



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	NE221
Country	Nepal
Country Project	Livestock Country Project
Host Organization	Sworgadwari Silage Company Pvt. Ltd
Assignment Title	Technical training on silage production and feed formulation for Green forage feed producing company technicians
Assignment preferred dates	June-July, 2019
Objectives of the assignment	Capacity building of company technician on silage production for different species of animals
Desired volunteer skill/expertise	Livestock production expert having experiences silage producing company with experience fodder and forage conservation for cows and buffaloes
Type of Volunteer Assistance	Technology Transfer = T
Type of Value Chain Activity	Information and Input Support Services (S) on Silage Making
PERSUAP Classification	PERSUAP Type II

A. BACKGROUND

Nepal is predominantly an agriculture economy where buffaloes, cows and goats are integral part of daily livelihoods. The highlands, mid-hills and plains offers varieties of feed and fodder to the livestock. Almost 11.5 percent of its GDP comes from livestock and livestock related industries. The change in behavior from smallholders in livestock rearing can boost the income of the smallholders.

Nepal Government has also come forward to support farmers initiatives by developing extension services to strengthen these groups and cooperatives. This extension services have its own limitations. The limited number of extension services is not reaching to farmers at right time and right place with right knowledge. The knowledge on extension services is an adoption of age old practices. Animal feed products based on grasses are relatively new knowledge for Nepalese farmers and industries. Year old pasturing practices scaling down with fragmentation of land and overgrazing of land is reducing capacity of free pasture land. With the growing demand for new forms of feed for animals, silage is an emerging opportunity and attracts interests of private sector to invest on silage preparing industry.

Sworgadwari Silage Company is newly established company in 2019 with investment capital of half a million dollar. The aim of the industry is to produce high quality silage to feed cattle year round. The companies have already hired technicians and build its infrastructure to produce silage. The trainers are coming from India. Indian silage making practices are quite cumbersome for the technicians.

This company is expecting to support farmers in Province 5 and 7 in near future. The milk and meat industry is booming in Nepal. Farmers are increasing herding more cattle and goats. Thus, the company aims to bring more than 15000 farmers in their supply chain system.

B. ISSUE DESCRIPTION

The private sector is increasingly soaring on livestock industry on various stage, in production, processing and marketing. Among them Cattle feed especially green grass based feed (i.e Silage) producing industry is increasingly growing attention of investors. The traditional animal husbandry practices, free-grazing which is often compounded by seasonal availability, poor disease and bio security management are every day challenging the prospects of the sector to diversify rural livelihoods. The access to Fodder and forage seed and its quality, land fragmentation due to more separation of households, slash and burn practices to grow other crops and limited labor supply remained a big challenge for livestock farmers to increase livestock production and productivity. In this scenario, dependency on concentrated feed is growing whereas quality consistency is always a challenge. The private sector or feed industries are searching for low cost feed producing technologies and skills to increase the quality of feed.

In Dang, during summer/rainy season farmers are cultivating Maize, Sorghum, Stylo and Napier as green forage and fodder for the animals. The volume of production of forage and fodders exceed the consumption from cattle. The surplus production of forage and fodder are considered as a waste. During winter, the density of fodder and forage is scantier as farmers cultivate limited number of crops like berseem and oats which does not suffice the demand of forage and fodder for animals. This situation forced farmers to buy lower quality concentrated or dry feed for their milking cattle's putting animal health at risk, increasing cost of production, disease incidences and lower productivity. For commercial farmers this is another challenge. Sworgadwari silage company is established to tap the industrial opportunity to be lead source for feed supply in the region.

The company has already bought machines, equipment and developed infrastructures to develop grass base feed development. The company is considering different types of grass based feed preparation. However, the handling of the machines and equipment to produce quality feed is a challenge. The company is looking to train its technicians to capacitate them in green fodder based silage and feed production system.

C. OBJECTIVES OF THE ASSIGNMENT

The main objective of this assignment is Capacity building of company technician on silage production for different species of animals. **Trainings will be organized for company staffs on silage production techniques and technologies. Specifically, the volunteer shall;**

- **Introduce and demonstrate handful techniques for commercial silage production**
- **Develop simple silage making composition for different animals**
- **Train the technicians on handling of silage machine**

D. HOST CONTRIBUTION

Sworgadwari silage company, will facilitate the volunteers to ensure successful assignment completion. The host will also arrange training. Host will also provide the volunteer with office space, training hall and daily tea/snacks for participants.

E. ANTICIPATED RESULTS (Outcome/impact) FROM THE ASSIGNMENT

It is anticipated that this volunteer assignment will contribute to newly established silage producing company to produce commercial viable silage product for different livestock species. which will directly contribute to the following;

- Company will adopt the silage making techniques and technologies
- Company will Increased incomes
- Outreach events conducted upon return to the US

F. DELIVERABLES

The anticipated deliverables accomplished by the volunteer also include:

- **One simple silage making composition (Feed chart) will developed.**
- Appropriate and relevant technologies on silage making will be transferred
- Host recommendations action plan developed
- Trip Report should be submitted before exit meeting

G. SCHEDULE OF VOLUNTEER ACTIVITIES IN COUNTRY (DRAFT)

Day	Activity
Days 1	Arrival Nepal, Tribhuvan International Airport. The volunteer will be picked by Greenwich Hotel with a placard bearing “ CRS logo and volunteer name ”.
Day 2	Introduction and meeting with CRS management, and briefing meeting (security, general orientation, logistic, reporting formats, etc) at CRS office. Discuss anticipated outcomes and work plan.
Day 3	Travel to assignment site. Introduction and assignment briefing with host representatives
Days 4 – 11	Complete assignment related activities at the host location
Day 12-13	Activity close out, host action plan preparation for implementing recommendations
Day 14	Travel back to Kathmandu
Day 15-16	Report revision, submission
Day 17	Debriefing including CRS country Office and Local mission
Day 18	Departure to the US

H. DESIRABLE VOLUNTEERS SKILLS

The volunteer will have the following qualifications and competencies:

- **Livestock production expert having experiences silage producing company with experience fodder and forage conservation for cows and buffaloes**
- Communication and training skills for adult audience

I. ACCOMMODATION AND OTHER 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:// https://www.hotels.com/ho1081978144/hotel-kutumba-lalitpur-nepal](http://https://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. Wherever the hosts cannot contribute vehicle, CRS will provide transport services to volunteer.
- During the assignment period, the volunteer will be booked in a hotel at the project site, to be confirmed prior to volunteer arrival. 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.

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: <https://www.accuweather.com/en/np/nepal-weather>

K. KEY CONTACTS

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