



Concept Paper

Project Number: 46421
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Proposed Loan and Administration of Grant
INO: Coral Reef Rehabilitation and Management:
Coral Triangle Initiative Project
(Cofinanced by the Global Environment Facility)

CURRENCY EQUIVALENTS

(as of 7 August 2013)

Currency Unit	–	rupiah (Rp)
Rp1.00	=	\$.000097
\$1.00	=	Rp10,285

ABBREVIATIONS

ADB	–	Asian Development Bank
BAPPENAS	–	Badan Perencanaan Pembangunan Nasional (National Development Planning Agency)
CDD	–	community driven development
COREMAP	–	Coral Reef Rehabilitation and Management
CTI	–	Coral Triangle Initiative
GDP	–	gross domestic product
GEF	–	Global Environment Facility
GOI	–	Government of Indonesia
ha	–	Hectare
MMAF	–	Ministry of Marine Affairs and Fisheries
MPA	–	marine protected area

NOTE

In this report, "\$" refers to US dollars

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I. THE PROJECT

A. Rationale

1. The Coral Reef Rehabilitation and Management: Coral Triangle Initiative Project (COREMAP–CTI, the Project)¹ aims to manage coral reef resources, associated ecosystems and biodiversity in a sustainable manner for increasing the incomes of coastal communities. Poverty, pollution and illegal fishing resulted in the degradation of 70% of Indonesian coral reefs. To address these root causes, the Government of Indonesia has taken a three-phased incremental approach with interventions focusing on: (i) institutional capacity building; (ii) development of models for marine protected areas (MPAs); and (iii) reduction of coastal poverty through income generating infrastructure and sustainable alternative livelihoods. The Project will be cofinanced by Global Environment Facility (GEF) for biodiversity protection and synergize with a similar World Bank-financed project in eastern Indonesia. The Project will follow a sector financing modality² with a community driven development (CDD) approach.

2. Indonesian President Susilo Bambang Yudhohono, during the World Ocean Conference in 2009, first declared that Indonesia will achieve 20 million ha of MPAs by 2020. This target is consistent with Ministry of Marine Affairs and Fisheries (MMAF) long term strategic plan 2025 and Government's official Millennium Development Goals (MDG) report. The Project's objectives are integrated in the Government's National Plan of Action (NPOA) for Coral Triangle Initiative (CTI).³

3. The objective of COREMAP Phase I (1998–2004, \$7 million) was to pilot a viable framework for a national coral reef management system in Indonesia.⁴ The Project successfully pilot-tested community-based coral reef management and surveillance at one site in Sumatra, and conducted a feasibility study to design the investment phase, COREMAP Phase II.⁵ Phase I generated understanding and lessons learned through testing community-based coral reef management interventions to be up-scaled and implemented in Phase II of the program.

4. COREMAP Phase II (2004–2011, \$36 million) implemented a holistic community-based approach for coral reef management interventions in eight districts in Indonesia.⁶ Phase II successfully (i) strengthened national institutions and policies; (ii) improved public awareness; (iii) established coral reef monitoring networks; and (iv) initiated alternative livelihoods and social infrastructure facilities.⁷ The outcome of improved capacity for coral reef management was substantially achieved. However, although MPA management support was initiated in Phase II, effectiveness and sustainability of alternative livelihoods remain a work in progress and is critical for establishing effective MPA management.

¹ The Government requested to change the Project title to Coral Reef Rehabilitation and Management: Coral Triangle Initiative (COREMAP-CTI) from COREMAP3-CTI Support Project, as reflected in ADB. 2012. *Country Operations Business Plan: Indonesia, 2013–2014*. Manila.

² (i) The borrowing DMC has a sector development plan to meet the priority development needs of the sector; (ii) the borrowing DMC has the institutional capacity to implement the sector development plan; and (iii) the policies applicable to the sector are appropriate and will be improved, if warranted.

³ CTI is a multilateral partnership formed in 2007 among Indonesia, Malaysia, Papua New Guinea, Philippines, Solomon Islands and Timor Leste to address the urgent threats facing the coastal and marine resources of one of the most biologically diverse and ecologically rich regions on earth.

⁴ ADB. 1998. *Report and Recommendation of the President to the Board of Directors: Proposed Technical Assistance Loan and Grant to Indonesia for the Coral Reef Rehabilitation and Management Project*. Manila. (Loan 1613-INO).

⁵ ADB. 2005. *Completion Report: Coral Rehabilitation and Management Project in Indonesia*. Manila.

⁶ ADB. 2002. *Report and Recommendation of the President to the Board of Directors: Proposed Loan to Indonesia for the Coral Reef Rehabilitation and Management Project Phase II*. Manila. (Loan 1962-INO).

⁷ ADB. 2012. *Completion Report: Coral Rehabilitation and Management Project Phase II in Indonesia*. Manila.

5. The proposed Project will complete MPA development initiated during Phase II into 10 effective MPA models. One salient approach to develop these models will be through enabling MPA institutions and infrastructure to facilitate private sector participation that can be replicated as “effective MPA models” in Indonesia.⁸ The Project, building on Phase II experience, will create sustainable full value chain livelihood models. Community-based coral reef management boards set up in Phase II will be institutionalized, by ensuring policy and regulatory alignment of these community boards within local government legal and MPA institutional systems.

6. The selection of representative subprojects as part of the sector financing modality will be based on the following key criteria: the subproject (i) contributes directly to environmentally sound non-consumptive resource utilization; (ii) supports development of sustainable fisheries; (iii) contributes to fostering alternative livelihoods; and (iv) enhances effectiveness, governance, and financial sustainability of co-managed MPAs. The subproject selection criteria will be strengthened by including economic and financial feasibility thresholds.

7. The Project is fully aligned with Indonesia’s Country Partnership Strategy 2012–2014 with regard to its two strategic pillars of inclusive growth and environmental sustainability.⁹ The Project is included in the Government’s Green Book for 2013, representing the primary environmental investment Project for this year.

8. The ADB and World Bank project completion reports for Phase II described several lessons learned which will be incorporated in the COREMAP-CTI Project design.¹⁰ These include the need for (i) commitment and support from local government bodies; (ii) integration of value chain analysis of livelihood activities in the project design; and (iii) effective mainstreaming of gender concerns.

B. Impact, Outcome, and Outputs

9. The impact of the Project will be sustainable management of coral reef ecosystems in selected project areas. The outcome of the Project will be enhanced coral reef ecosystems management capacity in target MPAs.

10. The Project will have four outputs:

- (i) Output 1: coral reef management and institutions strengthened. It will focus on strengthening capacities developed under COREMAP Phase II to institutionalize community-based coral reef management initiatives within existing government regulatory systems and institutions.
- (ii) Output 2: ecosystem-based resource management developed. It will strengthen MPA management effectiveness and biodiversity conservation.
- (iii) Output 3: sustainable marine-based livelihoods improved. It will promote sustainable livelihoods and income-generating infrastructure.
- (iv) Output 4: project management. It will implement the project interventions, and also institutionalize national coral reef management arrangements.

⁸ Indonesia Ministry of Marine Affairs and Fisheries. 2012. *Decree of the Director General of Marine, Coasts and Small Islands Number Kep.44/KP3K/2012 Concerning Technical Guidelines for Evaluating the Management Effectiveness of Aquatic, Coasts and Small Islands Conservation Areas (E-KKP3K)*. Jakarta.

⁹ The Project is embedded in the regional Coral Triangle Initiative on Coral Reefs, Fisheries, and Food Security (CTI-CFF) program with an overall allocation estimated at \$300 million. (<http://www.coraltriangleinitiative.org>).

¹⁰ ADB. 2012. *Completion Report: Coral Rehabilitation and Management Project Phase II in Indonesia*. Manila; World Bank. 2012. *Implementation Completion and Results Framework for the Coral Reef Rehabilitation and Management Project (Phase II)*. Washington.

11. The Project will be implemented in seven MPAs in COREMAP Phase II districts. Three national MPAs will be added: Anambas, Pulau Pieh, and Gili Matra.¹¹

C. Investment and Financing Plans

12. The Project is estimated to cost \$64 million. ADB proposes to provide \$50 million from ordinary capital resources (OCR) and the Government will provide \$6 million as counterpart financing. The Global Environment Facility (GEF) will provide grant cofinancing equivalent to \$8 million to be administered by ADB, for biodiversity conservation. The tentative financing plan is summarized in Table 1.

Table 1: Tentative Financing Plan

Source	Amount (\$ million)	Share of Total (%)
Asian Development Bank (OCR)	50.00	78.1
Global Environment Facility	8.00	12.5
Government	6.00	9.4
Total	64.00	100.00

Source: Ministry of Marine Affairs and Fisheries, Government of Indonesia. 2012. *Design Document for Criteria of Readiness for COREMAP-CTI Activities*. Jakarta.

D. Indicative Implementation Arrangements

13. The Ministry of Marine Affairs and Fisheries (MMAF) will serve as the executing agency. The Directorate of Area and Fish Species Conservation of DGMCSI (DAFSC-DGMCSI), the Indonesian Institute of Science (LIPI), Directorate General of Capture Fisheries (DGCF), will serve as the national implementing units. The provincial government will play a facilitation role, and the district government will implement the Project through its marine and fisheries office. A consulting firm and individual consultants will support implementation. Advance contracting will be considered. Goods and works are expected to be procured through NCB, shopping, direct purchase and community contracting. ADB's Guidelines on the Use of Consultants (2013, as amended from time to time) and Procurement Guidelines (2013, as amended from time to time) will be used. The Project will be implemented over a period of 5 years, from 2013 to 2018.

II. DUE DILIGENCE REQUIRED

14. **Technical.** The Project's infrastructure development should be duly supervised during the design and construction period in order to assure quality, and use construction techniques that keep operation and maintenance costs within local budgetary norms.

15. **Economic and Financial.** The overall viability of the Project will be assessed based on a benchmark of at least 12% economic internal rate of return. The viability without the GEF cofinancing will also be established.

16. **Governance.** An institutional capacity assessment of the executing agency and implementing agencies will be conducted to validate government's implementation capacity. This will build on the lessons learned and evaluation of Phase II of the Project.

17. **Poverty and Social.** The Project is categorized as effective gender mainstreaming as the Project will ensure that women will benefit from the project activities and participate actively in designing and implementing community infrastructures and livelihood activities through

¹¹ The focus on the three national MPAs is to establish replicable models for national MPAs, two of which are connected to district MPAs established in COREMAP Phase II and one in eastern side inside the coral triangle area.

community-driven development (CDD) approach. COREMAP-CTI will strengthen capacities of key stakeholders for decentralized co-management of MPAs through a CDD approach — communities will have a role in the selection of subprojects¹² and participate in the development of coral reef management plans and policies.¹³

18. **Safeguards.** The Project is categorized as B for Involuntary Resettlement and B for Indigenous Peoples. The Project will cover villages that will fund small community infrastructure with no physical displacement and only community access issues with no impacts are expected on a site specific basis and affected indigenous and vulnerable people will be compensated accordingly. The Project is categorized as B for Environment as no major infrastructures are planned that may cause significant impact.

III. PROCESSING PLAN

A. Risk Categorization

19. The Project is categorized as “low risk” because the (i) loan amount is less than \$200 million; (ii) ADB has a sound record of experience in the Agriculture, Natural Resources and Environment Sector in Indonesia; (iii) the performance of the executing agency was judged satisfactory in ADB’s most recent three project completion reports; and (iv) safeguard categorizations are initially assessed as B for environment, involuntary resettlement, and indigenous peoples.

B. Resource Requirements

20. The proposed Project will use an estimated 11 person-months (p-m) of international and 28 p-m of national consultants through RETA 7813 (T3 package) for the feasibility study and an estimated 6 p-m of international and 4 p-m of national consultants from RETA 7813 GEF Package to prepare the GEF CEO endorsement document (please see appendix 5 and 6).

C. Processing Schedule

Table 2: Proposed Processing Schedule

Milestones	Expected Completion Date
Pre-fact-finding Mission ^a	15–29 July 2013
Concept Clearance	7 August 2013
Circulation of Draft RRP	8 August 2013
Staff Review Meeting	26 August 2013
Loan Negotiations	23–24 September 2013
Board Circulation	20 November 2013
Board Approval	13 December 2013

^a To be upgraded to Fact-Finding Mission.

Source: ADB and Government staff estimates.

IV. KEY ISSUES

21. The Project is expected to be viable without GEF cofinancing. The risks of delinking can be minimized as DMF activities 2.7 to 2.14 and 3.7 are specifically separated from the loan project activities. If there is a need to delink the GEF component from the loan project, then it will be processed separately through additional financing.

¹² Subprojects within, but not limited to the following sectors/concerns: infrastructure, livelihoods, and biodiversity management.

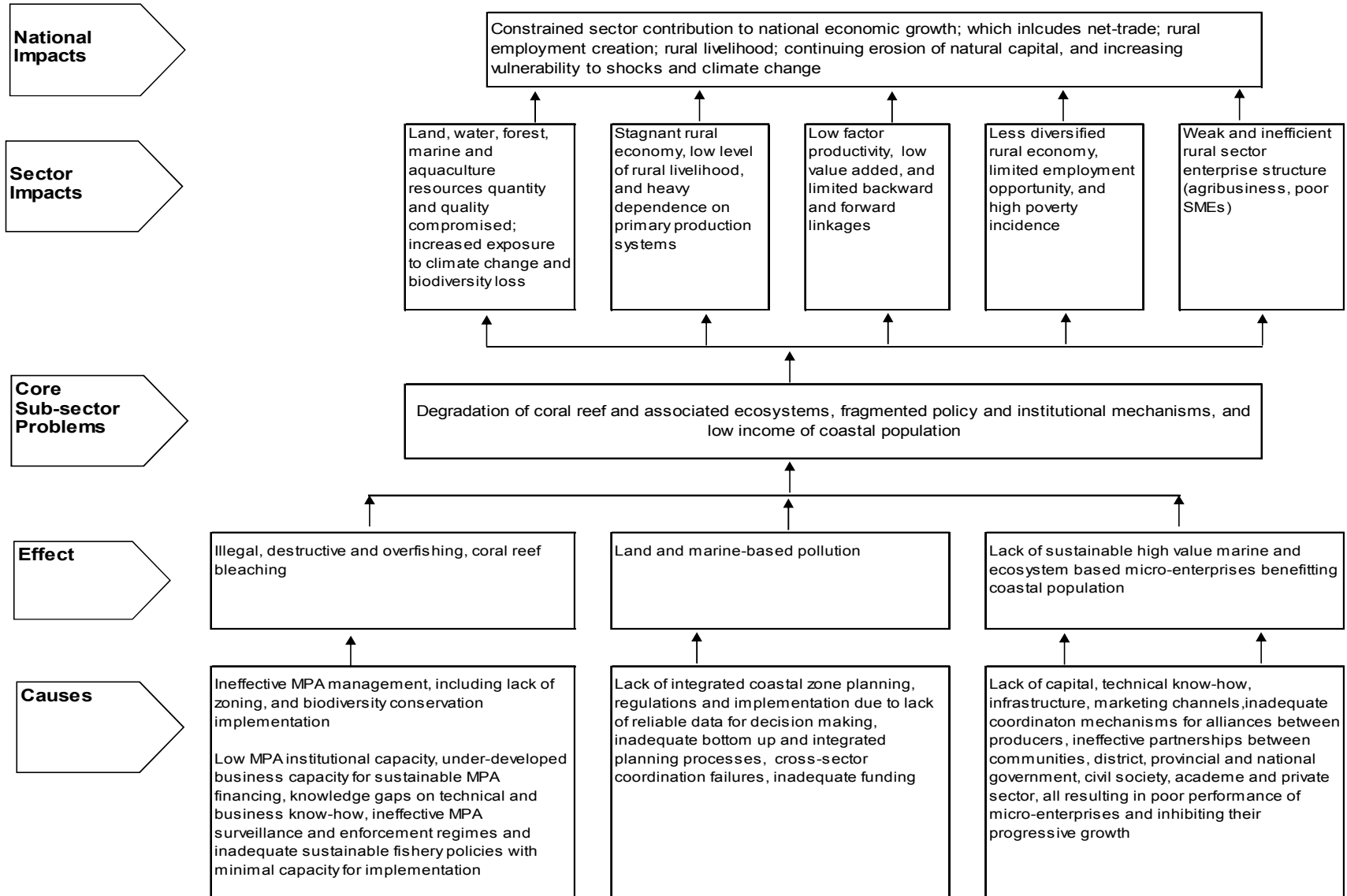
¹³ Examples are integrated coastal management, MPA management and zoning plans, integrated coastal management plans, sustainable fisheries regulations, etc.

BASIC PROJECT INFORMATION

Aspects	Arrangements
Modality	Sector Loan
Financing	ADB (OCR): \$50 million; Global Environment Facility (GEF) Grant: \$8 million
COBP/ RCOBP	Indonesia: Country Operations Business Plan, 2013-2014
Classification	<p>Sector (subsectors): Agriculture and Natural Resources (Water Based Natural Resources Management)</p> <p>Themes (subthemes): (i) Environmental Sustainability (natural resources conservation); (ii) Economic Growth (widening access to markets and economic opportunities); (iii) Capacity Development (institutional development)</p> <p>Climate change: Adaptation</p> <p>Targeting classification: General Intervention (GI)</p> <p>Gender mainstreaming category: Effective Gender Mainstreaming</p> <p>Location impact: Rural (high), Urban (low)</p> <p>Safeguards: Environment (B), Involuntary Resettlement (B), Indigenous Peoples (B)</p>
Risk categorization	Low Risk
Partnership	\$8 million grant from GEF
Use of a PBA	PBA will not be used.
Parallel PIU	A parallel PIU outside of the normal institutional structure is not envisaged
Department and division	Southeast Asia Department, Environment, Natural Resources and Agriculture Division
Mission leader and members	<p>M. N. Islam, Water Resources Specialist, SEER</p> <p>I. Ahsan, Counsel, OGC</p> <p>M. Ahmed, Principal Climate Change Specialist, SAOD-PR</p> <p>S. Aman-Wooster, Senior Social Development Specialist (Safeguards), SEER</p> <p>S. Ancha, Principal Climate Change Specialist, SEER</p> <p>T. Dang, Young Professional, SEER</p> <p>B. Giap, Natural Resources and Agriculture Economist, SEER</p> <p>M. Ladia, Associate Safeguards Officer (Resettlement), SERD</p> <p>N. Mardiniah, Safeguards Officer (Resettlement), IRM</p> <p>A. Musa, Financial Management Specialist, SEOD</p> <p>E. Quincieu, Water Resources Specialist, SEER</p> <p>P. Ramachandran, Senior Environment Specialist, SEER</p> <p>C. Razon, Project Analyst, SEER</p> <p>L. Reksoatmodjo, Financial Control Officer, IRM</p> <p>K. Ryu, Unit Head, Project Administration, SEER</p> <p>O. Suyatmo, Procurement Officer, IRM</p> <p>S. Teoh, Natural Resources Specialist, SEER</p> <p>P. Wardani, Senior Project Officer, IRM</p>

ADB = Asian Development Bank, ADF = Asian Development Fund, COBP = country operations business plan, DMC = Designated Monitoring Committee, PBA = programmatic based approach, PIU = project implementation unit, RCOBP = regional cooperation operations business plan, TA = technical assistance.

PROBLEM TREE



DESIGN AND MONITORING FRAMEWORK

Design Summary	Performance Targets and Indicators with Baselines	Data Sources and Reporting Mechanisms	Assumptions and Risks
Impact Sustainable management of coral reef ecosystems in the project area	By 2022: Live coral cover increases or remains stable in project area compared to baseline coral cover data collected during 2010-2011 in project area (baseline: Bintan, 65% in 2010; Natuna, 51% in 2010; Tapanulli Tengah, 44% in 2010; Nias, 28% in 2010; Mentawai, 25% in 2011; Batam, 60% in 2010) Household incomes of project beneficiaries increase by 10-15%, 3 years after project completion at target sites (baseline household income of beneficiaries at project sites will be established in 2014)	Ecological surveys of CRITC MMAF/MOE and State of the Coral Triangle Reports Project Socioeconomic surveys Government's Annual Statistical Publication	Assumption Government and community will for MPA model replication exists Risks Impacts of climate change exceed benefits of project outputs Natural events (earthquake, tsunami, bleaching, etc.) impact coral ecosystems
Outcome Enhanced coral reef ecosystems management capacity in target MPAs	By 2018: MPA Management effectiveness for 6.85 million ha increased at least one level up in their status based on Government of Indonesia's MPA effectiveness criteria (baseline in 2013: red and yellow; target: green to blue) Approved MPA operational management plans for 10 MPA models (baseline in 2013: 0; target in 2018: 10) Operational MPAs with funding from all sources (baseline in 2013: \$11 million; target in 2018: \$20 million)	MMAF/MOE and State of the Coral Triangle Reports MPA managers' effectiveness score card assessment	Assumption Strong political will and collaboration amongst stakeholders exist Risks Conflicts amongst project stakeholders exist Lack of political will at the local level
Outputs 1. Coral reef management and institutions strengthened	By 2018: Number of community development extension workers deployed. (baseline in 2013: 0; target: 20) Number of national and local laws, decrees and regulations related to MPA management (baseline in 2013: 0; target: 50) Number of DGMCSI, DGCF, and LIPI staff obtaining postgraduate qualifications (baseline in 2013: 0; target: 47)	Project surveys PPMS reports Annual reports of MMAF, LIPI	Assumptions District governments internalize extension services District leaders allocate police time to marine monitoring Risk Long time needed to codify new functions
2. Ecosystem-based resource management developed	By 2018: Number of district and MPA spatial plans prepared embedding integrated coastal zone management (ICZM) and projected climate change	Project surveys PPMS reports	Assumption MPA evaluations are implemented regularly and consistently

Design Summary	Performance Targets and Indicators with Baselines	Data Sources and Reporting Mechanisms	Assumptions and Risks
	<p>scenarios (baseline in 2013: 0; target: 10)</p> <p>Species management plans for threatened and endangered species piloted in selected MPAs (baseline in 2013: 0; target: 6)</p>		<p>Risk</p> <p>District regulation (PERDA) and MPA development are delayed than project cycle</p>
3. Sustainable marine-based livelihoods improved	<p>By 2018:</p> <p>Number of eco-friendly infrastructure facilities installed (baseline: 0 in 2013; target: 100)</p> <p>Number of households provided with livelihood financial and/or input assistance (baseline in 2013: 0; target: 2,000)</p> <p>Number of value chain and market links established (baseline in 2013: 0; target: 10)</p> <p>At least 30% of participants for marine based livelihood training are women</p>	<p>Project surveys</p> <p>PPMS reports</p>	<p>Assumption</p> <p>Natural causes and climate impacts do not result in significant failures in livelihood models.</p> <p>Risk</p> <p>Enterprises launch too late to create benefits in-time</p>
4. Project management	<p>By 2018:</p> <p>Operational Project Performance Management System</p> <p>Quarterly project monitoring and evaluation reports</p>	<p>PPMS reports</p>	<p>Assumption</p> <p>Qualified and adequate staff provided for the project</p> <p>Risk</p> <p>Frequent changes in project staff</p>

Activities with Milestones	Inputs	
1. Coral reef management and institutions strengthened 1.1. Train national and district community extension workers. (Q3, 2014). 1.2. Upgrade community information centers. (Q4, 2014). 1.3. Conduct public awareness in target areas and outside the project sites for replication. (Q2, 2014 – Q3, 2018). 1.4. Conduct teacher training on coral reef management local content curriculum, decentralized coral reef monitoring and climate change adaptation training. (Q2, 2014 – Q4, 2017). 1.5. Conduct CRITC-LIPI and supervise regular coral reef health and associated ecosystem and social-economic monitoring. (Q2, 2014 – Q3, 2018). 1.6. Decentralize through training/certification CRITC marine ecology monitoring data collection nationwide. (Q2, 2014 – Q3, 2018). 1.7. Strengthen LIPI’s CRMIS database. (Q2, 2015 – Q3, 2017). 1.8. Provide MPA monitoring and surveillance equipment and infrastructure. (Q4, 2014 – Q4, 2015). 1.9. Implement coordinated district and community monitoring and surveillance in MPAs. (Q2, 2015 – Q3, 2018). 1.10. Provide Master’s education for MMAF and LIPI staff. (Q2, 2015 – Q3, 2018). 1.11. Implement MMAF Human Resources Program. (Q2, 2015 – Q3, 2018). 1.12. Conduct training for coastal population through fisheries schools on business, food safety, etc. (Q2, 2015 – Q3, 2018). 1.13. Create a learning network among COREMAP communities, villages, districts and supporting institutions. (Q2, 2015 – Q3, 2018).	ADB: \$50.00 million	
	Item	Amount (\$ million)
	Civil Works	20.671
	Vehicle, equipment	2.855
	Materials	0.050
	Training and workshops	10.386
	Surveys and Studies	10.413
	Consulting services	4.560
	Support for alternative livelihoods	1.065

Activities with Milestones	Inputs
2. Ecosystem-based resource management developed	Government: \$6.0 million
2.1. Finalize District Coastal Spatial Plans. (Q3, 2014 – Q3, 2018).	Civil Works 0.054
2.2. Develop coastal regulations on community fisheries practices. (Q3, 2014 – Q3, 2018).	Vehicles 0.110
2.3. Provide ICZM training (climate change adaptation, EAFM, etc.). (Q2, 2015 – Q2, 2018).	Materials 0.050
2.4. Complete MPA Minisiterial approval and boundary marking. (Q3, 2014 – Q4, 2015).	Training and Workshops 0.085
2.5. Establish MPA management board and technical units. (Q2, 2014 – Q4, 2014).	Surveys and studies 1.440
2.6. Prepare MPA management plans, zoning, sustainable fisheries regulations, and surveillance program. (Q3, 2014 – Q3, 2015).	Support for alternative livelihoods 0.699
2.7. Pilot marine ecosystem valuation methodology in 3 national MPAs. (GEF). (Q4, 2014 – Q4, 2015).	Office Operations and Staff 3.412
2.8. Strengthen MPA financial management capacity. (GEF). (Q4, 2014 – Q4, 2016).	Land Acquisition and Resettlement 0.150
2.9. Pilot PES in at least 3 MPA sites. (GEF). (Q4, 2014 – Q4, 2016).	
2.10. Mainstream biodiversity into MPA and coastal management plans, policies and regulations. (GEF). (Q3, 2014 – Q3, 2018).	
2.11. Conduct studies on best practices and tools of ecosystem management and MPA networks. (GEF). (Q3, 2014 – Q3, 2016).	
2.12. Conduct studies on the status of six (6) priority marine threatened species and selected coral fishes. (GEF). (Q2, 2014 – Q4, 2015).	
2.13. Develop and implement management plans for six (6) threatened species and selected coral fishes. (GEF). (Q2, 2015 – Q4, 2018).	
2.14. Assess district fisheries management performance using and applying EAFM indicators. (GEF). (Q2, 2015 – Q4, 2018).	
3. Sustainable marine-based livelihoods improved	GEF: \$8.0 million
3.1. Conduct business training for district and economic enterprise staff. (Q2, 2014 – Q4, 2015).	Materials 0.305
3.2. Identify and fund national, district, and village MPA infrastructure (e.g. village roads, jetties, ranger posts, sanitation, water supply, homestays, mooring buoys). (Q2, 2014 – Q4, 2018).	Consulting services 0.500
3.3. Improved value chain and market links for uptake of primary aquaculture produce from communities (Q3, 2014 – Q3, 2016).	Training and workshops 0.370
3.4. Conduct feasibility studies of potential enterprises (e.g. grouper, naolean wrass, catfish, sea bass, seaweed, etc.) (Q3, 2014 – Q3, 2015).	Studies and surveys 5.965
3.5. Develop model enterprises in each target village. (Q3, 2014 – Q3, 2016).	Support for alternative livelihoods 0.860
3.6. Conduct business training to cooperatives and micro-enterprises. (Q2, 2015 – Q3, 2018).	
3.7. Conduct conservation based livelihood training. (GEF). (Q2, 2015 – Q3, 2018).	
4. Project management	
4.1. Monitor compliance. (Q2, 2014 – Q3, 2018).	
4.2. Coordinate project activities. (Q1, 2014 – Q4, 2018).	

ADB = Asian Development Bank; COREMAP = coral reef rehabilitation and management; CREEL = coral reef fish biomass, biodiversity and fishing effort; CRITC = coral reef information and training center; CRMIS = Coral Reef Management Information System; DGCF = Directorate General of Capture Fisheries; DGMCSI = Directorate General of Marine, Coasts and Small Islands; EAFM = ecosystem approach to fisheries management; GEF = Global Environment Facility; ICZM = integrated coastal zone management; MCS = monitoring, control and surveillance; LIPI = Lembaga Ilmu Pengetahuan Indonesia (Indonesian Institute of Sciences); MMAF = Ministry of Marine Affairs and Fisheries; MOE = Ministry of Environment; MOF = Ministry of Finance; MPA = marine protected area; NGO = nongovernment organization; NOAA = United States National Oceanic and Atmospheric Administration; PES = payment for environmental services; PPMS = project performance management system; SPP = sea partnership program.

Source: Asian Development Bank staff estimates.

INITIAL POVERTY AND SOCIAL ANALYSIS

Country:	Indonesia	Project Title:	Coral Reef Rehabilitation and Management: Coral Triangle Initiative Project
Lending/Financing Modality:	Sector Loan	Department/ Division:	Southeast Asia Department/ Environment, Natural Resources and Agriculture Division

I. POVERTY IMPACT AND SOCIAL DIMENSIONS

A. Links to the National Poverty Reduction Strategy and Country Partnership Strategy

The Government's current target is to reduce poverty rates to 8-10% (from 12% in 2012) by 2014. More than 53% of coastal families are living below the poverty line and they depend on fisheries related livelihoods supported by coral reef ecosystems. COREMAP-CTI (the Project) is consistent with the current Indonesian Medium-term National Development Plan for 2010-2014 wherein natural resources and environment are identified as key sector priorities in addressing poverty and inclusive growth. The Project will align with the goals of CTI regional plan of action (RPOA) and build synergy with Indonesia's National Plan of Action for the CTI. The project will contribute to meeting MMAF's target of effectively managing 4.5 million hectares by 2014 and 20 million hectares by 2020. The Project is aligned with Indonesia's CPS 2012-2014 in two strategic pillars of inclusive growth and environmental sustainability.

B. Targeting Classification

☒ General Intervention ☐ Individual or Household (TI-H) ☐ Geographic (TI-G) ☐ Non-Income MDGs (TI-M1, M2, etc.)

The Project will directly and indirectly increase the skills of fisher communities in protecting the coastal ecosystem (reefs, mangroves, etc.) and improve their livelihoods in targeted districts by generating employment opportunities for participating communities. Sustainable livelihood options will increase incomes of community members who rely on seasonal employment and will reduce pressures on the coastal ecosystems upon which these communities depend. Collaboration and learning networks facilitated by the project will increase communities' awareness in protecting their coastal resources and strengthening collaboration between local government and communities, which will contribute to further skill development and small business development. Further, the addition of selected infrastructure will provide households improved facilities to meet their basic needs for production of goods and services, while increasing the communities' resilience to natural hazards and environmental threats, making the poor less vulnerable.

C. Poverty and Social Analysis

1. Key issues and potential beneficiaries. The primary beneficiaries are coastal and marine resources-dependent households and also coastal communities in general; particularly those residing in districts and secondary cities in North Sumatra, West Sumatra and Riau Islands Province. The Project will develop increased control of communities (through zoning, monitoring, enforcement) regarding access to coral reefs and conservation areas, resulting in more sustainable fisheries and improved quality of the coastal resources. This will benefit the poor who are disproportionately impacted by the damage of coral reef ecosystems. The poor who are socially excluded are normally not involved in any decisions related to zoning and law enforcement. The poor fishers' households need alternative livelihoods as their current incomes are seasonal and they have limited skills and capital to engage in alternative livelihoods. The Project will facilitate involvement of women in these activities.

2. Impact channels and expected systemic changes. The improvement in natural resources governance and more involvement of poor coastal communities in zoning and law enforcement, better access to livelihood skills improvement, and awareness raising in conservation will increase possibilities for the poor communities to have improved livelihoods and employment. Local government's awareness and willingness to involve poor communities in coastal areas protection and their facilitation in accessing capital, marketing and other skills will be a key driver of change in the project area.

3. Focus of (and resources allocated for) due diligence. Social economic analysis and potential of sustainable alternative livelihoods for coastal communities in selected districts need to be conducted and information used appropriately in designing the project components. Meaningful consultation with local government and representatives of coastal communities need to be done and recorded. Community and income generation specialist(s) with experience in coastal areas need to be engaged.

4. Specific analysis for policy-based lending. Not applicable.

II. GENDER AND DEVELOPMENT

1. Key gender issues: Women are involved in selling the fish and post-harvest handling but their skills are limited. Employment opportunities for women are inadequate. Currently, they are not involved in marine protected area (MPA) and zoning issues. Awareness of healthy ecosystem concepts needs to be strengthened. Employment opportunities, access to capital and skills in post-harvest, packaging and other alternative livelihoods are very important for women in the project area. As their access to education/training and health/sanitation facilities is limited, the Project will need to address these issues.

2. Does the proposed project or program have the potential to make a contribution to the promotion of gender equity and/or empowerment of women by providing women's access to and use of opportunities, services, resources, assets, and participation in decision making?

☒ Yes ☐ No

Access to skills, capital and other social services will increase income opportunities for women and their families. Their participation and leadership in various committees will improve their awareness, empowerment and their contributions in coastal areas conservation as well as reduce their vulnerability. Skills training related to coastal resources management and protection has to be prioritized for women.

3. Could the proposed project have an adverse impact on women and/or girls or widen gender inequality?

☐ Yes ☒ No

Development of economic conditions and technical skills will be developed through awareness on conservation, business training, leadership positions in coral reef community boards, all of which will reduce gender inequality and will improve women's empowerment.

4. Indicate the intended gender mainstreaming category:

☐ GEN (gender equity theme) ☒ EGM (effective gender mainstreaming)
☐ SGE (some gender elements) ☐ NGE (no gender elements)

III. PARTICIPATION AND EMPOWERMENT

1. Main stakeholders and how they will participate: In the project design potential stakeholders of the Project are: coastal and marine resources-dependent households, coastal communities in general; fisher groups/associations, schools; universities; local government unit/agencies; local investors and local enterprises; collective land owners who may be impacted during construction of specific infrastructure. Participatory approach will be applied accordingly.

2. How can the project contribute to engaging and empowering stakeholders and beneficiaries, particularly the poor, vulnerable and excluded groups?

Through meaningful consultation and facilitating their access to knowledge/skills of coastal conservation and alternative livelihoods, involving them in planning, potential employment opportunities and facilitating access to other networks and service providers. The criteria and priorities for infrastructure projects should also be discussed with women beneficiaries.

3. What are the key, active, and relevant civil society organizations in the project area? What is the level of civil society organization participation in the project design? ☒ Information generation and sharing ☒ Consultation
☒ Collaboration ☒ Partnership

Community services organizations (CSOs) and community-based organizations (CBOs) working in coastal areas need to be listed, especially those related to community tourism, conservation, skills and income generating activities.

4. Are there issues during project design for which participation of the poor and excluded is important? What are they and how shall they be addressed? ☒ Yes ☐ No Please explain.

The poor might not have enough information about the project, whom to contact and how to be involved. CSOs and CBOs will need to participate especially in community development-related activities, and group formation and strengthening, including promoting gender equality.

IV. SOCIAL SAFEGUARDS

A. Involuntary Resettlement Category ☐ A ☒ B ☐ C ☐ FI

1. Does the project have the potential to involve involuntary land acquisition resulting in physical and economic displacement? ☐ Yes ☒ No

Program will allocate about 25% of budget for basic rural and economic infrastructure. Land acquisition and/or resettlement will be avoided if possible. If there are negative impacts or potential land acquisitions, Project will follow Resettlement Framework.

2. What action plan is required to address involuntary resettlement as part of the PPTA or due diligence process?

☐ Resettlement plan ☒ Resettlement framework ☐ Social impact matrix
☐ Environmental and social management system arrangement ☐ None

<p>B. Indigenous Peoples Category <input type="checkbox"/> A <input checked="" type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> FI</p> <p>1. Does the proposed project have the potential to directly or indirectly affect the dignity, human rights, livelihood systems, or culture of indigenous peoples? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Does it affect the territories or natural and cultural resources indigenous peoples own, use, occupy, or claim, as their ancestral domain? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Project areas have IPs and customary laws are present. The project design will ensure that IP will get access to project benefit and will not be impacted negatively from losing access to their livelihood opportunities.</p> <p>3. Will the project require broad community support of affected indigenous communities? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>4. What action plan is required to address risks to indigenous peoples as part of the PPTA or due diligence process?</p> <p><input type="checkbox"/> Indigenous peoples plan <input checked="" type="checkbox"/> Indigenous peoples planning framework <input type="checkbox"/> Social Impact matrix</p> <p><input type="checkbox"/> Environmental and social management system arrangement <input type="checkbox"/> None</p>
<p align="center">V. OTHER SOCIAL ISSUES AND RISKS</p> <p>1. What other social issues and risks should be considered in the project design?</p> <p><input checked="" type="checkbox"/> Creating decent jobs and employment <input type="checkbox"/> Adhering to core labor standards <input type="checkbox"/> Labor retrenchment</p> <p><input type="checkbox"/> Spread of communicable diseases, including HIV/AIDS <input type="checkbox"/> Increase in human trafficking <input type="checkbox"/> Affordability</p> <p><input type="checkbox"/> Increase in unplanned migration <input type="checkbox"/> Increase in vulnerability to natural disasters <input type="checkbox"/> Creating political instability</p> <p><input type="checkbox"/> Creating internal social conflicts <input type="checkbox"/> Others, please specify _____</p> <p>2. How are these additional social issues and risks going to be addressed in the project design?</p> <p>Unskilled labor will be prioritized for the poor communities, and employment from alternative livelihoods can impact the poor positively both directly and indirectly. Community contracts involving communities will be pursued.</p>
<p align="center">VI. PPTA OR DUE DILIGENCE RESOURCE REQUIREMENT</p> <p>1. Do the terms of reference for the PPTA (or other due diligence) contain key information needed to be gathered during PPTA or due diligence process to better analyze (i) poverty and social impact; (ii) gender impact, (iii) participation dimensions; (iv) social safeguards; and (vi) other social risks. Are the relevant specialists identified?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>3. What resources (e.g., consultants, survey budget, and workshop) are allocated for conducting poverty, social and/or gender analysis and participation plan during the PPTA or due diligence?</p> <p>Gender and social community development specialists are engaged; the budget for consultation especially for community groups will be allocated. Resources will be allocated to hire a competent social safeguards and gender consultant.</p>

CBO = community-based organization, COREMAP = Coral Reef Rehabilitation and Management Project, CSO = community services organization, CTI = Coral Triangle Initiative, IP = indigenous people, MPA = marine protected area, PPTA = project preparatory technical assistance, RPOA = regional plan of action.

FEASIBILITY STUDY FOR COREMAP-CTI PROJECT CONSULTANTS TERMS OF REFERENCE

I. TOR of Consulting Services for Loan Preparation

A. Developing a Scaling-Up Investment Program for Coastal and Marine Resources Management, including Coral Reef Rehabilitation and Management (G3)

1. The Coral Reef Rehabilitation and Management Program (COREMAP) was designed as a three-phase, multi-donor initiative to strengthen the management and conservation of Indonesia's coral reefs and associated ecosystems. The Project was planned for implementation in three phases over 15 years. Phase 1, the initiation phase, consisted of intensive resource rehabilitation and management activities in four pilot sites as well as national-level activities aimed at establishing a viable policy and legal framework and strategy for coral reef management. Phase 2 is the follow-on phase whose objectives of the Project are to (i) enhance the national and local capacity to manage the country's coral reef resources and (ii) rehabilitate and effectively manage priority coral reef ecosystems, thereby helping raise income levels and improving living standards among poor coastal communities. The implementation systems and approaches initiated/pilot-tested in Phase 1 and applied in an accelerated mode in Phase 2 will be consolidated and institutionalized in a final six-year Phase project known as COREMAP-CTI. Phase 2 is ended in December 2011. However, the work on rehabilitating, managing, and conserving coral reefs continues including institutionalization and considering the impending impacts of climate change. Aligning with the Coral Triangle Initiative on Coral Reefs, Fisheries, and Food Security (CTI) National Plan of Action (NPOA) of Indonesia on coastal resources management and building on the lessons learned from, and knowledge created in COREMAP 1 and 2, a scaling-up investment project named COREMAP-CTI has already been identified by Indonesian Government as an national project for implementing COREMAP-CTI. This preliminary investment project framework has already been developed by Government of Indonesia which needs to be further fine-tuned including development of targets, overall costing and identification of feasible geographic coverage area. This support will also conduct feasibility study for ADB covered geographic area for the identified COREMAP-CTI project. It is envisaged that the investment program will cover wider geographical areas than those covered by COREMAP 2.

Table A5.1: Consultants Inputs (person-months)

Expertise	International	National
Coral Reef Management Specialist/Team Leader	6	-
Resource Economist	2	-
Coral Reef Monitoring and Evaluation Specialist	3	-
Alternative Livelihood Specialist	-	3
Institution/Governance Specialist	-	2
Community Development Specialists	-	8
Marine Environment/Safeguard Specialist	-	3
Social Safeguards Specialist	-	2
Junior Consultants	-	10
Total	11	28

B. Detailed Terms of Reference

2. **Coral Reef Management Specialist/Team Leader [International, 6 person-months (p-m), intermittent].** The primary responsibility will be to lead the project team and based on

site specific social, economic, financial and ecological data and information develop a national level coral reef management program for Indonesia, with a design and monitoring framework (DMF), detailing impacts, outcomes, outputs, detailed activities, performance targets and risks. The lessons learned from COREMAP I and II and other related programs in Indonesia will also be used as a basis for project design. Institutionalization aspects and scale up opportunities will be identified and geographic coverage of the national project will be identified. Also coordinate with Government design team and World Bank consultants in developing the overall project design. Also responsible for developing all ADB loan related project documents. The specialist should meet the following criteria:

- (i) A postgraduate degree in tropical marine ecology/environmental studies or related discipline.
- (ii) Extensive professional experience (minimum 7 years) working in tropical marine environments, especially those of Southeast Asian nations.
- (iii) Professional experience in developing management plans for tropical marine environments and in preparing project planning documentation.
- (iv) Ability to collaborate effectively with other Program components and their multi-disciplinary teams.
- (v) Familiarity with and ease in using information technology.
- (vi) Fluent in oral and writing skills in the English language and a good working
- (vii) Knowledge of Bahasa Indonesia will be useful.

3. The specific outputs, will include, but not limited to, the following:

- (i) Preparation of a DMF for the national program.
- (ii) Lessons learned from COREMAP I and II.
- (iii) Assessment of scaling up potential including identification of existing and new project site areas.
- (iv) Identification of any specific site related project modifications.
- (v) Preparation the outputs and targets of identified ADB geographic sites and develop DMF consistent with ADB guidelines and overall program DMF.
- (vi) Preparation sub-project selection criteria.
- (vii) Preparation documents related to ADB loan approval (Report and Recommendation of the President (RRP) and related appendices.
- (viii) Any other activities as determined by the task manager.

4. **Resource Economist (International, 2 p-m, intermittent).** The consultant will be familiar with project financial and economic analysis required by multilateral funding institutions. The Resource Economist will assist the Coral Reef Management Specialist and other consultants in preparing a bankable proposal for the proposed COREMAP II Project, through detailed cost estimates, financial and economic analysis, and risk assessment. The Resource Economist will also examine questions of cost recovery and subsidies. The position will be selected according to the following criteria:

- (i) A post-graduate degree in economics, accounting, or related discipline.
- (ii) Extensive professional experience (minimum 7 years) working in tropical countries, especially those of South East Asian nations.
- (iii) Be capable of using COSTAB or other economic analysis tools.
- (iv) Be able to collaborate effectively with other Project components and their multi-disciplinary teams.
- (v) Be familiar with using information technology in financial and economic analysis.

5. The specific outputs, will include, but not limited to, the following:

- (i) In coordination with World Bank Consultants, prepare the financial plan for the overall project including its economic viability.
- (ii) Prepare the financial and economic analysis of ADB geographic areas in accordance with ADB guidelines.
- (iii) Any other activities as determined by the task manager.

6. **Coral Reef Monitoring and Evaluation Specialist (International, 3 p-m, intermittent).** The specialist will identify the coral reef conditions in the project sites, including marine management areas, and provide inputs into the component design that relates to marine conservation areas, biodiversity and climate change adaptation. The position will be selected according to the following criteria:

- (i) A postgraduate degree - in tropical marine ecology/environmental studies or related discipline.
- (ii) Extensive professional experience (minimum 7 years) working in tropical marine environments, especially those of Southeast Asian nations.
- (iii) Professional experience in developing management plans for tropical marine environments and in preparing project planning documentation.
- (iv) Ability to collaborate effectively with other Program components and their multi-disciplinary teams.
- (v) Familiarity with and ease in using information technology including GIS.
- (vi) Fluent in oral and writing skills in the English language and a good working knowledge of Bahasa Indonesia will be useful.

7. The specific outputs, will include, but not limited to, the following:

- (i) Identify details of marine management area, biodiversity and climate change adaptation sub-components for overall program including those for ADB DMF.
- (ii) Identify coral reef management performance indicators.
- (iii) Assess coral reef conditions including their response to Climate change
- (iv) Measure the coral reef area through GIF application overall and in ADB geographic area
- (v) Develop a monitoring and evaluation framework for COREMAP-CTI project.
- (vi) Any other activities as determined by the task manager.

8. **Alternative Livelihood Specialist (National, 3 p-m).** The primary responsibility of the specialist will be to identify site model livelihood activities in project sites in terms of their potential of total supply chains (including product marketing, quality assurance and private sector partnership) based on the lessons learned from COREMAP I and II and assessment of the livelihood activities in project sites. The specialist should meet the following criteria:

- (i) University degree in aquaculture, agriculture or related field.
- (ii) Professional experience (at least 10 years) in community based livelihood support and extension programs.
- (iii) Ability to collaborate effectively with other Program components and their multi-disciplinary teams.
- (iv) Familiarity with and ease in using information technology.
- (v) Fluent in oral and writing skills in the English language.

9. The specific outputs, will include, but not limited to, the following:

- (i) Conduct assessment of alternative livelihood activities (including role of community organizations) in existing and new project sites including identification of lessons learned.
- (ii) Prepare detailed activities and mechanisms related to the alternative livelihood component of the COREMAP-CTI project considering potentials of production, postharvest, marketing, access to credit, institutional mechanisms, product quality improvement and private sector participation.
- (iii) Conduct assessment of appropriateness of the technologies used and their suitability in operations and maintenance in local conditions.
- (iv) Any other activities as determined by the task manager.

10. **Institution/Governance Specialist (National, 2 p-m).** The primary responsibility of the institutional specialist will be to conduct an assessment of the institutional arrangements, governance and the capacity of community organizations (LPSTK), local Government, NGO's and recommend institutional measures to maximize participation and institutional implementation performance. The specialist should meet the following criteria:

- (i) University degree in public policy, political science or related field.
- (ii) Professional experience in institutional and Governance assessment.
- (iii) Ability to collaborate effectively with other Program components and their multi-disciplinary teams.
- (iv) Familiarity with and ease in using information technology.
- (v) Fluent in oral and writing skills in the English language.

11. The specific outputs, will include, but not limited to, the following:

- (i) Conduct institutional capacity assessment
- (ii) Conduct Governance Assessment
- (iii) Identify implementation and elaborate arrangements for COEMAP-CTI program.
- (iv) Any other activities as determined by the task manager.

12. **Community Development Specialists (National, 8 p-m, 2 persons at 4 p-m each).** The primary responsibility will be to identify community groups in project areas and prepare socio-economic and cultural profile of potential project beneficiaries. Criteria includes:

- (i) University degree in sociology or related field.
- (ii) Professional experience in participatory rural assessments
- (iii) Ability to collaborate effectively with other Program components and their multi-disciplinary teams.
- (iv) Familiarity with and ease in using information technology.
- (v) Fluent in oral and writing skills in the English language.

13. The specific outputs, will include, but not limited to, the following:

- (i) Conduct rapid rural assessments and stakeholder analysis to prepare socio-economic and cultural profile of targeted villages and project beneficiaries.
- (ii) Identify community groups to be targeted under the project.
- (iii) Conduct and assist in community participation workshops and programs.

- (iv) Any other activities as determined by the task manager.

14. **Marine Environment/Safeguard Specialist (National, 3 p-m).** The primary responsibility will be to identify community groups in project areas and prepare socio-economic and cultural profile of potential project beneficiaries. Criteria includes:

- (i) University degree in natural resource or environmental science or related field.
- (ii) Professional experience in environmental impact and ecological assessments
- (iii) Ability to collaborate effectively with other Program components and their multi-disciplinary teams.
- (iv) Familiarity with and ease in using information technology.
- (v) Fluent in oral and writing skills in the English language.

15. The specific outputs, will include, but not limited to, the following:

- (i) Identify environmental impacts associated with project activities.
- (ii) Conduct environment impact assessment for ADB COREMAP-CTI sites and prepare initial environment examination and environment review framework for the future project activities.
- (iii) Any other activities as determined by the task manager.

16. **Social Safeguards Specialist (National, 2 p-m).** The primary responsibility will be to identify community groups in project areas and prepare socio-economic and cultural profile of potential project beneficiaries. Criteria includes:

- (i) University degree in sociology or a related field.
- (ii) Professional experience in social impact assessments including those for gender, indigenous, resettlement, etc.
- (iii) Ability to collaborate effectively with other Program components and their multi-disciplinary teams.
- (iv) Familiarity with and ease in using information technology
- (vi) Fluent in oral and writing skills in the English language.

17. The specific outputs, will include, but not limited to, the following:

- (i) Assess social impacts in project sites.
- (ii) Prepare ADB site related social safeguard documents like Gender Action Plan, Resettlement and Indigenous people's framework in accordance with ADB guidelines.

18. **Junior Consultants (National, 10 p-m, 5 people at 2 p-m per person).** The junior consultants will assist in data collection in project geographic areas in coordination with all the other consultants, particularly helping the social and economic data collection, liaison with local Government, beneficiaries and other stakeholders, conduct public consultations and assist in collecting and analyzing data and information related to feasibility study. Criteria includes:

- (i) University degree in fisheries and/or related fields.
- (ii) 3 years professional experience.
- (iii) Ability to collaborate effectively with other Program components and their multi-disciplinary teams.
- (iv) Familiarity with and ease in using information technology

- (v) Fluent in oral and writing skills in the English language.
19. The specific outputs, will include, but not limited to, the following:
- (i) Documentation of geographic based financial, resource, demographic and other data with analysis related to feasibility study of COREMAP-CTI Project.
 - (ii) Analyze field data and information providing specific inputs to project components, geographic-based targets, costs of different activities and issues to be addressed in project design for COREMAP-CTI project with special attention in model geographic areas.
 - (iii) Help analyze COREMAP II performance on ground and document lessons learned.

C. Cost Estimates

20. The preparatory works are estimated to cost \$470,000 for preparation of loan documents.

Table A5.2: Cost Estimate (\$)

Item	Loan
National and International Consultants Remuneration	301,000
Reimbursable (per diem, travel, equipment, surveys, workshops)	94,000
Contingency	75,000
Total	470,000

Source: Asian Development Bank estimates.

II. TOR for the Preparation of Global Environmental Facility Package Document

21. Individual consultants will be engaged to prepare the Global Environment Facility (GEF) Chief Executive Officer (CEO) endorsement document for the proposed Loan INO: Coral Reef Rehabilitation and Management - Coral Triangle Initiative (COREMAP-CTI).

Table A5.3: Consultants Inputs (person-months)

Expertise	Total Consultant's Inputs (p-m)		
	International	National	Total
Team Leader/ Natural Resources Management/ Institution Development Specialist	2		2
Marine Protected Area and Biodiversity Specialist	2		2
Marine Certification (Sustainable Use) Specialist	1		1
Economist/Financial Specialist	1		1
Payment for Environmental Services (PES)/ Sustainable Finance/ Economics Specialist		2	2
Community Participation/Social Specialist		2	2
Total	6	4	10

22. Time Frame: 22 April–31 August 2013 (intermittent).

A. Detailed Terms of Reference

23. **Team Leader/ Natural Resources Management/ Institution Development Specialist (International, 2 p-m, intermittent)**

a. Responsibility: The Project Preparatory Grant (PPG) Team Leader/ Natural Resources Management (NRM)/ Institution Development Specialist will be responsible for overall compilation of the GEF project document for submission to the Government and the GEF CEO endorsement document, overseeing work outputs of other consultants, take lead in consultations and design of marine protected area with biodiversity focus and climate change resilience.

b. Qualifications: Graduate degree in management, policy or related fields with at least 10 years experience in NRM/institutional development in Asia, preferably with Asian Development Bank (ADB) experience in designing, integrating and packaging loans and GEF grant financing.

c. Tasks

- (i) Overall responsibility in drafting and finalizing GEF CEO endorsement document (based on GEF, ADB and Government of Indonesia requirements), with required documentation, consultations annexes and GEF biodiversity tracking (BD) tools in line with GEF CEO endorsement document template;
- (ii) Provide inputs and integrate GEF COREMAP-CTI component designs and outputs with the Report and Recommendation of the President (RRP) and its linked documents;
- (iii) Coordination and consultations on CEO endorsement document draft;
- (iv) Coordination and oversight of overall inputs of all PPG team consultant(s);
- (v) Support the project's alignment with baseline ADB, World Bank, Government of Indonesia and other related programs;
- (vi) Design GEF project outputs on Marine Protected Areas (MPAs) institutions, policies and related activities;
- (vii) Tabulate lessons learned and ensure synergy with past, on-going and related activities;
- (viii) Define project's risks and mitigation strategy;
- (ix) Address key questions raised by GEF in project identification form (PIF) review;
- (x) Based on GEF PIF, the specialist will provide inputs and support for design of activities for:
 - (a) zonation and national designation of 8 MPAs;
 - (b) establishment of 8 new MPA management boards;
 - (c) development of 10 operational management plans (OMP) for MPAs;
 - (d) implementation of priority OMP MPA conservation actions in 10 sites; and
 - (e) coordinated implementation of interagency/community patrols and enforcement.
- (xi) The consultant will provide support for design of:
 - (a) development of 10 MPA sustainable finance/business plans and strengthening of financial management capacities;

- (b) sustainable financing/payment for environmental services (PES) mechanisms pilots in 3 sites supporting MPA conservation and management;
 - (c) MPA business plans integrated into 13 sub-national coastal development plans and policies;
 - (d) integrating livelihood activities and sustainable use into relevant management plans;
 - (e) providing inputs to design (if relevant) cash transfer and output-based financing modalities for communities; and
 - (f) identify possible joint management/collaboration in management of MPAs.
- (xii) Incorporate climate change adaptation concept within GEF project design; and
 - (xiii) Conduct tasks as directed by ADB task manager.

d. Outputs

Table A5.4: Summary of Major Outputs and Activities

Output	Date
Finalize GEF Document	12 July 2013
Submission of GEF Document to GEFSEC	19 July 2013
Final submission addressing GEFSEC comments	1 August 2013
Approval of GEFSEC	14 August 2013

GEFSEC = Global Environment Facility Secretariat.

24. Marine Protected Area and Biodiversity Specialist (International, 2 p-m, intermittent)

a. Responsibility: Preparation of GEF tracking tools for MPAs/ biodiversity and design of globally important biodiversity components of GEF interventions. Assist the Team Leader in packaging GEF CEO endorsement document, integration of GEF design into loan documents and in synthesizing/ overseeing work outputs of other national/international consultants.

b. Qualifications: Graduate degree in environment science, policy, biology or related fields with at least 10 years experience in in marine biodiversity conservation in Asia, with proven track record with ADB in packaging GEF endorsement document and intergating them in loan documents.

c. Tasks

- (i) Develop and update baseline information, undertaking field work and related activities GEF MPA/Biodiversity(BD) tracking tools for all MPAs under the project;
- (ii) Develop species seelction criteria and design development and implementation of species management action plans;
- (iii) Support team leader in drafting GEF CEO endorsement document (based on GEF, ADB and Government of Indonesia requirements), with required documentation, consultations, annexes and GEF BD tracking tools, etc., in line with template of GEF endorsement document;

- (iv) Based on GEF project identification form, the specialist will provide inputs and support for development of six species management action plans, and develop and update baseline information, undertaking required GEF BD tracking tools;
- (v) Based on GEF project identification form, the Specialist will provide specific guidance to mainstream biodiversity conservation, MPA and COREMAP best practice within coastal development planning (i.e., best practice, tools and approaches to marine ecosystems and fisheries management identified and adopted by MPA network; output 2.6 studies on the status of six priority marine threatened species; six species management action plans for globally important biodiversity developed and implemented; and management requirements and protection arrangements for threatened marine species integrated in national and local regulations);
- (vi) Support the Team Leader in all inputs concerning the GEF COREMAP CTI component in the RRP and its linked documents;
- (vii) Support the Team Leader in coordination and review of the draft CEO endorsement document; and
- (viii) Support the Team Leader in coordination of overall inputs of PPG team consultant(s).

d. Outputs

- (i) Completed GEF tracking tools for 11 MPAs and approved GEF endorsement document;
- (ii) Integration of GEF requirement with project loan documents;
- (iii) Design of marine biodiversity protection related activities;
- (iv) Terms of Reference (TOR) for GEF implementation consultants on biodiversity related issues;
- (v) The following sheduled outputs are required:

Table A5.5: Summary of Major Outputs and Activities

Output	Date
Input to team work plan submission	Before 3 May 2013
Inputs to draft CEO endorsement document	Before 7 June 2013
Country Workshop on GEF CEO endorsement document	20 June 2013
Completion of comments from workshop (external stakeholders)	28 June 2013
Address ADB internal comments	10 July 2013
Submission of GEF document to GEFSEC	19 July 2013
Final submission addressing GEFSEC comments	1 August 2013
Approval by GEFSEC	14 August 2013

GEFSEC = Global Environment Facility Secretariat.

25. Marine Certification (Sustainable Use) Specialist (International, 1 p-m, intermittent)

a. Responsibility: Design marine certification activities under GEF ensuring integration of GEF activities with the loan project.

b. Qualifications: Graduate degree in marine science or related fields with at least 10 years' experience in institutional and certification in coastal and marine resource management with proven track record working in Asia, preferably in Indonesia.

c. Tasks

- (i) Evaluate policy and institutional gaps in biodiversity protection and certification (sustainable use) and make recommendations of interventions to minimize those gaps;
- (ii) Identify recommendations to improve fisheries management and local livelihood planning for mainstreaming biodiversity;
- (iii) Design conservation based (focusing on biodiversity protection) training and guidance to community groups related to sustainable use and livelihood programs;
- (iv) Design appropriate and cost effective marine eco-certification pilots that takes into account biodiversity protection;
- (v) Identify key monitoring, control and surveillance (MCS) issues for biodiversity protection, including challenges, opportunities and risks;
- (vi) Formulate MCS sub-component work plan, including required budget, training and capacity building needs;
- (vii) Develop criteria/basis to be used for prioritizing MPA management (e.g. the intervention proposed targets gaps not yet met by the Government of Indonesia or baseline project, builds critical habitat linkage between MPAs, addresses key MPA conservation threat impacting globally endangered species, builds MPA financial sustainability, technical capacities, community commitments to sustainable use/protection, etc.);
- (viii) Based on GEF project identification form, the Specialist will provide specific guidance to mainstream sustainable use best practices within coastal development planning;
- (ix) Based on GEF project identification form, the Specialist will provide input and support to (a) training and guidance to 100 community groups, and (b) with design of appropriate marine certification pilot;
- (x) Based on GEF project identification form, the Specialist will provide input and support to, inter-agency community patrols and enforcement as well design issues related to ecosystem-based fisheries management (EAFM) and fisheries stock assessment;
- (xi) Provide inputs to integrate loan component activities with GEF activities;
- (xii) Develop terms of reference for specialists involved in implementing these outputs; and
- (xiii) Conduct necessary stakeholder consultations and incorporate their views and comments.

d. Outputs

- (i) Design of institutional (MCS, MPA, EAFM, stock assessment), capacity building and marine certification programs incorporated in GEF and loan documents; and
- (ii) Preparation of relevant terms of references.

26. Economist/ Financial Specialist (International, 1 p-m, intermittent)

- a. Responsibility:** Prepare the GEF cost estimates and budget and integrate them with overall project cost and financial budget.

b. Qualifications: Graduate in economics, finance or related fields with at least 5 year experience in economic and financial analysis in international projects in Asia (preferably in Indonesia), preferably with specific experience in ADB projects.

c. Tasks

- (i) Prepare GEF financing cost and budget including the implementation consultants in line with GEF and ADB guidelines;
- (ii) In line with economic/financial analysis of loan project, develop incremental cost reasoning, align GEF component budget costs with financial/ economic analysis of loan;
- (iii) To show incremental cost financing, evaluate viability of project without GEF activities and show additionality of GEF interventions from economic and financial viability stand point;
- (iv) Provide inputs to the TOR of required implementation specialists for economic/ financial activities; and
- (v) Conduct necessary consultations.

d. Outputs

- (i) Report of GEF component costs and budgets with required tables;
- (ii) Harmonization of GEF and loan costs and budgets;
- (iii) Preparation of relevant terms of references; and
- (iv) Prepare increment cost reasoning section for GEF document.

27. Payment for Environmental Services (PES)/ Sustainable Finance/Economics Specialist (National, 2 p-m, intermittent)

a. Responsibilities: Design of PES pilots, marine valuation methodologies, sustainable financing and business plans and conduct needed stakeholder consultations.

b. Qualifications: Graduate degree in economics or related fields with at least 5 years' experience in PES design and/or in marine sector financing issues in Indonesia. Proficiency in both English and Bahasa Indonesia.

c. Tasks: The Sustainable Finance/ PES consultant will oversee design of following outputs:

- (i) Establishment of marine ecosystem valuation; develop criteria aiding identification of marine ecosystem valuation methodologies for localized valuation of goods and services. Design sub-component work plan for piloting in three sites, and identify required data, consultation processes, timeframes, budgets, training, capacity building and specialist expertise required to be undertaken in project implementation;
- (ii) Design of MPA sustainable finance planning for all ADB MPA sites;
- (iii) Review available literature and marine based PES models currently employed in Indonesia;
- (iv) Design three (3) sustainable finance/PES pilots;

- (v) Specific measures for mainstreaming MPA business plans into 8 district/ 4 province sub-national coastal development plans and policies;
- (vi) Work with MPA sites (existing and/or potential management boards, local government, communities) to apply the GEF BD tracking tool (Objective 1, section III, Financial Sustainability Scorecard);
- (vii) Integrate loan component activities with GEF activities;
- (viii) Contribute to development of the CEO endorsement document and the ADB investment loan RRP and its linked documents;
- (ix) Assist in economic/financial analysis related to GEF component to be incorporated in loan document;
- (x) Based on GEF project identification form, the specialist will support activities under Section B the consultant will provide input and support for: (a) design of MPA sustainable finance planning for 10 MPA sites; (b) design three sustainable finance/PES pilots, (c) specific measures mainstreaming MPA business plans into 10 district/3 province plans;
- (xi) Develop relevant terms of reference for specialists involved in implementation consultants; and
- (xii) Conduct necessary stakeholder consultations and incorporate their views and comments in design.

d. Outputs

- (i) Design report on of PES pilots, marine valuation methodology, sustainable financing and business plans and related tracking tool sections;
- (ii) Relevant inputs to CEO endorsement documents; and
- (iii) Preparation of relevant terms of references.

28. Community Participation/Social Specialist (National, 2 p-m, intermittent)

a. Responsibilities: The Community Participation/Social Specialist will be responsible for identification of project stakeholders and important social and participation issues; the consultant will work closely with the team to support stakeholder consultations and review safeguards. The background in marine biodiversity issues is preferred.

b. Qualifications: graduate degree in management, social science or related field with at least 5 years' experience in community development projects in Indonesia. Experience in Marine resource projects is preferred. Proficiency in both English and Bahasa Indonesia.

c. Tasks

- (i) Assist gathering of relevant information from field sites and to assist project team to organize field consultations and meetings;
- (ii) Assist in developing and coalescing baseline monitoring information;
- (iii) Assist in identification of key stakeholders;
- (iv) Assist in conducting stakeholder consultations and meetings;
- (v) Provide professional recommendation on design of appropriate social participation and consultative processes to be pursued in the implementation of sub-components;

- (vi) Develop social action plan work schedule; training and design capacity building for project sub-components;
- (vii) Provide recommendations for mitigating potential areas of conflict between stakeholders;
- (viii) Identification of stakeholders and conduct required stakeholder consultation for GEF including for safeguards and provide inputs so that social and gender safeguard requirements are adequately covered under the GEF CEO endorsement document;
- (ix) Based on GEF project identification form, the specialist will support activities for (a) establishment of 8 new MPA management boards; (b) development of 10 OPMs for MPAs; (c) implementation of priority OMP MPA conservation actions in 10 sites; (d) coordinated implementation of interagency/community patrols and enforcement; (f) ecosystem-based fisheries management and fisheries stock assessment;
- (x) Support the Team Leader in all stakeholder consultations;
- (xi) Support the Team Leader in field data collection related to project design including MPA biodiversity tracking tool preparation; and
- (xii) Document community participation in PPG design processes, upholding ADB and GOI social safeguards.

d. Outputs:

- (i) Report on public consultations and safeguards and surveys;
- (ii) Relevant inputs to CEO endorsement documents; and
- (iii) Preparation of relevant terms of references.

B. Cost Estimate and Proposed Financing Arrangement

29. The preparatory works are estimated to cost \$200,000 for preparation of GEF CEO endorsement document.

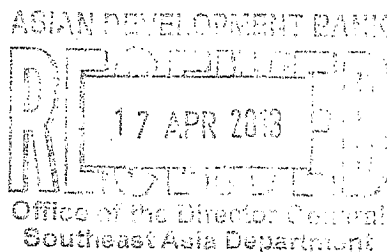
Table A5.6: Cost Estimates (\$)

Item	GEF
National and International Consultants Remuneration	115,000
Reimbursable (per diem, travel, equipment, surveys, workshops)	50,000
Contingency	35,000
Total	200,000

Source: Asian Development Bank estimates.

**PROJECT PREPARATORY TECHNICAL ASSISTANCE
RETA 7813: Coastal and Marine Resources Management in the
Coral Triangle–Southeast Asia**

- A. RETA 7813: Approved memo of Increase in TA Amount and Minor Change in Implementation Arrangements for GEF package (16 April 2013)**
- B. RETA 7813: Approved memo for Minor Change in Scope for COREMAP-CTI Project Preparation (6 August 2012)**



Memorandum

Southeast Asia Department
 Environment, Natural Resources and
 Agriculture Division (SEER)
 Email address: seer@adb.org

Asian Development Bank

16 April 2013

For Approval of Para. 8

To: Kunio Senga, Director General, SERD *OK 19 Apr 13*

Through: Javed H. Mir, Director, SEER *H. Mir*

From: Pavit Ramachandran, Environment Specialist, SEER *P. Ramachandran*

Subject: **TA 7813-REG: Coastal and Marine Resources Management in the Coral Triangle Southeast Asia**
— Request for Approval of Increase in TA Amount and Minor Change in Implementation Arrangements

A. Background Information

1. The Coastal and Marine Resources Management in the Coral Triangle-Southeast Asia Regional-Policy and advisory technical assistance (the TA) was approved on 18 May 2011. The RETA was financed in an amount of \$12,218,182 (\$1,000,000 by ADB's Technical Assistance Special Fund (TASF) and \$11,218,182 by the Global Environment Facility (GEF), administered by ADB). The TA will result in the increased resilience of coastal and marine ecosystems and human communities in the Coral Triangle Southeast Asia (CT3), covering Indonesia, Malaysia, and the Philippines. The TA will support the introduction of more effective management of coastal and marine resources, and those associated with coral reef ecosystems, to build their resilience in a period of increased threats from climate change and human-induced impacts, maintaining ecosystem integrity and productivity and ensuring the improved socioeconomic status of coastal communities.

2. The outcome will be improved management of coastal and marine resources established in the Sulu-Sulawesi Marine Ecoregion Priority Seascape within the Coral Triangle. The following are the TA's intended outputs: (i) policy and institutional frameworks for sustainable coastal and marine ecosystem management improved; (ii) ecosystem-based approach to coastal and marine resources management pilot tested; and (iii) effective project management established by ADB and the CT3 governments. One of the activities under the RETA is to support the preparation of coral reef rehabilitation and management project (COREMAP) in Indonesia. The TA completion date is on 31 December 2016.

B. Current Status of Project Implementation

3. The CT3 implementing project structures and staffing are in place in the focal agencies, namely, (i) the Ministry of Marine Affairs and Fisheries, Indonesia; (ii) the National Oceanography Directorate of the Ministry of Science, Technology, and Innovation, Malaysia; and (iii) the Department of Environment and Natural Resources, Philippines. The international project coordinator/M&E specialist was mobilized during the third week of September 2011 and will

manage the operations of the TA coordination unit at ADB, design and establish the project performance management system, and monitor the activities of the participating countries during TA implementation. For the project management consultant (PMC), mobilization started in August 2012, with the PMC's assignment covering a period of four years.

4. In August 2012, a minor change in scope was approved to allocate a portion of the TA funds (\$470,000, financed by TASF) to develop a Scaled-Up Investment Program for Coastal and Marine Resources Management, including feasibility study for a Coral Reef Rehabilitation and Management project for Indonesia (G3). This project has been identified by the Government of Indonesia as a national project titled Coral Reef Rehabilitation and Management Project-Coral Triangle Initiative (COREMAP-CTI), the third and last phase of sequence of projects which is pivotal for Indonesia in implementing its National Action Plan for the Coral Triangle Initiative (CTI). CTI is a flagship regional program initiated under the leadership of the Indonesian President. A feasibility study is being prepared for the identified COREMAP-CTI project, which will include, among others, development of interventions and targets, overall costing and identification of feasible geographic coverage areas. It is envisaged that the COREMAP-CTI investment program will cover wider geographical areas than those covered by COREMAP II.¹ The consulting firm has been recruited using the quality-based cost selection method and was mobilized in October 2012.

C. Increase in TA Amount and Change in Implementation Arrangements

5. Since TA's approval on 18 May 2011, ADB has secured additional cofinancing from GEF amounting to \$200,000 as a project preparation grant (PPG) to provide support for the preparation of GEF CEO endorsement document for the design of GEF funded activities of the investment program for the COREMAP-CTI project. The COREMAP-CTI investment project is envisaged to be financed by ADB (\$50.0 million), GEF (\$8.0 million), and Government of Indonesia (\$6.0 million). The GEF grant of \$200,000 will be an additionality to the base investment for COREMAP-CTI project, and will supplement base project activities in protecting and mainstreaming globally important, rare, threatened and endangered biodiversity. The output for the PPG will be the preparation of the GEF CEO endorsement document and link the GEF design components with the base investment of COREMAP-CTI project. The PPG will require an estimated services of 6 person-months international consultants and 4 person-months national consultants. The consultants will be engaged as individuals. The terms of reference for these consultants are in Appendix 1 and the revised cost estimates and financing plan is in Appendix 2.

6. The GEF support for the COREMAP-CTI investment program will enable the project to focus on achieving increased global environmental benefits and strengthen their synergies between community-based natural resource management and livelihoods (covered by the baseline), with improved management effectiveness for biodiversity protection aspects of marine protected areas (MPAs). The GEF grant resources will provide targeted assistance to enhance project outcomes focused on (i) effective management of MPAs (in North Sumatra, West Sumatra and Riau Province) and the increased sustainability of three national MPA systems (Anambas in Anambas District in Riau province, Pulau Pieh in Pariaman District in West Sumatra province and Gili Matra in North Lombok District of West Nusa Tenggara province) and (ii) mainstream

¹ Approved by the National Development Planning Agency (BAPPENAS), the Ministry of Marine Affairs and Fisheries (MMAF) proposed COREMAP-CTI Phase III (2013-2018) to address existing and emerging challenges to the establishment of a viable Indonesian marine ecosystem management system. The goal of this phase is to develop a financially sustainable program that is nationally coordinated but decentralized in implementation in order to empower and to support coastal communities to (i) revive damaged and/or protect intact marine ecosystems that enhance the welfare of Indonesian coastal communities, and (ii) sustainably co-manage the use of coral reefs and associate ecosystem resources.

biodiversity conservation and sustainable management within coastal development planning and production sectors.

D. Staff Views

7. The increase in the current TA amount of \$12,218,182 by \$200,000 from additional cofinancing secured from GEF to a total TA amount of \$12,418,182, and the change in implementation arrangements, will not substantially affect the TA's outcome, components, benefits or implementation arrangements. OSFMD, CTL, OGC, OCO, and RSDD have been consulted and their comments are attached as Appendix 3.

E. Recommendations

8. Pursuant to para. 33 of the Project Administration Instructions (PAI) 5.09, it is recommended that the Director General SERD approve the increase in TA amount by \$200,000 as described in paragraphs 5 and 6 above.

9. If the increase in TA amount in para. 8 is approved, the minor change in implementation arrangements will be deemed to be approved by Director, SEER in accordance with PAI 5.09 para. 35.

Appendix: 1. Terms of Reference
2. Revised Cost Estimates and Financing Plan
3. Staff Comments

cc: Head, OCO; Deputy Director General, SERD; Assistant General Counsel, OGC (A. Djusupbekova) Directors, OSP2; OCO; RSES; Advisor and Head, CTIS-HD; Advisor, OSFMD and Head, OSOM; E. Gagnon, OSP2; C. Pak, OGC; T. Dojima, OCO; D. Pham, CTIS-TA; B. Dunn, RSES; M. Mongiorgi Lorenzo, OSOM; O. Dyloco-Canto, OSOM; E. Honda, SEOD

/cgr

**TA 7813-REG: Coastal and Marine Resources Management in the
Coral Triangle–Southeast Asia**

TERMS OF REFERENCE

1. Individual consultants will be engaged to prepare the Global Environment Facility (GEF) Chief Executive Officer (CEO) endorsement document for the proposed Loan INO: Coral Reef Rehabilitation and Management : Coral Triangle Initiative (COREMAP-CTI).

Expertise	Total Consultant's Inputs (p-m)		
	International	National	Total
Team Leader/ Natural Resources Management/ Institution Development Specialist	2		2
Marine Protected Area and Biodiversity Specialist	2		2
Marine Certification (Sustainable Use) Specialist	1		1
Economist/Financial Specialist	1		1
Payment for Environmental Services (PES)/ Sustainable Finance/ Economics Specialist		2	2
Community Participation/Social Specialist		2	2
Total	6	4	10

2. **Time Frame:** 29 April–31 August 2013 (intermittent).

A. Detailed Terms of Reference

3. **Team Leader/ Natural Resources Management/ Institution Development Specialist**
[International, 2 person-months (p-m), intermittent]

a. Responsibility: The Project Preparatory Grant (PPG) Team Leader/ Natural Resources Management (NRM)/ Institution Development Specialist will be responsible for overall compilation of the GEF project document for submission to the Government and the GEF CEO endorsement document, overseeing work outputs of other consultants, take lead in consultations and design of marine protected area with biodiversity focus and climate change resilience.

b. Qualifications: Graduate degree in management, policy or related fields with at least 10 years experience in NRM/institutional development in Asia, preferably with multilateral development bank experience in designing, integrating and packaging loans and GEF grant financing.

c. Tasks

- (i) Overall responsibility in drafting and finalizing GEF CEO endorsement document (based on GEF, ADB and Government of Indonesia requirements), with required documentation, consultations annexes and GEF biodiversity (BD) tracking tools in line with GEF CEO endorsement document template;
- (ii) Provide inputs and integrate GEF COREMAP-CTI component designs and outputs with the Report and Recommendation of the President (RRP) and its linked documents;
- (iii) Coordination and consultations on CEO endorsement document draft;

- (iv) Coordination and oversight of overall inputs of all PPG team consultant(s);
- (v) Support the project's alignment with baseline ADB, World Bank, Government of Indonesia and other related programs;
- (vi) Design GEF project outputs on Marine Protected Areas (MPAs) institutions, policies and related activities;
- (vii) Tabulate lessons learned and ensure synergy with past, on-going and related activities;
- (viii) Define project's risks and mitigation strategy;
- (ix) Address key questions raised by GEF in project identification form (PIF) review;
- (x) Based on GEF PIF, the specialist will provide inputs and support for design of activities for:
 - (a) zonation and national designation of 8 MPAs;
 - (b) establishment of 8 new MPA management boards;
 - (c) development of 10 operational management plans (OMP) for MPAs;
 - (d) implementation of priority OMP MPA conservation actions in 10 sites; and
 - (e) coordinated implementation of interagency/community patrols and enforcement.
- (xi) The consultant will provide support for design of:
 - (a) development of 10 MPA sustainable finance/business plans and strengthening of financial management capacities;
 - (b) sustainable financing/payment for environmental services (PES) mechanisms pilots in 3 sites supporting MPA conservation and management;
 - (c) MPA business plans integrated into 13 sub-national coastal development plans and policies;
 - (d) integrating livelihood activities and sustainable use into relevant management plans;
 - (e) providing inputs to design (if relevant) cash transfer and output-based financing modalities for communities; and
 - (f) identify possible joint management/collaboration in management of MPAs.
- (xii) Incorporate climate change adaptation concept within GEF project design; and
- (xiii) Conduct tasks as directed by ADB task manager.

d. Outputs

Output	Date
Team work plan submission	3 May 2013
Preparation of draft CEO endorsement document	7 June 2013
Country Workshop on GEF CEO endorsement document	20 June 2013
Finalize GEF Document	12 July 2013
Submission of GEF Document to GEFSEC/GEF	19 July 2013

Secretariat) addressing comments from external stakeholders, ADB and Government

Final submission addressing GEFSEC comments

1 August 2013

Estimated Approval of GEFSEC

14 August 2013

4. **Marine Protected Area and Biodiversity Specialist (International, 2 p-m, intermittent)**

a. Responsibility: Preparation of GEF tracking tools for MPAs/ biodiversity and design of globally important biodiversity components of GEF interventions. Assist the Team Leader in packaging GEF CEO endorsement document, integration of GEF design into loan documents and in synthesizing/ overseeing work outputs of other national/international consultants.

b. Qualifications: Graduate degree in environment science, policy, biology or related fields with at least 10 years experience in in marine biodiversity conservation in Asia, with proven track record with multilateral development bank in packaging GEF endorsement document and intergating them in loan documents.

c. Tasks

- (i) Develop and update baseline information, undertaking field work and related activities GEF MPA/BD tracking tools for all MPAs under the project;
- (ii) Develop species seelction criteria and design development and implementation of species management action plans;
- (iii) Support team leader in drafting GEF CEO endorsement document (based on GEF, ADB and Government of Indonesia requirements), with required documentation, consultations, annexes and GEF BD tracking tools, etc., in line with template of GEF endorsement document;
- (iv) Based on GEF project identification form, the specialist will provide inputs and support for development of six species management action plans, and develop and update baseline information, undertaking required GEF BD tracking tools;
- (v) Based on GEF project identification form, the Specialist will provide specific guidance to mainstream biodiversity conservation, MPA and COREMAP best practice within coastal development planning (i.e., best practice, tools and approaches to marine ecosystems and fisheries management identified and adopted by MPA network; output 2.6 studies on the status of six priority marine threatened species; six species management action plans for globally important biodiversity developed and implemented; and management requirements and protection arrangements for threatened marine species intergrated in national and local regulations);
- (vi) Support the Team Leader in all inputs concerning the GEF COREMAP CTI component in the RRP and its linked documents;
- (vii) Support the Team Leader in coordination and review of the draft CEO endorement document; and
- (viii) Support the Team Leader in coordination of overall inputs of PPG team consultant(s).

d. Outputs

- (i) Completed GEF tracking tools for 11 MPAs and approved GEF endorsement document;
- (ii) Integration of GEF requirement with project loan documents;
- (iii) Design of marine biodiversity protection related activities;
- (iv) Terms of Reference (TOR) for GEF implementation consultants on biodiversity related issues;
- (v) The following sheduled outputs are required as an input to TL's deliverables:

Output	Date
Input to team work plan submission	Before 3 May 2013
Inputs to draft CEO endorsement document	Before 7 June 2013
Country Workshop on GEF CEO endorsement document	20 June 2013
Submission of GEF document to GEFSEC addressing all comments from external stakeholders, ADB and Government	19 July 2013
Final submission addressing GEFSEC comments	1 August 2013
Estimated Approval by GEFSEC	14 August 2013

5. Marine Certification (Sustainable Use) Specialist (International, 1 p-m, intermittent)

a. Responsibility: Design marine certification activities under GEF ensuring integration of GEF activities with the loan project.

b. Qualifications: Graduate degree in marine science or related fields with at least 10 years experience in institutional and certification in coastal and marine resource management with proven track road working in Asia, preferably in Indonesia.

c. Tasks

- (i) Evaluate policy and institutional gaps in biodiversity protection and certification (sustainable use) and make recommendations of interventions to minimize those gaps;
- (ii) Identify recommendations to improve fisheries management and local livelihood planning for mainstreaming biodiversity;
- (iii) Design conservation based (focusing on biodiversity protection) training and guidance to community groups related to sustainable use and livelihood programs;
- (iv) Design appropriate and cost effective marine eco-certification pilots that takes into account biodiversity protection;
- (v) Identify key monitoring, control and surveillance (MCS) issues for biodiversity protection, including challenges, opportunities and risks;
- (vi) Formulate MCS sub-component work plan, including required budget, training and capacity building needs;
- (vii) Develop criteria/basis to be used for prioritizing MPA management (e.g. the intervention proposed targets gaps not yet met by the Government of Indonesia or baseline project, builds critical habitat linkage between MPAs, addresses key MPA conservation threat impacting globally endangered species, builds MPA financial sustainability, technical capacities, community commitments to sustainable use/protection, etc.);

- (viii) Based on GEF project identification form, the Specialist will provide specific guidance to mainstream sustainable use best practices within coastal development planning;
- (ix) Based on GEF project identification form, the Specialist will provide input and support to (a) training and guidance to 100 community groups, and (b) with design of appropriate marine certification pilot;
- (x) Based on GEF project identification form, the Specialist will provide input and support to, inter-agency community patrols and enforcement as well design issues related to ecosystem-based fisheries management (EAFM) and fisheries stock assessment;
- (xi) Provide inputs to integrate loan component activities with GEF activities;
- (xii) Develop terms of reference for specialists involved in implementing these outputs; and
- (xiii) Conduct necessary stakeholder consultations and incorporate their views and comments.

d. Outputs

- (i) Design of institutional (MCS, MPA, EAFM, stock assessment), capacity building and marine certification programs incorporated in GEF and loan documents; and
- (ii) Preparation of relevant terms of references.

6. Economist/ Financial Specialist (International, 1 p-m, intermittent)

a. Responsibility: Prepare the GEF cost estimates and budget and integrate them with overall project cost and financial budget.

b. Qualifications: Graduate in economics, finance or related fields with at least 5 year experience in economic and financial analysis in international projects in Asia (preferably in Indonesia), preferably with specific experience in multilateral development bank projects.

c. Tasks

- (i) Prepare GEF financing cost and budget including the implementation consultants in line with GEF and ADB guidelines;
- (ii) In line with economic/financial analysis of loan project, develop incremental cost reasoning, align GEF component budget costs with financial/ economic analysis of loan;
- (iii) To show incremental cost financing, evaluate viability of project without GEF activities and show additionality of GEF interventions from economic and financial viability stand point;
- (iv) Provide inputs to the TOR of required implementation specialists for economic/ financial activities; and
- (v) Conduct necessary consultations.

d. Outputs

- (i) Report of GEF component costs and budgets with required tables;
- (ii) Harmonization of GEF and loan costs and budgets;

- (iii) Preparation of relevant terms of references; and
- (iv) Prepare increment cost reasoning section for GEF document.

7. Payment for Environmental Services (PES)/ Sustainable Finance/Economics Specialist (National, 2 p-m, intermittent)

- a. Responsibilities:** Design of PES pilots, marine valuation methodologies, sustainable financing and business plans and conduct needed stakeholder consultations.
- b. Qualifications:** Graduate degree in economics or related fields with at least 5 years experience in PES design and/or in marine sector financing issues in Indonesia. Proficiency in both English and Bahasa Indonesia.
- c. Tasks:** The Sustainable Finance/ PES consultant will oversee design of following outputs:
 - (i) Establishment of marine ecosystem valuation; develop criteria aiding identification of marine ecosystem valuation methodologies for localized valuation of goods and services. Design sub-component work plan for piloting in three sites, and identify required data, consultation processes, timeframes, budgets, training, capacity building and specialist expertise required to be undertaken in project implementation;
 - (ii) Design of MPA sustainable finance planning for all ADB MPA sites;
 - (iii) Review available literature and marine based PES models currently employed in Indonesia;
 - (iv) Design three (3) sustainable finance/PES pilots;
 - (v) Specific measures for mainstreaming MPA business plans into 8 district/ 4 province sub-national coastal development plans and policies;
 - (vi) Work with MPA sites (existing and/or potential management boards, local government, communities) to apply the GEF BD tracking tool (Objective 1, section III, Financial Sustainability Scorecard);
 - (vii) Integrate loan component activities with GEF activities;
 - (viii) Contribute to development of the CEO endorsement document and the ADB investment loan RRP and its linked documents;
 - (ix) Assist in economic/financial analysis related to GEF component to be incorporated in loan document;
 - (x) Based on GEF project identification form, the specialist will support activities under Section B the consultant will provide input and support for: (a) design of MPA sustainable finance planning for 10 MPA sites; (b) design three sustainable finance/PES pilots, (c) specific measures mainstreaming MPA business plans into 10 district/3 province plans;
 - (xi) Develop relevant terms of reference for specialists involved in implementation consultants; and
 - (xii) Conduct necessary stakeholder consultations and incorporate their views and comments in design.

d. Outputs

- (i) Design report on of PES pilots, marine valuation methodology, sustainable financing and business plans and related tracking tool sections;
- (ii) Relevant inputs to CEO endorsement documents; and
- (iii) Preparation of relevant terms of references.

8. Community Participation/Social Specialist (National, 2 p-m, intermittent)

a. Responsibilities: The Community Participation/Social Specialist will be responsible for identification of project stakeholders and important social and participation issues; the consultant will work closely with the team to support stakeholder consultations and review safeguards. The background in marine biodiversity issues is preferred.

b. Qualifications: graduate degree in management, social science or related field with at least 5 years experience in community development projects in Indonesia. Experience in Marine resource projects is preferred. Proficiency in both English and Bahasa Indonesia.

c. Tasks

- (i) Assist gathering of relevant information from field sites and to assist project team to organize field consultations and meetings;
- (ii) Assist in developing and coalescing baseline monitoring information;
- (iii) Assist in identification of key stakeholders;
- (iv) Assist in conducting stakeholder consultations and meetings;
- (v) Provide professional recommendation on design of appropriate social participation and consultative processes to be pursued in the implementation of sub-components;
- (vi) Develop social action plan work schedule; training and design capacity building for project sub-components;
- (vii) Provide recommendations for mitigating potential areas of conflict between stakeholders;
- (viii) Identification of stakeholders and conduct required stakeholder consultation for GEF including for safeguards and provide inputs so that social and gender safeguard requirements are adequately covered under the GEF CEO endorsement document;
- (ix) Based on GEF project identification form, the specialist will support activities for (a) establishment of 8 new MPA management boards; (b) development of 10 OPMs for MPAs; (c) implementation of priority OMP MPA conservation actions in 10 sites; (d) coordinated implementation of interagency/community patrols and enforcement; (f) ecosystem-based fisheries management and fisheries stock assessment;
- (x) Support the Team Leader in all stakeholder consultations;
- (xi) Support the Team Leader in field data collection related to project design including MPA biodiversity tracking tool preparation; and
- (xii) Document community participation in PPG design processes, upholding ADB and GOI social safeguards.

d. Outputs:

- (i) Report on public consultations and safeguards and surveys;
- (ii) Relevant inputs to CEO endorsement documents; and
- (iii) Preparation of relevant terms of references.

COST ESTIMATES AND FINANCING PLAN
(\$'000)

Item	Original Cost	Additional Funding	Revised Cost
A. Asian Development Bank^a			
1. Consultants			
a. Remuneration and per diem			
i. International consultants (36 person-months)	381.0		381.0
ii. National consultants (48 person-months)	96.0		96.0
b. International and local travel	38.0		38.0
c. Reports and communications	5.0		5.0
2. Equipment ^b	15.0		15.0
3. Workshops, training, seminars, and conferences ^c	127.0		127.0
4. Surveys and studies	65.0		65.0
5. Miscellaneous administration and support costs ^d	225.0		225.0
6. Contingencies	48.0		48.0
Subtotal (A)	1,000.0		1,000.0
B. Global Environment Facility^e			
1. Consultants			
a. Remuneration and per diem			
i. International consultants (34 person-months)	354.0	90.0	444.0
ii. National consultants (598 person-months)	1,463.0	40.0	1,503.0
b. International and local travel	802.0	20.0	822.0
c. Reports and communications	222.0		222.0
2. Equipment ^b	913.0		913.0
3. Workshops, training, seminars, and conferences ^c	1,488.0	15.0	1,503.0
4. Surveys and studies	3,794.0		3,794.0
5. Miscellaneous administration and support costs ^d	725.0		725.0
6. Contingencies	1,457.0	35.0	1,492.0
Subtotal (B)	11,218.0	200.0	11,418.0
C. Government Financing^f			
1. Office accommodation and transport	1,050.0		1,050.0
2. Remuneration and per diem of counterpart staff	1,650.0		1,650.0
3. Contingencies	300.0		300.0
Subtotal (C)	3,000.0		3,000.0
Total (A + B + C)	15,218.0	200.0	15,418.0

^a Financed by the Asian Development Bank's Technical Assistance Special Fund (TASF-other sources).

^b Includes field and office equipment, vehicles, pilot demonstration and materials for research and livelihood activities. Equipment will be turned over to the government agencies concerned upon TA completion. Details are provided in Supplementary Appendix D, Table 1.

^c Details are provided in Supplementary Appendix D, Table 2.

^d Includes support staff costs, communications and transport costs, public awareness campaigns, reports, publications, knowledge products, and civil works (e.g. monitoring, control, and surveillance base stations, and watch towers).

^e Administered by the Asian Development Bank.

^f Each of the governments of Indonesia, Malaysia, and the Philippines will contribute \$1 million equivalent (in kind).

Source: Asian Development Bank estimates.



Memorandum

Southeast Asia Department
 Environment, Natural Resources and
 Agriculture Division (SEER)
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Asian Development Bank

6 August 2012

For Approval of Para. 6 *ole* *A. Heenan*

To: Javed H. Mir, Director, SEER

Through: Ki Hee Ryu, Unit Head, Project Administration, SEER

From: Pavit Ramachandran, Environment Specialist, SEER *h*

Subject: **RETA 7813: Coastal and Marine Resources Management in the Coral Triangle Southeast Asia**
- Proposed Minor Change in Scope

A. Background Information

1. The RETA was approved on 18 May 2011, with an original TA amount of \$12,218,182, comprising the following: \$1,000,000, TASF; and \$11,218,182 GEF. The RETA will result in the increased resilience of coastal and marine ecosystems and human communities in the Coral Triangle Southeast Asia (CT3), covering Indonesia, Malaysia, and the Philippines. The TA will support the introduction of more effective management of coastal and marine resources, and those associated with coral reef ecosystems, to build their resilience in a period of increased threats from climate change and human-induced impacts, maintaining ecosystem integrity and productivity and ensuring the improved socioeconomic status of coastal communities.

2. The outcome will be improved management of coastal and marine resources established in the Sulu-Sulawesi Marine Ecoregion Priority Seascape within the Coral Triangle. The following are the RETA's intended outputs: (i) policy and institutional frameworks for sustainable coastal and marine ecosystem management improved; (ii) ecosystem-based approach to coastal and marine resources management pilot tested; and (iii) effective project management established by ADB and the CT3 governments.

B. Current Status of Project Implementation

3. The CT3 implementing project structures and staffing are in place in the focal agencies, namely, (i) the Ministry of Marine Affairs and Fisheries, Indonesia; (ii) the National Oceanography Directorate of the Ministry of Science, Technology, and Innovation, Malaysia; and (iii) the Department of Environment and Natural Resources, Philippines. The international project coordinator/M&E specialist was mobilized during the third week of September 2011 and will manage the operations of the TA coordination unit at ADB, design and establish the project performance management system, and monitor the activities of the participating countries during TA implementation. For the project management consultant (PMC), contract negotiations

with first-ranked consulting firm were held on 25 July 2012. Expected mobilization date is on 13 August 2012, with the PMC's assignment covering a duration of four years.

C. Proposed Change in Scope and Implementation Arrangements

4. A portion of the RETA 7813 funds will also be used to develop a Scaled-Up Investment Program for Coastal and Marine Resources Management, including Coral Reef Rehabilitation and Management (G3). This program has been identified by the Government of Indonesia as a national project for implementing the Coral Reef Rehabilitation and Management Project-Coral Triangle Initiative (COREMAP-CTI). The support will cover a feasibility study for the identified COREMAP-CTI project. This will include development of targets, overall costing and identification of feasible geographic coverage areas. It is envisaged that the investment program will cover wider geographical areas than those covered by COREMAP 2. Attachment 1 provides the terms of reference for the proposed consulting firm to be recruited to conduct preparatory activities for the proposed COREMAP III project, with inputs of 11 person-months and 28 person-months of international and national consulting inputs, respectively. The estimated budget for the proposed firm is \$470,000 (attachment 2). Recruitment of the consulting firm is underway, using the quality-based cost selection method and requiring biodata technical proposals from the short-listed firms. The consulting services recruitment notice was posted on 21 June 2012, wherein 6 firms expressed their interest. Request for proposals were issued to the 4 shortlisted firms on 18 July 2012. The technical proposals that were received are currently being evaluated.

D. Staff Views

5. COSO, CTL, and OGC have been consulted for this proposed minor change in scope, and their responses/comments are attached (attachment 3). As the project completion date is 30 June 2015, and the PMC is mobilized with a contract completion date on 12 August 2016, a separate memo for the extension of the RETA completion date from 30 June 2015 to 31 December 2016 will be prepared.

E. Recommendation

6. This memorandum seeks Director, SEER's approval (per PAI 5.09, para. 35) of the request for minor change in scope under the above RETA, recommending a RETA fund allocation of \$470,000 for preparatory activities for the proposed COREMAP-CTI project.

Attachments

cc: Director General, SERD; Principal Director, COSO; Deputy Director General, SERD; Assistant Controller, CTLA; Director, COS2; D. Pham, CTIS-TA2; E. Fischelis, OGC; M. Nasimul Islam, SEER; J. Pedersen, COS2

PR/etc

DETAILED TERMS OF REFERENCE OF CONSULTANTS

A. Overview

1. The detailed terms of reference of consultants who will provide technical assistance and project management support to the Coral Triangle Southeast Asia (CT3) implementing agencies throughout the duration of the Project is presented below. An international consulting firm will be engaged by the Asian Development Bank (ADB) following the Bank's *Guidelines on the Use of Consultants* (2010, as amended from time to time) (see Annex A for details). The proposed organization of the consulting services is shown in Figure 1.

B. Project Management Consultant (PMC)(Firm)

2. An international consulting firm will be engaged by ADB to serve as PMC with the responsibility of providing the day-to-day technical and administrative support to the CT3 national project coordination offices (NPCOs) in project implementation, including (i) detailed work planning, (ii) coordinating the implementation of demonstration/pilot projects, (iii) procurement of goods and services, (iv) financial management, and (v) documentation and reporting. The PMC will provide the services of (i) an international team leader/project management specialist; (ii) three national deputy team leaders/institutional development specialists; (iii) a coastal resources management (CRM) policy specialist and knowledge management specialist at the Coral Triangle Initiative (CTI) regional secretariat; and (iv) short-term international and national technical specialists, who will provide specialized inputs in the conduct of studies and various technical analyses, depending on the specific requirements of the countries. The PMC will submit to the ADB project officer a project inception report, quarterly reports, a mid-term report, draft final report, and final report, in soft copy and 5 hard copies to be distributed to ADB, CT3 national coordination committees, and the CTI regional secretariat.

1. Project Management Consultants

a. Team Leader/Project Management Specialist (international, 24 person-months)

3. Under the overall direction and guidance of ADB's Natural Resources Economist assigned to manage the Project, the team leader/project management specialist will be primarily responsible for overall direction, supervision, and coordination of the consultant team. He/she will be mainly responsible for the following:

- (i) Preparation of the overall project work plan, including task assignments of individual consultants;
- (ii) Coordination of project inputs;
- (iii) Ensuring the consolidation of country reports and documents (including country work plans, progress and financial reports, and statement of expenses) and reporting these to the international project coordinator;
- (iv) Coordination and liaison with CTI development partners (such as the United States Coral Triangle Support Program [US CTSP], Australian Agency for International Development [AusAID]), international nongovernment organizations [NGOs] and other stakeholder groups, including national and local government officials, private investors, coastal community representatives, and local

- nongovernment organizations (NGOs);
 - (v) Financial management and subcontracting of services to external providers (e.g., academic institutions, training organizations, local NGOs and community-based organizations [CBOs]); and
 - (vi) Preparation of inception, quarterly progress reports, midterm report, and draft final and final reports.
4. The expected outputs of the team leader/project management specialist are:
- (i) Consolidated annual work and financial plans for the whole Project; and
 - (ii) Inception reports, quarterly progress reports, mid-term report and draft final and final reports.

**b. Financial Management/Procurement and Contract Specialist
(international, 18 person-months):**

5. The financial management/procurement and contract specialist will ensure the effective and efficient conduct of all financial management activities associated with the project, in full compliance with the requirements and procedures of ADB and the respective governments, where applicable. The Specialist will advise the regional program management office (RPMO) and NPCO on procurement and contracting procedures, administration, and management; and provide on-the-job training to the RPMO, NPCO, and implementing agency (IA) staff in appropriate methods of procurement and contract management. Specifically, he/she will perform the following tasks:

- (i) Establish the project financial management system in accordance with ADB requirements. This will entail preparation of specifications and installation of appropriate accounting system to ensure that transactions are properly processed and recorded in accordance with the ADB *TA Disbursement Handbook* and the respective government requirements;
- (ii) Provide on-the-job training to the administrative and financial management officers of RPMO and NPCOs to ensure that project expenditures are incurred in accordance with ADB regulations;
- (iii) Prepare the necessary financial reports and statements for quarterly progress reports, audit reports, midterm review and project completion reports;
- (iv) In close liaison with the team leader/project management specialist/project management specialist, supervise the preparation of annual work plan and budget, including the consolidation of inputs by other consultants and stakeholders;
- (v) Familiarize the RPMO, NPCO, and IA staff with the procurement requirements of the Project, including specific ADB's *Guidelines for Procurement*; develop the contracting capacity of the RPMO, NPCO, and IA by providing on-the-job training to transfer knowledge;
- (vi) Based on the procurement requirements of the project components, and in coordination with the team leader/project management specialist/project management specialist, lead in the preparation of the detailed procurement plans and packages, and determine realistic time-bound schedules for procurement, including parallel and sequential steps for completing procurement activities from initial planning to delivery of goods and services;
- (vii) Advise and assist the project staff in organizing and managing procurement activities, review the appropriateness of various procurement packages with

respect to their methods of procurement, ensure that procurement can be undertaken in the most efficient and cost-effective manner in accordance with ADB guidelines applicable to the Project;

- (viii) Assist the RPMO and NPCO in establishing appropriate pre-qualification procedures for bidders where these are required;
- (ix) Assist in preparing bidding documents, including (a) invitation to bid, (b) instructions to bidders, (c) form of bid, (d) form of contract, (e) conditions of contract, both special and general, (f) specifications and drawings, (g) list of goods or bill of quantities, (h) delivery time or schedule of completion, and (i) all the necessary appendixes and formats;
- (x) Advise the RPMO and NPCO on the preparation of documents for procurement of equipment and the procedures on bidding, contract award, delivery, and payments;
- (xi) Advise the RPMO and NPCO on the application of procedures and requirements related to bid opening, evaluation, and award of contracts, with particular attention to the time allowance for the preparation of bids, bid opening procedures, circumstances related to clarifications or alterations of bids, confidentiality, examination of bids, evaluation and comparison of bids, and applicable domestic preferences;
- (xii) Provide an interpretation on contract provisions and (where appropriate) assist in the mediation between contracting parties should any dispute arise between them;
- (xiii) Establish a procurement monitoring system at the RPMO and NPCO to allow the collection and recording of procurement data for the purpose of (a) timely information exchange, submission, and approval of terms of reference, shortlists, and other requirements; (b) tracking all necessary and critical procurement actions and activities including advertising, bidding, contract award, and completion time for individual contracts; (c) prompt reporting of contract award information by the RPMO to ADB; and (d) preparation of quarterly reports to ADB; and
- (xiv) Develop a contract management system to ensure that records and data are stored systematically, and cross-referenced with the financial accounts of the Project. The system must allow safekeeping of procurement documentation for easy retrieval and referencing, with adequate paper trails in accordance with generally accepted standards, and must be designed to also support the disbursement, reporting, and accounting requirements of the Project. Familiarize the PMO staff with the documentation requirements of TA disbursement applications, as well as the necessary records that the Project must keep to support these TA disbursement applications; and
- (xv) Carry out any other activities that are assigned by the team leader/project management specialist/project management specialist and/or project officer.

6. The expected outputs of the financial management/procurement and contract specialist are:

- (i) Financial/audit reports and statements prepared;
- (ii) Financial management system established;
- (iii) Procurement plans, packages, time-bound schedules for procurement developed;
- (iv) Procurement monitoring system established; and
- (v) Contract management system established.

**c. Deputy Team Leaders/Institutional Development Specialists
(national, 3 consultants [1 consultant per country], 144 person-months [48 person-months/consultant])**

7. The deputy team leaders/institutional development specialists will serve as the national team leaders with responsibility for overall direction, supervision, and coordination of in-country activities in an efficient and effective manner. Specifically, each deputy team leaders/institutional development specialist will assist the international team leader/project management specialist in managing project implementation in the country of assignment, specifically in the following:

- (i) Preparation of the project work plan for the country of assignment, including task assignments of individual consultants;
- (ii) Coordination of Project inputs and management of the NPCO in the assigned country;
- (iii) Consolidation of country reports and documents (including country work plans, progress and financial reports, and statement of expenses) and reporting these to the international team leader/project management specialist;
- (iv) Coordination and liaison with CTI development partners (such as the US CTSP, AusAID, international NGOs) and other stakeholder, including national and local government officials, private investors, coastal community representatives, and local NGOs for CTI activities in the assigned country;
- (v) Financial management, including disbursement of funds to the CTI national coordination committees (NCCs) and consultants and monitoring of expenses against financial plan;
- (vi) Subcontracting of services to external providers (e.g., academic institutions, training organizations, local NGOs and CBOs); and
- (viii) Preparation of inputs for the inception, quarterly progress reports, midterm report, and draft final and final reports.

8. The expected outputs of the deputy team leaders/institutional development specialists are:

- (i) Country annual work and financial plans; and
- (ii) Country quarterly progress reports, mid-term report, and draft final and final reports.

2. Technical Consultants

a. International

(i) CMRM Specialist (24 person-months)

9. The CMRM specialist will provide technical inputs to the Project, particularly in Outputs 1 and 2, including the following:

- (i) Technical review of the reports of international consultants;
- (ii) Develop awareness among, and build integrated coastal zone management (ICZM) skills of, all concerned stakeholders;
- (iii) Identify and develop consensus on ICZM principles, processes, and scope;

- (iv) Develop a work plan for implementing ICZM processes;
- (v) Supervise work programs related to CMRM activities;
- (vi) Review policy, law and regulatory frameworks for ICZM; and
- (vii) Develop and integrate ICZM within other government planning procedures.

10. The expected outputs of the CMRM specialist are:

- (i) Work plan on marine and CMRM-related activities; and
- (ii) Written guidelines on the various CMRM activities under the Project.

(ii) Climate Change Specialist (6 person-months)

11. Under the supervision of the team leader/project management specialist and CMRM specialist (international) and ADB's Natural Resources Economist assigned to manage the Project, the climate change specialist will provide technical assistance to the deputy team leader/institutional development specialists and the CMRM specialists of the CT3 and implementing agencies in conducting vulnerability assessments at local scales and in identifying recommendations for adaptation by coastal communities. He/she will coordinate the preparation and publication of reports on vulnerability assessments and recommendations for adaptation and preparation of public awareness campaign materials.

12. The expected outputs of the climate change specialist are the guidelines on climate change in conducting vulnerability assessment and in implementing adaptation.

(iii) Monitoring, Control, and Surveillance (MCS) Specialist (12 person-months)

13. Under the supervision of the team leader/project management specialist and CMRM specialist (international) and ADB's Natural Resources Economist assigned to manage the Project, the MCS specialist will provide technical advice in the development and implementation of an MCS system and provide technical inputs to introduce the ecosystem approach to fisheries management (EAFM) and help in the preparation of fisheries management activities (including support to community-based activities) in the CT3. Specifically, he/she will:

- (i) Carry out a rapid review of the current fisheries MCS systems in the CT3 and identify needs for enhancement; and
- (ii) Recommend appropriate interventions to strengthen existing MCS systems and enforce biodiversity regulations and control of illegal fishing activities in sensitive areas in the CT3.

14. The expected output of the MCS specialist is a report on assessment and recommended measures to improve the MCS system in CT3.

(iv) Sustainable Financing Specialist/Resource Economist (9 person-months)

15. Under the supervision of the team leader/project management specialist and CMRM specialist (international) and ADB's Natural Resources Economist assigned to manage the Project, the sustainable financing expert/resource economist will coordinate the regional activity on building sustainable financing under the Project to strengthen environmental management in

the coastal and marine ecosystems in the CT3. Specifically, in close partnership with the NCCs in each of the CT3, he/she will be responsible for the following:

- (i) Coordinate the filling-in of gaps in the GEF tracking tools for sustainable financing of marine protected areas (MPAs) and networks;
- (ii) Coordinate bottom-up protocols to building sustainable financing of the network of transboundary MPAs;
- (iii) Provide guidance in establishing sustainable financing of networks of marine reserves and MPAs in national activities; and
- (iv) Coordinate the midterm and final review of the sustainable financing, according to the GEF biodiversity focal area tracking tools.

16. The expected outputs of the sustainable financing specialist/resource economist are reports on sustainable financing mechanisms and models in the CT3.

b. National

(i) CMRM Policy Specialist, CTI Regional Secretariat (national, 24 person-months over two years)

17. The CMRM specialist will be responsible for assisting in coordinating activities under the CTI regional plan of action (RPOA), ensuring that they are complementary and cost-effective, particularly in the area of CMRM policies. He/she will be responsible for coordinating the CMRM policies and activities of the CTI regional secretariat vis-à-vis those of the CT3 NPCOs. The CMRM specialist will report to the RPMO on a monthly basis. He/she shall submit substantive reports on technical meetings and workshops conducted under the RPOA, in the development of the system for monitoring the impacts of the RPOA, and in the implementation of the monitoring system by the Coral Triangle countries (Indonesia, Malaysia, Philippines, Papua New Guinea, Solomon Islands, Timor-Leste) (CT6).

18. The expected outputs of the CMRM specialist are quarterly progress reports on RPOA activities.

(ii) Knowledge Management Specialist, CTI Regional Secretariat (national, 24 person-months over two years)

19. The knowledge management specialist will be responsible for the inventory of CTI knowledge resources in coordination with the CT3. He/she shall report to the RPMO on a monthly basis and perform the following functions:

- (i) Develop and implement communications strategy suitable for the regional secretariat;
- (ii) Write brief news for the web and CTI regional newsletter on activities and accomplishments of the country related to national plans of action (NPOA) implementation and other CTI-related matters;
- (iii) Package, distribute, and share appropriate communication materials to key stakeholders, including policymakers and policy implementers in support of NPOA goals; and
- (iv) Write and repackage materials for the understanding of the CT6 decision-makers and CTI stakeholder- implementers.

20. The expected outputs of the knowledge management specialist are:

- (i) Monthly reports on knowledge management efforts of the CTI regional secretariat;
- (ii) Four knowledge management products per year; and
- (iii) Monthly developments on CTI RPOA activities uploaded in the Global Environment Facility (GEF) International Waters Learning Exchange and Research Network (IW:LEARN) website.

(iii) Climate Change Specialists (3 consultants [1 consultant each for Indonesia, Malaysia, and the Philippines], 39 person-months [18 person-months for Indonesia, 6 person-months for Malaysia, and 15 person-months for the Philippines])

21. The climate change specialists will coordinate the in-country activities on vulnerability assessment and adaptation to climate change under the Project to strengthen environmental management in the coastal and marine ecosystems in the CT3. Specifically, in close partnership with the NPCOs in each of the CT3 countries, they will be responsible for the following:

- (i) Coordination of in-country activities in assessing the vulnerability of coastal ecosystems and human communities to climate change;
- (ii) Organization of consultations with agencies and experts of the CT3 to agree on an appropriate methodology at local scale (<100 kilometers);
- (iii) Coordination of in-country activities in developing adaptation to potential impacts of climate change based on vulnerability assessments and build resiliency of local communities;
- (iv) Build research collaboration and linkages with national and regional research activities on the impacts of climate change; and
- (v) Integrate goals, particularly those pertaining to building resiliency to impacts of climate change, of the Convention on Biological Diversity, GEF biodiversity and international waters focal areas, CTI RPOA, and the Sulu-Sulawesi Marine Ecoregion Sub-Committees on MPAs and Networks and Sustainable Fisheries Action Plans.

22. The expected outputs of the climate change specialists are:

- (i) Terms of reference (TORs) for outsourcing of studies on vulnerability assessments;
- (ii) Monitoring reports on vulnerability assessment studies; and
- (iii) Progress reports on pilot demonstration on adaptation measures.

(iv) Legal Specialists (3 consultants [1 for each for Indonesia, Malaysia, and the Philippines], 23 person-months [8 person-months for Indonesia, 7 person-months for Malaysia, and 8 person-months for the Philippines])

23. The legal specialists will provide advice in establishing legal frameworks as necessary for the transboundary establishment of marine protected areas, illegal, unreported, and unregulated (IUU) fishing in CT3, and MCS system. He/she also will provide advice in formulating management regulations in large marine ecosystems.

24. The expected outputs of the legal specialists are recommendations on the legal framework in establishing transboundary MPAs, IUU fishing, and MCS in CT3

(v) CMRM Specialists (3 consultants [1 each for Indonesia, Malaysia, and the Philippines], 98 person-months [33 person-months for Indonesia, 27 person-months for Malaysia, and 38 person-months for the Philippines])

25. The CMRM specialists will coordinate the implementation of the regional and national activities in the CT3 with the CTI NCCs and implementing agencies. Specifically, they will assist and support the Program Coordinator/M&E specialist in the following tasks:

- (i) Organization of the inception meeting among the CTI NCCs, implementing agencies, and stakeholders to prepare national workplan of activities;
- (ii) Development of a project monitoring and evaluation (M&E) and databank framework and system that highlights the interlinkages between biodiversity, IW, and climate change objectives in a single project/program;
- (iii) Development of collaborative frameworks and coordination modalities to link the project to and learn from other relevant GEF-supported projects in relevant focal areas;
- (iv) Development of a strong alliance with private sector developers in CMRM to support the CTI;
- (v) Development of M&E for national activities in consultation with the CT3 NCCs and other consultants;
- (vi) Coordination of the activities of consultants and the CTI NCCs;
- (vii) Technical review of the reports of consultants and national activities;
- (viii) Uploading of reports and lessons learned on the GEF IW:LEARN website;
- (ix) Conduct of monthly meetings with CTI NCCs and implementing agencies; and
- (x) Integration of activity results and provision of advice in a timely and effective manner to the CTI NCCs in strengthening policies and institutions.

26. The expected outputs of the legal specialists are:

- (i) Annual work plans on CMRM activities;
- (ii) Guideline on M&E system for national activities; and
- (iii) Report on lessons learned and examples of good CMRM practices.

(vi) MCS Specialists (3 consultants [1 for each for Indonesia, Malaysia, and the Philippines], 32 person-months [12 person-months for Indonesia, 8 person-months for Malaysia, and 12 person-months for the Philippines])

27. The MCS specialists will provide technical advice in the development and implementation of an MCS system in the CT3. Specifically, they will carry out a rapid review of

the current fisheries MCS systems in the CT3 and identify needs for enhancement and recommend appropriate interventions to strengthen existing MCS systems and enforce biodiversity regulations and control of illegal fishing activities in sensitive areas in the CT3.

28. The expected output of each MCS specialist is a report on recommended improvements on the MCS system in sensitive areas in CT3.

(vii) Sustainable Financing Experts/Resource Economists (2 consultants [1 for each for Indonesia and the Philippines], 64 person-months [24 person-months for Indonesia and 40 person-months for the Philippines])

29. The sustainable financing experts/resource economists will develop the concept framework of surveys/studies on the economic valuation of MPAs in selected sites in Indonesia and Philippines. He/she will assist in CTI NCC efforts to cost out their national plan of actions, including the establishment of sustainable financing mechanisms for MPAs.

30. The expected outputs of the sustainable financing experts/resource economists are:

- (i) Concept framework of surveys/studies to estimate the economic values of MPAs;
- (ii) TORs and bidding documents for procurement of services for the economic valuation of MPAs;
- (iii) Progress reports on the implementation of pilot projects on sustainable financing of MPA management; and
- (iv) Report on estimated costs of national plans of action.

(viii) Geographic Information System (GIS) Specialist – Indonesia (12 person-months)

31. The GIS specialist will coordinate the gathering of data and information on coastal and marine resources, integrating these into a database, and developing products for decision-makers. Specifically, in close partnership with the relevant units in the Ministry of Marine Affairs and Fisheries, provincial and district governments and other specialists, he/she will be responsible for coordinating the following:

- (i) Establishment of a database for marine waters, coastal areas, and small islands in the Sulawesi Seascape;
- (ii) Collection of data and information (published and unpublished) and their storage in a GIS database;
- (iii) Procurement and ground-truthing of satellite images to determine the distribution and extent of mangrove forests, seagrass beds, coral reefs in the Sulawesi Seascape; and
- (iv) Gathering and/or updating of known data on ethnobiological and socioeconomic information on marine resources and their uses.

32. The expected outputs of the GIS specialist are:

- (i) TORs, specifications, and bidding documents on the procurement of satellite images for coastal and marine resources; and
- (ii) TORs, specifications, and bidding documents on the procurement of services for ground-truthing of satellite images.

(ix) Microenterprise Development Specialist – Malaysia (12 person-months)

33. The microenterprise development specialist will provide technical support in developing micro-enterprises in Malaysia, including the study of the economic feasibility of enterprises and in developing markets for products and services produced by the enterprises.

34. The expected outputs of the microenterprise development specialist are progress reports on:

- (i) Mariculture and processing of green mussels in Marudu; and
- (ii) Development of markets by barter trade with Balabac, Philippines and export studies to Brunei, Indonesia, and West Malaysia.

(x) Public Awareness Specialist – Malaysia (9 person-months)

35. The public awareness specialist will provide technical advice in the preparation of information, education, and communication (IEC) materials and training on EAFM that is appropriate for the target audience (e.g., Department of Fisheries and private sector in Sabah, Malaysia). He/she will also review and edit all the materials that will be uploaded to the IW: LEARN website of GEF.

36. The expected outputs of the public awareness specialist are:

- (i) TORs and bidding documents for procurement of services of training providers for IEC; and
- (ii) Progress reports on the implementation of IEC training and information uploaded in IW: LEARN website of GEF.

(xi) Sustainable Ecotourism Specialist – Malaysia (4 person-months)

37. The sustainable ecotourism specialist will provide technical advice to resource managers on best practices in developing sustainable ecotourism activities. He/she will recommend sustainable tourism activities that are of the appropriate type and scale for coastal communities and stakeholders. He/she will prepare and/or coordinate the training of skills needed by the coastal communities.

38. The expected outputs of the sustainable ecotourism specialist are:

- (i) TORs and bidding documents for procurement of services of training providers on sustainable eco-tourism; and
- (ii) Progress reports on implementation of ecotourism training and pilot testing of sustainable eco-tourism.

(xii) Key Biodiversity Area (KBA) (Marine) Coordinators–Philippines (2 consultants, 48 person-months)

39. The marine KBA coordinators will coordinate the gathering of data and information on the ecology of the areas and the distribution, abundance, and resource uses of species in the

Philippines. The marine KBA coordinators will prepare and implement a monitoring plan for three years with stakeholders.

40. The expected outputs of the marine KBA coordinators are:

- (i) Monitoring plans for selected KBAs;
- (ii) Progress reports on the implementation of selected KBAs;
- (iii) TORs and bidding documents for procurement of services for studies on sustainable financing of selected MPAs in National Integrated Protected Area System.

**RETA 7813 - - Preparatory Activities for the Proposed COREMAP III Project
Cost Estimates**

1.	Consultants	
a.	Remuneration and Per Diem	
1.	International Consultants (11 person months)	190,000
2.	National Consultants (28 person months)	82,000
b.	International Travel:	23,000
	Local Travel:	35,000
c.	Report and Communications	5,000
2.	Equipment	10,000
3.	Workshops, trainings, seminars, conferences	25,000
4.	Surveys and studies	35,000
5.	Miscellaneous administration and support costs	10,000
6.	Contingencies	55,000
	Total	<hr/> \$470,000