



ITU-EC Project

Harmonized ICT Policies in the ACP countries

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Support for Harmonization of the ICT Policies in Sub-Sahara Africa

Call for application n° HIPSSA/G-3.5 (d) [INT]

Title: International spectrum management expert specialized in cross-border coordination

Country: Work at home

Type of contract: Special Service Agreement (SSA) for a lumpsum

Starting date: 15 February 2011

Ending date: 30 April 2011

Duration of appointment: Approximately 35 working days

Payment: Lumpsum of 11'900 USD

*The remuneration offered cannot be higher than **340 USD** per working day for an International P-5. Both base salary adjustment and DSA are based on location and subject to variation. For detailed information, please refer to conditions of employment for ITU technical assistance project personnel.*

Description of duties:

Introduction

This ITU-EC joint project for "Harmonisation of ICT Policies in Sub-Sahara Africa" (HIPSSA) is building on the experienced gained with a pilot project funded by European Commission (EC) and ITU that led to the adoption of Additional Acts for telecommunications to the ECOWAS Treaty. It aims at developing and promoting harmonized policies and regulatory guidelines for the ICT market as well as building human and institutional capacity in the field of ICT through a range of targeted training, education and knowledge sharing measures. This project will result in the creation of harmonized regional and national policy, legal and regulatory frameworks conducive to significant investments in the ICT infrastructures and services.

Steering mechanism of the mission and distribution of duties across the experts' team

The international expert will work under the supervision senior international expert (cf. JD HIPSSA G-3.6 d) The international expert will also liaise as needed with the Senior Engineer for spectrum management of BDT Telecommunication Technologies and Network Development Unit (TND), the ITU Regional Office for Africa (RO-AFR), the Telecommunication and Post Division (DTP) at the Infrastructure and Energy Department (IED) of the African Union Commission (AUC) and the ITU-EC HIPSSA Project Team.

Under the guidance of the AUC, the international expert may also consult the stakeholders such as the African Telecommunication Union (ATU) and the African Broadcasting Union (AUB) among others.

The international expert will be part of a team including four (4) regional experts (see HIPSSA/G-3.1, HIPSSA/G-3.2, HIPSSA/G-3.3 and HIPSSA/G-3.4) and a senior international expert who will assume the coordination of the team (see HIPSSA/G-3.6). The team is responsible for conducting an assessment study on existing cross-border frequency coordination mechanisms in Sub Saharan Africa and a cost-benefit analysis of a pan-African multilateral agreement.

The regional experts (see HIPSSA/G-3.1, G-3.2, G-3.3 and G3.4) will be responsible for conducting the assessment study in their respective geographical region (West, Central, East and Southern Africa). This assessment will include performing a survey and a comparative analysis of existing administrative and

technical procedures related to bilateral and multilateral cross-border frequency coordination agreements with the Harmonized Calculation Method (HCM) as implemented in Europe.

The international expert (see HIPSSA/G-3.5) will be responsible for (i) providing a presentation of the HCM agreement, related procedures and tools, (ii) providing the regional experts with a common questionnaire for the survey and a common template for the comparative analysis, (iii) consolidating the sub-regional assessments and (iv) conducting a gap analysis to identify needs across the sub-regions and the cost-benefit analysis related to the introduction of a pan-African multilateral agreement under the aegis of the African Union.

The senior international expert (see HIPSSA/G-3.6) will be in charge of the overall coordination and quality insurance of the assignments of all experts within the team and assume the liaison with the African Union Commission and as required with the African Telecommunication Union (ATU) and African Broadcasting Union (ABU).

Tasks to be completed

The mission will be conducted in four stages as follows:

1. Presentation of the Harmonized Calculation Method (HCM)

- 1.1. The international expert shall provide an executive summary of the HCM mechanism as implemented in Europe.
- 1.2. The international expert shall supplement this executive summary with a report presenting the administrative Agreement, the related procedures, the various elements of the common propagation model and the corresponding various tools (software, available geographic data and the data formats).
- 1.3. The international expert shall submit for review and comments the executive summary and the report on HCM to the senior international expert.
- 1.4. The international expert shall amend the executive summary and the report on HCM based on the comments of the senior international consultants

2. Common templates for survey and comparative analysis

- 2.1. The international expert shall propose a draft template for the comparative analysis and a draft questionnaire for the survey to the senior regional experts, the senior international expert, the TND division of ITU-BDT and the AUC.
- 2.2. Based on the comments of the regional experts', the senior international experts, the TND division of ITU-BDT and the AUC, the international expert shall amend the common template and questionnaire and have them validated by the HIPSSA Project Team.

3. Consolidation of regional surveys, gap analysis and cost-benefit analysis

- 3.1. The international expert shall consolidate the draft regional reports into a draft final report including
 - 3.1.1. findings of the survey,
 - 3.1.2. a comparative analysis of the various bilateral and multilateral cross-border frequency coordination agreements across Sub-Sahara
 - 3.1.3. an assessment of the consolidated needs based on a gap analysis between the multilateral cross-border frequency coordination agreements in Sub Sahara Africa with the existing HCM Agreement as a common comparator.
 - 3.1.4. a cost-benefit analysis for the introduction of a pan-African agreement on administrative and technical procedures for cross-border frequency coordination in Sub-Sahara Africa using the HCM agreement as a potential solution to be adapted to the needs of the region.
 - 3.1.5. a proposal for the adaptation of the HCM Agreement if the cost-benefit analysis proved beneficial.
- 3.2. The international expert shall submit for review and comments draft final report to the senior regional experts, the senior international expert, the TND division of ITU-BDT, the HIPSSA Project Team and

the African Union Commission.

4. Finalisation of the study

- 4.1. The international expert shall amend the draft final report based on the discussions and comments provided by the senior regional experts, the senior international expert, the TND division of ITU-BDT, the HIPSSA Project Team and the African Union Commission.

(Note: The final report will be presented and reviewed at during a workshop of a Technical Working Group to be formed under the aegis of the African Union Commission in 2011. Additional Terms of reference will be provided if required by follow up actions.)

Concrete deliverables:

1. Questionnaire for interviews.
2. Template for comparative analysis
3. Consolidated report of the assessment study including
 - 3.1. the main findings of the survey,
 - 3.2. the comparative analysis,
 - 3.3. the gap analysis identifying common needs across Africa and
 - 3.4. the cost-benefit analysis of introducing a pan-African common agreement
 - 3.5. the proposal for the adaptation of the existing HCM Agreement

Deliverables shall be drafted in English with the document template provided by the HIPSSA Project Team and shall include mandatorily the ITU and EC logos including in all slides presentations.

(Note: the copyright of all documents produced under the project shall be vested with ITU and AU Commission.)

Qualifications and experience:

1. Advanced university degree in electrical engineering, telecommunications, physics or relevant fields, OR education in a reputed college of advanced education with a diploma of equivalent standard to that of an advanced university degree in one of the above-mentioned fields. The education of the successful candidate shall include physics applied to radio-waves propagation and radio-communications engineering.
2. At least 10 years of progressively responsible experience in the field of frequency management.
3. Long standing experience of administrative and technical procedures related to frequency allocation and management. The successful candidate shall have
 - 3.1. In depth knowledge of the HCM Agreement in Europe.
 - 3.2. Been in charge of allocating frequencies with the corresponding/responsible national government agency and/or
 - 3.3. Worked with a wireless network operator or a engineering service company in a position
 - 3.3.1. requiring frequency planning and management and
 - 3.3.2. interactions with the above mentioned government agency
 - 3.3.3. possibly involved in international frequency coordination
 - 3.4. Gathered work experience in more than one country in the targeted sub-region.
 - 3.5. Familiarity with ITU-R rules and regulations as well as operational and administrative procedures.
4. Involvement with WRC or related regional forum is an advantage.

Languages:

Excellent knowledge of English. Outstanding written communications skills.

Knowledge of another African Union official language (French, Portuguese or Arabic) is an advantage.

Please address applications, quoting above reference , to:

Mr. Sandro BAZZANELLA

ITU-EC Project Manager

International Telecommunication Union

Place des Nations, CH-1211 GENEVA 20, SWITZERLAND

with your Personal History File (PHF) and a short written proposal to the following email address:

hipssa@itu.int