Request for Proposals (RfP) "Evaluation of climate impacts and adapation benefits of NbS in Chiang Rai and Surat Thani, Thailand"

Name of the Office, Project, Programme or other requisitioning unit
RfP Reference: IUCN-2024-12-P04165- 01

Welcome to this Procurement by IUCN. You are hereby invited to submit a Proposal.

1. REQUIREMENTS

1.1. A detailed description of the services and/or goods to be provided can be found in Attachment 1.

2. CONTACT DETAILS

2.1. Please address your proposal and all correspondence and questions to the IUCN Contact:

IUCN Contact: Pakkasem Tongchai, Programme Officer, Pakkasem.Tongchai@iucn.org

3. COMPLETING AND SUBMITTING A PROPOSAL

3.1. Your Proposal must consist of the following:

- Signed Declaration of Undertaking (see Attachment 2)
- Method statement explaining how you will address the Terms of Reference in Attachment 1;
- Your up-to-date CV;
- Details of your experience in providing a similar service;
- Financial proposal including your daily/hourly rates and a total lump-sum price. Proposal rates and prices shall be exclusive of Value Added Tax and must be in [currency].

Proposals must be prepared in English.

4. CONFIDENTIALITY AND DATA PROTECTION

4.1. IUCN follows the European Union's General Data Protection Regulation (GDPR). The information you submit to IUCN as part of this procurement will be treated as confidential and shared only as required to evaluate your proposal in line with the procedure explained in this RfP, and for the maintenance of a clear audit trail. For audit purposes, IUCN is required to retain your proposal in its entirety for 10 years and make this available to internal and external auditors and donors as and when requested.

4.2. In the Declaration of Undertaking (Attachment 2) you need to give IUCN express permission to use the information you submit in this way, including personal data that forms part of your proposal. Where you include personal data of your employees (e.g. CVs) in your proposal, you need to have written permission from those individuals to share this information with IUCN, and for IUCN to use this information as indicated in 4.1. Without these permissions, IUCN will not be able to consider your proposal.

5. ABOUT IUCN

IUCN is a membership Union uniquely composed of both government and civil society organisations. It provides public, private and non-governmental organisations with the knowledge and tools that enable human progress, economic development and nature conservation to take place together.

Headquartered in Switzerland, IUCN Secretariat comprises around 1,000 staff with offices in more than 50 countries.

Created in 1948, IUCN is now the world's largest and most diverse environmental network, harnessing the knowledge, resources and reach of more than 1,300 Member organisations and some 10,000 experts. It is a leading provider of conservation data, assessments and analysis. Its broad membership enables IUCN to fill the role of incubator and trusted repository of best practices, tools and international standards.

IUCN provides a neutral space in which diverse stakeholders including governments, NGOs, scientists, businesses, local communities, indigenous peoples organisations and others can work together to forge and implement solutions to environmental challenges and achieve sustainable development.

Working with many partners and supporters, IUCN implements a large and diverse portfolio of conservation projects worldwide. Combining the latest science with the traditional knowledge of local communities, these projects work to reverse habitat loss, restore ecosystems and improve people's well-being.

www.iucn.org
https://twitter.com/IUCN/

6. ATTACHMENTS

Attachment 1 *Specification of Requirements / Terms of Reference*

Attachment 2 *Declaration of Undertaking (select 2a for companies or 2b for self-employed as applicable to you)*

Attachment 3 *Contract Template*

ATTACHMENT 1
TERMS OF REFERENCE

The Asian Regional Office of the
International Union for the Conservation of Nature

(IUCN-ARO)

REQUIRES

PROFESSIONAL CONSULTANCY SERVICES
FOR
"*Evaluation of climate impacts and adapation benefits of NbS in Chiang Rai and Surat Thani, Thailand*"

Type of Contract:	Professional Consultancy Services
Period:	5 months
Availability:	Immediate
Persons Responsible for Supervision:	TONGCHAI Pakkasem Water and Wetlands Officer, Tony Nello, Programme coordinator, Cities

1. BACKGROUND AND JUSTIFICATION

The overall goal of the URBAN project, funded by IKI-BMUv, is that the focal urban areas and wider landscapes in which they are embedded enjoy significantly enhanced social, economic and environmental resilience to climate change impacts through the wide-scale adoption of nature-based solutions (NbS).

The project will make a significant contribution to climate change adaptation in up to 6 local administrative organizations in 2 provinces in Thailand, which had been identified during the preparation phase, by addressing specific, spatially-explicit risks identified by existing climate change projections (CIMP5), hazard maps and vulnerability assessments. Adaptation will be enhanced through a variety of potential NbS measures, including; wetland restoration, conservation and management; enhanced management of urban environment; forest restoration; the creation of urban protected areas and green spaces; mangrove restoration; sustainable land use plans, and improved management of public and private gardens and commercial landholdings. The aim will be to develop cost-effective, replicable models that can be scaled and applied elsewhere in Thailand. Project will also make an important contribution to the conservation of biodiversity, through habitat restoration (forests, mangroves and wetlands) and creation of ecological networks. In addition, the project will enhance the biodiversity of parks, gardens and commercial landholdings, by encouraging greater use of native species and the introduction of biodiversity-friendly management practices (e.g., reduced use of pesticides and fertilizers, retention of deadwood, and the introduction of less manicured "wild spaces").

Target beneficiaries are mainly at local, provincial and national level stakeholders; which are local municipalities and communities in the 2 target provinces, provincial office of the government agencies, and government officials of national level ministries and departments. Key governmental

agencies and stakeholder groups at the local and national level will be engaged in the project design during the preparation phase, implementation, monitoring, learning and evaluation process.

Project goal will be achieved through 4 interlinked results:

(i) Improved, spatially explicit, understanding of future climate change risks, based on high resolution climate change modelling and projections, climate inclusive hazard mapping and climate risk and vulnerability assessment;

(ii) The demonstration of carefully targeted nature-based interventions to address specific risks, e.g., enhanced wetland restoration and management to address flooding; mangrove restoration to address coastal erosion and storm surges; and enhanced management of urban trees, parks and gardens to address heat island effects;

(iii) Mainstreaming of NbS into relevant policies and plans at the provincial and municipal levels;

(iv) Capacity building, knowledge sharing and networking at multiple levels for replication

IUCN Thailand office is the lead of the entire project implementation including overall project management, coordination of activities with consortium members, implementing partners, as well as monitoring and reporting of progress. In addition, IUCN is technically in charge of delivering components of climate modelling, implementation of NbS measures, policy and capacity building together with consortium members as described per component. As part of Workpackage 1 "*NbS measures are designed, implemented, and integrated to address climate induced hazards and risks in the target areas*" a Cost-benefit analysis on socioeconomic and environmental impacts (I.e. Urban InVEST, Natural Capital) of NbS measures in the target areas" is to be implemented by IUCN. This consultancy will support the evaluation of socioeconomic and environmental impacts of Nature-based solution in Chiang Rai and Surat Thani by assessing the provision of ecosystem services under climate change and considering with/without NbS scenarios.

2. OBJECTIVES OF THE CONSULTANCY

2.1. General:

Assess the impacts of climate change and potential benefits of Nature Based Solution in Chiang Rai and Surat Tani provinces to inform on priorities for enhancing climate resilience of urban populations.

2.2. Specific:

1. Assess the impact of climate change on urban flood risk and urban stormwater retention considering historical and future climate in Chiang Rai and Surat Tani.
2. Assess the climate adaptation benefits of specific nature-based solutions on urban flood risk and urban stormwater retention to inform priorities for implementing NbS in Chiang Rai and Surat Tani.

3. EXPECTED DELIVERABLES

No.	Deliverable	Description
1	Report describing the potential impact of climate change on urban flood risk and urban stormwater	The report shall describe the input used, output and interpretation of results obtained from the application of the Urban Flood Risk Mitigation and Urban Stormwater Retention models of

	retention considering historical climate in Chiang Rai and Surat Tani.	Urban InVEST in Chiang Rai and Surat Tani, considering historical and future climate. In addition to the report, inputs and outputs of the Urban Flood Risk Mitigation and Urban Stormwater Retention models should be provided in tabular and vectorial formats.
2	Report describing the climate adaptation benefits of specific nature-based solutions on urban flood risk and urban stormwater retention to inform priorities for implementing NbS in Chiang Rai and Surat Tani	The report shall describe the input used, output and interpretation of results obtained from the application of the Urban Flood Risk Mitigation and Urban Stormwater Retention models of Urban InVEST in Chiang Rai and Surat Tani, considering the implementation of nature-based solution and climate change. Priority areas for NbS in both cities shall be identified to maximize the reduction of flood risks. In addition to the report, inputs and outputs of the Urban Flood Risk Mitigation and Urban Stormwater Retention models should be provided in tabular and vectorial formats.

4. INTELECTUAL PROPERTY

All Intellectual Property rights conceived or made by the Consultant / Consulting Firm in the course of providing the Services will belong to IUCN.

5. SCHEDULING AND TIMETABLE FOR DELIVERING PRODUCTS

5.1. Activities and programming

Specific objectives	Activities	Months				
		1	2	3	4	5
Assess the impact of climate change on urban flood risk and urban stormwater retention considering historical and future climate in Chiang Rai and Surat Tani.	• In coordination with IUCN and local governments and stakeholders, identify potential areas for implementing up to three NbS[1] in Chiang Rai and Surat Tani and develop the land use land cover map for running InVEST accordingly. • Identify needs of local data and potential data sources with support of IUCN. For instance, data needs could include the					

[1] NbS types includes 1 Conservation of the area such as riparian forest, wetlands including freshwater swamp, marshes, Coastal wetland (Mangrove forest). 2. Restoring the degrade ecosystem: including Riparian area along the stream and river. The control of Invasive species. Stream restoration.3. create Green Stormwater Infrastructure. Such as rain garden, Bioswale for attenuating the flood in the urban area. It can be integrated to the Urban Park.

	damage loss associated with each building type, soil hydrologic groups, road centrelines, watersheds, precipitation. • Validate Land-cover to be used with IUCN, considering resolution should be 10 meters minimum, with harmonized time series and wall-to-wall coverage. • Run Urban InVEST urban flood risk and urban stormwater retention models considering historic and future climate to identify most vulnerable areas to flood and storm. • Write report, compile all results in a powerpoint presentation and organize a session to present results to IUCN. • Adress feedback received from local authorities and historic incidence of floods.					
Assess the climate adaptation benefits of specific nature-based solutions on urban flood risk and urban stormwater retention to inform priorities for implementing NbS in Chiang Rai and Surat Tani	• Run Urban InVEST urban flood risk and urban stormwater retention models considering a scenario with deployment of NbS in all potential areas and future climate to identify sites with the highest adaptation benefits. • Estimate the adaptation benefits of NbS considering either biophysical (e.j. runoff retention values, total amount of avoided pollutants) or monetary value (runoff retention service) to rank NbS types considering their average impact. • In close coordination with IUCN and following a participatory process (for instance participatory weighing of criteria) provide a spatially explicit prioritization of areas for implementing the selected NbS in both cities, considering the adaptation benefits and costs of NbS. • Write report, compile all results in a powerpoint presentation and organize a session to present results to IUCN.					

5.2. Timetable for delivery of products:

Products	Expected date of delivery	Percentage of pay
1- Report describing the potential impact of climate change on urban flood risk and urban stormwater retention considering historical climate in Chiang Rai and Surat Tani.	Eight (8) weeks after the signing of the contract by both parties	40%
2 - Report describing the climate adaptation benefits of specific nature-based solutions on urban flood risk and urban stormwater retention to inform priorities for implementing NbS in Chiang Rai and Surat Tani	Sixteen (16) weeks after the signing of the contract by both parties	60%

- All products will be paid once delivered to IUCN's complete satisfaction.
-Disbursements will depend on the availability of funds from the donor.
-The consultant / consulting firm must consider in the technical proposal the modification of some deliverables during the execution of the contract, if it is necessary, to adapt some results, without affecting the amount of the original contract.

6. TECHNICAL PROFILE

For the development of this consultancy, the following profile is required:

- *Academic degree: A Master's or Doctoral degree in Environmental Science, Climate Change, Ecology, Natural Resource Management, or a closely related field. Specialization in climate adaptation, ecosystem services, or NbS is preferred.*
- *Experience;*
  1. *Expertise in Climate Change and NbS:*
     - *Proven experience in evaluating the impacts of climate change on ecosystems, communities, and sectors, with a specific focus on Southeast Asia.*
     - *In-depth knowledge of NbS concepts, frameworks, and applications, including ecosystem-based adaptation (EbA) and mitigation.*
  2. *Research and Analytical Skills:*
     - *Demonstrated ability to design and conduct quantitative and qualitative evaluations of NbS interventions, focusing on their effectiveness in climate adaptation and resilience building.*
     - *Experience in applying tools and methodologies for assessing climate adaptation benefits, including vulnerability assessments, cost-benefit analysis, and ecosystem service valuation.*
  3. *Monitoring and Evaluation (M&E):*
     - *Strong background in developing M&E frameworks to track the climate adaptation outcomes of NbS projects.*
     - *Familiarity with indicators for measuring climate resilience and adaptation benefits at ecosystem and community levels.*
  4. *Geospatial and Climate Modeling Skills:*
     - *Proficiency in GIS and remote sensing for mapping and analyzing spatial data related to NbS interventions.*

    - *Experience in applying climate models to predict impacts and assess the adaptive capacity of ecosystems and communities.*
5. *Knowledge of Local Context:*
    - *Understanding of the socio-economic and ecological contexts of Thailand, particularly Chiang Rai and Surat Thani provinces.*
    - *Awareness of local and national policies related to climate change adaptation and NbS implementation.*
6. *Stakeholder Engagement and Capacity Building:*
    - *Experience in working with local communities, government agencies, and other stakeholders to co-develop and evaluate NbS projects.*
    - *Skills in designing or facilitating workshops, focus groups, and participatory assessments.*
7. *Technical Writing and Communication:*
    - *Proven ability to produce high-quality technical reports, policy briefs, and presentations tailored to diverse audiences.*
    - *Fluency in English is essential; knowledge of Thai language is an asset.*

- *Desired Experience*
    - *At least 7–10 years of professional experience in climate adaptation and NbS-related research or project implementation.*
    - *Previous experience conducting evaluations for international organizations or development projects in the Asia-Pacific region.*

7. PERIOD AND COORDINATION

The period of the consultancy will be _5_ months.

Form of work: in order to achieve the products, specify it will be necessary to work/coordinate with the Thailand IUCN staff and program coordinator for Cities and participate in work sessions.