be informed. All material must be published in English, which appears to be spoken by all occupants of the area; however, it might also be necessary to publish in Fanti (an old Ghanaian dialect), since some of this community mainly use this language in their homes.

Community Consultation

An extensive community consultation exercise was undertaken for the ESAR over a three-week period in February 2019. In total, twenty communities were visited, in addition to a Community Based Organisation (CBO) located in West Point. Communities all report loss of lives, loss of structures (homes and workplaces), disruption to means of gaining a livelihood, increased uncertainty and a lack of anywhere else to go. Both fishing and non-fishing communities depend on their location for their livelihoods, and fears of loss of land, of inundation, forced relocation and lack of access to plots utilised for decades are deeply disturbing for all.

The majority of the inhabitants of the coastal communities are squatters and tenants of squatter households. The communities have all experienced the impacts of sea flooding, which has led to damage of their canoes and homes, displacement, and loss of livelihoods. Consequently they welcome the idea of coastal protection, while having some concerns. A major concern raised regarding the project was an appeal for residents to stay where they are as relocation means loss of livelihoods, loss of beach space for recreational use, and the breaking up of communities. The communities feel that they have a right to live in these areas especially as they feel they have looked after the coastline. Another concern was fear of being forced out by wealthier people if the land was protected. On the other hand, communities welcomed the idea of coastal protection.

Grievance Redress Mechanism

The Grievance Redress Mechanism (GRM) recommended is a system proven to work in poor communities in Liberia, is compliant with UNDP's Social Safeguards, follows customary norms and fits into the statutory administrative process of the Government of Liberia.

A GRM allows internal and external stakeholders to ask questions and raise issues, with the knowledge that they will be handled properly. It is clear proof of the commitment to deal quickly and carefully with all reasonable concerns and queries that people bring. All grievances must be recorded, effectively processed and reported through the proper channels.

The practical process for resolving a complaint has a number of tiers. At all levels, the complainant can include witnesses, traditional authorities, a non-governmental organisation (NGO) or other civil society representative to assist and support them.

G. ENVIRONMENTAL AND SOCIAL RISK ASSESSMENT AND MITIGATION

As this project is supported by UNDP in its role as a GCF Accredited Entity, it has been screened against UNDP's SES of 2016 under the SES of 2014. These comply with the requirements of the GCF's Environmental and Social Policy as adopted in March 2018.

Based on the Social and Environmental Screening, the project was deemed to be a moderate risk (Category B)

project.
The methodology adopted in this ESAR uses the UNDP's general, international risk assessment procedure, but enhanced by Earthtime's risk assessment system, which has been developed for use specifically in Liberia. This means that it covers both the higher level, general risks faced by all development projects, and the project activity-specific risks likely to be encountered locally. Risks related to the project are identified and assessed for significance of impact and likelihood of occurrence. In addition, an outline of the risk mitigation is presented, followed by the residual risk remaining if appropriate mitigation measures are implemented to agreed standards. Finally, the linkages between the risk assessment matrix and the impacts in the Environmental and Social Management and Monitoring Matrix (ESMMM) are shown.

H. PLAN FOR ENVIRONMENTAL AND SOCIAL MANAGEMENT AND MITIGATION

The ESMMM is the key tool used in the Environmental and Social Management and Mitigation Plan to ensure that the impacts of project activities on the environment and society are minimised and that both will be safeguarded during the implementation of the proposed project, in compliance with all technical, regulatory, and institutional requirements. Rather than have separate plans for managing health and safety, gender and social inclusion, biodiversity, hazardous materials, etc., the ESMMM encompasses all these aspects. The disadvantage of numerous sub-plans is the risk of contradiction, duplication and omission where topic areas overlap. The strength of a single, encompassing plan is that actions, standards to be achieved and responsibilities are clearly defined and can be easily monitored to ensure effectiveness.

To make it possible to manage the identified adverse environmental and social impacts in a structured way, they are disaggregated within areas of risk. This led to the following safeguard categories and impact mitigation headings that are used as the basis of the overall ESMMM.

1. General Environmental Protection
2. Community Protection Measures, including Gender and Social Inclusion
3. Environmental Health and Safety
4. Occupational Health and Safety
5. Labour and Working Conditions
6. Water Resources Management
7. Coastal Sediment Resources Management
8. Soil and Land Resources Management
9. Dust and Air Quality Management
10. Flora and Fauna Protection
11. Archaeology and Cultural Sites Management
12. Waste Management
13. Hazardous Materials Management

Through these categories, the ESMMM lays out the management system to ensure that all the safeguards required by the Government of Liberia and UNDP are addressed to adequate, defined standards, and that this can be ascertained through monitoring. Most of the ESMMM content is given over to practical actions in all project activities, and guidelines to support these actions in meeting national and international standards.

The ESMIMM has identified additional surveys and management plans that must be conducted before any activities take place, in addition to the ESIA. These are:

1. Detailed ESIA Surveys
 - 1.1. Marine and Estuarine Biological Survey
 - 1.2. Marine and Estuarine Sediment Survey
 - 1.3. Household Survey of Affected Communities
 - 1.4. Fish Landing Survey (linked to 1.1 and 1.3 above)
2. Detailed Sub-plans
 - 2.1. Contractors' Oil Spill Response Plan for land
 - 2.2. Contractors' Oil Spill Response Plan for sea, including a Marine Spill Contingency Plan
 - 2.3. Contractors' Emergency Response Plan
 - 2.4. Contractors' Rock Quarry Management Plan, including Blasting Plan
 - 2.5. Resettlement Action Plan for Affected Livelihoods
 - 2.6. Grievance Redress Mechanism

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Annex J: Gender Analysis and Action Plan

<https://www.greencclimate.fund/document/gender-action-plan-fp160-monrovia-metropolitan-climate-resilience-project>

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Annex K: UNDP Risk Log

#	Description	Risk Category	Impact & Probability	Risk Treatment / Management Measures	Risk Owner
1	Inadequate engagement with local-level stakeholders and project partners. This may occur as a result of insufficient coordination between implementing agencies during project implementation and/or limited integration of local knowledge into project activities.	Technical and Operational	I = 3 P = 2	The project design has involved extensive engagement with local stakeholders to ensure support for project activities. Extensive engagements with project partners, other agencies operating in the area and stakeholders will continue during project implementation. Project implementation activities will build on and/or draw from existing local committees, groups, systems and procedures to ensure local stakeholder participation.	UNDP
2	Inadequate incorporation of gender sensitivity as well as social safeguards considerations and livelihoods into the implementation of the project activities. The management structures and systems may have adverse impacts on gender equality and may reproduce discrimination based on gender.	Technical and Operational	I = 3 P = 2	A Gender Assessment and Action Plan (Annex J) has been developed and will be implemented to ensure that gender equality is central to all interventions. Activity design will include the full participation of women in consultations and capacity development and be sensitive to gender vulnerability disparities in all decision-making. The project design will consider the livelihood capacity development of women in the fishing industry and in the local communities. A Social Management Plan as part of the ESMP has been designed based on a detailed screening process. The ESMP provides a framework for ensuring that project activities do not have a negative impact on the environment or local communities (Annex H).	UNDP
3	The failure to commit and provide the co-	Governance	P-2 I-3	UNDP has committed to providing co-financing for the project and has worked with the GOL to identify	UNDP

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	financing commitment from "new money" or sustainable "payment-in-kind" for project development resulting in funds from other fundamental services/development being compromised.			further sources of co-financing and in-kind activities. The availability of in-kind co-finance for Activity 1.2 in the form of rock materials has been verified by the GOL and UNDP.	
4	The long-term project success requires a commitment to coastal and land-use planning policies and actions to safeguard communities/infrastructure. It is also necessary to ensure that there is no overlap and/or misalignment between project activities and other actions in the MMA.	Governance	P-2 I-3	The project has been designed with extensive stakeholder engagement at all levels of government and affected parties to ensure that there is synergy between project activities and any past and ongoing initiatives in the MMA. Regular meetings will be held between the GOL and relevant individuals/organisations responsible for the management of the project. This will ensure that future projects or initiatives are aligned with the project's interventions. Government commitment to address land tenure arrangements during project implementation in coastal and tidal areas agreed as a condition of the project. This will include a commitment to new legal instruments and enforcement where necessary.	UNDP
5	Changes in political leadership or focus could result in delays in project implementation or even abandonment of some activities. Additionally, turnover of government staff may impede capacity building, the retention of skills and	Governance	P-1 I-2	Regular engagement with non-political actors – such as government agency officials, staff and local community members – will be prioritised during project implementation. In so doing, knowledge regarding the project planning and implementation processes will be shared amongst a number of individuals who can hold the implementing agencies accountable for delivery in the case of key individuals leaving their respective organisations. The formulation of local ordinances, mainstreaming of project interventions into local planning and budgeting systems and establishment of accountable	UNDP

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	knowledge, and management across the relevant institutions to ensure coastal and land use policy and actions are aligned with sustainable practices.			centres/offices will ensure that political changes will have negligible impact on the sustainability of project interventions.	
6	Corruption (at any level) hampers activities and the delivery of outputs and risks project cost escalation or delivery overrun.	Governance	P-2 I-3	The UNDP Country Office will support implementation and provide oversight to minimise the risk of corruption. The overall risk level assessed for this project using UNDP's Partner Capacity Assessment Tool (PCAT) is "low." The PCAT is used in conjunction with the Harmonized Approach to Cash Transfers (HACT), undertaken by an independent third party for every UNDP Programme Cycle (every 4 years), accompanied by regular spot checks and specific project audits (annual in the case of this GCF project). UNDP has undertaken a HACT micro-assessment of the Environmental Protection Agency (EPA) to assess the risks associated with the entity as an Executing Entity (EE) in Liberia. The micro-assessment provides an overall assessment of the EE's programme, financial and operations management policies, procedures, systems and internal controls. In addition to the HACT micro assessment, and as part of this project, UNDP Country Office will undertake the following actions to detect and address any issue related to the risks identified in the project: i) Spot checks will be carried out once every year by an external independent party and by UNDP; ii) NIM Audit – A project audit will be undertaken annually as budgeted for under this project; and iii) Review of annual work-plans to ensure that the planned expenditures are in line with the budgeted project activities.	UNDP

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7	Government officials and local communities do not take ownership of the project's community-based interventions. This could lead to limited commitment by communities to achieve the project outcomes and objectives, as well as limited sustainability of project interventions after the project.	Governance	P-1 I-2	Stakeholder engagement is essential to community ownership and will enable communities to be involved in the planning of the project and the ongoing positive benefits. Target communities will be active participants in the design and implementation of interventions focusing on improving the resilience of climate-sensitive livelihoods and supporting CBNRM. Social marketing and awareness-raising campaigns will be developed to promote community support of the project activities. These strategies will be developed to ensure all community members understand and benefit from the establishment of the community education and innovation centre and the activities associated with them.	UNDP
8	International experts/consultants/developers do not perform according to expectations.	Technical and Operational	I = 3 P = 2	The services of consultants and contractors will be procured as per the guidelines in the UNDP manual. This will ensure that only suitably qualified applicants are contracted for project activities. The UNDP Country Office will have an active role in project oversight ensuring that standards are not compromised in any aspect of the project.	UNDP
9	Limited long-term operations and maintenance of hard interventions to effectively combat coastal erosion.	Technical and Operational	I = 3 P = 2	Initial local consultations concluded that maintenance of hard structure interventions was unlikely to be undertaken regularly or appropriately given budget and capacity constraints of local authorities. The designs of the revetments and groyne were done with this limitation in mind and are intended to function as designed for a minimum of 50 years. Operations and Maintenance costs are estimated to average ~USD 50,000 per year. The ICZMP process is intended to address the institutional responsibilities and budgets for its implementation, including the maintenance of the coastal defence structures. The ICZMP itself and the institutional responsibilities	UNDP

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				associated will be endorsed at the highest level of government as part of the government policy processes.	
10	Extreme ocean weather events/hazards could negatively affect or delay project on-the-ground project interventions.	Technical operational	I = 3 P = 2	The revetment and groyne material will be resilient to most weather and ocean conditions. The final construction plan will incorporate careful planning of activities informed by ocean conditions, weather and climate briefs. Interventions will be scheduled in conjunction with this forecasting information to reduce the potential for extreme weather events to negatively affect the implementation project interventions.	UNDP
11	The potential unintended environmental and dynamic changes to shore and nearshore sediment erosion and deposition as a result of physical coastal interventions.	Technical operational	I = 3 P = 2	An Environmental and Social Assessment Report (Annex H) has been developed to specifically mitigate the potential changes that may result from the implementation of coastal physical interventions.	UNDP
12	Inadequate incorporation of environmental safeguard considerations into the implementation of the project activities as well as its management structures and systems. The scale of pollution in the creeks, estuaries and mangrove swamps around Monrovia	Technical Operational	I = 3 P = 2	An Environmental Management Plan (Annex H) has been designed based on a detailed screening process. This will provide a framework for ensuring that project activities do not have a negative impact on the environment. Project design will include surveys of drainage and pollution sources, focused on identifying curable problems to be addressed by the project, with others raised for longer-term action by the authorities.	UNDP

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	<i>proves too extensive for control by existing agencies.</i>				
13	<i>Project might involve temporary or permanent and full or partial physical displacement</i>	Reputational	P-1 I-2	The project has been designed to avoid physical displacement. Should it prove to be necessary for a small number of people, then a full UNDP- (and IFC-) compliant resettlement approach will be used.	UNDP
14	<i>Project development may infringe on land tenure arrangements in marginal coastal areas.</i>	Governance	P-1 I-2	The Gol has committed to address land tenure arrangements in coastal and tidal areas. This will include a commitment to new legal instruments and enforcement where necessary. Adopting the ICZM approach and developing the ICZMP with a specific section dedicated to coastal land tenure regulation in high-risk areas will serve to mitigate this risk. The above-mentioned component of the ICZMP will be fully aligned with the World Bank-funded land use masterplan for Monrovia currently under development ⁸⁸ . Project design will support government actions by including messages on land tenure in its community awareness raising programmes. Project design will also include support to government agencies through its capacity strengthening programme.	UNDP
15	<i>Construction of coastal protection measures has the unintended consequence of exacerbating existing flood risk in Monrovia</i>	Technical and operational	I = 3 P = 2	The revetment at West Point has been designed to protect the vulnerable shoreline and fix it in place. The revetment will use porous materials, a permeable design and include a drainage system to enable water to drain through the structure into the sea, rather than creating a levee which would contain flood water.	UNDP

⁸⁸ The enforcement of the ICZMP will not be specifically dependent on the wider adaptation policy development processes supported by the World Bank project. Alignment and collaboration will rather ensure that there is no duplication of efforts, and that stakeholders, especially communities, are clear on the two processes.

				<p>During the development of the detailed design and construction plan under Activity 1.1, flood risk will be assessed using a hydrological model of the Mesurado Basin and coastline of Monrovia, to ensure that the revetment will not exacerbate flood risk in Monrovia. During the development of the detailed design, a site-specific hydrological model of West Point will also be used to assess the impact of the revetment on existing localised flooding and mitigate this risk by enabling the design of adequate drainage capacity.</p>	
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Annex M: HACT micro assessment and Partner Capacity Assessment
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Annex N: Additional agreements: N/A

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Annex O: UNDP Project Quality Assurance Report (to be completed in UNDP online corporate planning system, does not need to be attached as separate document)

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Please fill in this Monitoring Plan and attach here also the M&E Plan from the project design stage (i.e. one submitted to the GCF prior to approval by its Board.) These plans will guide monitoring and evaluation at the project level for the duration of project implementation.

Project objective from the results framework	AI.1 Change lives and losses of infrastructure in expected economic assets (US\$) due to the impact of extreme climate-related disasters	Damage to infrastructure and assets vulnerable to climate change impacts at West Point expected to be reduced by USD1.23 million by 2027, compared to climate change impacts at West Point expected to be reduced by USD1.23 million by 2027,	Final	Damage to infrastructure and assets vulnerable to climate change impacts at West Point expected to be reduced by USD1.23 million by 2027, compared to a scenario with no intervention ⁹¹ .	No new settlements in exposed areas that are not protected by wave/storm ingress; assessment of change over time of coastline damage without the project was estimated for 2030 in the Economic Analysis (Annex 3A) 93.	Damage from coastal retreat and storms will only be reduced by the
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⁹⁸ At mid-term, the construction of the revetment will be underway, and it will not yet be an effective coastal protection measure. The change in expected loss from coastal retreat and storms is therefore USD0.

⁹⁹ In a scenario with no intervention, loss and damage of USD7.84 million is expected by 2024. This is calculated as 40% of the expected loss and damage of USD19.6 million by 2030 presented in Annex 3A: Economic Analysis.

⁹⁹ The AE will not report on losses of lives given that no loss of life has been reported in West Point as a result of coastal erosion to date and no loss of life is expected. Coastal erosion in this area is primarily a result of wave action and is therefore incremental rather than sudden. It is, therefore, mostly possible to avoid loss of life.

⁹⁹ Details of these estimates are provided in Annex 3A: Economic Analysis. Avoided losses as a result of the completed West Point revetment have been projected to 2030 (USD19.6 million), 2050 (USD85.1 million) and 2100 (USD154.9 million).

²⁹ The AE will not report on losses of lives given that no loss of life has been reported in West Point as a result of coastal erosion to date and no damage of USD19.6 million by 2030 presented in Annex 3A: Economic Analysis.

¹⁹ In a scenario with no intervention, loss and damage of USD7.84 million is expected by 2024. This is calculated as 40% of the expected loss and in expected loss from coastal retreat and storms is therefore USD0.

PIR cannot be used as a source of verification.⁹⁰ At mid-term, the construction of the revetment will be underway, and it will not yet be an effective coastal protection measure. The change

 by USD1.23 million by |[illegible][illegible][illegible][illegible]

2024 ⁹⁰ by USD by	2008-2018 period ⁹²	transact walks	No new settlements in
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climate-related impacts at West Point in scenarios. as lost as a result of coastal evaluation n) longitudinal climate related

framework	economic assets (US\$)	vulnerable assets	compressed assets	perpetual economic assets	US\$5.23 million	and Consultative Unit,	against ongoing communities	agains
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Project	A1.1 Change	in expected	Damage to	US\$	Damage to	infrastructure	and End	PMU and	Impact	assessment	Rock reversion	will protect
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Monitoring	Indicators	Targets	Indicators and targets	Of source/ context on Methods ¹⁹	Y	data collection	means of verification	risks/assumptions
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Please fill in this Monitoring Plan and attach here also the M&E Plan from the project design stage (i.e. one submitted to the GCF prior to approval by its Board). These plans will guide monitoring and evaluation at the project level throughout the project.

Monitoring		A1.2 Number of males and females benefiting from the adoption of climate-diversified, resilient livelihood options (including fisheries, agriculture, tourism, etc.)	Adoption of solar-powered cold storage facilities Males= 0 Females= 0 Adoption of energy	
Indicators			Mid-term Total beneficiaries with improved climate-resilient livelihoods Beneficiaries from the adoption of climate-diversified, resilient livelihood options The population enumeration will be separated by sex Males= 1,600 Females= 2,400	
Targets	to a scenario no intervention			
Description of indicators and targets				
Data source/Collection Methods ⁹⁹				
Frequency				
Responsible for data collection				
Means of verification				
Risks/Assumptions	revestment after construction is completed. Average damage for houses at West Point as a result of coastal erosion between 2008 and 2018 is assumed to be 50% of the value of the houses, which is valued at USD15,600 per dwelling ⁹⁴ .			

Monitoring	
Indicators	
Targets	<p>efficient cookstove manufacturing Males= 50 Females= 50</p> <p>Decreased exposure of boat-launching sites to dangerous conditions induced by climate change Males= 0 Females= 0</p> <p>Final</p> <p>Total beneficiaries with improved, climate-resilient livelihoods: Males = 4,867 Females = 7,267</p> <p>Mangrove conservation n Males= 4,800 Females= 7,200</p> <p>Adoption of solar-powered cold storage facilities Males= 720 Females= 1,080</p>
Description of indicators and targets	
Data source/Collection Methods	
Frequency	
Responsible for data collection	
Means of verification	
Risks/Assumptions	<p>will benefit from more climate-resilient boat launching sites. These beneficiaries will also benefit from mangrove conservation.</p> <p>Annual training workshops will be held for 150 participants from Year 2 to Year 5. It is assumed that there will be 33% uptake of training on cookstove manufacturing, and at least 50% of the uptake will be among people who are not fisherfolk or fishmongers and therefore are not included in the beneficiaries of mangrove conservation initiatives.</p>

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Monitoring	Indicators	Targets	Description of indicators and targets	Data source/Collection Methods ⁹⁵	Frequency	Responsible for data collection	Means of verification	Risks/Assumptions
	A3.1 Number and value of launching sites and physical assets made resilient to more climate variability and change, considering human benefits	Adoption of energy efficient cookstove manufacturing Males= 125 Females= 125 Decreased exposure of boat launching sites to dangerous conditions induced by climate change Males= 1,800 Females= 0	Number of boat launching sites and area and value of public amenity space made resilient to coastal erosion and wave action	No protected boat launching sites, and zero metres of resilient public amenity space at West Point ⁹⁵ .	Mid-term and End of Term	PMU and Parties Responsible and Consultants (External evaluation)	Impact assessment report compiled by ICZM Unit ⁹⁶	Boat launching sites will be considered resilient if fisherfolk are able to continue to launch boats at the same sites despite increased wave action and storm surges. Public amenity space will be considered resilient if the space is still accessible and suitable for community use despite increased wave
	Final 2 boat launching sites and							

⁹⁵ Fishing boats are currently launched from informal beach sites exposed to coastal erosion and extreme wave action. The beach is also currently used as public amenity space and is exposed to coastal erosion and dangerous waves.

⁹⁶ Sources of data for the impact assessment will include: i) household and affected stakeholder surveys augmented with remote sensing surveys; ii) an on the ground longitudinal survey augmented with transect walks assessing damages and wave/storm ingress; and iii) GIS assessment of change over time of coastline

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Monitoring		Project outcomes: A5.0 Strengthen institutional and regulatory systems for climate-responsive planning and development	Project outcomes: A5.2 Number and level of effective coordination mechanisms	Mid-term 3 coordination Final 3 coordination	Indicator will measure the number of mechanisms for ICZM and level of effective mechanism in place for coordination of ICZM	One coordination mechanism (ICZM Unit) at Level 1 Two coordination mechanisms (ICZM Committee and CSWG) at Level 0	Mid-term and End of Term	PMU and Responsible Parties and Consultants (External evaluation)	Political and institutional stability enable establishment and functioning of ICZM coordination mechanisms
Indicators				1050 m of public amenity space resilient to coastal erosion and wave action, with a value of USD17.22 million					
Targets									Mid-term target is ~35% of the total target for the length of the reverment. Value of resilient boat launching sites and public amenity space calculated from the cost of construction of the reverment and green promenade, including boat launching sites97.
Description of indicators and targets									Resilience of infrastructure, boat launching sites and public amenity space will be increased from reduced exposure to damage-causing waves, SLR and coastal retreat.
Data source/Collection Methods ⁹⁹									
Frequency									
Responsible for data collection									
Means of verification									
Risks/Assumptions									

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⁹⁸ The baseline understanding of climate change and its impacts will be defined from the baseline state-of-knowledge survey

Monitoring			Project outcomes: A7.0: Strengthened adaptive capacity and reduced exposure to climate risks			
Indicators			A7.1 Use by households, vulnerable and public sector services of Fund-supported tools, instruments, and activities to respond to climate change and variability			
Targets	mechanisms for ICZM (ICZM Unit, ICZM Committee and CSWG) at Level 3	Mid-term	10 target government institutions for use by vulnerable households, community businesses and public sector services to respond to climate change and vulnerability	Final 10 target government institutions, at Level 4	Mid-term	10 target government institutions for use by vulnerable households, community businesses and public sector services to respond to climate change and vulnerability
Description of indicators and targets		Number of government departments or agencies using ICZMP (Level 0)				
Data source/Collection Methods ⁸⁹		Mid-term and End of Term	No government agencies using ICZMP (Level 0)			
Frequency		Mid-term and End of Term				
Responsible for data collection		PMU and Responsible Parties and Consultants (External evaluation)				
Means of verification						
Risks/Assumptions			Capacity building activities will lead to behaviour change and uptake of climate-resilient practices	Political will and staff retention CSWG and the ICZM Committee will have the authority to plan updates to regulations and by-laws ICZMP will be used to change management practices		Knowledge and resources accessed via the education and innovation centre will improve climate-resilient practices amongst targeted communities and diversify

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Monitoring	Output 1. Protection of coastal communities and infrastructure at West Point	aggravated erosion caused by sea-level rise and increasingly frequent high-intensity storms.
Indicators	protection at West Point revetment at West Point constructed West Point of community s and during infrastructure project at West Point	Point e at West infrastructure caused by rise and increasingly frequent high-intensity storms.
Targets	constructed at West Point West Point d in metres revetment	Point established at West Point frequent
Description of indicators and targets	revetment structure at West Point West Point d in metres revetment	Point established at West Point frequent
Data source/Collection Methods ²⁰	structure at West Point West Point d in metres revetment	Point established at West Point frequent
Frequency	Mid-term and End of Term	Mid-term and End of Term
Responsible for data collection	Parties and Consultants (External evaluation)	Parties and Consultants (External evaluation)
Means of verification	contractor on construction, events delaying construction, on coastal defence infrastructure re Site survey of coastal protection infrastructure conducted by the ICZM Unit	contractor on construction, events delaying construction, on coastal defence infrastructure re Site survey of coastal protection infrastructure conducted by the ICZM Unit
Risks/Assumptions	Number of dwellings and buildings in area to be protected remains constant or increases. Dwellings will be 'protected' as rock revetment will prevent damage or destruction from coastal erosion and storm surges. No new settlements in exposed areas that are not protected by ICZM Unit	Number of dwellings and buildings in area to be protected remains constant or increases. Dwellings will be 'protected' as rock revetment will prevent damage or destruction from coastal erosion and storm surges. No new settlements in exposed areas that are not protected by ICZM Unit

Monitoring	Project Outcomes	Output 2: Institutional capacity building and policy support for the integrated Coastal Zone Management (ICZM) across Liberia.	Change in how ICZM is integrated into roles and responsibilities of government staff involved in coastal zone management	Mid-term	This indicator for ICZM implementation will measure the integration of ICZM into the roles and responsibilities of all relevant staff and the number of staff contributing to the implementation of ICZM	Final ICZM implementation is formally integrated into the job descriptions of relevant staff	At least 40 staff members contributing to ICZM implementation	Mid-term	No change in income levels for income measure levels	Final income levels change for members using the baseline in income compared	Output 3: Protecting and strengthening gender-sensitive livelihoods to build local climate
Indicators	Indicators										
Targets	Targets										
Description of indicators and targets	Description of indicators and targets										
Data source/Collection Methods	Data source/Collection Methods										
Frequency	Frequency										
Responsible for data collection	Responsible for data collection										
Means of verification	Means of verification										
Risks/Assumptions	Risks/Assumptions										

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¹⁰⁰ The baseline will be determined under Activity 3.3 as part of the baseline data collection on climate-resilient livelihoods.

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Monitoring	Indicators	Targets	Description of indicators and targets	Data source/Collection Methods ¹⁰¹	Frequency	Responsible for data collection	Means of verification	Risks/Assumptions
	mangrove ecosystems	ecosystems reduced by 10% compared to the baseline in area covered by mangrove management agreement	Final Degradation of mangrove ecosystems reduced by 30% compared to the baseline in area covered by mangrove management agreement	decreased rate of mangrove activities for livelihood decisions about communities		and Consultants (External evaluation)	Annual state-of-knowledge assessments compiled by CSC	result in a measurable decrease in mangrove degradation.
	Percentage of fisherfolk and fishmongers in West Point using cold storage facilities	0% of fisherfolk and fishmongers at West Point using project-developed cold storage facilities	Mid-term Indicators will measure the percentage of fisherfolk and fishmongers who have started using the cold storage facilities	TBD ¹⁰¹	Mid-term and End of Term	PMU and Responsible Parties and Consultants (External evaluation)	Impact assessment reports compiled by IZM Unit	Cold storage facilities will open access to refrigerated fish markets for fisherfolk and reduce spoilage by preserving fish for longer
	Point at West fishmongers and fisherfolk making use of cold storage facilities	Final 25% of cold storage facilities	Mid-term Indicators will measure the percentage of fisherfolk and fishmongers at West Point using project-developed cold storage facilities				Impact assessment of mangrove extent compiled by IZM Unit. Baseline established at start of project ¹⁰²	

¹⁰¹ The baseline will be determined under Activity 3.3 as part of the baseline mangrove spatial analysis.

¹⁰² The extent of mangrove coverage in the Mesurado Wetland of Monrovia is ~2320 ha.

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