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|   | **Centre for Social Research and Development (CSRD)** |

**TERMS OF REFERENCE**

Consultancy work for the research activities related to

**“Improving understanding and action against Agrochemicals and water pollution in Central Vietnam” funded by RLS - Thua Thien Hue and Quang Tri provinces**

Assignment: Studying on pesticide usage and mapping pesticide warehouses in Thua Thien Hue and Quang Tri provinces

*July, 2016*

**Background**

Vietnam faces many serious environmental problems compounded by climate change and global warming: land degradation, air pollution, water pollution, deforestation, and declining biodiversity. Now, the environmental pollution caused by the over use and defective storage of pesticides is becoming alarming. A large amount of now-obsolete pesticides remain in warehouses from the subsidy period 1975 - 1990 and are threatening the health of local people and degrading the environment. In addition, many farmers continue to overuse pesticides because of the propensity to diseases in agriculture induced by climate change effects, and the economic pressures they face to sustain high productivity.

The consequences are not only negatively impacting on land and water resources due to contamination and the process of pesticide absorption into land and water resources, but also has direct effects on human health resulting from contaminated food and water, especially for the polluted areas where the communities have not yet been provided with a clean water service.

The problems of agrochemical storage have not so far been adequately addressed. There are no comprehensive studies about the issues, and public awareness and opinion on the issue remains low.

In the framework of the project: “Improving understanding and action against Agrochemicals and water pollution in Central Vietnam” fund by Rosa Luxemburg Stiftung South East Asian (RLS SEA), Centre for Social Research and Development (CSRD), would like to call consultant to studying on pesticide usage and mapping pesticide warehouses in Thua Thien Hue and Quang Tri provinces.

# Objective

Improve Knowledge and understanding on location of pesticide warehouses and polluted water spots posing a health/environment risk in Central Vietnam.

# Tasks and deliverables

The consultant is sought to conduct a research about pesticide usage and mapping pesticide warehouses in Thua Thien Hue and Quang Tri provinces with the task as below:

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| **No.** | **Activities** | **Output** |
| 1 | Conduct a desk study about the pesticide use in 02 provinces Thua Thien Hue and Quang Tri  | * A report on general pesticide situation in Vietnam and Thua Thien Hue and Quang Tri.
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| 2 | Conduct a field study to collect baseline data from relevant agencies at provincial and district levels (DARD, DONRE, Plant Protection Offices, 3Environmental Protection Offices):* Design 2 questionnaires for 02 different target groups: provincial and district levels and local people
* Field study to interview relevant agencies and Survey the warehouse locations.
* Reporting
 | * 02 questionnaires and 02 reports on baseline assessment of pesticide usage and storage at district and commune levels and point of view of relevant agencies (DARD, DONRE, Plant Protection Offices, Environmental Protection Offices) and local people in Thua Thien Hue and Quang Tri provinces. The result will supplement the content for the first report.
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| 3 | Conduct a field data collection for mapping pesticide warehouse locations and their current situation:* Interview local communities and women’s groups and to position and track the location of the old warehouses and pollution spots with the technique of Global Positioning Systems (GPS).
* Take photos.
* Determine the position of warehouse locations
 | * 02 field reports on current situation of pesticide warehouses and their location and also some notes taken about the potential impacts of these warehouses on human health and environment.
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| 4 | Establish maps of warehouse locations and their attribute data:* Analyse the data and develop conceptual framework to put all together to make the maps.
* Digitise the warehouse locations by GPS and compile attribute data of map layer.
* Build First draft maps before roundtable for validation.
* Complete maps after receiving the feedback at the workshop
 | * Map the location, characteristics of the repository and the surrounding area.
* 02 maps of pesticide warehouses of Hue and Quang Tri provinces with brief description of each in their attribute data.
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| 5 | Write a technical report on pesticide usage with the compilation the performance of maps. | 01 technical report on pesticide usage with the compilation the performance of maps. |

# Responsibilities

In order to achieve the assignment’s objective, as outlined above, the consultant team will be required to perform the following tasks:

**Main consultants:**

* Closely work with the team of CSRD to get information related to research activities.
* Follow the structure for research report recommended by CSRD.
* Closely work with CSRD researchers to build up high quality maps.

**Consultant assistant:**

* Participate in field study to collect baseline data from relevant agencies at provincial and district levels
* Closely work with main consultants to ensure all activities implemented in time and gained the activity objectives.
* Support main consultants: take notes; take photos, communicate with stakeholders, collect additional documents.

# Activity plan

The assignment starts from 1st August to 20th October, 2016.

# Consultant team

The consultant team includes:

* + - 1. 01 Geographic Information System consultants

# Payment termsPayment will be made to the trainers after the complete of activities and submission of output.

# 7. Consultant Profile

* Master degree with over 10 years experience in Geographic Information System and natural resources and environment.
* Consultant assistant with minimum of 4 years of professional experience in related field.
* Good skills in communication and English.
* Good writing report skills.