

# **REQUEST FOR EXPRESSIONS OF INTEREST (CONSULTING SERVICES – INDIVIDUAL CONSULTANT SELECTION)**

## **Thailand**

### **Climate Adaptation and Resilience for South Asia (CARE) Project**

Loan No./ Credit No./ Grant No.: IDA-D6220

### **Assignment Title: Individual Consultant – Data Analyst (Agriculture Sector) - Regional**

**Reference No.** (as per Procurement Plan): TH-RIMES-206256-CS-INDV

The Regional Integrated Multi-Hazard Early Warning System (RIMES) has received/has applied for financing from the World Bank toward the cost of the Climate Adaptation and Resilience for South Asia (CARE) Project and intends to apply part of the proceeds for consulting services.

The consulting services (“the Services”) include individual consultant - Data Analyst (Agriculture Sector) – Regional who is responsible for collecting, interpreting, analyzing, and transforming regional and national agriculture data into useful information for 8 countries in the SAR region in collaboration with the RDAS System Development Team; supports the development team in collecting, quality checking, analyzing, and interpreting agriculture data and provide recommendations on design and development of climate-informed RDAS platform and associated capacity building/trainings for users; and develop reports as per project requirement.

The detailed Terms of Reference (TOR) for the assignment are attached to this request for expressions of interest.

The Regional Integrated Multi-Hazard Early Warning System (RIMES) now invites eligible individual consultant (“Consultants”) to indicate their interest in providing the Services. Interested Consultants should provide CV demonstrating that they have the required qualifications and relevant experience to perform the Services. The shortlisting criteria are: at least master’s degree in Agriculture, Environmental Science/Engineering or related fields; at least 5 years of experience working with agriculture sector in assessing institutional/end-user requirements for climate risk management; experience in agriculture data processing and analytical reporting; experience in performing statistical analysis and using statistical analysis tools and scripting language like R and Python; strong and demonstrated skills in generating derived satellite-based products for agricultural applications; and demonstrated skill as data analyst and/or statistician, especially in agriculture sector.

The attention of interested Consultants is drawn to Section III, paragraphs, 3.14, 3.16, and 3.17 of the World Bank’s “Procurement Regulations for IPF Borrowers” July 2016 (“Procurement Regulations”), setting forth the World Bank’s policy on conflict of interest.

A Consultant will be selected in accordance with the individual consultants method set out in the Procurement Regulations.

Further information can be obtained at the address below during office hours 0800 to 1700 Bangkok Standard Time.

Expressions of interest must be delivered in a written form to the address below (in person, or by mail, or by fax, or by e-mail) by January 21, 2022

The Regional Integrated Multi-Hazard Early Warning System for Africa and Asia (RIMES)

Attn: Dusadee Moya, Operation Manager

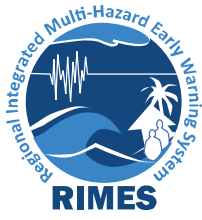
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**TERMS OF REFERENCE  
Data Analyst (Agriculture Sector) – Regional**

**1. About RIMES**

The Regional Integrated Multi-Hazard Early Warning System for Africa and Asia (RIMES) is an international and intergovernmental institution that is owned and managed by its 48 Member and Collaborating States for building capacities in the generation and application of user-relevant multi-hazard early warning information. RIMES was established on 30 April 2009 through the signing by collaborating countries of the RIMES regional cooperation agreement. RIMES was registered with the United Nations under Article 102 of the UN Charter on 1 July 2009. RIMES operates from its regional early warning center, located at the campus of the Asian Institute of Technology in Pathumthani, Thailand.

RIMES' purpose is to provide early warning services according to differing needs and demands of its Member States, for enhanced preparedness and response to and mitigation of natural hazards. Its specific objectives are:

- a) Facilitate the establishment and maintenance of core regional observing and monitoring networks to ensure data availability for early warning;
- b) Provide earthquake and tsunami services within the framework of the Intergovernmental Oceanographic Commission of the United Nations Educational, Scientific and Cultural Organization (IOC-UNESCO);
- c) Support National Meteorological and Hydrological Services (NMHSs) for providing localized hydro-meteorological risk information within the framework of the World Meteorological Organization (WMO); and
- d) Enhance warning response capacities at all levels (national to community) within each national early warning framework.

RIMES provides a portfolio of options for Member States to avail from or contribute to any of these objectives.

**2. Background**

Socio-economic impacts of climate-related hazards in South Asian countries continue to threaten the countries' economic growth, particularly in key sectors such as agriculture, water, and infrastructure. During the 16<sup>th</sup> Summit of the South Asian Association for Regional Cooperation (SAARC) in 2010, these countries collectively resolved to strengthen climate resilience. The [Climate Adaptation and Resilience for South Asia \(CARE\) Project](#) aims to contribute in translating this policy into actions through enhanced regional cooperation and knowledge on climate resilience and adaptation, and development of standards and guidelines to facilitate climate-resilient planning and investments.

The project's development objective is to create an enabling environment for climate-resilient policies and investments across South Asia, with the following indicators:

- o Increased access to regional climate data and analytics for climate-informed decision-making;
- o National-level decision-making and planning that are better climate risk-informed;
- o Regional climate resilience guidelines incorporated into national standards;
- o Sectoral investments supported to include climate risks and resilient design; and

- Institutional capacities strengthened to undertake climate-informed policies and planning.

The project has three components, for implementation over 5 years:

- 1) Promoting evidence-based climate-smart decision-making, to enhance access to data required for risk-informed planning and investments;
- 2) Enabling climate-resilient policies and standards for development, to enhance transformation of policies and capacities for climate resilience and adaptation across South Asia; and
- 3) Project management and implementation support.

Component 1 shall be implemented by RIMES. This component involves the creation of a regional resilience data and analytics service (RDAS) platform and decision-support systems (DSSs) for selected sectors of agriculture, water, road transport, planning and finance in Bangladesh, Nepal, and Pakistan. Component 1 also includes capacity development of users of these systems and their products. The RDAS is a cloud-based open-access platform for acquiring, storing, managing, processing, analyzing, visualizing, and reporting data, for use in screening climate risks to inform investments while the DSSs are sector-specific systems linked to the RDAS, and used to assist users in sectoral planning and decision-making.

The RDAS will be a public-domain cloud-based and AI-enabled data and analytics platform that will leverage a range of available data and analytical services of relevance to climate-smart development in the South Asia region. It is expected to enable South Asian countries to make climate-informed decisions and policies for climate resilience, based on more accurate and downscaled data and analytics. The RDAS, in addition to existing climate-related observation and early warning systems in the region, will also support overlaying of different data sources, across climate and socio-economic parameters, to specify hotspots of climate vulnerability across different sectors and timescales, and to support planning and investment decision making. The RDAS will leverage existing data systems in countries and sectors and will deploy tools for analysis and interpretation of global and regional circulation models and generate tailor-made downscaled information scenarios for all SAR countries. As a dynamic platform, it will respond to evolving data needs from sectors and generate, curate and host new climate and thematic data.

### **3. Objective**

The Data Analyst (Agriculture Sector) - Regional, reporting to the RDAS-DSS Lead, is responsible for collecting, interpreting, analyzing, and transforming regional and national agriculture data into useful information for 8 countries in the SAR region in collaboration with the RDAS and DSS system development team. S/he will support the development team in collecting, quality checking, analyzing, and interpreting agriculture data and provide recommendations on design and development of climate-informed RDAS platform.

### **4. Scope of Work**

The Data Analyst (Agriculture Sector) – Regional will manage, interpret, and analyze agriculture sector data, and develop reports as per project requirement. This includes leading and/or assisting in the following tasks:

- **Sector-specific data analysis**
  - Review, collect, and where necessary, update relevant data (i.e. key sectoral activities, climate hazards and impacts, existing capacities at mitigation of hazard impacts, gaps impeding plans and decisions, etc.) for agriculture sector including crops, fisheries and livestock for the 8 countries in the South Asian Region

- Analyze data and identify key agricultural (crops, fisheries, and livestock) parameters and their linkages to climate parameters
  - Identify sectoral/institutional climate-sensitive decision points, climate-related risks, capacities and gaps in, and mechanisms at enhancing climate-informed planning and decision-making in the agriculture sector including sub-sectors of crops, livestock and fisheries
  - Contribute to the analysis of capacity gaps and development of DSS/capacity building tools and materials for addressing capacity gaps
  - Design and implement trainings and other capacity building activities related to data collection, data analysis and information management in agriculture sector
  - Contribute to the development of relevant pre- and post-training evaluations and analysis of training effectiveness, and subsequently provide recommendations for training enhancements
  - Undertake other responsibilities as may be assigned by the Technical Lead and/or the Project Director
- **RDAS Development**
    - Based on quantitative and qualitative agriculture data collation, validation and analysis, provide inputs/recommendations to RDAS design, for enhancing climate-sensitive decision-making in agriculture
    - Analyze remote sensing data (e.g. satellite imageries) and obtain/calculate indices relevant to crop yield (e.g. NDVI GWI, soil moisture index, etc.)
    - Conduct drought risk assessment by analyzing relevant meteorological, hydrological, agricultural, and socio-economic datasets
    - Assist in programming and utilization of free and open sources digital data collection tools
    - Participate in discussions, meetings, consultations with targeted government and non-government stakeholders
    - Undertake other relevant work as assigned by the Technical Lead and/or the Project Director

## 5. Deliverable Requirement:

<b>Deliverables</b>	<b>Tentative Submission Schedule</b>
Deliverable 1: Monthly progress reports	Monthly basis; first month is within 30 days after contract effective date.
Deliverable 2: Regional and national data for agriculture analyzed and transformed into useful information for 8 countries in the SAR region	Within three (3) Months after contract effective date
Deliverable 3: Recommendations to RDAS and DSS system development	Within six (6) Months after contract effective date
Deliverable 4: Final report/s on sectoral data assessment and integration into RDAS	Final Report within 30 days after completion of the assignment.

## 6. Qualifications

### *Knowledge*

- Master's degree in Agriculture and Environmental Science/Engineering or related fields
- Demonstrated skill as data analyst and/or statistician, especially in agriculture sector

### *Experience*

- At least five (5) years of experience working with agriculture sector in assessing institutional/end-user requirements for climate risk management
- Experience in agriculture data processing and analytical reporting
- Experience in performing statistical analysis and using statistical analysis tools and scripting language like R and Python
- Strong and demonstrated skills in generating derived satellite-based products for agricultural applications

### *Skills and abilities*

- Proficiency in spoken and written English language
- Excellent analytical skills and problem-solving ability
- Proficiency in communication, presentation, notes taking, and report writing

### *Personal qualities*

- Self-motivated, with ability to prioritize work, meet deadlines, and manage changing priorities
- Flexibility and ability to work effectively independently and as part of a team
- Takes ownership of all responsibilities of the position
- Excellent work ethic and ability to work with a constructive attitude in multi-cultural setting

## **7. Reporting**

The Data Analyst (Agriculture Sector) – Regional will work under the direct supervision of the RDAS-DSS Lead and/or the Project Director. S/he will be based in RIMES Office in Thailand.

## **8. Contract Duration**

The contract will be for 4 years subject to a 6-month probationary period, and annual performance review.