

# GMES & Africa Support Programme

## Terms of Reference for hiring Assessors to evaluate the proposals received under the GMES & Africa Open Call for Proposals -2017

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## Definition of keywords and other terminologies

1.	<b><u>Application</u></b>	Application is used in two ways: (1) In the context of the Call for Proposal, Full Application implies the Proposal, and (2) In the context of service delivery, it refers to the conversion and processing of raw data to products (added-value data, map, numbers, figures and graphics) and information that address specific subject matters (themes and sub-themes).
2.	<b><u>Product</u></b>	For a given Application, Earth Observation, in situ or ancillary datasets are processed and transformed into products such as maps, graphs, indices, other statistics etc. It is a result of the workflow.
3.	<b><u>A Service</u></b>	<b>Earth Observation service refers to activities, processes, products and information</b> in the context of operational and continuous delivery on thematic issues for an end user.
4.	<b><u>Consolidation</u></b>	In the context of this call, consolidation could refer to an exercise of combining two or more existing applications into a single application using the principle of "Optimization by Combination". Consolidation could also refer to the continuation of the applications that have been running in previous projects such as PUMA, MESA, AMESD with the aim of improving quality of a service by limiting the number of applications addressing it, in order to avoid loss of accuracy during integration. This should also not insinuate that institutions continue with their running applications and fail to maximize their potential in developing new ones
5.	<b><u>Extension</u></b>	In the case of this call, extension is only possible with an operational application and it refers to inter-regionalisation or continentalisation. There must be a demand from the beneficiary region(s)/applicant(s) for an application to be considered for extension. The costs related to the extension are met by the beneficiary institution, and thus any foreseen need for extension must be factored in the budget of the applicant's proposal so that it is considered during the Granting period;
6.	<b><u>New application</u></b>	Refers to initiating an application from the scratch to address continental or regional needs and priorities. The following phases are involved in the process: Definition, Specification, Validation, Integration and Operationalization (From scratch, meaning not yet done under AMESD and MESA, or elsewhere). Applicants should be aware that we are under an operational program and research should have tested the possibility of the application.
7.	<b><u>Regional Implementation Centre (RIC)</u></b>	A RIC is a regional or national institution mandated to lead a consortium and entrusted to run assigned application/s in its region or at the continental level. RIC will also be coordinating the Grant allocated to the consortium and thus shall have sufficient administrative and financial capacities to manage an AUC grant.
8.	<b><u>Grant</u></b>	The funding provided to support eligible activities, as defined in the Guidelines, carried out by the RIC and its network of institutions forming the consortium.

### 1. BACKGROUND

GMES & Africa initiative is the crystallization of the longstanding cooperation between Africa and the European Union in the area of space science & technology and a key priority under the EU-Africa partnership. The Maputo Declaration of October 2006 called for a commitment to avail European

infrastructure and facilities under the European GMES programme (pursued today by Copernicus) to Africa, Caribbean and Pacific (ACP) countries. This commitment led to the launch of GMES & Africa process in Lisbon, Portugal, on 7<sup>th</sup> December 2007 during the 2<sup>nd</sup> EU-Africa Summit. The rationale of this long-term and strategic cooperation is to address the growing needs of African countries to access and use Earth Observation (EO) data for the implementation of sustainable development policies on the continent through the integration and deployment of African requirements and needs in Copernicus Services. This will, in the long run, enable the two continents to jointly solve and address global challenges and contribute to the attainment of their overarching development goals that include the AU agenda 2063 and the UN Sustainable Development Goals.

In the context of the Lisbon process, the European Union and African Union Commissions established a Coordination Team tasked to develop an Action Plan for the GMES & Africa and an EU-Africa Space Troika to oversee the overall evolution of this initiative. The Action Plan initiated a long-term structured dialogue between Africa and Europe on EO systems to respond to global needs, to manage the environment, understand and mitigate the effects of climate change and ensure civil security by providing information to policymakers, scientists, businesses and the public on a real-time basis. GMES & Africa will promote development of local capacities, institutional, human and technical resources for access to and exploitation of EO-based services on an operational basis for sustainable development in Africa.

Nine thematic chapters were identified and agreed upon in the Action Plan: (i) Long term Management of Natural Resources; (ii) Water Resource Management; (iii) Marine & Coastal Areas Management; (iv) Food Security and Rural Development; (v) Climate Variability and Change; (vi) Disaster Risk Reduction; (vii) Health; (viii) Conflict and Political Crisis, and (ix) Infrastructure and Territorial Development. The following cross-cutting areas were also identified: (a) Policy and Institutional framework (b) Infrastructure framework (c) Capacity Development framework (d) Financial issues, and (e) Monitoring and Evaluation. In the long run, the objective is to be providing information related with the thematics to policymakers, scientists, businesses and the public on a real-time basis to facilitate informed decision-making.

## **2. GMES & AFRICA SUPPORT PROGRAMME**

Stakeholders agreed on a gradual implementation process and prioritized in the first phase, consisting of only the first three thematic areas. This phase is called the GMES & Africa Support Programme, or simply the 'Programme'. The process resulted into a formulation report that recommended two services, namely: (a) Water and Natural Resources service; and (b) Marine and Coastal Areas service, building upon achievements of predecessor projects such as MESA, AMESD, PUMA and other projects across Africa. The financial and technical implications of the programme, in three parts, have been agreed upon and signed by the African Union Commission and the European Union Commission: (1) Delegation Agreement with AUC, (2)

Administrative arrangement with Joint Research Centre (JRC), and (3) Technical backstopping through the TECHNICAL ASSISTANCE TEAM (TAT).

The African Union Commission through its Department of Human Resources, Science and Technology is the Delegated Authority of the Programme. The GMES and Africa Support Programme is managed on daily basis by a programme management unit (PMU) located within the African Union Commission (AUC) Headquarters in Addis-Ababa, Ethiopia. The PMU is supported by the TAT. Additional support will be provided by JRC, EUMETSAT, European Space Agency and any other European technical institutions. The implementation process commences with identification of Regional Implementation Centres (RICs). A RIC is in fact a Consortium made up of at least five institutions from five different countries including the lead of the Consortium. The lead of the Consortium will be the applicant with which the AUC will sign the contract. The identification process involves a competitive procedure through an open Call for Proposal, which has already been issued in this regard.

### **3. OBJECTIVES**

#### **3.1. Objectives of the Support Programme**

The objectives of the GMES and Africa support programme are as follows:

1. General objective: promote a more sustainable management of Water, Natural, Marine and Coastal Resources by improving decision making process through provision of additional pertinent information.
2. Specific objective: “improve African policy-makers' and planners' capacities to design, implement, and monitor national, regional and continental policies and to promote sustainable management of Water, Natural, Marine and Coastal Resources through the use of EO data and derived information

#### **3.2. Objectives of the Call for Proposal**

The Delegation Agreement requires AUC to issue Grants to implement the Programme. The approach is a competitive process through an Open Call for Proposal where institutions are supposed to form consortia from which successful entities (Regional Implementation Centres-RICs) will be identified. The general objectives of the Call for proposal are to identify consortia (RICs) that will eventually lead to the following:

1. Maintaining, improving and sustaining local, institutional, human and technical capacities for accessing and using EO data and services for sustainable socio-economic development,
2. Contributing to the implementation of the African Space Policy and Strategy, in particular on Earth Observation,

3. Providing decision-makers with information and tools needed for the implementation of sustainable socio-economic development policies, programmes and projects at the continental, regional and national levels through their RECs and RICs.

The specific objectives of the Call for Proposals are to enable institutions work together in the consortia to achieve the following:

1. Consolidating, extending and developing applications for the Water and Natural Resources and the Marine & Coastal Areas Services to adequately provide information to policymakers, scientists, businesses and the public on real time basis,
2. Strengthening regional and national capacities to generate and apply EO-based and in-situ information for Water and Natural Resources and the Marine & Coastal Areas Services,
3. Raising public awareness on the critical role of Earth Observation in sustainable development, and
4. Developing a framework for promoting intra-African collaboration and open access to data for Water and Natural Resources and the Marine & Coastal Areas Services.

#### **4. PRIORITY AREAS**

The GMES & Africa Support Programme focuses on two services (1) Water & Natural Resources, and (2) Marine Coastal Areas. The target is to ensure that these services cover the entire continent through its five geographic regions in the manner below.

##### **4.1. Geographical distribution of the grants**

The call for proposals seeks to distribute Grants across the entire continent through Regional Implementation Centres (RICs), which act as regional outlets for the two services. Each RIC will have the responsibility to ensure that all countries in the region can benefit from the activity. The geographic regions are defined below:

1. **North Africa** (Morocco, Algeria, Tunisia, Libya, Egypt, Mauritania, Sahrawi Republic)
2. **West Africa** (Senegal, Gambia, Guinea Conakry, Guinea Bissau, Liberia, Sierra Leone, Ivory Coast, Ghana, Togo, Benin, Nigeria, Cabo Verde, Mali, Burkina, Niger).
3. **Central Africa** (Chad, Central Africa, Cameroon, Gabon, Equatorial Guinea, Congo Brazzaville, Congo RDC, Burundi, Sao Tome & Principe)
4. **Southern Africa** (Angola, Namibia, South Africa, Lesotho, Mozambique, Swaziland, Zambia, Zimbabwe, Botswana, Malawi,)

5. **East Africa** (Sudan, South Sudan, Eritrea, Djibouti, Ethiopia, Uganda, Kenya, Rwanda, Somalia, Tanzania, Madagascar, Mauritius, Seychelles, Comoros)

To achieve this objective, it is desirable that eligible institutions with regional and national mandates form consortia in the stated regions. For the purpose of the GMES & Africa grants, and in view of the nature of this programme (linked to environmental phenomena), the countries covered by a grant could be part of different regions (inter-regional or continental).

#### **4.2. Grants allocation areas**

Grants will be issued in two lots according to the services:

1. Water & Natural Resources service
2. Marine and Coastal Areas service

GMES & Africa shall build, as far as possible, on the successful achievements (infrastructure, services, networks, capacities and processes) of the predecessor programmes, which already developed and operated, in some regions, applications pertinent for the two services.

Applications to run under GMES & Africa are categorized into three segments: (1) Consolidation, (2) Extension, and (3) New applications. Definition of these terminologies is found in the list of keywords.

The target for the Call for Proposals' is to identify a maximum of 15 Consortia across the five regions of the continent (according to the definition of regions above) and to award one Grant to each consortium in order to try to operationalize, ultimately, the indicated 23 applications across African regions. Please find in the tables 1 and 2 in the annexes below the 23 applications and their requested segments of activities:

### **5. DESCRIPTION OF THE ASSIGNMENT**

#### **5.1. Objective of the assignment**

Projects selected for funding under the GMES & Africa Support Programme will be identified through an open Call for Proposals. Applications will be considered for funding if they meet the relevant eligibility criteria. The purpose of this advert is to recruit a team of assessors that will assist in assessment of the proposals to be received. The task is to assess proposals based on the criteria already set in the Guidelines for the Call.

Appraisal of proposals will be performed by an assessment team, composed of assessors coordinated by a team leader (thereafter, "the assessment team"). The Assessment Team reports to and receives directions from the Evaluation Committee. The Assessment Team, consists of a non-voting chairperson, an appropriate number of voting members and a non-voting secretary. Members will be selected by and approved by the African Union

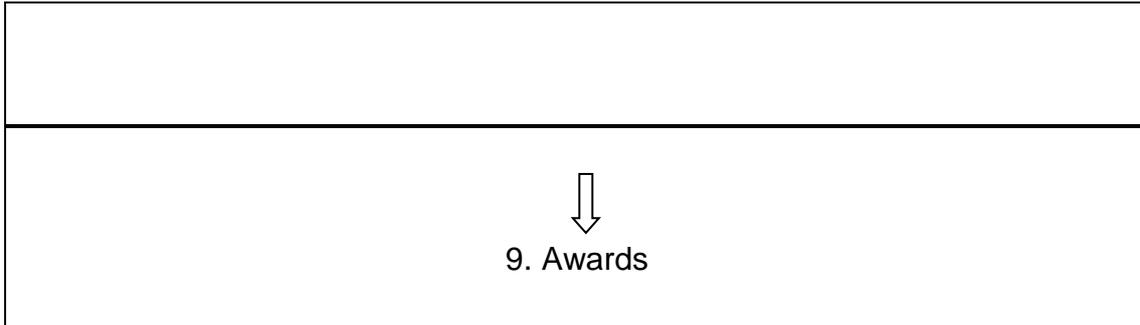
Commission. The identification and recruitment of the assessment team is the purpose of the present assignment. The global objective of the assessment team assignment is to assist the African Union Commission in the **assessment, appraisal and pre-selection** of the received proposals in accordance with the standards and procedures described in detail in the African Union Grant manual and the guidelines for applicants. The evaluation Committee will receive the pre-selected list of proposals from the Assessment Team and in the end, the evaluation Committee will make the **final decision**. It will therefore be essential that beforehand, all Assessors study carefully the Guidelines, the application form and all the annexes that have to be filled in or that were given as reference documentation to the applicants.

## 5.2. Requested services, including suggested methodology

In the context of the Call for Proposals prospective beneficiaries will submit proposals for funding. These proposals will consist of a Concept Note, the Full Application and Annexes. For all parts, applicants will have to use pre-defined templates and complete them in compliance with Guidelines provided by the African Union Commission.

The overall evaluation process consists of the following steps. Services of the Assessment Team are required in the areas marked in green (specifically steps 4-6):





Expounding from the illustration above, the main task of the assessment team will be to:

- Assess Concept Notes that have been considered administratively compliant by the Evaluation Committee;
- Perform the financial and technical assessment of full applications whose Concept Notes have passed the eligibility check;
- Pre-select and recommend successful proposals to the Evaluation Committee
- Perform a second independent full assessment of concept notes and of pre-selected full proposals if requested by the Evaluation Committee;
- Address any requests and provide for clarification on the assessment as requested by the Evaluation Committee;
- To set up an effective quality control (QC) system on evaluation grids to help to identify any systematic weakness in assessment at any early stage.

Additional services to be provided by Assessors under these Terms of Reference in particular are:

- Analyse and provide comments to the Evaluation Committee on the detailed grids to be used to evaluate the Concept Notes and of the pre-selected proposals.
- Attend a one-day preparatory briefing in Addis Ababa led by AUC on methodology, outputs, guiding principles, etc. related to the global evaluation process. One representative from each Regional Economic Community (RECs<sup>++</sup>) and EC may participate only in that preparatory briefing day as observer. The purpose of the briefing is to ensure consistent and reliable evaluation process and outputs.
- Present a comprehensive planning of the timeframe and the experts' inputs for the approval of the Contracting Authority (AUC).

### **5.2.1. Detailed description of tasks to be performed**

#### *Opening and Administrative Check*

The Assessment team may assist the GMES & Africa Support Programme Management Unit (PMU) for the Opening and Administrative Check to ensure, based on a check list, that:

- The submission deadline has been respected and if the deadline has not been respected the application will automatically be rejected.
- The Application Form satisfies all the criteria specified in points 1-5 of the Checklist (section 6 of part B of the grant application form) and if any of the requested information is missing or is incorrect, the application may be rejected on that **sole** basis and the application will not be evaluated further.
- The Assessment team will draw up 3 lists of applications that are administratively complaints, non-administratively complaint and those that did not meet the deadline by geographical region and thematic area and a report on reasons for rejection or acceptance of an applicant.
- The Evaluation Committee will review the report on the basis of the assessor's justification for each application.

#### *Verification of eligibility*

Using the Declaration by the applicant (section VI of the application form) and the criteria set out in the Guidelines for Applicants, the Assessment Team Leader, with the support from the assessors, will proceed to the verification of eligibility of the selected proposals in Addis Ababa, in accordance with the African Union Commission procurement and Contract procedures.

The Team Leader will draft a report on eligibility that will be presented by him to the Evaluation Committee.

The Evaluation Committee may request the verification of eligibility of one or more proposals to be undertaken at any previous step of the procedure.

#### *Assessment of the Concept Notes*

The Concept Note is a document in which applicants are requested to give a brief summary of their proposed project and then provide short explanations with regard to its relevance, its effectiveness and feasibility and its sustainability.

The Concept Note evaluation grid is divided into **sections** and **subsections** graded with a score ranging from 1 to 5. The task of the assessors will be to

attribute the score against each criteria and to explain the rationale of their scoring.

Each concept note is to be verified by two assessors, independently. The concept note assessment report will be drafted by the team leader on the basis of appraisals received from assessors. The concept note assessment report will be presented by the team leader to the Evaluation Committee, meeting in Addis Ababa.

The Evaluation Committee will review on the basis of the assessors' comments, the score attributed to each Concept Note and, following their own evaluation, either confirm or modify it.

Appraisals of Concept Notes that are not accepted by the Evaluation Committee (e.g. poor quality, not filled in completely, arithmetical errors, insufficient or contradictory comments etc.) will be returned for re-assessment with an explanation of the reasons of non-acceptance. Such re-assessment will be at the assessor's expense.

The Evaluation Committee will receive provisional list of successful proposals from the Assessment Team, and based on their (Evaluation Committee) further analysis, will provide the final list of pre-selected proposals to the Contracting Authority (AUC-HRST) for approval.

It is imperative that the assessments and evaluations carried out are of such standard that will allow the Contracting Authority to communicate clearly and constructively to the applicants justifications behind the scores given.

The African Union Commission reserves the right not to undertake the evaluation of the Concept Notes whenever considered justified (for example when a lower than expected number of applications are received) and to go straight to the evaluation of the corresponding full applications.

#### *Assessment of Full Applications*

Applications whose Concept Notes have passed the immediate step above will undergo full assessment and this exercise will lead to ranking of applications in descending order of the score attributed to the total score of Full Applications and their Concept Notes. The proposals that have been pre-selected will be presented to the Evaluation Committee and later AUC for final approval.

During this stage, the task of the assessors will be to attribute to each criteria of each section of the full evaluation grid a score ranging from 1 to 5 and to explain the rationale of their scoring. As for the Concept Notes, each application will be assessed by two independent assessors. The result of the assessments will be submitted and presented by the Team Leader to the Evaluation Committee, which will review, on the basis of the assessors' comments, the scores attributed and, following their own assessment, either confirm or modify it.

Appraisals of Full Application Forms that are not accepted by the Evaluation Committee (e.g. poor quality, not filled in completely, arithmetical errors, lack of coherence between judgements of different experts, insufficient or contradictory comments...) will be returned for re-assessment with an explanation of the reasons of non-acceptance. Such re-assessment will be at the assessor's expense.

#### *Recommendation of pre-selected projects for funding*

Based on the assessment of the Full Application Forms the Team leader, in collaboration with all assessors, will develop a recommendation document indicating the projects to be funded. All assessors and the team leader should sign that recommendation document.

### **5.2.2. Methodology**

The assessors to be recruited through this call for tenders will consist of six (6) assessors plus one (1) team Leader.

The team leader will assure the overall co-ordination, the quality control and the independence of the assessments. This will include verifying that evaluations produced by the assessors are clearly formulated, of a high technical standard and well substantiated (qualitatively and quantitatively) with appropriate supporting comments.

He/she will also be responsible for coordinating the re-evaluation of returned evaluations and will report to the Evaluation Committee.

Each Concept Note and each Full Application will be assessed independently by 2 assessors. They will not communicate with each other during the appraisal process. Their separate assessment reports (i.e. the completed scoring grid and comments) will be merged into a single one by the team leader. Where the scores attributed by the assessors differ by 2 points and more for each criteria for the concept note and 2 points and more for each criteria for the Full Application, the team leader will invite the assessors to review their scores accordingly or explain in written the difference. The final grade given to each concept note and proposal will be the arithmetical average of the two independent assessments. Particular attention should be paid to instances where the two assessors diverge by more than one point for a given section of the evaluation grids (e.g. 1 and 3 or more, 2 and 4 or more etc).

The team leader will submit the harmonised assessments of the Concept Note and of the Full Applications to the Evaluation Committee together with the original appraisals of the assessors.

One day briefing session for the team leader will be organised in Addis Ababa. During the briefing the Team leader will be able to meet the representative of the African Union Commission.

### **5.2.3. Summary of Deliverables**

- a) For Concept Note proposal, an assessment report produced
- b) For each Full Application Form, an assessment report
- c) A reserve list indicating the best scores after those selected for award
- d) A final assessment report with minutes of the appraisal sessions and signed by all assessors of the Assessment Team.

### **5.2.4. Guiding principles**

- a) Sign declaration of impartiality and confidentiality slip. Any assessor including the assessment team leader who has a potential conflict of interest with any applicant must declare it and immediately withdraw from the assessment team
- b) Must not change or adjust the Administrative checklist or declaration by applicants (but can suggest in their final report their observation and suggestion for future change)
- c) Transparency and equal treatment of all candidates (applicants) must be maintained
- d) No information about the assessment, clarification or decisions about the process can be disclosed before the appointed time.
- e) Applicant who tries to influence the process in any way (whether by initiating contact with assessors of the Assessment Team or otherwise) will result in the exclusion of its proposal for further consideration
- f) The whole proceedings of the Assessment Team session from beginning to the end of the process are confidential.
- g) Participation in the Assessment Team session meeting is strictly limited to the members of the Assessment Team designated by the African Union Commission and any authorised observer.
- h) Apart from the initial documents provided to the Assessment Team,, other applicants document should not leave the room in which the session take place before the conclusion of the work of the assessment and evaluation.

## **6. EXPERTS PROFILES**

### **6.1. Number of requested experts**

The AUC, through this call, is looking for a total of 7 experts among which 6 assessors as assessment team members and 1 assessor as the team leader.

A reserve list of 6 assessors and 1 team leader will be created from this same call.

## **6.2. Qualification and competencies required**

### *6.2.1. Team leader*

The team leader shall have and demonstrate clearly the following:

#### Education

- PhD degree in Earth Observation applied to environmental management specifically in water, natural resources, marine or coastal areas.

#### Experience

- 15 years of experience in managing, implementing and coordinating operational earth observation programmes or projects for sustainable development in Africa at continental, inter-regional or regional levels.
- 10 years of professional experience in managing and implementing operational programmes or project related to earth observation applied to water, natural resources, marine or coastal areas in Africa.
- Sound experience (demonstrated by at least 3 examples in assuming this role/responsibility) of acting as team leader for the evaluation of operational earth observation programmes/projects proposals at regional and/or inter-regional levels in Africa. A continental experience will be an asset.
- Experience in engaging academia and private sector in earth observation operational programme and/or projects.

#### *Knowledge*

Knowledge of earth observation trends and emerging issues in general, and particularly with respect to its application to water, natural resources, marine or coastal areas in Africa;

#### *Language*

- Since the applications are both in English and French, it is highly desired that the Team Leader be fully bilingual.

### *6.2.2. Assessors*

The team of 6 assessors shall have qualifications enabling them to perform the evaluation of submitted proposals with regard to their relevance, financial and operational capacity, sustainability, methodology and feasibility.

An Assessor should clearly demonstrate that he/she meets the following criteria:

#### *Education*

- PhD or Master's degrees in earth observation applied to environmental management specifically in water, natural resources, marine or coastal areas

#### *Experience*

- 10 years of experience in managing and implementing operational earth observation programmes and/or projects at regional, inter-regional or continental level.
- 10 years of experience in assessing or evaluating operational earth observation programmes and/or projects at regional, inter-regional or continental level.
- Experience in engaging academia and private sector in earth observation operational programme and/or projects.

#### *Knowledge*

- Knowledge of earth observation trends and emerging issues in general and particularly with respect to its application to water, natural resources, marine or coastal areas in Africa

#### *Language*

- Must be proficient in French or English. Knowledge of the other language is an asset.

### **6.3. Working languages**

The Applicants to the call for proposals for the GMES & Africa Support Programme will submit their proposals in English or in French. The assessment grids will be submitted to the assessors in both languages: English and French. Therefore the assessors must have a good understanding and drafting skills in English or in French.

The team leader is expected to be bilingual and have good understanding and drafting skills in both English and French since he/she will be interacting with French and English speaking assessors.

All related documents and correspondences will be in English and French.

## **7. DURATION AND LOCATION**

### **7.1. Starting date and duration of the assignment**

The Call for Proposals of the Support Programme was launched in May 23, 2017. Applicants have to submit their proposals no later than 21<sup>st</sup> of August 2017. The entire assessment process commences immediately and should take 2 weeks. Consequently:

- The one-day preparatory meeting with the whole team of assessors will take place on Monday September 4, 2017.
- The Opening and Administrative check, the eligibility compliance check and the evaluation of Concept Notes should take place from Tuesday September 5, 2017 to Friday September 8, 2017
- Assessment of Full Applications should take place from September 11 to September 13, 2017.

### **7.2. Location**

The presence of all assessors and the team leader is necessary and mandatory in Addis Ababa for all the assessment process. Therefore, the selected assessors and the team leader should arrange to make themselves available for travelling and staying in Addis Ababa for two-week period as stated above. The dates may change, in this case all the assessors and the team leader will be informed in timely manner (1 week before the new dates).

## **8. REMUNERATION**

Each assessor and the team leader will be provided with a round trip ticket, Daily Subsistence Allowance (DSA) according to AUC rates and travel policy. Each assessor will be provided honorarium fee of **USD 300/working day**. The team leader will be provided honorarium fee of **USD 400/working day.**

ANNEXES

**Table 1- Water and Natural Resources Service proposed applications**

<b>Component</b>	<b>Theme</b>	<b>Applications proposed</b>
Component 1: Water Resources Monitoring	Theme 1: Surface Water Monitoring	<i>L111- New</i> Water Balance Monitoring
		<i>L112- Existing</i> Water Level for Fluvial Navigability and Hydrology Cycle Monitoring and Assessment
		<i>L113- : Existing</i> Riverine Floods Monitoring and Assessment
		<i>L114- New</i> Major African Lakes Biophysical Parameters Monitoring
		<i>L115- New</i> Wetlands Monitoring and Assessment
	Theme 2: Groundwater Knowledge Consolidation	<i>L121- New</i> Consolidation of Knowledge on Large Trans- boundary Aquifers
		<i>L122- New</i> Water Abstraction Surveillance, Monitoring and Assessment in Irrigated Areas
Component 2: Management of Natural resources	Theme 1: Geographical Regional Reference Vector Database	<i>L211- New</i> Open Geographical Regional Reference Vector Database (~1:1M scale) for water and agro- ecological zonings
	Theme 2: Long Term Management of Natural Resources	<i>L221- Existing</i> Land Degradation Monitoring and Assessment
		<i>L222- Existing</i> Natural Habitats Monitoring and Assessment
		<i>L223- Existing</i> Tropical Forest Surveillance, Monitoring and Assessment
		<i>L224- New</i> Surveillance, Monitoring and Assessment of Environmental Impacts of Mining activities
	Theme 3: Sub- Tropical and	<i>L231- Existing</i> Agriculture Seasonal Monitoring, Early Warning and

Tropical Lands Seasonal Monitoring	Assessment
	<i>L232- Existing</i> Pasture Seasonal Monitoring, Early Warning and Assessment
	<i>L233- Existing</i> Wildfires Seasonal Monitoring, Early Warning and Assessment

**Table 2: Marine & Coastal Areas Service proposed applications**

<b>Component</b>	<b>Theme</b>	<b>Applications proposed</b>
Component 1: Monitoring and Forecasting of Oceanography Variables	Theme 1: Monitoring and Forecasting of Physical and Biological Oceanography Variables	<i>M111- Existing</i> Monitoring and forecasting of physical and biological oceanography variables
	Theme 2: Fisheries Resources Management and Protection	<i>M121- Existing</i> Fishing Zones Monitoring and Protection
		<i>M122- New</i> Aquaculture Site Monitoring and Protection
Component 2: Coastal Area Monitoring	Theme 1: Coastal Vulnerability	<i>M211- Existing</i> Coastal Vulnerability
	Theme 2: Coastal Ecosystems Mapping and Monitoring	<i>M221- New</i> Coastal Ecosystems Mapping, Monitoring and Assessment
Component 3: Ship Traffic and Pollution monitoring	Theme 1: Ship Traffic monitoring	<i>M311- New</i> Ship Traffic Monitoring
	Theme 2: Oil spills Monitoring and Warning	<i>M321- New</i> Oil Spills Monitoring and Warning
Component 4: Marine Weather Forecast	Theme 1: Regional Marine Weather Forecast	<i>M411- Existing</i> 3 days Marine Weather Forecast