

# GEF - PROJECT IMPLEMENTATION REPORT (PIR)

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## Table of contents

1 PROJECT IDENTIFICATION .....	3
1.1 Project Details .....	3
1.2 Project Description .....	4
1.3 Project Contacts.....	5
2 Overview of Project Status.....	6
2.1 UNEP PoW & UN.....	6
2.2. GEF Core and Sub Indicators .....	8
2.3. Implementation Status and Risks .....	8
2.4 Co Finance .....	9
2.5. Stakeholder .....	10
2.6. Gender .....	16
2.7. ESSM .....	16
2.8. KM/Learning.....	17
2.9. Stories .....	19
3 Performance.....	20
3.1 Rating of progress towards achieving the project outcomes .....	20
3.2 Rating of progress implementation towards delivery of outputs (Implementation Progress) .....	27
4 Risks.....	42
4.1 Table A. Project management Risk .....	42
4.2 Table B. Risk-log.....	42
4.3 Table C. Outstanding Moderate, Significant, and High risks.....	46
5 Amendment - GeoSpatial.....	53
5.1 Table A: Listing of all Minor Amendment (TM).....	53
5.2 Table B: History of project revisions and/or extensions (TM) .....	53

**UNEP GEF PIR Fiscal Year 2024**  
Reporting from 1 July 2023 to 30 June 2024

## 1 PROJECT IDENTIFICATION

### 1.1 Project Details

<b>GEF ID:</b> 9542	<b>Umoja WBS:</b> SB-019782
<b>SMA IPMR ID:</b> 109901	<b>Grant ID:</b> S1-32GFL-000618
<b>Project Short Title:</b> NCA Thailand	
<b>Project Title:</b> Integration of Natural Capital Accounting in Public and Private Sector Policy and Decision-making for Sustainable Landscapes	
<b>Duration months planned:</b>	54
<b>Duration months age:</b>	22
<b>Project Type:</b>	Medium Sized Project (MSP)
<b>Parent Programme if child project:</b>	
<b>Project Scope:</b>	National
<b>Region:</b>	Asia Pacific
<b>Countries:</b>	Thailand
<b>GEF Focal Area(s):</b>	Biodiversity
<b>GEF financing amount:</b>	\$ 2,000,000.00
<b>Co-financing amount:</b>	\$ 6,150,000.00
<b>Date of CEO Endorsement/Approval:</b>	2019-01-24
<b>UNEP Project Approval Date:</b>	2022-03-17
<b>Start of Implementation (PCA entering into force):</b>	2022-03-29
<b>Date of Inception Workshop, if available:</b>	2023-02-09
<b>Date of First Disbursement:</b>	2022-08-23
<b>Total disbursement as of 30 June 2024:</b>	\$ 1,104,921.00
<b>Total expenditure as of 30 June:</b>	\$ 457,436.00

<b>Midterm undertaken?:</b>	No
<b>Actual Mid-Term Date, if taken:</b>	
<b>Expected Mid-Term Date, if not taken:</b>	2024-08-01
<b>Completion Date Planned - Original PCA:</b>	2027-02-23
<b>Completion Date Revised - Current PCA:</b>	2027-02-23
<b>Expected Terminal Evaluation Date:</b>	2026-06-30
<b>Expected Financial Closure Date:</b>	2028-06-30

## 1.2 Project Description

Project description: The project will facilitate the development of a Natural Capital (NC) accounting system - based on the UN-SEEA standards - in Thailand as a tool to measure the changes in the stock of natural capital at a variety of scales, and to integrate the value of ecosystem services into the national accounting and reporting systems. Project support will specifically focus on piloting the development of Natural Capital Accounts (NCAs) linked to the national satellite accounts for the water resources and the tourism sectors in Thailand. The inter-dependencies of each sector on the natural capital, and associated ecosystem services, will be assessed under the project. The project will further support the process of incorporating the value of the natural capital stocks, as well as the ecosystem services that flow from these stocks, into public and private policies and decision-making processes for the tourism and water resource sectors. Project goal: To mainstream biodiversity into national, regional, and sectoral development strategies, actions and plans in Thailand. Project objective: To alleviate threats to biodiversity and ecosystem services in critical production landscapes in Thailand by integrating values of forests and other Natural Capital into policies and operations of key economic sectors. Executing agency: Ministry of Natural Resources and Environment (Office of Natural Resources and Environmental Policy and Planning) Main government: Ministry of Natural Resources and Environment (MNRE) and Ministry of Tourism and Sports: MOTS Other partners involved: Geo-Informatics and Space Technology Development Agency (Public Organization) (GISTDA), National Statistical Office (NSO), Office of the National Economic and Social Development Council (NESDC), Department of Tourism (DOT), Department of Water Resources (DWR), Department of Groundwater Resources (DGR), Department of National Parks and Wildlife (DNP), Biodiversity-Based Economic Development Organization (BEDO), National Science and Technology Development Agency (NSTDA) Component 1: of the project will be implemented at the National level, and seeks to: (i) develop a broad conceptual design of, and road map for, introducing a natural capital accounting system in Thailand; (ii) assess the inter-dependencies of the tourism sector and water resources on NC and ecosystem services; (iii) support the integration, at a national level, of NC information to national tourism and water resources satellite accounts; (iii) initiate the process of aligning the emerging NC information to the national water resources and tourism sector policy, planning and budgeting procedures; and (iv) start the process of introducing one viable market-based instrument for NC conservation into the national policy mix. Targeted Outcome: Increased national political commitment to reducing the impacts of production sectors on natural resources, based on knowledge, systems and policy capturing the economic value of natural capital. Component 2: of the project will be implemented at the provincial level (Krabi Province), and directed at the tourism sector and water resources in the province, focusing on the Krabi watershed and on nearshore marine and coastal ecosystems. Work under this component seeks to: (i) pilot the development of provincial NCAs for the

tourism sector and water resources; (ii) strengthen the enabling provincial and local government capacities to better integrate information from the provincial NCAs into regional policies, plans and budgets; and (iii) facilitate the active involvement of the private sector in mitigating environmental impacts and restoring and protecting nearshore marine and coastal ecosystems and watershed forests. Targeted Outcome: Improved planning, decision-making and management of natural resources in Krabi province, based on enhanced information and appreciation on the importance and economic value of functioning coastal ecosystems and intact water catchments to the tourism and water sectors. Component 3: of the project will enable and support the implementation of the outputs under Components 1 and 2. It will be implemented at both the national and provincial level, and seeks to: (i) build the competencies, skills and knowledge of a network of public and private practitioners and policy-makers in NC accounting, and its application for public and private policies and economic decision-making; and (ii) widely communicate and share emerging information and knowledge on NC accounting, and mainstream information from NCAs into development policy and planning processes. Targeted Outcome: Enhanced knowledge and awareness of natural capital accounting, and its benefits, provides the foundation for building inter-sectoral and inter-institutional partnerships.

### 1.3 Project Contacts

<b>Division(s) Implementing the project</b>	Ecosystems Division
<b>Name of co-implementing Agency</b>	
<b>Executing Agency (ies)</b>	Thailand Development Research Institute (TDRI)
<b>names of Other Project Partners</b>	Office of Natural Resources and Environmental Policy and Planning (ONEP) Policy and Planning (ONEP)
<b>UNEP Portfolio Manager(s)</b>	Johan Robinson
<b>UNEP Task Manager(s)</b>	Kavita Sharma
<b>UNEP Budget/Finance Officer</b>	Paul Vrontamitis
<b>UNEP Support Assistants</b>	Peerayot Sidonrusmee
<b>Manager/Representative</b>	Adis Israngkura, Ph.D.
<b>Project Manager</b>	Ms.Thippawan Keawmesri
<b>Finance Manager</b>	Ms.Thaneenun Pairojtachai
<b>Communications Lead, if relevant</b>	Adis Israngkura, Ph.D.

## 2 Overview of Project Status

### 2.1 UNEP PoW & UN

<b>UNEP Current Subprogramme(s):</b>	Thematic: Nature action subprogramme
<b>UNEP previous Subprogramme(s):</b>	
<b>PoW Indicator(s):</b>	<ul style="list-style-type: none"> <li>• Nature: (i) Number of national or subnational entities that, with UNEP support, adopt integrated approaches to address environmental and social issues and/or tools for valuing, monitoring and sustainably managing biodiversity.</li> <li>• Nature: (iii) Number of countries and national, regional and subnational authorities and entities that incorporate, with UNEP support, biodiversity and ecosystem-based approaches into development and sectoral plans, policies and processes for the sustainable management and/or restoration of terrestrial, freshwater and marine areas</li> </ul>
<b>UNSDCF/UNDAF linkages</b>	The Thai Government has launched the 20 Year National Strategies (2018-2037) as the long term guidelines on national development. Among the six national strategies. This NCA project contributes to 2 out of 6 strategies, they are, 4. Social equality and equity and 5. Sustainability of national biodiversity, environmental quality and natural resources
<b>Link to relevant SDG Goals</b>	<ul style="list-style-type: none"> <li>• Goal 6: Ensure availability and sustainable management of water and sanitation for all</li> <li>• Goal 14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development</li> <li>• Goal 15: Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss</li> </ul>
<b>Link to relevant SDG Targets:</b>	<ul style="list-style-type: none"> <li>• 6.1 By 2030, achieve universal and equitable access to safe and affordable drinking water for all</li> <li>• 6.3 By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally</li> <li>• 6.4 By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity</li> <li>• 6.5 By 2030, implement integrated water resources management at all levels, including through transboundary cooperation as appropriate</li> <li>• 6.6 By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes</li> <li>• 6.b Support and strengthen the participation of local communities in improving water and sanitation management</li> <li>• 14.1 By 2025, prevent and significantly reduce marine pollution of all kinds, in particular from land-based activities, including marine debris and nutrient pollution</li> <li>• 14.2 By 2020, sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts, including by</li> </ul>

	<p>strengthening their resilience, and take action for their restoration to achieve healthy and productive oceans</p> <ul style="list-style-type: none"> <li>• 14.4 By 2020, effectively regulate harvesting and end overfishing, illegal, unreported and unregulated fishing and destructive fishing practices and implement science-based management plans to restore fish stocks in the shortest time feasible, at least to levels that can produce maximum sustainable yield as determined by their biological characteristics</li> <li>• 14.5 By 2020, conserve at least 10 percent of coastal and marine areas, consistent with national and international law and based on the best available scientific information</li> <li>• 14.6 By 2020, prohibit certain forms of fisheries subsidies which contribute to overcapacity and overfishing, eliminate subsidies that contribute to illegal, unreported and unregulated fishing and refrain from introducing new such subsidies, recognizing that appropriate and effective special and differential treatment for developing and least developed countries should be an integral part of the World Trade Organization fisheries subsidies negotiation</li> <li>• 14.7 By 2030, increase the economic benefits to Small Island developing States and least developed countries from the sustainable use of marine resources, including through sustainable management of fisheries, aquaculture and tourism</li> <li>• 14.a Increase scientific knowledge, develop research capacity and transfer marine technology, taking into account the Intergovernmental Oceanographic Commission Criteria and Guidelines on the Transfer of Marine Technology, in order to improve ocean health and to enhance the contribution of marine biodiversity to the development of developing countries, in particular small island developing States and least developed countries</li> <li>• 14.b Provide access for small-scale artisanal fishers to marine resources and markets</li> <li>• 15.1 By 2020, ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements</li> <li>• 15.2 By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally</li> <li>• 15.3 By 2030, combat desertification, restore degraded land and soil, including land affected by desertification, drought and floods, and strive to achieve a land degradation-neutral world</li> <li>• 15.4 By 2030, ensure the conservation of mountain ecosystems, including their biodiversity, in order to enhance their capacity to provide benefits that are essential for sustainable development</li> <li>• 15.5 Take urgent and significant action to reduce the degradation of natural habitats, halt the loss of biodiversity and, by 2020, protect and prevent the extinction of threatened species</li> <li>• 15.6 Promote fair and equitable sharing of the benefits arising from the utilization of genetic resources and promote appropriate access to such resources, as internationally agreed</li> <li>• 15.8 By 2020, introduce measures to prevent the introduction and significantly reduce the impact of invasive alien species on land and water ecosystems and control or eradicate the priority species</li> </ul>
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	<ul style="list-style-type: none"> <li>• 15.9 By 2020, integrate ecosystem and biodiversity values into national and local planning, development processes, poverty reduction strategies and accounts</li> <li>• 15.a Mobilize and significantly increase financial resources from all sources to conserve and sustainably use biodiversity and ecosystems</li> <li>• 15.b Mobilize significant resources from all sources and at all levels to finance sustainable forest management and provide adequate incentives to developing countries to advance such management, including for conservation and reforestation</li> </ul>
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## 2.2. GEF Core and Sub Indicators

GEF core or sub indicators targeted by the project as defined at CEO Endorsement/Approval, as well as results

Indicators	Targets - Expected Value			Materialized to date
	Mid-term	End-of-project	Total Target	
5- Area of marine habitat under improved practices to benefit biodiversity	5,000 ha	40,000 ha	40,000 ha	In the Process.

Implementation Status 2023: 2nd PIR

## 2.3. Implementation Status and Risks

	PIR#	Rating towards outcomes (section 3.1)	Rating towards outputs (section 3.2)	Risk rating (section 4.2)
FY 2024	2nd PIR	S	S	M
FY 2023	1st PIR	HS	HS	M
FY 2022				
FY 2021				
FY 2020				
FY 2019				
FY 2018				
FY 2017				
FY 2016				
FY 2015				

Summary of status



Project implementation is progressing as planned. Begin the process of creating Ecosystem assets of Krabi Province, such as Ecosystem Extent Account (Physical Terms ,Extent Tables and Maps), extent accounts and accounting entries. Including (1) Conducted online training/tutorial on “Natural Capital Accounting based on UN-SEEA Framework” by Mr.Carl Obst, Director, IDEEA Group, Melbourne, Australia (9, 23 May and 7,20 June 2024) and (2) Conducted on the job training - Krabi NCA (Q-GIS) by Mr. Chakris Phithakrattanasakun, Geo-Informatics and Space Technology Development Agency (Public Organization): GISTDA. (2-3, 9-10, 16-17, 23-24 May 2024). And the area survey in Krabi Province (29-31 January 2024) for selecting activity areas (tourism sector and water resources) for pilot the implementation of the selected market-based instrument in Krabi province. Holding the Meeting Minutes Project Steering Committee of the project “Integration of Natural Capital Accounting in Public and Private Sector Policy and Decision-making for Sustainable Landscapes” No. 1/2567 (22 February 2024) and the Meeting Minutes The First Meeting on 3-Party Meeting TDRI, ONEP, and UNEP to follow up on project progress (19 June 2024).

Last year (2023), (1) Establishing and maintaining the inter-agency provincial working group for Krabi province (PWG) and Meeting Minutes the Project Steering Committee “Natural Capital Accounting for Tourism and Water Management Sectors of Krabi Province” (or the inter-agency provincial working group for Krabi province (PWG)) No.1/2023 (3 July 2023). (2) One-on-one meetings with key individuals at Krabi Province during 3-6 July 2023 as follows: Director of Provincial Strategy and Development Group Representative from Office of Krabi Province, Representative from Krabi Provincial Office of Natural Resources and Environment, Director of Office of Provincial Tourism and Sports, Director of Office of Provincial Industry, Director of Krabi Irrigation Project, Representative from Office of Krabi Provincial Statistics, Manager of Krabi Provincial Waterworks Authority, and Director of The Federation of Thai Industries, Krabi province. (3) Holding the Kick-off Meeting Integration of Natural Capital Accounting in Public and Private Sector Policy and Decision-making for Sustainable Landscapes “Ripples of Changes: Harnessing Natural Capital for Sustainability” and prepared a brochure showing project details to distribute at meetings. (18 August 2023). (4) Developing and preparing the Conceptual Framework for Natural Capital Accounting under the UN SEEA Standards The Case of Water Resources and the Tourism Industry in Thailand. (5) Developing of the short-term roadmap (2-3 years) for the development of NCA. (6) Assessing the inter-dependencies of the tourism sector on NC and ecosystem services (7) Assessing the inter-dependencies of the water resources sector on NC and ecosystem services (8) Conducting a water resources situation assessment for Krabi province (9) Conducting a tourism situation assessment for Krabi province and (10) Evaluating alternative market-based instruments (MBI),and select one viable instrument for further development.

## 2.4 Co Finance

<b>Planned Co-finance:</b>	\$ 6,150,000
<b>Actual to date:</b>	3,057,217
<b>Progress</b>	<b>Justify progress in terms of materialization of expected co-finance. State any relevant challenges:</b>  Planning to work with government agencies both in the central area and in Krabi province, Report of actual Co-Finance: January - December 2023 as

	<p>follows:</p> <ol style="list-style-type: none"> <li>1. Office of the National Economic and Social Development Board (NESDC) = 71,911 USD</li> <li>2. Department of National Parks, Wildlife and Plant Conservation = 300,034 USD</li> <li>3. Ministry of Tourism and Sports: Tourism Authority of Thailand = 33,484 USD and Department of Tourism =7,700 USD</li> <li>4. National Science and Technology Development Agency (NSTDA) = 689.52 USD</li> <li>5. Biodiversity-Based Economy Development Office (Public Organization): BEDO = 73,151 USD</li> <li>6. Land Development Department = 16,450 USD</li> <li>7. Department of Marine and Coastal Resources = 214,402 USD</li> <li>8. Royal Forest Department = 1,707,290 USD</li> <li>9. Department of Water Resources = 32,447 USD</li> <li>10. Krabi Provincial Environment and Natural Resources Office and Krabi Province = 546,268.17 USD</li> <li>11. Office of Natural Resources and Environmental Policy and Planning = 53,391 USD</li> </ol>
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## 2.5. Stakeholder

<b>Date of project steering committee meeting</b>	2024-02-22
<b>Stakeholder engagement (will be uploaded to GEF Portal)</b>	<p><b><u>2024-02-22</u></b></p> <p><b>Meeting Minutes the Project Steering Committee “Natural Capital Accounting for Tourism and Water Management Sector of Krabi Province” (or the inter-agency provincial working group for Krabi province (PWG)) No.1/2024. 22 February 2024, 13.30 – 16.00 PM. Meeting room 1003 Tipco Tower 2.</b> The project had many attendees from the committee members. The meeting discussed about Natural capital account framework (Tourism sector and water resources sector), the implementation of the natural capital account project for policy decision-making towards sustainable development 2023, and Project implementation and operational plan for the year 2024. The meeting provided feedback on the following views: (1) TDRI should present its implantation plan to the members in a way that is easier to understand. for instance, how natural capital account can be integrated into national policy. and how the marketing tools/mechanisms will be used in preparing such accounts, (2) selecting marketing tools/mechanisms should classify the buyers (those who get the benefits from the natural resources) and the sellers (those who take care of natural resources). Then, consider those who have an impact on these natural resources, (3) The principles of the NCA project should show the roles and cooperation of stakeholder groups regarding the conservation and use of terrestrial areas that affect water quality and tourism management. Participants in the meeting were representatives from 16 government agencies, including Department of Tourism, Department of Land Development,</p>

Department of Water Resource, Provincial Offices for Natural Resources and Environment Krabi, Krabi Province, the National Statistical Office of Thailand, the Tourism Authority of Thailand, National Science and Technology Development Agency, Office of the National Economic and Social Development Council, Department of Climate Change and Environment, the Royal Forest Department, the Department of National Park, Wildlife and Plant Conservation, Department of Marine and Coastal Resources, Office of the permanent Secretary Ministry of Natural Resources and Environment, Biodiversity-Based Economy Development Office (Public Organization) and United Nations Environment Programme.

**2024-06-06**

**One-on-one meeting with key personnel** at the Office of the Permanent Secretary, Ministry of Tourism and Sports to consult and exchange opinions on the process of preparing “Tourism Satellite Account-System of Environmental Economic Accounting (TSA-SEEA) of Thailand”, the personnel interviewed are (1) Mrs. Kesaraporn Wimonrat Plan and Policy Analyst Senior Professional Level (2) Miss Benyapa Rakthum Plan and Policy Analyst, Practitioner Level and (3) Mr. Phak Thongsom Deputy Managing Director, Excellent Business Management Co.,Ltd

Main discussion as follow: (i) TSA is a satellite account of the National Accounts that shows overall information on the country's tourism situation, both in monetary and non-monetary forms, systematically and in accordance with the country's National Accounts. And it is a statistical tool used to measure the impact of tourism on the overall economic system of the country. How do you clearly understand the economic impact of the tourism industry? and can analyze and compare at the international level (ii) The Office of the Permanent Secretary, Ministry of Tourism and Sports has developed and prepared the TSA, according to the Tourism Satellite Account: Recommended Methodological Framework 2008 (TSA-RMF 2008), which covers annual TSA (2010-present), quarterly TSA (2013). - present), TSA by tourism development zone (15 tourism zones, Krabi Province is in the Andaman Tourism Development Zone, consisting of Phuket, Krabi, Phang Nga, Trang and Satun with an operations center in Phuket Province), regional TSA (5 regions, North, Central, South, East, Northeast) and has created a Tourism Input-Output table (national level In addition, sustainable tourism indicators have been developed under Linking the TSA and the SEEA: A Technical Note of the UNWTO and have been recently updated according to the Measuring the Sustainability of Tourism: MST of the UN Tourism (iii) A challenge in preparing TSA-SEEA is the lack of national environmental accounting (No agency has done so yet), No budget has been allocated, primary data storage, and reliance on secondary data (iv) TSA-SEEA consists of 4 main accounts, 1. Solid waste accounts for tourism characteristic activities 2. Physical supply and use table for water, Water emissions account 3. Tourism industries energy flow account) and 4. Tourism industries GHG emissions account (v) The data sources are mainly based on secondary data such as water resource data, including rainfall data, Number of water users, Amount of water produced, and Water distribution. The data source comes from the Provincial Waterworks Authority. Metropolitan

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Waterworks Authority, Royal Irrigation Department, Department of Groundwater Resources, etc. (vi) Using Tourism Ratio, for example, the use of hotel services by tourists who do not use the services in all sectors of the hotel (e.g. wedding room services and laundry service), therefore, the Tourism Ratio must consider, which the Tourism Ratio for every tourism development zone.

**2023-07-03**

**Minutes of the Meeting Project Steering Committee “Natural Capital Accounting for Tourism and Water Management Sectors of Krabi Province, the 1st Meeting of 2023. 3 July 2023, 09:30 - 12:00 AM at The Pineapple Hotel Krabi.** The project had many attendees from the committee members in Krabi Province. The meeting presented the big picture of Integration of Natural Capital Accounting in Public and Private Sector Policy and Decision-making for Sustainable Landscapes (NCA) and examining the conceptual framework for Natural Capital Accounting. PSC reviewed the conceptual framework of the natural capital accounting of Krabi province, both in tourism and water management sectors by exchanging information and opinion, especially the information on the use of municipal water supply, economic crops, tourism, disguised population, as well as the information of significant ecosystems such as seagrasses. Participants in the meeting were representatives from government agencies and private sector in Krabi (26 agencies), including Office of Krabi Province, Krabi Provincial Office of Natural Resources and Environment, Office of Krabi Community Development, Office of Provincial Tourism and Sports, Tourism Authority of Thailand Krabi Office, Office of Provincial Industry, Office of Public Works and City Planning, Krabi Provincial Agricultural and Cooperatives Office, Krabi Provincial Fisheries Office, Krabi Provincial Agriculture Office, Krabi Provincial Energy Office, Office of Krabi Provincial Statistics, Office of Conservation Management Area 5 (Nakhon Srithammarat), Krabi Irrigational Project, Office of Forestry Resources Management Area 12 (Krabi Branch), Office of Marine and Coastal Resources Area 10 (Krabi), Krabi Land Development Station, Krabi Technical College, Krabi Provincial Water Authority, Khlong Thom District Provincial Water Authority, Ao Luek District Provincial Water Authority, Krabi Provincial Local Administrative Organization, Krabi Municipal, Krabi Chamber of Commerce Committee, Krabi Hotel Association, Krabi Provincial Natural and Resources and Environmental Protection Volunteer (NEV) Network.

**2023-07-03 – 2023-07-06**

**One-on-one meetings with key individuals** at Krabi Province during 3-6 July 2023, to inquire and collect secondary data sources from relevant agencies as follows:

(1) Mr. Wirujthep Ratthakarnwong, Director of Provincial Strategy and Development Group Representative from Office of Krabi Province. The secondary data includes (i) Krabi Province Development Plan consists of Agriculture branch, Social field, Tourism field, Environmental

field (ii) Important tourist attraction areas of Krabi include 3 islands: Koh Klang (community tourism), Koh Phi Phi, Koh Lanta (Thung Yee Peng), urban areas including Ao Nang, salty hot springs (iii) Budget for Natural Resource and Environmental Management and Tourism. (by project) (iv) Master Plan on Water Resource Management.

(2) Mr. Surachai Kulthong, Director of the Environment Division Representative from Krabi Provincial Office of Natural Resources and Environment. The secondary data includes (i) State of Natural Resource and Environment in Krabi Province (ii) 5 Year Action Plan (2022-2026) of Krabi Provincial Office of Natural Resources and Environment (iii) Water Quality (data and GIS Map) (iv) Wastewater management, Wastewater treatment systems at 4 locations (1 municipality, 2 Ao Nang, 1 Phi Phi Island (70% complete), Ao Nang wastewater treatment system is insufficient potential for the amount of wastewater generated and cannot be fixed because there is no available space to set up a wastewater treatment plant.

(3) Mrs. Anchalika Wangwiset, Representative from Office of Krabi Provincial Statistics. The secondary data includes (i) Water Census data (2019 data) which is surveyed every 10 years. (ii) Census data on agriculture, trade and service industries, manufacturing businesses, which are surveyed every 10 years (iii) Data which are surveyed every year, include working conditions, household economic conditions, commercial building construction, hidden population, migrant population.

(4) Mr. Weera Pengthong, Director of Krabi Irrigation Project. The secondary data includes (i) Monthly water storage volume (ii) monthly average accumulated rainfall (iii) number of water users in the irrigation area (iv) Number of water users in the irrigation area classified by the type of agriculture.

(5) Mr. Surat Charonyothin, Director of Office of Provincial Tourism and Sports, The secondary data includes (i) Number of monthly tourists. (Thai and foreigners) (ii) Average tourist expenditure (per person/per day) classified by type of spending (iii) Number of overnight tourists (iv) Quantity of rooms, number of hotels, number of guests (v) average length of stay of tourists (vi) Recommended tourist attractions include the salty hot springs and the bead museum.

(6) Mrs. Nuchnapa Pinthong, Manager of Krabi Provincial Waterworks Authority. The secondary data includes (i) Monthly water usage statistics categorized into 4 categories: consumer goods, small businesses, large businesses. and housing (ii) 2 water service units: Talad Kao Water Production Station and Nong Thale Water Production Station.

(7) Mr. Supong Raksrithong, Director of Office of Provincial Industry, and Mr. Somnuk Chanwong, Director of The Federation of Thai Industries, Krabi province. The secondary data includes (i) Number of industrial factories separated by type (oil palm and rubber 30-40%)

(ii) Factory location (GIS) (ii) Estimates of water use classified by industry type and production capacity.

**2023-08-18**

**Holding the Kick-off Meeting** Integration of Natural Capital Accounting in Public and Private Sector Policy and Decision-making for Sustainable Landscapes “Ripples of Changes: Harnessing Natural Capital for Sustainability”. Project was held on Friday 18th August 2023 08:30 am - 01:30 pm at Benchasiri Ballroom, 3rd floor, The Marriott Bangkok Hotel Sukhumvit with participants from representatives of related agencies such as representatives from both public agencies, public enterprises, private sector, educational institutions, NGOs, international organizations, scholars, and experts totally 124 persons.

The meeting was divided into 4 sessions as follows: Session 1: Reporting, opening , and keynote speech, Session 2: Presentation of “Natural Capital Accounting Framework for Policy Decision-making Toward Sustainable Development” by Associate Professor Dr.Adis Israngkura na Ayutthaya, TDRI, Session 3: Forum “Policy Design for Sustainable Development : Krabi Province” by Dr. Wiparat Tharatheeraparn (Deputy Director-General of Tourism Department), Dr.Wimonpak Bumbatsaparok Kumkanya (Expert in Economics Analysis of Water Basin Development Project, Office of The National Water Resources), Dr. Sasithorn Kitithornkul (Chairman of Krabi Tourism Business Association), and facilitated by Dr.Phet Manopawit (Green World Foundation and advisor to international environmental organisations) and Session 4: Opening for hearing and recommendations from meeting participants facilitated by Dr. Phet Manopawit.

Comments from the meeting such as: (1) Green GDP should be adopted vigorously by agencies at the national level as Thailand is focused mostly on the demand side, but neglected the supply side. How much of the tourism revenue of 3,000 billion baht has been spent on rehabilitation, even in the negative figures. Therefore, the supply side has long been neglected and this project is hoping to be answering this supply side seriously, (2) For the monetary mechanism to be used in the natural capital accounting project, it should be reviewed to see what is feasible, e.g. Collecting the Tourist User Charge of 20 baht at Koh Tao which the law does not permit to collect more than this amount. This fund is utilized in the municipal budget and the community can obtain the fund to conserve the coral reef or trash management. Therefore, financial mechanisms were recommended to drive these activities, as tourists are willing to pay to contribute to resolving the problems, (3) Tourism Fund, partly for the ecosystem which is in line with the spending that is reflected in tourism. Could it be possible to have a policy allocating “one baht for biodiversity” or to create an awareness for tourists in contribution to the environmental conservation effort. Therefore, it would be appreciated for considering this policy, (4) Marine trash should be traced back to the current carrying, and fish in the Krabi Province area had plastic parts inside the stomach, as trash from the Philippines and Indonesia. How to reckon the cost of this problem, and how to claim or prevent it? and (5) Most of the wastewater was viewed as



	coming from the industrial sector but instead come from agricultural sector without any measurement, as it was a fertilizer or pesticide which pollutes the water sources in general. This is a major problem without having any solution.
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## 2.6. Gender

<b>Does the project have a gender action plan?</b>	No
<b>Gender mainstreaming (will be uploaded to GEF Portal):</b>	<p>The project plans to involve gender issue when designing economic instrument for managing the natural capital in Krabi province.</p> <p>(1) The Project has 16 professional staff who are expert in specific area. From 16 professional staff in our team 7 of them are women (approximately 44% women).</p> <p>(2) Project steering committee (PSC) established from all relevant sectors, there are 20 representatives in total, 12 of whom are women (approximately 60% women).</p> <p>(3) The inter-agency provincial working Group (PWG) established from all relevant sectors in Krabi, there are 33 representatives in total, 15 of whom are women (approximately 45% women).</p> <p>(4) One-on-one meetings with key individuals at Krabi Province during 3-6 July 2023, there are 15 representatives in total, 7 of whom are women (approximately 46% women).</p> <p>(5) Minutes of the Kick-off Meeting “Ripples of Changes: Harnessing Natural Capital for Sustainability” (Friday 18th August 2023, 08:30 am - 01:30 pm, Benchasiri Ballroom 3rd floor, Marriott Bangkok Hotel Sukhumvit) with participants from representatives of related agencies such as representatives from both public agencies, public enterprises, private sector, educational institutions, NGOs, international organisations,, scholars, and experts totally 124 persons, of whom 84 were women (approximately 67% women).</p> <p>(6) The area survey in Krabi Province (29-31 January 2024) with the objective of selecting activity areas (tourism sector and water resources) for piloting the implementation of the selected market-based instrument in Krabi province, conducting surveys in 6 areas with representatives from government agencies, community leaders and villagers participating, a total of 26 people, of whom 14 were women (approximately 54% women).</p>

## 2.7. ESSM

<b>Moderate/High risk projects (in terms of Environmental and</b>	<b>Was the project classified as moderate/high risk CEO Endorsement/Approval Stage?</b> No
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social safeguards)	<p><b>If yes, what specific safeguard risks were identified in the SRIF/ESERN?</b></p> <p>N/A</p>
New social and/or environmental risks	<p><b>Have any new social and/or environmental risks been identified during the reporting period?</b></p> <p>No</p> <p><b>If yes, describe the new risks or changes?</b></p> <p>N/A</p>
Complaints and grievances related to social and/or environmental impacts	<p><b>Has the project received complaints related to social and/or environmental impacts (actual or potential) during the reporting period?</b></p> <p>No</p> <p><b>If yes, please describe the complaint(s) or grievance(s) in detail, including the status, significance, who was involved and what actions were taken?</b></p> <p>N/A</p>
Environmental and social safeguards management	<p>The project takes precautions regarding environmental and social risk when executing activities, namely, when conducting meeting with committee members, the project also takes precautions when making field visit to Krabi province. During meetings with committee members, such as, PSC or PWG we invite a broad range of representatives of agencies including government officials, business persons, community leaders as well as members of NGOs to share their views on the sustainability issues of Krabi. During field visits, our team were able to include several members of the community in our in-dept discussion sessions. These community members who help provide information to us include gender groups, religious groups and younger generation. On environmental management, we adopted a minimalist approach when visits Krabi Province. Our field trips largely involve visits to Krabi ocean, tourist destinations or pollution sources without any significant interference with the environment. These environmental and social management conciousness and procedures help ensure that our project was excuted with minimal footprint.</p>

## 2.8. KM/Learning

Knowledge activities and products	<ol style="list-style-type: none"> <li>1. Conducted online training/tutorial on “Natural Capital Accounting based on UN-SEEA Framework” by Mr.Carl Obst, Director, IDEEA Group, Melbourne, Australia (9, 23 May and 7,20 June 2024).</li> <li>2. Conducted on the job training - Krabi NCA (Q-GIS) by Mr. Chakris Phithakrattanasakun, Geo-Informatics and Space Technology</li> </ol>
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	<p>Development Agency (Public Organization): GISTDA. (2-3, 9-10, 16-17, 23-24 May 2024).</p> <p>3. The area survey in Krabi Province (29-31 January 2024) with the objective of selecting activity areas (tourism sector and water resources) for piloting the implementation of the selected market-based instrument in Krabi province, conducting surveys in 6 areas: <b>(A) Migratory Waterbirds:</b> Survey and study migratory waterbirds area at Krabi Estury and Bay, Krabi at Krabi Estury and Bay, Krabi. <b>(B) Talingchan Landfill Waste:</b> Survey the landfill waste area in Taling Chan Subdistrict Administrative Organization (located close village's water supply), Nuea Khlong, Krabi. <b>(C) Saline Hot Spring</b> in Huai Nam Khao, Khlong Thom, Krabi. <b>(D) Seagrass Planting:</b> Survey the seagrass planting in Baan Koh Pu, Ko Si Boya, Nuea Khlong, Krabi. <b>(E) Blue Crabs Bank:</b> in Baan Ta Klong moo 9, Ko Klang, Koh Lanta, Krabi. <b>(F) Saladan Landfill Waste:</b> Survey the landfill waste area in Sala Dan Subdistrict Municipality, Koh Lanta, Krabi.</p> <p>The project has focused on important issues: Marine Water Quality and will be linked to 5-6 sources of pollution, including wastewater from tourism, garbage dumps, boat engines (fishing boats, tourist boats), coastal residences, palm oil plantation, and the release of wastewater from jellyfish fermentation. Our team has devoted some time to identify the key issues that are behind marine water quality that is the focus of Krabi natural capital. Once the key issues (sources of marine water pollution) are identified, the project will begin crafting economic instruments suitable for managing each source of marine water quality. The identification of the key sources of marine water pollution will also add the construction of SEEA as it will provide the technical coefficients needed when SEEA is used to answer policy questions.</p>
<p><b>Main learning during the period</b></p>	<p>1. Learn to prepare Natural Capital Accounts based on UN-SEEA Framework, including, for instance preparation of accounts, preparing and connecting GIS information with spreadsheets and applying NCA &amp; SEEA Framework for policy decisions, etc. the construction of Natural Capital Accounts will focus on the natural ecosystems of Krabi Province, Thailand with anemphasis on 2 (two) economic sectors: water and tourism of Krabi Province. Such learning by international expert in NC accounting is Mr.CARLOBST, Director of Institute for Development of Environmental-Economic Accounting (IDEAA Group), Melbourne, Australia.</p> <p>2. Learn to prepare a geographic map of Krabi Province (GIS Mapping), Map of the Ecosystem Extent of Krabi Province and learn to use Q-GIS programs such as Explore data using QGIS, Attribute manipulation, Geo-Processing Tools and Making map with common data set (Cartographic ). Such learning by Geo-Informatics and space Technology specialist is Mr. Chakris Phithakrattanasakun, Geo-Informatics and Space Technology Development Agency (Public Organization) - GISTDA.</p> <p>3. Learn to prepare Gross Regional and Provincial Product (GPP) by conducting in-depth interviews with national accounting experts, National Account Office, Office of the National Economic and Social Development Council (NESDC).</p>

	<p>4. Learn to process of preparing “Tourism Satellite Account-System of Environmental Economic Accounting (TSA-SEEA) of Thailand” by conducting in-depth interviews with experts in TSA-SEEA preparation, Office of the Permanent Secretary, Ministry of Tourism and Sports.</p> <p>5. Assessing the feasibility of market-based instruments (MBI) for NC conservation for tourism and water resources in Krabi Province. However, the preparation of economic tools will be different in each country depending on the context of each country, this includes legal apparatus, local acceptance, benefit sharing outcome as well as involvement of stakeholders.</p>
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## 2.9. Stories

<b>Stories to be shared</b>	There are no stories to share during this PIR period.
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### 3 Performance

#### 3.1 Rating of progress towards achieving the project outcomes

Project Objective and Outcomes	Indicator	Baseline level	Mid-Term Target or Milestones	End of Project Target	Progress as of current period (numeric, percentage, or binary entry only)	Summary by the EA of attainment of the indicator & target as of 30 June	Progress rating
Objective: To alleviate threats to biodiversity and ecosystem services in critical production landscapes in Thailand by integrating values of forests and other Natural Capital into policies and operations of key economic sectors.							
Outcome 1: Increased national political commitment to reducing the impacts of production sectors on natural resources, based on knowledge, systems and policy capturing the economic value of natural capital	Number of production sectors that have developed targets for, and are now implementing plans towards, reducing their impacts on natural capital stocks, and the ecosystem services that flow from these stocks into the local economy	0	1 (tourism)	1 (tourism) & 1 (water services)	30%	A short-term plan (2-3 years) for the development of NCA has been completed. In the process of improving/editing "The National framework for NC accounting in Thailand"	S
	Government\'s annual "Appropriation for environmental protection" , as a % of the Total National Budget	less than 0.3	~ 0.3	> 0.3	10%	In the process of coordinating and contacting executives of relevant government agencies, both central and local.	S
	Number of new/ revised national and corporate policies, plans or strategies	(i) N/A(ii) N/A(iii) N/A(iv)	(i) 1(ii) 2(iii) 0(iv) 1	(i) 2(ii) 4(iii) 2(iv) 1	15%	In the process of reviewing the policy New/improved corporate and national plans or strategies	S

Project Objective and Outcomes	Indicator	Baseline level	Mid-Term Target or Milestones	End of Project Target	Progress as of current period (numeric, percentage, or binary entry only)	Summary by the EA of attainment of the indicator & target as of 30 June	Progress rating
	that:(i) Endorse green GDP reporting(ii) Reduce the impacts of tourism and water use on NC and ecosystem services(iii) Remove "perverse incentives"(iv) Promote the development of a new market-based instrument that will enhance biodiversity and ecosystem services	N/A					
	National Medium-Term Expenditure Framework (MTEF) and Thailand's 13th National Economic and Social Development Plan (NESDP, 2023-2027) incorporate emerging NC values and information from the water and tourism satellite accounts	N/A	Agreement reached on collaboration and project support (NC aspects) to the drafting of the MTEF and the NESDP 2023-2027 through ONEP and NESDB	Drafts of the MTEF and the NESDP 2023-2027 incorporate NC values and set targets to reduce the impact of the water and tourism sectors - facilitated by the project	5%	In the process of coordinating with executives and those involved with the Budget Bureau and the Office of the National Economic and Social Development Council (NESDC)	MS
Outcome 2: Improved planning, decision-making and management of natural resources in Krabi province, based on enhanced information and appreciation on the importance and economic	Number of new/ revised provincial government and local corporate and business policies, plans or strategies that:(i) Endorse green GDP reporting(ii) Reduce the	(i) N/A(ii) N/A(iii) N/A(iv) N/A	(i) 1(ii) 4(iii) 2(iv) 1	(i) 1(ii) 4(iii) 2(iv) 1	15%	In the process of reviewing various policies, plans, and strategies. Related at the provincial and local levels (Krabi), both the public and private sectors	S

Project Objective and Outcomes	Indicator	Baseline level	Mid-Term Target or Milestones	End of Project Target	Progress as of current period (numeric, percentage, or binary entry only)	Summary by the EA of attainment of the indicator & target as of 30 June	Progress rating
value of functioning coastal ecosystems and intact water catchments to the tourism and water sectors	impacts of tourism and water use on NC and ecosystem services(iii) Remove „perverse incentives“(iv) Promote the development of a new market-based instrument that will enhance biodiversity and ecosystem services						
	Number of additional local private/corporate sector tourism and/or water users in the Krabi province that make provision for, and/or actively implement measures to, mitigate the environmental impacts of their operations on coastal ecosystems, water catchments and/or water use	N/A	2	> 5	20%	In the process of collecting ecosystem data, tourism and water use in Krabi province.	S
	Provincial Medium-Term Expenditure Framework (MTEF) and Provincial Development Plan (PDP) incorporate NCA information from the water and tourism satellite accounts	None NC-aspects included	Agreement reached on collaboration and project support (NC aspects) to the drafting of the Provincial MTEF and PDP	Drafts of the Provincial MTEF and PDP incorporate NC values and set targets to reduce the impact of the water and tourism sectors - facilitated by the project	10%	In the process of coordinating with administrators and those involved in budget allocation at the provincial level, such as Office of Krabi Province, Krabi Provincial Office of Natural Resources and Environment, and Krabi Provincial Administrative Organization.	S

Project Objective and Outcomes	Indicator	Baseline level	Mid-Term Target or Milestones	End of Project Target	Progress as of current period (numeric, percentage, or binary entry only)	Summary by the EA of attainment of the indicator & target as of 30 June	Progress rating
	Number of provincial EIAs that assess the financial impacts of large-scale developments on ecosystems and ecosystem services	0	1	> 4	5%	In the process of collecting provincial EIAs.	MS
	Number of local districts/municipalities that adopt SEA methodologies and approaches to support the preparation of their Spatial Development Plans	0	1	> 2	5%	Data collection is in progress.	MS
	Income (US\$) per annum to the Trust Fund from the market-based financing instrument (and from other private sector financial support)	0	> 1,000	> 10,000	5%	Data collection is in progress.	S
	Number of individuals (of which are women) from local villages employed to undertake conservation and restoration work in water catchments and/or nearshore marine and coastal ecosystems	0	At least 50 (>20 women)	At least 150 (>80 women)	10%	The area survey in Krabi Province (29-31 January 2024) with the objective of selecting activity areas (tourism sector and water resources) for piloting the implementation of the selected market-based instrument in Krabi province, conducting surveys in seagrass planting at Baan Koh Pu, Nuea Khlong, Krabi and blue crabs bank at Baan Ta Klong moo 9, Koh Lanta, Krabi from local villages. There are 12 representatives in total 7 of whom are women.	S

Project Objective and Outcomes	Indicator	Baseline level	Mid-Term Target or Milestones	End of Project Target	Progress as of current period (numeric, percentage, or binary entry only)	Summary by the EA of attainment of the indicator & target as of 30 June	Progress rating
	Extent (ha) of water catchment areas and/or nearshore marine and coastal ecosystems being actively restored and/or conserved with funding support from the Trust Fund and GEF funds (% of women which participate in or benefit from)	0(N/A)	>5,000 ha (at least 25% of participants and/or beneficiaries are women)	40,000 ha(at least 35% of participants and/or beneficiaries are women)	5%	Data collection is in progress.	S
Outcome 3: Enhanced knowledge and awareness of natural capital accounting, and its benefits, provides the foundation for building inter- sectoral and inter-institutional partnerships	Enhanced awareness levels of Assumptions: targeted project stakeholder- The national and provincial groups on NC values, sector (i) & (ii) Increase in government, academic impacts and sector dependencies: results of knowledge institutions, research(i) key political and corporate baseline and awareness Project awareness organisations, NPOs and decision-makers and prospective survey at each with at least baseline and post-private sector partners will public and targeted private sector awareness 30% of the 75% of the impact reports allow staff to actively	(i) & (ii) results of baseline survey at each awareness and/or training workshop	Increase in knowledge and awareness with at least 30% of the participants surveyed	Increase in knowledge and awareness with at least 75% of the participants surveyed	10%	Hire a media production company and jointly plan the publication and sharing of information about the NC Account and NCA Mainstream. In a coordinated process to define the scope of fact sheets and/or posters (e.g. importance of NCA in Krabi, water sector management and tourism sustainability measures, etc.) and the scope of content to be included including website design.	S



Project Objective and Outcomes	Indicator	Baseline level	Mid-Term Target or Milestones	End of Project Target	Progress as of current period (numeric, percentage, or binary entry only)	Summary by the EA of attainment of the indicator & target as of 30 June	Progress rating
	"champions" and/or training participants participate in NC accounting(ii) other target groups, workshop surveyed training, skills development institutions and organizations and exchange programmes; (TBD)						
	Number of public and 10 private sector practitioners and policy- makers that have participated in the complete series of specialized training/skills development in natural capital accounting	N/A	public: > 20, private: > 10 ; both of which at least 30% women	public: 30, private: > 15 ; both of which at least 30% women	10%	In the process of collecting various information related to the natural capital accounting system for development into training.	S
	Number of users (per month) of the national online knowledge portal for NC accounting	0	>50	>100	10%	In the process of collecting natural capital accounting system data to put in the database system on the website.	S
	Number of decision-makers, managers, scientists, researchers and academics participating in:(i) NC accounting exchange programs(ii) international and regional NC accounting initiatives and report- back meetings	0	(i) > 4 (of which at least 2 are women) (ii) > 3 (of which at least 2 are women)	(i) > 12 (of which at least 7 are women) (ii) > 8 (of which at least 5 are women)	10%	1. The Project steering committee (PSC) established from all relevant sectors, there are 20 representatives in total, 11 of whom are women (approximately 55% women). 2. The inter-agency provincial working Group (PWG) established from all relevant sectors in Krabi, there are 33 representatives in total, 15 of whom are women (approximately 45% women).3. One-on-one meetings with key individuals	S

Project Objective and Outcomes	Indicator	Baseline level	Mid-Term Target or Milestones	End of Project Target	Progress as of current period (numeric, percentage, or binary entry only)	Summary by the EA of attainment of the indicator & target as of 30 June	Progress rating
						at Krabi Province during 3-6 July 2023, there are 15 representatives in total, 7 of whom are women (approximately 46% women).4. Minutes of the Kick-off Meeting “Ripples of Changes: Harnessing Natural Capital for Sustainability” (Friday 18th August 2023, 08:30 am - 01:30 pm, Benchasiri Ballroom 3rd floor, Marriott Bangkok Hotel Sukhumvit) with participants from representatives of related agencies such as representatives from both public agencies, public enterprises, private sector, educational institutions, NGOs, international organisations,, scholars, and experts totally 124 persons, of whom 84 were women (approximately 67% women).	
	Number of formal PPP agreements between government and private sector that promote collaboration on NC-friendly practices, investments and other forms of partnership	0	> 2 PPP agreements in place	> 2 MOUs/ agreements are adequately funded and are operational	5%	In the process of coordinating and contacting relevant local government and private sector agencies to discuss promoting cooperation in NC-friendly practices, investments, and other forms of partnership.	S
	Number of multi-sectoral programs or initiatives actively supporting the conservation and/or restoration of NC in water catchments and/or in	0	1	>2	5%	Data collection is in progress.	S

Project Objective and Outcomes	Indicator	Baseline level	Mid-Term Target or Milestones	End of Project Target	Progress as of current period (numeric, percentage, or binary entry only)	Summary by the EA of attainment of the indicator & target as of 30 June	Progress rating
	nearshore coastal and marine ecosystems in Krabi province						

### 3.2 Rating of progress implementation towards delivery of outputs (Implementation Progress)

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
1 Policies and market incentives in support of Natural Capital	Output 1.1 National Framework for Natural Capital Accounting	2027-02-23	50%	60%	1. A short-term plan (2-3 years) for the development of NCA has been completed. 2. In the process of improving/editing "The National framework for NC accounting in Thailand"	S
	Activity1: Establish and maintain the inter-agency national working group	2027-02-23	50%	60%	The inter-agency national working group has been established and the second working group meeting has been held.	S
	Activity2: Draft the "National framework for NC accounting in Thailand"	2023-12-31	50%	70%	1. Develop the National framework for NCA based on the UN-SEEA standards, in the process of improving/editing "The National framework for NC accounting in Thailand" 2. Develop short-term roadmap (2-3 years) for the development of NCA , a short-term plan (2-3 years) for the development of NCA has been completed. 3. Practical training and guidance on the construction of Natural Capital Accounts based on UN-SEEA Framework, including, for instance,	U

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
					•preparation of accounts, •preparing and connecting GIS information with spreadsheets, •applying NCA & SEEA Framework for policy decisions by Mr.CARLOBST, Director of Institute for Development of Environmental-Economic Accounting (IDEEA Group), Melbourne, Australia.	
	Activity3: Raise funding to co-finance development of national water resource and tourism sector NCAs	2027-02-23	0%	5%	Currently collecting and studying information related to various funding sources and raise funding to co-finance development of national water resource and tourism sector NCAs.	S
	Output 1.2 Natural Capital Account information linked to national policy, regulatory, planning and budgeting processes	2027-02-23	5%	10%	1. The Market based Instruments (MBIs) for Environmental Management Report has been prepared.2. In the process of collecting various relevant information to analyze Natural Capital Account information linked to national policy, regulatory, planning and budgeting processes.	S
	Activity4: Host the sectoral roundtable meetings	2025-12-31	0%	20%	1. One-on-one meetings with key individuals at Krabi Province during 3-6 July 2023 as follows: (1) Strategic Policy Sector : Director of Provincial Strategy and Development Group Representative from Office of Krabi Province.(2) Natural Resources and Environmental Sector: Representative from Krabi Provincial Office of Natural	S

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
					<p>Resources and Environment, Representative from Office of Krabi Provincial Statistics.(3) Tourism Sector: Director of Office of Provincial Tourism and Sports, Krabi province. (4) Industry Sector: Director of Office of Provincial Industry and Director of The Federation of Thai Industries, Krabi province.(5) Water Resources Sector: Director of Krabi Irrigation Project, Manager of Krabi Provincial Waterworks Authority.2. Holding the Kick-off Meeting Integration of Natural Capital Accounting in Public and Private Sector Policy and Decision-making for Sustainable Landscapes “Ripples of Changes: Harnessing Natural Capital for Sustainability” (18 August 2023) with the objective to create awareness of the detail, scope, and goal in implementation of natural capital accounting in policy decision-making for sustainable development, and presenting the conceptual framework of Natural Capital Account (NCA) by focusing on tourism and water resources sectors, in order to integrate the natural capital into policy preparation and implementation of mainstream economic sector both at the local and the</p>	

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
					national levels, together with the hearing and exchange, and recommendations for development and improvement from the related parties both public agencies and private sector, NGOs, international organisations, educational institutions, scholars, and experts.	
	Activity5: Assess the inter-dependencies of the tourism sector on NC and ecosystem services	2024-12-31	0%	40%	Conducted an assessment of the interdependence of the tourism sector on NC and ecosystem services. Using spatial mapping tools using GIS-based scenario modeling, SEA and monetary and non-monetary valuation of ecosystem goods and services.	S
	Activity6: Assess the inter-dependencies of the water resources sector on NC and ecosystem services	2024-12-31	0%	40%	Conducted an assessment of the interdependence of the water resources sector on NC and ecosystem services. Using spatial mapping tools using GIS-based scenario modeling, SEA and monetary and non-monetary valuation of ecosystem goods and services.	S
	Activity7: Update the National Budget policy	2025-06-30	0%	20%	In the process of coordinating and contacting executives of relevant government agencies, both central and local such as the Budget Bureau and the Office of the National Economic and Social Development Council (NESDC), and reviewed National Budget Policy.	S

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
	Activity8: Opportunistically integrate emerging NC information into the national Tourism Satellite Account (TSA)	2027-02-23	0%	20%	In the process of collecting information for opportunistically integrate emerging NC information into the national Tourism Satellite Account (TSA)	S
	Activity9: Opportunistically integrate emerging NC information into the national Water Resources Satellite Account (WRSA)	2027-02-23	0%	20%	In the process of collecting information for opportunistically integrate emerging NC information into the national Water Resources Satellite Account (WRSA)	S
	Activity10: Link NC information for tourism and water resources with the development of MTEFs and the 13th NESDB	2027-02-23	0%	10%	In the process of collecting information to Link NC information for tourism and water resources with the development of MTEFs and the 13th NESDB, and coordinating with executives and those involved with the Budget Bureau and the Office of the National Economic and Social Development Council (NESDC).	S
	Activity11: Use NC information for tourism and water resources to lobby for an increase in state budget allocations for conservation of NC	2027-02-23	0%	10%	In the process of coordinating and contacting executives of relevant government agencies, both central and local to lobby for an increase in state budget allocations for conservation of NC	S
	Activity12: Update the water resources and tourism-related policies, plans and regulations to improve the conservation and sustainable use of NC	2027-02-23	0%	10%	In the process of reviewing policies, plans, regulations on water resources and tourism related to conservation and sustainable use of NC.	S
	Activity13: Improve and strengthen EIA procedures to ensure that the financial impact of developments on NC and ecosystem services are adequately	2025-12-31	0%	10%	A review and collection of relevant information for improving and strengthening the EIA procedures in	S

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
					development projects, corporate investments and government programs to ensure the incorporation of both market and non- market values of ecosystem services.	
	Activity14: Evaluate alternative market-based instruments, and select one viable instrument for further development	2023-12-31	20%	80%	Evaluate alternative market-based instruments has been completed and is currently studying to select one viable instrument for further development.	S
	Activity15: Build political support, institutional capacity and private sector support for introducing the selected market-based instrument into the national policy mix	2025-06-30	0%	0%	It is in the process of selecting market-based tools to be used as political support tools, institutional capacity and private sector support for introducing the selected market-based instrument into the national policy mix.	S
2 Integration of Natural Capital Accounts into local development planning and operations.	Output 2.1 Pilot provincial Natural Capital Accounts for the tourism sector and water resources	2027-02-23	10%	30%	1. Assessing the tourism situation and water resource situation in Krabi Province is almost complete. In the process of developing and maintaining a comprehensive provincial Tourism sector NCA for Krabi province and develop and maintain a comprehensive provincial Water Resources NCA.2. Conducted on the job training - Krabi NCA (Q-GIS) on 2-3, 9-10, 16-17, 23-24 May 2024. Introduction to Geographic Information System (GIS), explore data using QGIS, attribute manipulation and making map Conducted on the job training - Krabi NCA (Q-GIS) on 2-3, 9-10, 16-17, 23-24	S



Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
					May 2024, by Mr. Chakris Phithakrattanasakun, Geo-Informatics and Space Technology Development Agency (Public Organization): GISTDA.	
	Activity16: Establish and maintain the inter-agency provincial working group for Krabi province	2027-02-23	50%	60%	The inter-agency provincial working group (PWG) for Krabi province has been established and the first working group meeting has been held.	S
	Activity17: Conduct a tourism situation assessment for Krabi province	2024-03-31	10%	80%	Conducted an assessment of the tourism situation in Krabi province is almost complete, information is being updated.	S
	Activity18: Develop and maintain a comprehensive provincial Tourism sector NCA for Krabi province	2027-02-23	0%	10%	In the process of developing a comprehensive provincial Tourism sector NCA for Krabi province	S
	Activity19: Conduct a water resources situation assessment for Krabi province	2024-03-31	10%	80%	Conducted an assessment of a water resources situation in Krabi province is almost complete, information is being updated.	S
	Activity20: Develop and maintain a comprehensive provincial Water Resources NCA for Krabi province	2027-02-23	0%	10%	In the process of developing a comprehensive provincial Water Resources sector NCA for Krabi province.	S
	Output 2.2 Provincial Natural Capital Account information embedded into local government and corporate policies, plans and budgets	2027-02-23	0%	10%	In the process of developing the provincial NCAs for the Tourism sector and Water resources sector in Krabi province.	S
	Activity21: Annually integrate the provincial NCAs for the tourism sector and water resources in Krabi province into the national TSA and WRSA	2027-02-23	0%	10%	In the process of developing the provincial NCAs for the Tourism sector and Water resources sector in Krabi	S

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
					province and in the process of coordinating and contacting executives of relevant local government agencies for integrate the provincial NCAs for the tourism sector and water resources in Krabi province into the national TSA and WRSA.	
	Activity22: Align the provincial NCAs for tourism and water resources with the development of the Krabi Provincial Development Plan and MTEFs for provincial government	2027-02-23	0%	0%	Implementation of the work plan will begin in the third quarter of 2025.	S
	Activity23: Use provincial NCA information for tourism and water resources to lobby for an increase in provincial budget allocations for conservation of watershed and nearshore marine and coastal ecosystems in Krabi province	2027-02-23	0%	10%	In the process of developing the provincial NCAs for the Tourism sector and Water resources sector in Krabi province and in the process of coordinating and contacting executives of relevant local government agencies to lobby for an increase in provincial budget allocations for conservation of watershed and nearshore marine and coastal ecosystems in Krabi province	S
	Activity24: Promote the adoption of SEA in the preparation of municipal/district spatial development plans in Krabi province	2027-02-23	0%	0%	Implementation of the work plan will begin in the second quarter of 2025.	S
	Activity25: Assist in the development and testing of EIA- based tools for assessing financial impacts of proposed developments on NC	2027-02-23	0%	5%	It is in the process of reviewing and collecting relevant information for assist in the development and testing of EIA-based tools for assessing financial impacts of proposed developments on NC.	S
	Activity26: Develop a business case for the piloting of the selected market-based instrument in Krabi province.	2024-06-30	0%	70%	It is in the process of reviewing relevant data to develop a business case	S

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
					for the piloting of the selected market-based instrument in Krabi province. The Project needs confirmation on the key sources of water pollution in Krabi province before the instrument can be designed and institutionalized.	
	Activity27: Identify opportunities for PPPs in conserving, mitigating impacts, and restoring degraded habitats in watershed forests and coastal marine ecosystems.	2024-12-31	0%	30%	In the process of coordinating and contacting executives of relevant government agencies, local community leaders and the private sector to carry out PPPs in conserving, mitigating impacts, and restoring degraded habitats in watershed forests and coastal marine ecosystems.	S
	Activity28: Assess the water tariff rates to ensure that the costs associated with the management and protection of watersheds is adequately reflected in the price.	2027-02-23	0%	0%	Implementation of the work plan will begin in the first quarter of 2025.	S
	Output 2.3 Mitigating environmental impacts and restoring and protecting Natural Capital	2027-02-23	0%	20%	In the process of collecting information and coordinating with those involved in the government sector, community leaders, and the private sector in Krabi Province to lead to mitigating environmental impacts and restoring and protecting natural capital.	S
	Activity29: Pilot the implementation of the selected market-based instrument in Krabi province.	2027-02-23	0%	20%	It is in the process of studying and selecting a business case for piloting the tool in selected markets in Krabi province.	S
	Activity30: Establish and administer a Trust Fund to receive and	2027-02-23	0%	5%	In the process of studying and reviewing	S

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
	disburse income generated from the implementation of the market-based instrument in Krabi province.				information related to administer a Trust Fund.	
	Activity31: Conserve, mitigate impacts and restore degraded habitats in watershed forests and coastal marine ecosystems (total area of 40,000 ha in Krabi province).	2027-02-23	0%	10%	In the process of coordinating and contacting executives of relevant government agencies, local community leaders, and the private sector to jointly carry out conservation, mitigate impacts and restore degraded habitats in watershed forests and coastal marine ecosystems in Krabi Province.	S
	Activity32: Develop, test and implement sustainable financing mechanisms for the GreenFins program in Krabi province.	2024-12-31	0%	20%	Currently coordinating with Niran Nirannuch, BIOFIN Thailand Manager and Ms. Pattama Domrongphol, Result based Budgeting for Biodiversity Project Advisor, UNDP, BIOFIN Thailand to discuss sustainable financing mechanisms for the GreenFins program in Krabi province.	S
	Activity33: Provide technical support to the installation of small-scale wastewater treatment technologies in small-scale tourism enterprises.	2025-12-31	0%	10%	Currently studying and collecting information on small-scale tourism enterprises (not served by municipal infrastructure) to select and provide technical support for the installation of small-scale wastewater treatment technology.	S
3 Information-sharing, awareness-	Output 3.1: Dissemination and sharing of information on NC accounting and mainstreaming of NCAs	2027-02-23	7%	15%	In the process of discussing with a media production consulting company to determine the scope and content of information obtained from the study and	S

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
raising and networking to					is currently collecting project educational information to create brochures, newsletters and inserts.	
mainstream Natural Capital accounting	Activity34: Lobby political and corporate decision-makers	2027-02-23	7%	15%	(1). Holding the Meeting Minutes Project Steering Committee of the project "Integration of Natural Capital Accounting in Public and Private Sector Policy and Decision-making for Sustainable Landscapes" No. 1/2567 (22 February 2024).(2). Meeting Minutes the Project Steering Committee "Natural Capital Accounting for Tourism and Water Management Sectors of Krabi Province" (or the inter-agency provincial working group for Krabi province (PWG)) No.1/2023 (3 July 2023). (3). One-on-one meetings with key individuals at Krabi Province during 3-6 July 2023 as follows: Director of Provincial Strategy and Development Group Representative from Office of Krabi Province, Representative from Krabi Provincial Office of Natural Resources and Environment, Director of Office of Provincial Tourism and Sports, Director of Office of Provincial Industry, Director of Krabi Irrigation Project, Representative from Office of Krabi Provincial Statistics, Manager of Krabi Provincial Waterworks Authority,	S

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
	Activity35: Meetings, briefings and presentations to/with target individuals/groups and institutions.	2027-02-23	7%	15%	and Director of The Federation of Thai Industries, Krabi province. (1). Holding the Kick-off Meeting Integration of Natural Capital Accounting in Public and Private Sector Policy and Decision-making for Sustainable Landscapes “Ripples of Changes: Harnessing Natural Capital for Sustainability” and prepared a brochure showing project details to distribute at meetings. (18 August 2023), participants from representatives of related agencies such as representatives from both public agencies, public enterprises, private sector, educational institutions, NGOs, international organisations,, scholars, and experts totally 124 persons.(2). The area survey in Krabi Province and briefings (29-31 January 2024) with the objective of selecting activity areas (tourism sector and water resources) for piloting the implementation of the selected market-based instrument in Krabi province, conducting surveys in 6 areas: (A) Migratory Waterbirds: Survey and study migratory waterbirds area at Krabi Estury and Bay, Krabi at Krabi Estury and Bay, Krabi. (B) Talingchan Landfill Waste: Survey the landfill	S

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
					waste area in Taling Chan Subdistrict Administrative Organization (located close village's water supply), Nuea Khlong, Krabi. (C) Saline Hot Spring in Huai Nam Khao, Khlong Thom, Krabi. (D) Seagrass Planting: Survey the seagrass planting in Baan Koh Pu, Ko Si Boya, Nuea Khlong, Krabi. (E) Blue Crabs Bank: in Baan Ta Klong moo 9, Ko Klang, Koh Lanta, Krabi. (F) Saladan Landfill Waste: Survey the landfill waste area in Sala Dan Subdistrict Municipality, Koh Lanta, Krabi.	
	Activity36: Production and distribution of fact sheets, pamphlets, brochures, newsletters and media inserts.	2027-02-23	0%	15%	In the process of coordinating to define the scope of fact sheets and/or posters (e.g. importance of NCA in Krabi, water sector management and tourism sustainability measures, etc.) and is currently collecting project educational information to create brochures, newsletters and inserts.	S
	Activity37: Project performance monitoring and reporting	2027-02-23	0%	15%	Proceed with delivery The first PIR report and the Half Yearly Progress Report (1 July - 31 December 2023) have already been completed.	S
	Output 3.2: Implementation of a broad-based capacity building program for NC accounting	2027-02-23	3%	15%	In the process of collecting information to lead to strengthening the NC accounting capabilities (knowledge, skills, proficiencies) of the responsible government agencies, the	S

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
					private sector, NGOs and academic institutions.	
	Activity38: Develop, host and maintain an online knowledge portal	2027-02-23	3%	15%	It is in the process to collate all information on best practices guidelines and standards in NC accounting, all the relevant NC accounting tools, and all the web-based training materials for uploading to the online knowledge portal.	S
	Activity39: Implement a series of technical training workshops/sessions.	2026-06-30	0%	15%	(1). Conducted online training/tutorial on "Natural Capital Accounting based on UN-SEEA Framework" by Mr. Carl Obst, Director, IDEEA Group, Melbourne, Australia (9, 23 May and 7,20 June 2024) (2). Conducted on the job training - Krabi NCA (Q-GIS) by Mr. Chakris Phithakrattanasakun, Geo-Informatics and Space Technology Development Agency (Public Organization): GISTDA. (2-3, 9-10, 16-17, 23-24 May 2024).	S
	Activity40: Facilitate exchange programs for NC accounting decision-makers, manager and/or researchers	2026-06-30	0%	5%	Contact and coordinate to facilitate the active participation of key decision-makers, scientists, researchers and academics in regional/international NC accounting initiatives.	S
	Activity41: Enable the participation and involvement of decision-makers, scientists, researchers and academics in international NC accounting initiatives and meetings	2026-06-30	0%	5%	A broad-based capacity building program for NC accounting is underway to enable the participation and involvement of decision- makers, scientists,	S



Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
					researchers and academics in international NC accounting initiatives and meetings.	

The Task Manager will decide on the relevant level of disaggregation (i.e. either at the output or activity level).

## 4 Risks

### 4.1 Table A. Project management Risk

Please refer to the Risk Help Sheet for more details on rating

Risk Factor	EA Rating	TM Rating
1 Management structure - Roles and responsibilities	Low	Low
2 Governance structure - Oversight	Low	Moderate
3 Implementation schedule	Low	Low
4 Budget	Low	Low
5 Financial Management	Low	Low
6 Reporting	Low	Low
7 Capacity to deliver	Low	Moderate

If any of the risk factors is rated a Moderate or higher, please include it in Table B below

### 4.2 Table B. Risk-log

#### Implementation Status (Current PIR)

Insert ALL the risks identified either at CEO endorsement (inc. safeguards screening), previous/current PIRs, and MTRs. Use the last line to propose a suggested consolidated rating.

Risks	Risk affecting: Outcome / outputs	CEO ED	PIR 1	PIR 2	PIR 3	PIR 4	PIR 5	Current PIR	Δ	Justification
Low levels of cooperation and collaboration between different ministries. provincial governments. private sector and civil society organizations constrains the ongoing	Outcome 1-3	M	M					M	=	Efforts to establish and build functional working relationships with. and between. affected government agencies. prospective private sector

Risks	Risk affecting: Outcome / outputs	CEO ED	PIR 1	PIR 2	PIR 3	PIR 4	PIR 5	Current PIR	Δ	Justification
development of NCAs and their subsequent integration into policy, planning and budgeting processes.										partners, academic/research institutions and civil society organizations has already been initiated during the project preparation phase, both nationally as well as at Krabi provincial level. These working relationships will however need to be further nurtured and strengthened during the project implementation phase to ensure sustained cooperation and collaboration between the project partners. The project will thus undertake the following suite of activities during the project implementation phase to facilitate ongoing cooperation and collaboration between partner institutions, agencies and organizations.
Long-term government and private sector apathy leads to increasingly outdated NC information for annual incorporation into the tourism and water resources satellite accounts.	Outcome 1-3	M	M					M	=	While the long-term commitment of the government and private sector to NC accounting is beyond the immediate scope of control of the project, the short-term project investments will seek to build a firm foundation that could provide sufficient incentive and "return-on-investment" to justify the

Risks	Risk affecting: Outcome / outputs	CEO ED	PIR 1	PIR 2	PIR 3	PIR 4	PIR 5	Current PIR	Δ	Justification
										maintenance of NCAs for the tourism and water resources sector. and conceivably the expansion of NCAs to other key production sectors (such as agriculture and mining).
Limited in-country knowledge of. and technical skills in. NC accounting slows the adoption and development of NC accounting processes by the public and private sector.	Outcome 3	M	M					M	=	One of the most significant lessons learnt from NC accounting projects implemented in developing countries is the critical need to commit substantial time and resources to developing a clear understanding of. and the technical skills to implement. a NC accounting approach. While initially there may be a need to source technical and professional expertise from outside the country. the priority focus mustto be develop the in-country knowledge. skills and capacities. Component 3 of the project is thus fully focused on building national and local awareness. competencies and capabilities in NC accounting.
NCAs are decoupled from the National Account. leading to poor integration of environmental issues in mainstream economic decision-making.	Output 1-2	L	L					L	=	A key project strategy is to link. right from the outset. the NC information (using a NC accounting approach) to the tourism and water resources Satellite Accounts. The project will also support the process of updating

Risks	Risk affecting: Outcome / outputs	CEO ED	PIR 1	PIR 2	PIR 3	PIR 4	PIR 5	Current PIR	Δ	Justification
										the National Budget Policy to formally reflect the link between NCA information and the development of the Satellite Accounts.
The financial constraints of public and private sector institutions limit the scope and rigor of NCAs.	Output 1-2	L	L					L	=	As mentioned above. the "NC accounting framework" for Thailand will – without compromising the UN-SEEA standards – be very functional and utilitarian to accommodate the significant fiscal. capacity and data constraints of the responsible public and private sector institutions. Wherever possible. the data requirements for NCAs will align with the data already being collected by the mandated agencies to reduce data collection costs and complexity. Estimates of monetary values of assets. stocks and flows will – wherever possible – be extrapolated from existing biodiversity valuation data (or ecosystem valuation tools) to further reduce the cost implications of annual data collection.
Steering committee and/or other project bodies meet at least once a year and active membership and participation in decision-making process. Steering committee provides direction/inputs. Moderate	Output 1-3	M	M					M	=	Efforts to organize meetings of the Project Steering Committee and/or other project agencies at least twice a year to engage active membership and participation in decision-making

Risks	Risk affecting: Outcome / outputs	CEO ED	PIR 1	PIR 2	PIR 3	PIR 4	PIR 5	Current PIR	Δ	Justification
likelihood of potential negative impact on the project delivery. (Governance Structure - Oversight)										process. The steering committee provides direction/inputs and to ensure continuity in monitoring the progress and results of the project. The PSC meeting also provides sources of secondary data and key informant and personal that are needed in the project.
Sound technical and managerial capacity of institutions and other project partners and capacity gaps were addressed before implementation or during early stage. Moderate likelihood of potential negative impact on the project delivery. (Capacity to Deliver)	Output 1-3	M	M					M	=	Collaborating with local and international experts to assist the project in developing the framework for NCA. Areas of collaborations include 1) SEEA framework development. 2) GIS maps and worksheet templates. 3) Krabi province ecosystem identification. and 4) development of market base instruments.
		M	M					M	=	

#### 4.3 Table C. Outstanding Moderate, Significant, and High risks

Additional mitigation measures for the next periods

Risk	Actions decided during the previous reporting instance (PIRt-1, MTR, etc.)	Actions effectively undertaken this reporting period	What	When	By Whom
Low levels of cooperation and collaboration between	(i) Issue an "Exchange of Letters" at onset of project	(iv) the hosting of National and Provincial	(v) the development of a suite of public- private	January 2024 - December 2026	TDRI

Risk	Actions decided during the previous reporting instance (PIRt-1, MTR, etc.)	Actions effectively undertaken this reporting period	What	When	By Whom
<p>different ministries. provincial governments. private sector and civil society organizations constrains the ongoing development of NCAs and their subsequent integration into policy. planning and budgeting processes.</p>	<p>between ONEP and key line agencies such NSEDB with regards project collaboration and services. this in addition to the already agreed co-funding support (agencies are only willing to do so once the CEO endorsement).(ii) the service level agreement between ONEP and the "lead service provider" will make adequate provision (i.e. the commitment of resources and time) for maintaining and strengthening the cooperative relationships between project partners.(iii) the establishment of National and Provincial Working Groups – with representation from all key project partners– to cooperatively oversee the design of a national accounting systems and</p>	<p>sector-specific Roundtable Meetings to improve information-sharing and consultatively contribute to integrating NC into policies. plans. budgets and operations of the public and private sector (Outputs 1.2 and 2.2)(vii) the development and hosting of an online knowledge portal for all core project partner institutions. agencies and organizations staff responsible for. or involved in. NC accounting.</p>	<p>partnerships that could mitigate environmental impacts on. and restore and protect NC in watershed forests and nearshore marine and coastal ecosystems (Output 2.3)(vi) the implementation of a focused stakeholder engagement strategy that emphasizes the critical need for constructive cooperation and collaboration between partners in implementing a NC accounting system(vii) the development and hosting of an online knowledge portal for all core project partner institutions. agencies and organizations staff responsible for. or involved in. NC accounting.</p>		

Risk	Actions decided during the previous reporting instance (PIRt-1, MTR, etc.)	Actions effectively undertaken this reporting period	What	When	By Whom
	local implementation of tourism and water resource NCAs (Outputs 1.1 and 2.1).				
Long-term government and private sector apathy leads to increasingly outdated NC information for annual incorporation into the tourism and water resources satellite accounts	TDRI established a connection with Krabi Provincial Office and the Krabi Natural Resource and Environment Office to explain how NCA can assist them in policy formulation that will lead to informed decision making in the future.(i) the "NC accounting framework" for Thailand will – without compromising the UN-SEEA standards – be very functional and utilitarian to accommodate the significant fiscal. capacity and data constraints of the responsible public and private sector institutions. Wherever possible. the data requirements for NCAs will align with the data already being collected by the mandated agencies to	(ii) instead of developing standalone NCAs. the project will link NC information to economically important. pre-existing Satellite Accounts (for tourism and water resources) that already form an integral part of the National Account	(iii) the project will support the use of NC information to motivate for an increase in budget allocation. to raise funds from innovative financing instruments. to build public-private partnerships and improve the efficacy of EIA and SEA practices(iv) the project will also help establish NC accounting "champions" in strategic positions within the public and private sector institutions. as well as build political support with key political and corporate decision-makers for the adoption of NC accounting approaches(v) the project will also support the development of regulatory policies in the private sector (through CSR	January 2024 - December 2026	TDRI



Risk	Actions decided during the previous reporting instance (PIRt-1, MTR, etc.)	Actions effectively undertaken this reporting period	What	When	By Whom
	reduce data collection costs and complexity. Estimates of monetary values of assets. stocks and flows will – wherever possible – be extrapolated from existing biodiversity valuation data (or ecosystem valuation tools) to further reduce the cost implications of annual data collection.		programmes) and the public sector (through budget policies) that will require the obligatory maintenance of NCAs and "green economy" (GDP-linked) reporting.		
Limited in-country knowledge of. and technical skills in. NC accounting slows the adoption and development of NC accounting processes by the public and private sector	- Establishing and maintaining the inter-agency provincial working group for Krabi province (PWG).- The Meeting Minutes the Project Steering Committee “Natural Capital Accounting for Tourism and Water Management Sectors of Krabi Province” (or the inter-agency provincial working group for Krabi province (PWG)). the 1st Meeting of 2023. (3 July 2023).- One-on-one meetings with key	- Conducted online training/tutorial on “Natural Capital Accounting based on UN-SEEA Framework” by Mr.Carl Obst. Director. IDEEA Group. Melbourne. Australia (9. 23 May and 7.20 June 2024).- Conducted on the job training - Krabi NCA (Q-GIS) by Mr. Chakris Phithakrattanasakun. Geo-Informatics and Space Technology Development Agency (Public Organization): GISTDA. (2-3. 9-10. 16-17. 23-24 May	(i) building the competencies. skills and knowledge of a network of public and private practitioners and policy-makers in NC accounting. and its application for public and private policies and economic decision-making.(ii) widely communicating and sharing emerging information and knowledge on NC accounting. and mainstreaming information from NCAs into development policy and	July 2024 - December 2026	TDRI

Risk	Actions decided during the previous reporting instance (PIRt-1, MTR, etc.)	Actions effectively undertaken this reporting period	What	When	By Whom
	individuals at Krabi Province during 3-6 July 2023.	2024).- Holding the Meeting Minutes Project Steering Committee of the project “Integration of Natural Capital Accounting in Public and Private Sector Policy and Decision-making for Sustainable Landscapes” No. 1/2567 (22 February 2024).- Holding the Kick-off Meeting Integration of Natural Capital Accounting in Public and Private Sector Policy and Decision-making for Sustainable Landscapes “Ripples of Changes: Harnessing Natural Capital for Sustainability” and prepared a brochure showing project details to distribute at meetings. (18 August 2023).	planning processes.The involvement of all the key implementing partners in the national and provincial NC accounting working groups and sectoral roundtable meetings will also help to further improve the awareness and skills levels in the partner institutions. organizations and agencies.		
Steering committee and/or other project bodies meet at least once a year and active membership and participation in decision-making process. Steering	Conducted a meeting of the project steering committee “Integrating Natural Capital Accounting in Public and Private Sector Policies and Decision Making for	Holding a meeting of the project steering committee “Integrating Natural Capital Accounting in Public and Private Sector Policies and Decision Making for a	Organize a meeting of the Project Steering Committee and/or other project agencies at least twice a year to engage active membership and	July 2024 - December 2026	TDRI. ONEP

Risk	Actions decided during the previous reporting instance (PIRt-1, MTR, etc.)	Actions effectively undertaken this reporting period	What	When	By Whom
committee provides direction/inputs. Moderate likelihood of potential negative impact on the project delivery.	Sustainable Landscapes” No. 1/2023 (9 February 2023) to presented the conceptual framework and project implementation plan of NCA and the progress of project implementation and the next phase of the operational plan.	Sustainable Landscape” No. 1/2024 (22 February 2024) and/or other project bodies to propose increasing the PSC meeting from once per year to at least 2 times a year to ensure continuity in tracking the progress and results of project implementation.	participation in decision-making process. Including the steering committee provides direction/inputs and to ensure continuity in monitoring the progress and results of the project.		
Sound technical and managerial capacity of institutions and other project partners and capacity gaps were addressed before implementation or during early stage. Moderate likelihood of potential negative impact on the project delivery.	- Conducted training “Natural Capital Accounting” (Online Training 16-17 March 2023 and 4-5 April 2023) by Mr. GEM BELARMINO CASTILLO. PhD International Expert in Natural Capital Accounting (NCA).- Consulting with Mr. GEM BELARMINO CASTILLO. PhD International Expert in Natural Capital Accounting (NCA) to discuss preparing geographic information system data in Krabi province through the ARIES program and ArcGIS program.	- Contract a consortium of international expert to training/tutorial on “Natural Capital Accounting based on UN-SEEA Framework” by Mr. CARL OBST. Director of Institute for Development of Environmental-Economic Accounting (IDEEA Group). Melbourne. Australia.- Contract a local expert to training/tutorial on the job training - Krabi NCA (Q-GIS) by Mr. Chakris Phithakrattanasakun. Geoinformatics and Space Technology Development Agency (Public	Contract a consortium of local and international experts to assist the inter-agency working group in the iterative development of the national framework for NCA’s for water resources and the tourism sector.and to provide professional and technical supporting the piloting of NCAs at the provincial level. including to continually develop and implement mechanisms which may further strengthen the capacities of women in NC accounting and advise to the media	July 2024 - December 2026	TDRI

Risk	Actions decided during the previous reporting instance (PIRt-1, MTR, etc.)	Actions effectively undertaken this reporting period	What	When	By Whom
		Organization): GISTDA.	communications company on the technical content for the media communications materials.		

High Risk (H): There is a probability of greater than 75% that assumptions may fail to hold or materialize, and/or the project may face high risks. Significant Risk (S): There is a probability of between 51% and 75% that assumptions may fail to hold and/or the project may face substantial risks. Moderate Risk (M): There is a probability of between 26% and 50% that assumptions may fail to hold or materialize, and/or the project may face only modest risks. Low Risk (L): There is a probability of up to 25% that assumptions may fail to hold or materialize, and/or the project may face only modest risks.

## 5 Amendment - GeoSpatial

### Project Minor Amendments

Minor amendments are changes to the project design or implementation that do not have significant impact on the project objectives or scope, or an increase of the GEF project financing up to 5% as described in Annex 9 of the Project and Program Cycle Policy Guidelines. Please tick each category for which a change occurred in the fiscal year of reporting and provide a description of the change that occurred in the textbox. You may attach supporting document as appropriate

#### 5.1 Table A: Listing of all Minor Amendment (TM)

Minor Amendments	Changes
Results Framework:	No
Components and Cost:	No
Institutional and implementation arrangements:	No
Financial Management:	No
Implementation Schedule:	
Executing Entity:	No
Executing Entity Category:	No
Minor project objective change:	No
Safeguards:	No
Risk analysis:	No
Increase of GEF financing up to 5%:	No
Location of project activity:	No
Other:	No

Minor amendments

#### 5.2 Table B: History of project revisions and/or extensions (TM)

Version	Type	Signed/Approved by UNEP	Entry Into Force (last signature Date)	Agreement Expiry Date	Main changes introduced in this revision

Version	Type	Signed/Approved by UNEP	Entry Into Force (last signature Date)	Agreement Expiry Date	Main changes introduced in this revision

GEO Location Information:

The Location Name, Latitude and Longitude are required fields insofar as an Agency chooses to enter a project location under the set format. The Geo Name ID is required in instances where the location is not exact, such as in the case of a city, as opposed to the exact site of a physical infrastructure. The Location & Activity Description fields are optional. Project longitude and latitude must follow the Decimal Degrees WGS84 format and Agencies are encouraged to use at least four decimal points for greater accuracy. Users may add as many locations as appropriate. Web mapping applications such as OpenStreetMap or GeoNames use this format. Consider using a conversion tool as needed, such as: <https://coordinates-converter.com> Please see the Geocoding User Guide by clicking here

Location Name	Latitude	Longitude	GEO Name ID	Location Description	Activity Description
Krabi Province	8.0569615241497	98.91704671254335	1152631	Krabi province is located on the west coast of the Andaman Sea in the south of Thailand. about 814 km away from Bangkok . Latitude of center is 8.0569° or 8°03'22.5" North. and longitude of center is 98.9170° or 98°55'02.2" East. It is approximately 814 kilometers from a capital city of Thailand. Bangkok. A total area of Krabi is 4.708.512 square kilometers or approximately 2.942.820 rai. Krabi is administratively divided into 8 Amphoes (Districts) :	1. Meeting Minutes the Project Steering Committee "Natural Capital Accounting for Tourism and Water Management Sectors of Krabi Province" (or the inter-agency provincial working group for Krabi province (PWG)) No.1/2023 (3 July 2023).2. One-on-one meetings with key individuals at Krabi Province during 3-6 July 2023 as follows: representative from Office of Krabi Province. representative from Krabi Provincial Office of Natural Resources and

Location Name	Latitude	Longitude	GEO Name ID	Location Description	Activity Description
				Amphoe Mueang. Khao Phanom. Khlong Thom. Plai Phraya. Ko Lanta. Ao Luek. Lam Thap. and Nuea Khlong. The provinces jurisdiction covers not only in-land districts and sub-districts. but also extends to more than 130 large and small islands including the world famous Phi Phi Islands.	Environment. Director of Office of Provincial Tourism and Sports. Director of Office of Provincial Industry. Director of Krabi Irrigation Project. representative from Office of Krabi Provincial Statistics. Manager of Krabi Provincial Waterworks Authority. and Director of The Federation of Thai Industries. Krabi province.3. The area survey in Krabi Province (29-31 January 2024) for selecting activity areas (tourism sector and water resources) for pilot the implementation of the selected market-based instrument in Krabi province.

**Please provide any further geo-referenced information and map where the project interventions is taking place as appropriate. \***

[https://drive.google.com/file/d/1YYQaBsXOAHen6e1VPFdgHlKzL0boshj/view?usp=drive\\_link](https://drive.google.com/file/d/1YYQaBsXOAHen6e1VPFdgHlKzL0boshj/view?usp=drive_link)

[https://drive.google.com/file/d/1ZFjFLQgQOPsrVsGwjquzyZGIIMzj\\_eZ8/view?usp=drive\\_link](https://drive.google.com/file/d/1ZFjFLQgQOPsrVsGwjquzyZGIIMzj_eZ8/view?usp=drive_link)

[Annex any linked geospatial file]

**Additional Supporting Documents:**

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Filename	File Uploaded By	File Uploaded At	
in-kind_NCA(Jan-Dec 2023).pdf	Executing Agency	2024-07-24 08:27:46	<a href="#"><u>Download</u></a>
3.Report the area survey in Krabi (29-31 Jan 2024).pdf	Executing Agency	2024-07-10 05:28:59	<a href="#"><u>Download</u></a>
2.PPT_Q-GIS Training by GISTDA.pdf	Executing Agency	2024-07-10 05:28:43	<a href="#"><u>Download</u></a>
1.PPT_NCA-UNSEEA by CarlObst.pdf	Executing Agency	2024-07-10 05:28:28	<a href="#"><u>Download</u></a>