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To express interest in this assignment please email Priyanka.subba@crs.org
CRS Farmer to Farmer Program
Volunteer Assignment Scope of Work

Summary Information	
Assignment Code	NE237
Country	Nepal
Country Project	Crops Country Project
Host Organization	Nepal Plant Disease and Agro Associates (NPDA)
Assignment Title	Integrated Pest Management training and guideline development
Assignment preferred dates	August-September 2020
Objectives of the assignment	To train NPDA scientists on Integrated Pest Management (IPM) To prepare draft training module on IPM
Desired volunteer skill/expertise	IPM expertise
Type of Volunteer Assistance	Experts of Integrated Pest Management in Crops
Type of Value Chain Activity	Trainers' training – Training to lead farmers - Farmers Training – Application – Evaluation – Adoption
PERSUAP Classification ¹	Type I

A. BACKGROUND

Agriculture in Nepal is transforming gradually from its subsistence level to commercialization. With this process and also because climate change a number of problems have become apparent to the country's agriculture sector. That includes introduction and emergence of new pest problems and thereby increased use of chemical pesticides. At the same time people, including the farming communities, have become aware of at least pesticide problems and their detrimental effects. However, they have no options other than using chemical pesticides. The Government of Nepal (GON) also has formulated national policy in favor of minimizing chemical pesticides through IPM practices and is promoting activities towards it.

A number of organizations/projects have been involved in IPM in Nepal for many years the results/impacts have not been satisfactory so far. Research on IPM by public sector has been limited and done in isolation. There is no collaboration and proper linkages between research and extension services. The IPM programs so far implemented or being implemented are project bound. After the completion of the project there is no continuation and follow up. In other words, there is no ownership. Private sector's participation in the IPM is almost nil.

Nepal Plant Disease and Agro Associates (NPDA) is established three and half year back with aim to train, conduct research and disseminate knowledge in wider scale. The organization is joint effort of pathologist,

¹ USAID precisely classifies PERSUAP in four categories; **PERSUAP Type I** assignments directly related to pesticides recommendations, **Type II** as assignments with indirectly related with pesticides, **Type III** assignments related to curriculum review and designing, business plan development and strategies development and **Type IV** as assignments associated with other USAID projects and collaborators.



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soil conservers and soil scientist. All have worked experience in Nepal Agriculture Research Council (NARC) and have years of exposure on research and development. NPDA has its own lab and working together with Nepal government’s Prime Minister Agriculture Modernization Program. It is also working closely with Agriculture and Forestry University and Institute of Agriculture and Animal Sciences/Tribhuvan University.

B. ISSUE DESCRIPTION

Agriculture extension remained a topic of discussion in Nepal. The expertise around extension services, research and development, information dissemination and prescribing appropriate solutions for farmers is not well developed. The soil conservation remained an issue. NPDA is supporting its clients (farmers, cooperatives, and government departments) with the existing knowledge on soil conservation, pest management and disease control. However, global climate change, new crops and type of seeds used by farmers are increasingly difficult to address. The losses in the groups are observed in form of low yield, no yield or crops damage.

NPDA has initiated some collaborative approached with Farmers' Cooperatives (Dupcheswor Multipurpose Cooperative, Nuwakot), non-government organizations (LIBIRD and EcoHimal) and government organizations (NARC) to improve extension services and looking for an IPM expert to advise NPDA on developing IPM module.

C. OBJECTIVES OF THE ASSIGNMENT

The objective of the assignment will be to support NPDA to develop IPM module. While doing so the expert will

- I. Train NPDA scientists on Integrated Pest Management (IPM)
- II. Prepare draft module on the basis of training conducted in the Farm.

D. HOST CONTRIBUTION

NPDA will provide space and training aid during the volunteer assignment. It will assign a counterpart (senior scientist) to work together with the volunteer. It will coordinate participants during field visit and training.

E. ANTICIPATED RESULTS FROM THE ASSIGNMENT

- Senior IPM Trainers will be produced as resource persons. They will lead to training of lead farmers and then to farmers.
- A draft training module will be prepared.
- The above two activities will lead to develop crop and disease specific IPM packages.

F. DELIVERABLES

1. Final report due BEFORE departure
2. Group presentation with local stakeholders at the end of the assignment in country
3. Draft Training Manual on IPM

G. SCHEDULE OF VOLUNTEER ACTIVITIES IN NEPAL

Days* (not dates)	Activity
1	Welcome at the airport, accommodation at hotel



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2	Introduction to NPDA – Facilities, going on activities, interaction, and actions
3-4	Training of NPDA scientists on IPM and development of training module
5	Visit to Government relevant organizations - Plant Pathology Division and Entomology Division of Nepal Agricultural Research Council; Central Laboratory of Department of Agriculture; Plant Quarantine and Pesticide management Center of Ministry of Agriculture and Livestock Development
6	Training of NPDA scientists on IPM and development of training module
7-8	Farmers' field visits and interaction with farmers at project site - Dupcheswor Multipurpose Cooperatives, Dhikure, Nuwakot
9-10	Continue....Training of NPDA scientists on IPM and development of training module
11	Final day at NPDA

*Weekend programs will be organized as per the interest of the volunteer.

H. DESIRABLE VOLUNTEERS SKILLS

Good knowledge of IPM and have hands on experiences to training scientists and farmers.

I. ACCOMMODATION AND ANOTHER IN-COUNTRY LOGISTICS

- Before travelling to the assignment place, the volunteer will stay in Kathmandu at one of the CRS’s client hotels, Hotel Kutumba (<http://www.hotels.com/ho1081978144/hotel-kutumba-lalitpur-nepal>) in Kathmandu, the hotel usually has rooms that include services such as airport pickup and drop-off, breakfast, wireless internet, etc. The hotel or CRS will arrange a vehicle for short travel from the hotel to CRS and vice versa while in Kathmandu.
- All required materials will be prepared ahead of time and will be provided to the volunteer. CRS Nepal will provide the volunteer with a laptop computer (if s/he needs), local internet dongle (modem/EVDO) and mobile phone with charged local SIM-card. Any other required logistics and facilities can also be requested by the volunteer during her/his stay in Kathmandu. CRS will provide a vehicle and accompany the volunteer to the place of assignment. CRS will provide transport services to volunteer.
- The volunteer will be staying in Kathmandu. Few days need to be spent in villages and a homestay could be a possible case, if no hotels are available in outskirts of Kathmandu. CRS Nepal will arrange hotel accommodation and cover the lodging bills against receipts. CRS HQ will provide the volunteer with a per-diem advance to cater meals and incidences.
- Security information will be provided by CRS Nepal Security focal person at Kathmandu CRS Country office.

If the volunteer prefers homestay with limited facilities that can also be arranged with one of the NPDA executives, located near the NPDA.



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J. RECOMMENDED ASSIGNMENT PREPARATIONS

- Prior to travel, the volunteer is advised to prepare necessary training and demonstration aids and written handouts. Electronic copies of these handouts and any other printed materials can be printed for immediate use at the CRS office in Kathmandu on request by the volunteer.
- If the volunteer requires use of simple training aids like flip charts, markers or tape s/he should make the request and collect from the CRS office in Kathmandu prior to travel to the assignment place.
- Translation of handouts to the local language can be done at the assignment location if required.
- Depending on the meeting places and availability of electric power and LCD projector, the volunteer may use a laptop and projector for power point presentations.
- Weather Appropriate Clothing: <http://www.mfd.gov.np/city?id=27>
- In June, the summer monsoon arrives, characterized by heavy rains, in the form of downpours and thunderstorms. The monsoon arrives first in the east, in early June, while in the west it comes in the middle of the month or so. The temperature decreases, with the maximum dropping to around 32 °C (90 °F) in July and August, but the humidity increases, making the heat muggy. The rains are intense especially in July and August, when they exceed 300 millimeters (12 inches) per month, but in certain areas at the foot of the mountains, especially in the east of the country, they can exceed 600 mm (23.5 in) per month.
- The monsoon starts to withdraw by early October in the west, and about a week later in the east. The weather returns to be sunny, and even though October is still a hot month, the humidity decreases and the night temperature becomes a bit cooler. In the easternmost part of the flat area the increase in temperature in the period from March to June is limited, in fact, the average maximum temperature does not go above 33/34 °C (91/93 °F) in April and May.

K. KEY CONTACTS

To express interest in this assignment, please email the CRS Baltimore contact listed below. To find out additional information about the host, issue description or field conditions, please email the country contact provided below, copying the CRS Baltimore contact.

CRS Baltimore, US	CRS Nepal Country Program
<p>Priyanka Subba Volunteer Coordinator EA Farmer to Farmer Program 228 W. Lexington Street Baltimore, MD 21201 410-951-7366 Email: priyanka.subba@crs.org</p>	<p>Phaindra Raj Pandey Project Director, CRS F2F Nepal Country Office Maitri Marg - Bakhundole, Lalitpur Metropolitan City Ward No.1, Province 3, Nepal Cell: +977-98141205763, 9808028903 Email: phaindra.pandey@crs.org</p>
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<p>Host Organization:</p>	
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