



# **Cereal Systems Initiative for South Asia in Nepal (CSISA-NP)**

## **Earthquake Recovery Support Program (EQRSP) Project Completion Report**

Submitted to:  
**USAID-Nepal**

From:  
**International Maize and Wheat Improvement Center (CIMMYT)**  
October 2016  
**Report Period: June 2015 to September 2016**



International Maize and  
Wheat



Government of Nepal

# Project Summary

**Project Name:** Cereal Systems Initiative for South Asia in Nepal, Earthquake Recovery Support Program

**Organization Name:** International Maize and Wheat Improvement Center (CIMMYT)

Project is implemented in coordination with Ministry of Agricultural Development, Nepal

**Funded by:** USAID Nepal

**Grant Amount:** \$1,000,000

**Project Duration** (in months): 13

**Project End Date:** July 2015 to July 2016

**Report Period:** June 2015 to September 2016

**Report Due:** October 31, 2016

Has this project been granted a no-cost extension? Yes, to September 30, 2016.

**Principal Investigator/Project Director:** Dr. Andrew McDonald

Title: Project Leader, CSISA; Principal Scientist, CIMMYT

Office Phone: +977-1-4269564

Mobile Phone: +977-9808757832

Fax: +977-1-4229804

Email: a.mcondald@cgiar.org

Web site: <http://csisa.org>

Mailing address: CIMMYT International, South Asia Regional Office, P.O. Box 5186, Agri. Botany Division, NARC Complex, Khumaltar, Lalitpur, Nepal

**Report Prepared By:** Dr. Dilli KC, with support from Dr. Andrew McDonald and Cynthia Mathys

**Date Submitted:** October 30, 2016

Mobile Phone: +977-9851131004 (Dilli KC)

Email: d.kc@cgiar.org

## Table of Contents

1.	EXECUTIVE SUMMARY .....	7
2.	BACKGROUND .....	9
3.	PROJECT IMPLEMENTATION APPROACH .....	10
3.1	Management Committees .....	10
3.2	Beneficiary Types and Eligibility.....	10
3.3	Work Plan.....	10
3.4	Monitoring .....	11
4.	SUPPORT PROGRAM .....	11
4.1	Seed and Grain Storage Support.....	11
4.2	Agricultural Hand Tools Support.....	12
4.3	Agricultural Machinery Support.....	12
4.4	Facilitation on Establishment of Minitiller Repair Workshops .....	14
4.5	Training Program.....	14
4.6	Publications.....	16
4.7	Support to Development Partners.....	18
5.	MAJOR EVENTS.....	18
5.1	Inception Workshop.....	18
5.2	Program Launching- Nuwakot District .....	19
5.3	Asset Distribution.....	19
5.4	Project Closing Workshop.....	21
6.	NO COST EXTENSION OF THE PROJECT .....	22
7.	PROGRAM OUTPUTS .....	22
7.1	Vulnerable Households Benefitted [EG.3.2-x14: (4.5.2-14)] .....	22
7.2	MSMEs received business development services [EG.3.2-x37: (4.5.2-37)] .....	23
7.3	Individuals receiving short-term training [EG.3.2-1: (4.5.2-7)] .....	23
7.4	Land under improved technologies [EG.3.2-18: (4.5.2-2)] .....	23
7.5	Private enterprises & CBOs applied improved technologies [EG.3.2-20:(4.5.2-42)] .....	23
8.	CHALLENGES FACED .....	23
8.1	Border Disturbances .....	24
8.2	Fuel Shortage .....	24
8.3	Shortages of Minitiller Attachments.....	24
9.	LESSONS LEARNED .....	24
10.	SUCCESS STORIES.....	25
10.1	Farmers in Nepal’s Earthquake Zone Benefiting from Minitillers .....	25
10.2	Involving Rural Youth in Agricultural Mechanization in Nepal .....	26

<b>Annexes</b>	<b>28-51</b>	
Annex 1	Management Committees	28
Annex 2	Work Plan (Updated in June, 2016)	29
Annex 3.1	Summary of Support Items distribution, by district	30
Annex 3.2	Distribution of support items, by ASC/VDC in Makwanpur District	31
Annex 3.3	Distribution of support items, by ASC/VDC in Nuwakot District	32
Annex 3.4	Distribution of support items, by ASC/VDC in Kavre District	33
Annex 3.5	Distribution of support items, by ASC/VDC in Sindhupalchowk District	34
Annex 3.6	Distribution of support items, by ASC/VDC in Dolkha District	35
Annex 3.7	Distribution of support items, by ASC/VDC in Ramechhap District	36
Annex 3.8	Distribution of support items, by ASC/VDC in Khotang District	37
Annex 3.9	Distribution of support items, by ASC/VDC in Solukhumbu District	38
Annex 4	Distribution of minitiller, by district, supplier and model	39
Annex 5	List of distributed minitiller attachment, spare parts and other machineries	40
Annex 6	List of distributed minitiller spare parts provided to trained mechanics	41
Annex 7.1	List of trained mechanics in basic and refresher training course	42
Annex 7.2	List of new mechanics participated only in refresher training	43
Annex 8	List of trained minitiller recipients	44-49
Annex 9	FtFMS Indicators, Targets and Actual- 2016	50-51

# Acronyms and Abbreviations

<b>Acronym</b>	<b>Full Name of Acronym</b>
ASC	Agriculture Service Center
CGIAR, CG	Consultative Group on International Agricultural Research
CIMMYT	International Maize and Wheat Improvement Center
CLMC	Central-level Management Committee
CSISA	Cereal Systems Initiative for South Asia
CSISA-NP	Cereal Systems Initiative for South Asia in Nepal
DADO	District Agriculture Development Office
DDRC	District Disaster Relief Committee
DLSO	District Livestock Services Office
DoA	Department of Agriculture
DoLS	Department of Livestock Services
EQRSP	Earthquake Recovery Support Program
LLMC	Local-level Management Committee
LSP	Local Service Provider
MoAD	Ministry of Agricultural Development
MCP	Municipality
MT	Metric ton
NAMEA	Nepal Agricultural Machinery Entrepreneurs' Association
NARC	Nepal Agricultural Research Council
NGO	Non-governmental organization
SMS	Subject Matter Specialist
ToT	Training of Trainers
USAID	United States Agency for International Development
VDC	Village Development Committee



Map of Nepal showing EQRSP Districts

Number of VDC/MCP covered under EQRSP

SN	District	VDC/MCP (No)
1	Makwanpur	19
2	Nuwakot	21
3	Kavre	38
4	Sindhupalchowk	30
5	Dolkha	30
6	Ramechhap	15
7	Khotang	25
8	Solukhumbu	32
	Total	210

## 1. EXECUTIVE SUMMARY

On April 25, 2015, a magnitude 7.6 earthquake struck Nepal, followed by another quake nearly as large on May 15, causing widespread damage to homes, businesses and farms. Households lost grain and seed stockpiles, standing crops, storage infrastructure, tools and machinery and livestock, and their communities lost markets and agricultural service centers. Fourteen districts were either ‘severely hit’ or ‘crisis hit’, leaving potentially millions of people in a heavily agriculture-dependent region without food or a source of livelihood.

With a \$1 million grant from USAID, the Cereal Systems Initiative for South Asia (CSISA), led by the International Maize and Wheat Improvement Center (CIMMYT), launched a program to help agriculture-dependent households in 8 affected districts restore their agricultural productivity after the earthquake. Implemented in conjunction with the Ministry of Agricultural Development, Department of Agriculture, Nepal Agricultural Research Council and other government agencies<sup>1</sup>, the program (1) addressed farmers’ immediate seed and grain storage needs, particularly important since the earthquakes occurred shortly before the pre-monsoon rains began; (2) provided mechanized, scale-appropriate options for land cultivation, seed sowing and harvesting, which are especially critical for Nepal’s hilly regions where the out-migration of males has been strongest; (3) distributed tools for tending home gardens, which often help to diversify household diets; and (4) disseminated easy-to-follow agronomy information and intensification tips for maize and rice, which were coming up next in the region’s cropping cycle.

Over the course of 16 months, the earthquake recovery support program was able to reach 44,706 vulnerable households with agricultural assets. For example, to ensure that farmers could store their food grain, seeds, and any incoming harvests, the program distributed 58,000 PICS hermetic storage bags, which protect their contents from adverse weather and pests when used and stored properly. To support larger-scale community seed storage banks, the project distributed 30 GrainPro storage cocoons, which could store 5-10 metric tons of seed, depending on cocoon size. These distributions were followed by 500 mini-tillers and mini-tiller attachments, which allowed farmers, including women, to cultivate, sow, weed, and harvest more quickly and efficiently than if those operations were undertaken by hand. Mini-tillers were made available on 90-95% subsidy, depending on whether the machine was purchased by an individual or a group. Attachments were distributed (up to a value of \$200 per mini-tiller recipient) according to each person’s needs and preferences. It is important to note that the mini-tiller can form the basis of a small business, if the owner (be it an individual or a group) uses the tiller and the attachments to provide custom-hire services for his or her neighbors. Thereby, an innovative livelihood emerges where it hadn’t existed before.

Since many households lost their basic farming implements when the earthquake destroyed their homes, the project distributed 800 sets of hand tools, each of which included five different tools. Many of the tools were manufactured by blacksmiths in the earthquake-affected districts. As a final tangible support to affected households, the program coordinated with District Agriculture Development Offices to disseminate agronomy tips for maize and rice – 10,800 of each – as those crops were staples for most of the affected households, and were ‘coming up fast’ in the cropping calendar.

To ensure the sustainability of the minitiller intervention, the program provided training on minitiller operation and basic agronomy to all minitiller recipients. Then, the program provided hands-on training to 81 local mechanics (followed by an additional round of refresher training) across the 8

---

<sup>1</sup> Public-sector partners included the Ministry of Agricultural Development, Department of Agriculture, Nepal Agricultural Research Council, District Disaster Relief Committee, District Agriculture Development Offices, and agriculture and livestock service centers. Private sector mini-tiller suppliers also played an indispensable role.

districts on minitiller maintenance and repair. These mechanics were also provided spare parts for the particular types of minitillers that had been distributed in their area.

The progress made in these earthquake-affected districts will be leveraged by an additional USAID-funded investment, the Cereal Systems Initiative for South Asia Phase III, which has expanded operations into Nuwakot and Makwanpur to leverage the cadre of minitiller operators and mechanics supported by the earthquake recovery support program, as these recipients are now providing mechanization services in their area. CSISA's efforts will be bolstered by CIMMYT's strong relationships with the central and local government agencies who participated in the earthquake recovery program, as well as the private machinery dealers and distributors who ensured that scale-appropriate mechanization options were available to rural farmers, including women, in Nepal's hill areas, even in the wake of a disaster.



## 2. BACKGROUND

The earthquake that struck Nepal on 25 April 2015 at a 7.6 magnitude, followed by several aftershocks, had huge negative impacts on the country's agriculture and food security. It destroyed stockpiles of grains, seeds and storage facilities, killed and injured livestock (particularly draft animals), destroyed tools and implements, disrupted and/or collapsed agricultural markets and service centres and significantly reduced the productive human labour force. Fourteen<sup>2</sup> of the country's 75 districts have been declared 'crisis-hit' for recovery operations; another 17 were partially affected.

It has been estimated that about 8 million people have been affected by the earthquakes, with smallholders in hilly regions being most hard-hit. There were over 8,790 casualties, 22,300 injuries and more than 5 million houses were damaged. It has been estimated that the total value of disaster effects (damages and losses) was NPR 706 billion (US\$ 7.0 billion). Of that amount, NPR 517 billion (or 76%) represents the value of destroyed physical assets, and NPR 189 billion (24%) reflects the losses and higher costs of production of goods and services arising from the disaster. For agriculture, estimates suggest losses exceeding NPR 28,000 million from both pathways (PDNA, 2015).

With funding from USAID-Nepal and support from the Ministry of Agricultural Development (MoAD), CIMMYT has successfully implemented the Earthquake Recovery Support Program (EQRSP), which provided support to earthquake-affected communities in eight districts, namely Dolakha, Kavre, Khotang, Makwanpur, Nuwakot, Ramechhap, Sindhupalchowk, and Solukhumbu.

The main purpose of this program was to provide basic support to agriculture-based earthquake-affected people to aid in their recovery efforts, especially targeting agriculture, with technologies that can reduce drudgery and improve food security. Major support items included grain and seed storage support, scale-appropriate farm power (minitillers and attachments), small agricultural hand-tools, training, and better-bet agronomy guides. The program targeted reaching 33,150 earthquake-affected households with assets and services.

The EQRSP was implemented in close coordination with the Ministry of Agricultural Development (MoAD), Department of Agriculture (DoA), Department of Livestock Services (DoLS), Nepal Agricultural Research Council (NARC), District Disaster Relief Committee (DDRC), District Agriculture Development Offices (DADOs) and District Livestock Services Offices (DLSOs), and agriculture and livestock service centres.

---

<sup>2</sup> Severely hit (7): Gorkha, Dhading, Rasuwa, Nuwakot, Sindhupalchowk, Dolakha, and Ramechhap; Crisis hit (7): Okhaldhunga, Sindhuli, Makwanpur, Kavre, Kathmandu, Lalitpur, and Bhaktapur

### **3. PROJECT IMPLEMENTATION APPROACH**

For the effective and efficient implementation of the EQRSP, several approaches were adopted. Some of them are presented in the following section.

#### **3.1 Management Committees**

CSISA developed a teamwork approach to implement the project activities such in order to ensure multiagency coordination and ownership. Following this, USAID, MoAD, and CIMMYT jointly selected eight districts to implement the program. For effective and efficient implementation of the project activities, three management committees were formed (**Annex 1**), namely (i) Central Level Management Committee (CLMC), in charge of coordination and facilitation, selection of districts, allocation of support items, and monitoring; (ii) District Level Management Committee (DLMC) in coordination with District Disaster Relief Committee (DDRC), which in turn through their the Village Development Committees (VDCs) are in charge of VDC selection, quota decision for selected VDCs (suggested by the VDCs), deployment of goods down to the local level, voucher issuances for minitiller suppliers, record keeping and reporting; and (iii) Local Level Management Committee (LLMC), which worked in coordination with the DLMC to provide information about the program at the local level, selection of the most-affected people within the VDC and aid in the distribution of support items and recordkeeping.

In total, four meetings of the Central Level Management Committee (CLMC), chaired by the Joint Secretary, MoAD were held. Similarly, at the district level, 3-4 meetings of the DLMC, and 2-3 meetings of the LLMC were held in each district. Besides these, two technical committee meetings and four meetings with the suppliers were also held.

#### **3.2 Beneficiary Types and Eligibility**

The CLMC had decided three types of beneficiaries for this support program: individual members, members of farmer groups, and cooperatives. To be an eligible beneficiary, the CLMC decided that an individual member must hold a valid ID card as an earthquake-affected person. In the case of groups/cooperatives, 40% of their members should be earthquake-affected and the group/cooperative must be registered on or before 13th April 2015 (2072 Chaitra End).

The program fully ensured the gender equity and social inclusion aspects in selecting the beneficiaries from among the EQ-affected communities by involving men, women, ethnic groups, castes, and tribal groups.

#### **3.3 Work Plan**

A comprehensive work plan with major responsibilities, by involved organizations and persons was prepared to make sure that all planned activities be accomplished on time in an effective and efficient manner. The work plan was updated periodically with the advancement of progress and work to be accomplished. The final updated work plan is presented in **Annex 2**.

### 3.4 Monitoring

As a rule, the efficient distribution of assets does not necessarily mean that support items have reached genuinely to EQ-affected people. The EQRSP, in coordination with CLMC had organized various groups of M&E teams to program districts to monitor the transparency of beneficiary selection, receipt of support items by the recipients and use of support items and record keeping. Such activities were also monitored during the asset handover events and organization of the training programs for local mechanics and minitiller recipients in the project districts.

## 4. SUPPORT PROGRAM

The EQRSP was designed to provide assets to the EQ-affected communities and training on farm machineries and better-bet agronomic practices on crop cultivation, primarily maize and rice. Major support programs and implementation status of the EQRSP are described below. Summary of support items distribution, by district is presented in **Annex 3.1 and, by ASC/VDC in 3.2 to 3.9.**

### 4.1 Seed and Grain Storage Support

From the devastating earthquakes, not only did farmers lose stored grain and seed, but storage infrastructure as well. To store seed and grain, hermetic seed and grain storage PICS bags and large storage cocoons were provided to the EQ-affected people/communities. Summary of these support items is presented in the following section.

#### 4.1.1 Hermetic seed and grain storage bags

In the first lot, a total of 50,000 pieces of hermetic seed and grain storage bags were distributed at the household and community levels. Storage capacity of each bag ranged from 50-60 kg, depending upon the size of grain. Due to excess demand, an additional 8,000 bags were distributed to the affected communities. Summary of hermetic bags distribution, by district is presented in **Annex 3.1 and, by ASC/VDC in 3.2 to 3.9.**



#### 4.1.2 Grain and seed storage cocoons

Providing immediate physical facilities for seed and grain storage facilities for every individual household in the earthquake-affected area was very difficult and extremely costly. Therefore, EQRSP provided a limited number of storage cocoons to evaluate whether these larger community-level storage technologies might be appropriate for seed and grain at the community level.



A total of 30 cocoons (25 cocoons with 5 MT capacity, and 5 cocoons with 10 MT capacity) were established at the community level in the EQ-affected areas. Cocoons were installed at locations identified by the DADOs where a large number of individuals, farmers' groups or cooperatives could store their products jointly. Higher priority was given for seed producer groups and cooperatives. Distribution of cocoons, by district is presented in **Annex 3.1 and by ASC/VDC in 3.2 to 3.9.**

#### **4.2 Agricultural Hand Tools Support**

Kitchen gardens are a mainstay of nutritional security in Nepalese communities, especially in the hills. Many kitchen gardens were lost in the earthquake along with the small hand tools essential for day-to-day establishment and management. To address this, a total of 800 sets of small agricultural hand tools (one set comprising five items, namely spades (*Kodalo* and *Kute-kodalo*), sickles (big and medium), and hoe (*kuto*)), were distributed to identified households, groups and cooperatives. Aiming to provide employment opportunities and income at the local level these tools were manufactured in earthquake-affected districts. Summary of cocoon distribution, by district is presented in **Annex 3.1 and by ASC/VDC in 3.2 to 3.9.**



#### **4.3 Agricultural Machinery Support**

Labour was scarce in the earthquake-affected areas even before this calamity due to intensive outmigration, a scenario that reached crisis proportions as communities prioritized basic needs such as shelter construction with the remaining labour available at the time. Further, many draft animals were lost to injury or death during the earthquake. Even if seed were available, the capacity for farmers to sow and harvest crops was severely affected. To cope with these difficulties the EQRSP provided scale appropriate minitillers, attachments and spare parts to the identified EQ-affected people. Summary of these items is presented in the following section.

##### **4.3.1 Minitiller**

By focusing on scale-appropriate machinery, the EQRSP focused on getting small horsepower minitillers into EQ-affected communities, and subsequently broadening the utility of these machines beyond tillage to power a host of essential agricultural activities including seeding, reaping, shelling, and threshing implements, as well as small pumps for irrigation. In the first lot a total of 400 minitillers were distributed to the identified individuals, farmers' groups and cooperatives. Due to huge demand for minitillers, the project supplied an additional 100 minitillers (totaling to 500 units) to the identified EQ-affected people. Distribution of minitiller by beneficiary type comprises 215 farmer groups, 141 cooperatives, and 144 individuals.

To instil in the recipient a sense of machinery ownership, minitillers were provided at a highly subsidized rate, but not for free. At individual level farmer received a 90% subsidy or NPR 60,000 (~US\$ 600) per minitiller, whichever is less, and farmers' groups or cooperatives received a 95% subsidy or NPR 65,000 (~US\$ 650) per minitiller, whichever is less, on the purchase cost. The technical committee of the EQRSP decided on the maximum unit sale price of the minitillers would be NPR 100,000 (~US\$ 1,000) and the maximum size would be a 9 Hp engine. The identified individual farmers, farmer groups or cooperatives were given the freedom to choose their desired minitiller model. Capacity of the distributed minitillers ranged from 4 to 9 Hp and cost NPR 42,000 to NPR 85,000 (~US\$ 420 to ~US\$ 850). Contribution from minitiller recipients ranged from NPR 2,100 to NPR 20,000 (~US\$ 21 to ~US\$ 200).



Considering the remoteness of the distribution area and diminished financial capacity of EQ-affected people, the project paid the minitiller transportation costs from the supplier's sale point to the district's Agriculture Service Center (ASC) or recipients' meeting point. Four minitiller suppliers were contracted to supply the selected minitiller models. An agreement was signed with the suppliers to deliver the minitiller up to farmer's point (ASC or VDC center appropriately), assemble, demonstrate and provide basic operations training to the buyer. Summary of minitiller distribution, by district, supplier and model is presented in **Annex 4**.

#### **4.3.2 Minitiller attachments and other machines**

Several types of equipment can be attached to a minitiller and can help increase work efficiency. Common attachments include reapers, shellers, water pumps, seed and fertilizer drills, ridge-makers, potato-harvesters, rice planters, threshers, and trailers. To increase public understanding of how these attachments can be used and to ease the selection process by the recipients, minitiller suppliers demonstrated the attachments during the training



programs for mechanics and minitiller recipients at the district level. At the same time, the project distributed a pictorial manual on minitiller attachments, providing information on specifications, uses, costs and available stock. As planned, the project provided attachments worth NPR 30,000 (~US\$ 300) per minitiller to the first lot of 400 minitiller recipients and a second lot worth NPR 7,500 (~US\$ 75) per minitiller to another 100 recipients. Twenty-eight types of attachments, spare parts



and other farm machines were distributed. Each recipient was given the opportunity to choose the attachment as per their need.

As per the demand of DADO Sindhupalchowk, the project provided additional attachments/machines namely, paddle thresher- 29, corn sheller- 19 and seeder- 18 worth of NPR 1,151,500 (~US\$ 11,515). A list of distributed minitiller attachments, spare parts and other machines is presented in **Annex 5**.

#### **4.3.3 Minitiller spare parts**

The EQRSP distributed 64 sets of minitiller spare parts (each set worth NPR 20,000 or ~USD 200) to the trained mechanics. These spare parts were distributed to support the trained mechanics to start their minitiller repair and maintenance business at the local level. Transparency has been ensured by providing price lists of each spare part to mechanics, minitiller recipients, Agriculture Service Center (ASC) and DADOs so that mechanics will not charge more than stated in the list. List of minitiller spare parts provided to trained mechanic is presented in **Annex 6**.

#### **4.4 Facilitation on Establishment of Minitiller Repair Workshops**

Farm machines, including minitillers and attachments that had begun to significantly spread to hill farmers in the last five years, initially through the private sector and then through projects and programs, are one of the most important components of this support program. The sustainability of farm machines is subject to the availability of service and repair facilities at the local level – more specifically, the availability of spare parts and repair and maintenance services for minitillers and accessories at affordable prices. For this, CIMMYT, in consultation with DADOs and Nepal Agri-Machinery Entrepreneurs Association (NAMEA), identified existing private repair shops (e.g., tractor and motorcycle mechanics) at appropriate locations in the project districts and provided training to these mechanics, who are providing repair and spares to local area minitiller owners. The project provided a stock of important spare parts to each of these mechanics after the training. The project trained 81 local mechanics and provided spare parts to start or expand the repair centers. It is believed that this initiative will not only serve the beneficiaries of this program but also provide repair facilities to other area minitiller owners and operators and ultimately widen avenues for MoAD's agriculture mechanization program.

#### **4.5 Training Program**

The EQRSP provided basic minitiller repair and maintenance training to local mechanics in the project districts and refresher training at the Directorate of Agriculture Engineering, DoA, Lalitpur. Similarly, minitiller recipients were also provided basic training on the operation and maintenance of minitillers and agriculture production technologies at the district level. A brief summary of each training is presented in the following sections.

#### 4.5.1 Basic training to local mechanics

The project aimed to train 64 local mechanics (8 in each district) on minitiller repair and maintenance. Mechanics were selected from among those working in local machinery workshops and who were highly motivated and interested to establish or scale up minitiller repair workshops in the area. These mechanics were identified jointly by the minitiller suppliers and respective DADOs. Establishment of minitiller repair facilities at the local level will could only increase the use efficiency of minitiller but also increase the demand for minitillers.



A total of 81 mechanics were trained in eight project districts. Major topics covered during the training were the importance of farm mechanization, engine types (2- and 4-stroke engines), fuel and cooling systems, lubrication, hydraulic systems, assembling and disassembling of petrol and diesel engines, and attachments. Resource persons for this training were obtained from NARC, DoA and minitiller suppliers. Indeed, this training became the first point of contact between and among the minitiller recipients, local mechanics and minitiller suppliers. After the training each mechanic was provided a set of minitiller spare parts worth NPR 20,000 (~USD 200). Summary of trained mechanics, by district is presented in **Table 1** and detail in **Annex 7.1 and 7.2**.



**Table 1:** Summary of trained mechanics, by district.

SN	District	Targeted Participant (No)	Actual Participant (No)	Training date	Venue
1	Makwanpur	8	8	5-7 April, 2016	Daman, Makwanpur
2	Nuwakot	8	8	18-20 March, 2016	Battar, Nuwakot
3	Kavre	8	8	13-15 March, 2016	Dhulikhel, Kavre
4	Sindhupalchowk	8	8	21-27 April, 2016	Chautara, S'palchowk
5	Dolkha	8	8	21-23 April, 2016	Charikot, Dolkha
6	Khotang	8	8	14-16 Feb, 2016	Diktel, Khotang
7	Ramechhap	8	7	19-21 April, 2016	Manthali, Ramechhap
8	Solukhumbu	8	8	19-21 Feb, 2016	Salleri, Splukhumbu
9	Additional mechanics		18	Three lots	DoEA, DoA
	Total	64	81		

#### 4.5.2 Refresher training to local mechanics

The project organized three lots of refresher trainings at the Directorate of Agricultural Engineering, Department of Agriculture, Lalitpur. As per the request of the DADOs, 18 new mechanics were also included in the refresher training. A total of 81 mechanics were trained

in the refresher training course organized during August, 2016. The duration of each training was three days.

#### 4.5.3 Training on minitiller operation and better-bet agronomy for minitiller recipients

The program aimed to train all minitiller recipients on basic operation, maintenance, safety and security of minitiller use and better-bet agronomy for maize and rice cultivation. In total, eight training events at the district level (two days each) were organized and 368 recipients were trained. Training was facilitated by subject matter specialists (SMSs) from NARC, DADO and CIMMYT. During the training, aside from minitiller operation and maintenance, agricultural practices and the use of minitiller attachments were also discussed and demonstrated. Summary of trained minitiller recipients, by district, training date and venue is presented in **Table 2** and detail in **Annex 8**.



**Table 2:** Summary of trained minitiller recipients, by district.

SN	District	Targeted Participant (No)	Actual Participant (No)	Training date	Venue
1	Makwanpur	75	71	7-8 April, 2016	Daman, Makwanpur
2	Nuwakot	75	65	20-21 March, 2016	Battar, Nuwakot
3	Kavre	35	27	15-16 March, 2016	Dhulikhel, Kavre
4	Sindhupalchowk	75	73	27-28 April, 2016	Chautara, S'palchowk
5	Dolkha	40	38	23-24 April, 2016	Charikot, Dolkha
6	Khotang	35	31	16-17 Feb, 2016	Diktel, Khotang
7	Ramechhap	35	33	21-22 April, 2016	Manthali, Ramechhap
8	Solukhumbu	30	30	21-22 Feb, 2016	Salleri, Splukhumbu
	Total	400	368		

#### 4.6 Publications

Publications are an important source of mass media communication. To benefit more beneficiaries, the project published five types of technical guides/booklets. Major contents of each publication is outlined below. These publications were distributed to the beneficiaries during the training and demonstration program and to partners and stakeholders during meeting and workshops.

##### 4.6.1 Better-bet agronomy guide on maize and rice

CSISA, in coordination with NARC, produced simple technical and pictorial guides on better-bet agronomic practices for maize and rice cultivation. These guides are written in Nepali. A total of 10,800 copies of each guide (rice and maize) was published and distributed to the minitiller recipients during the training and to the EQ-





affected communities during handover of other support items. These guides contain information on the selection of appropriate varieties, land preparation, fertilizer and weed management, irrigation, insect-pests and diseases control and crop harvesting and storage management.

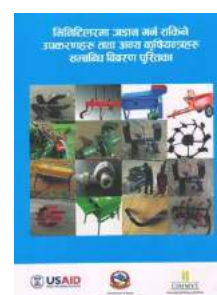
#### 4.6.2 Minitiller operation and maintenance guide for farmers

This guide provides basic information on minitiller use, trouble shooting, safety and security and maintenance of minitillers. The guide also contains technical information about various models of minitillers available in the market and contact details of minitiller suppliers. In the Annex, a few pages are available so farmers can maintain a log book of their minitiller use. Eight hundred copies of this guide was published in Nepali and distributed to all minitiller recipients, mechanics, government organizations, I/NGOs and development partners.



#### 4.6.3 Manual on minitiller attachments and farm machines

Six hundred copies of the pictorial manual on major minitiller-attachments was published in Nepali and distributed to the mechanics and minitiller recipients during the training events. This manual provides information on availability, uses and the cost of minitiller attachments. With the help of this minitiller manual, recipients were able to select the attachments as per their need. The selected attachments were supplied by the project worth of NPR 30,000 (~US\$ 300) to first lot of 400 minitiller-recipients, and worth of NPR 7,500 (~US\$ 75) to second lot of 100 minitiller-recipients.



#### 4.6.4 Minitiller operation, repair and maintenance guide for mechanics

The project, in coordination with NARC scientists, DoA Engineers and minitiller suppliers developed and published 500 copies of pictorial guide on minitiller operation, repair and maintenance for mechanics. Main contents of this guide include engine types, support, cooling and lubrication system, safety and security, problem solving procedures of minitiller etc. This guide was distributed to the mechanics during the refresher training course.



#### 4.6.5 Roster of minitiller recipients, trained mechanics, and minitiller suppliers

The roster provides contact information of all 500 minitiller recipients, 81 trained mechanics and major minitiller and agri-machinery suppliers of Nepal. Eight hundred copies of this roster were published and distributed to related stakeholders, partners including government organizations, all DADOs of project districts, minitiller recipients, trained mechanics, and agro-machinery suppliers. It is believed that this roster will help minitiller recipients to contact local mechanics for repair and maintenance of



minitillers, as required, and also help them to contact the supplier to fix major problems and supply attachments and accessories. This roster was published in Nepali and English.

#### **4.7 Support to Development Partners**

Having had valuable experience in the minitiller sector and in the EQ districts, the project provided technical and management support to some development partners. Some of them are discussed below.

##### **4.7.1 Support to FAO, Nepal**

The project provided technical and managerial support to FAO Nepal Office in implementing their minitiller distribution program in EQ-affected districts. Major areas of support include the selection of appropriate models of minitillers, suitable attachments, cost estimates, contact information for major minitiller suppliers, and the identification and selection of real EQ-affected beneficiaries. The project also provided printed materials on minitiller operation and pictorial attachments' list to the organization.

##### **4.7.2 Sustainable Action for Resilience and Food Security (SABAL)**

Many women farmers now are lucky enough to own minitillers but with limited or no experience in operation, many minitillers are remain idle, yielding little or no benefit. To support these women, SABAL (USAID-Nepal funded livelihoods project), in coordination with the DADO, Nuwakot requested CSISA to provide resource persons and technicians for a training for women farmers on the operation and maintenance of minitillers. CSISA provided resource persons and technicians to organize two lots of training, each three days long, in Nuwakot. As reported, 47 women were trained and after the training all participants were very happy and said "we are able to break the age-old traditional belief, women as ploughmen now".



## **5. MAJOR EVENTS**

During the project implementation period several important events were held at various locations. Highlights from these events are presented in the following section.

### **5.1 Inception Workshop**

An inception workshop of the EQRSP was organized on 28 August 2015 at NARC Complex Khumaltar, Lalitpur. The main objective of the workshop was to establish a common understanding among stakeholders on the implementation modalities including the selection of earthquake-affected VDCs, identification of beneficiaries, distribution of support items, logistical management and to finalize the work plan. The workshop was attended by representatives from MoAD, DoA, USAID and district-level focal persons.

At the inception workshop Dr. Beth Dunford, Mission Director, USAID Nepal, remarked that USAID-Nepal has arranged a special fund to help earthquake-affected people. Beyond the

devastation of homes, houses and fields, and public infrastructure like roads, the earthquake seriously disrupted agriculture and the rural economy throughout the impacted districts. Re-establishing vital agricultural markets and services in the aftermath of the earthquake is key to how quickly these communities will recover. They have also lost their ability to pay for these inputs and so scale-appropriate machinery are needed to jumpstart a service economy and keep agriculture viable, said Dunford.



“Even if seed is available, the capacity for farmers to plant and harvest crops has been severely diminished due to the loss of draft animals and the exacerbation of labour shortages,” said Andrew McDonald, CIMMYT Principal Scientist and CSISA-EQRSP Project Leader. “We will reach more than 33,000 farming households through seed and grain storage facilities, minitillers and other farm machines, agricultural hand tools, technical training and agronomy support,” added McDonald.

Dr. Rajendra Adhikari, Joint Secretary, MoAD, concluded that the MoAD feels a real sense of ownership over this program and is committed to implementing the activities through its network. He said the farm machinery support program will be a perfect platform for MoAD to expand its farm mechanization program into other areas of the country. The Earthquake Recovery Support Program also aligns with the Agriculture Development Strategies of the Government of Nepal, which focuses on community-wide inclusive development.

## 5.2 Program Launching- Nuwakot District

Launching of EQRSP by handing over of support items was jointly initiated by the H. E. the Honorable Ambassador of the United States to Nepal, Ms. Alaina B. Teplitz and Honorable Secretary of Ministry of Agricultural Development, Mr. Uttam Kumar Bhattarai on November 24, 2015 in Dhikure, Khanigaun of Nuwakot district. During the event four minitillers (9 Hp), 500 grain and seed storage hermetic bags, 6 storage cocoons, 10 sets of hand tools and 200 copies of better-bet agronomy guide on maize and rice cultivation were distributed to 14 cooperatives and farmers' groups.



## 5.3 Asset Distribution

Several asset distribution events were organized in each project district. Major events are discussed in the following section.

### 5.3.1 Solukhumbu District

Handing over of support items in Solukhumbu was initiated by the Joint Secretary Mr. Yogendra Kumar Karki on January 6, 2016. Mr. Karki handed-over four minitillers (6 Hp) to local-level cooperatives and farmers groups in Nele VDC of Solukhumbu. During the asset distribution program Mr. Hasta Bista, Senior DADO and Mr. Laxe Chaudhary, Focal Person of

EQRSP of DADO Solukhumbu and local leaders were also present. The recipients highly appreciated the support and assured for full utilization of the minitiller.

### **5.3.2 Sindhupalchowk District**

Handing over of support items in Sindhupalchowk was jointly initiated by the US Congressional Staff/ Senate Foreign Relations Committee Members Carolyn Leddy and Andy Olson and Mr. Hikmat Shrestha, Senior DADO, Solukhumbu on January 9, 2016 in Thumpakhar. During the event 12 minitillers (6 Hp) and 2,000 grain and seed storage hermetic bags were distributed to cooperatives and farmers groups. Mr. Belay Mengistu from USAID-Nepal and Dr. Andrew McDonald, Mr. Scott Justice and Ms. Cynthia Mathys from CIMMYT/CSISA were also present during the event.



### **5.3.3 Khotang District**

Support item hand-over in Khotang was initiated by the Secretary, MoAD Mr. Uttam Kumar Bhattarai on January 19, 2016 at Haleshi. Mr. Bhattarai handed over eight minitillers (6 Hp) to the farmers, farmers' group and cooperatives. During the asset distribution program Mr. Belay Mengistu form USAID and Dr. Andrew McDonald from CSISA-CIMMYT were also present. Similarly, Mr. Bhattarai also handed 27 minitillers (5 Hp) in Diktel on January 20, 2016 to various farmers, farmers' groups and cooperatives. During the asset distribution program Chairperson of the DDRC and EQRSP-DLMC and Senior DADO Mr. Shyam Prasad Ghimire, Mr. Bharat Yadav Focal Person, EQRSP and district level officers were also present.



### **5.3.4 Makwanpur District**

On Feb 18, 2016, Member of Parliament Mr. Subas Thakuri handed over 48 minitillers in Palung, Taha Municipality to the identified EQ-affected people. Mr. Prem Bahadur Pulami, Ex. Parliament Member and Mr. Nirmal Gadal, Senior DADO and Mr. Chandra K. Chaudhary, Focal Person were also present in the event.

### **5.3.5 Kavre District**

Mr. Dipak Paudel SADO and Mr. Tharka GC (Focal Person) of DADO Kavre handed over the minitillers and other assets to EQ-affected communities in various dates and locations. All together 35 minitillers, 9,000 hermetic bags, 5 cocoons, 150 sets of agriculture hand tools and 1,800 sets of better-bet agronomy guides on maize and rice were distributed in Kavre district.



### **5.3.6 Dolakha District**

As in other districts, the SADO, and Focal Person Mr. Ram Dular Shah jointly distributed minitillers and other support items to EQ-affected communities in various locations of Dolakha district on various dates.

On May 23, 2016 the U.S. Foreign Assistance Director Mr. Hari Sastry handed over spare parts kits to the eight trained mechanics in Dolakha district. During the program Mr. Brendan Dallas, Foreign Assistance Bureau's Director for South and Central Asia, Mr. Peter Malnak, Mission Director, USAID/Nepal and senior officials including Mr. Belay Mengistu from USAID/Nepal were also present.



### **5.3.7 Ramechhap District**

Mr. Rajendra Malla, SADO and Mr. Santosh Chaudhary, Focal Person of DADO Ramechhap handed over the minitillers and other support items to EQ-affected communities in the district in various locations and dates.

## **5.4 Project Closing Workshop**

Upon the successful completion of the planned activities, the EQRSP organized a project-closing workshop on September 9, 2016. The main objectives of this workshop were to share experiences and lessons learned during the program implementation and honor the stakeholders/implementing partners for their contribution in implementing the project activities.

The workshop was chaired by Mr. Yogendra Kumar Karki, Joint Secretary, MoAD and participated by all eight DADOs of the project districts, private sector partners, DoA, NARC, MoAD, USAID. In the workshop, a brief project overview and accomplished activities were presented by Dr. Andrew McDonald, Program Leader of EQRSP and CIMMYT Nepal Country Representative. Dr. McDonald thanked all stakeholders and partners including DADO, DoA, NARC, MoAD, USAID/Nepal for their support and cooperation provided during the project implementation. This project will come to end on 30 September 2016, so there will be no targets for 2017, however, the third phase of the Cereal Systems Initiative for South Asia, also funded by USAID, has extended programming into Nuwakot and Makwanpur districts in order to build upon the relationships and the asset base that were established during this Earthquake Recovery Support Program, said McDonald.



After the key remarks from Dr. Kamal R. Gaire, Senior Agriculture Development Officer, Nuwakot, representing all DADOs and Ms. Carol Jenkins, USAID/Nepal, SEED Office Director the Chairperson jointly with Dr. McDonald and Ms. Jenkins distributed the letter of

appreciation to all partners who contributed in implementing the EQRSP. Mr. Karki in his closing remarks said that MoAD highly appreciated the financial support of the USAID-Nepal to implement the EQRSP and CIMMYT for efficient implementation of all planned activities in coordination with Government of Nepal/MoAD and related organizations, particularly with DoA, DADOs and NARC.

## 6. NO COST EXTENSION OF THE PROJECT

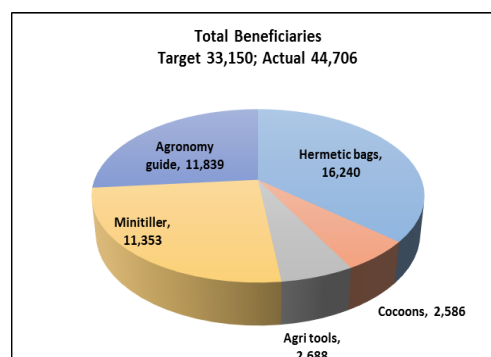
Despite the smooth implementation of the planned activities, a few unexpected socio-political factors delayed some aspects of the program. Previewing that the program would benefit from a short extension, the project requested USAID/Nepal for a three-month no-cost extension (July-September, 2016). The major reasons for this extension were: (i) political disturbances on the southern border of Nepal for over five months caused delays of minitiller and attachments imports, thereby delaying the handover of those equipment to the identified recipients and (ii) follow-up trainings linked to minitiller recipients needed to be completed. The project submitted the proposed activities and budget for the proposed no-cost extension period ensuring that there would be no change in the project's originally approved scope of work. USAID/Nepal granted a no-cost extension for the EQRSP for the period July until September 30, 2016.

## 7. PROGRAM OUTPUTS

It is obvious that inputs are used to implement activities in anticipation of immediate results or outputs. In this context the project and USAID selected five indicators to measure the performance of the EQRSP. The preliminary results of EQRSP indicators has been critically estimated and discussed in the following section. Disaggregation of each indicator is presented in **Annex 9**.

### 7.1 Vulnerable Households Benefitted [EG.3.2-x14: (4.5.2-14)]

This indicator counts the number of vulnerable households that received support items distributed under the EQRSP. The project was able to reach 44,706 beneficiaries against the target of 33,150 (+35%). One of the reasons for the high achievement was the project's ability to use underspending to distribute additional items, including minitillers and attachments, PICS bags, and better-bet agronomy guides. The number of benefitted households, by support item, was: PICS bags 16,240; storage cocoons 2,586; agricultural hand tools 2,688; minitillers and attachments 11,353; and better-bet agronomy guides for maize and rice 11,839. (**Annex 9**).



## **7.2 MSMEs received business development services [EG.3.2-x37: (4.5.2-37)]**

This indicator captures the number of minitillers distributed, as the recipients of minitillers are considered to be the center of a micro-enterprise, as groups or individuals can use them to provide custom-hire services for local farmers. We have exceeded the target by 100 because the project had underspending and was able to distribute 100 additional minitillers during our no-cost extension period. The total therefore reached 500 (+25%). These all are micro level entrepreneurs and agriculture producers. All of these recipients received training from the project on how to use these machines as the basis of a custom-hire micro-enterprise, in addition to operation and maintenance training of minitillers. **(Annex 9).**

## **7.3 Individuals receiving short-term training [EG.3.2-1: (4.5.2-7)]**

This indicator captures the number of individuals trained by the project on minitiller operation, repair and maintenance and better-bet agronomy. The project trained 514 participants against the target of 500 (+3%). Disaggregated by type of trainee, the results were: minitiller recipients (368), government participants such as from DADO and ASC (35), private sector mechanics (81) and staff of local community-based organizations (30). **(Annex 9).**

## **7.4 Land under improved technologies [EG.3.2-18: (4.5.2-2)]**

This indicator counts the number of hectares tilled by 400 minitillers (without counting the possible tilled area by second lot of 100 minitillers, since these minitillers were distributed in the latter part of the project) in eight project districts. Average area tilled by each minitiller ranged from 1 to 2.5 hectares. Average area tilled by the minitillers is estimated to be: Solukhumbu 1 ha/tiller; Khotang and Ramechhap 1.5 ha/tiller; Dolakha 1.75 ha/tiller; Makwanpur and Sindhupalchowk 2 ha/tiller; Nuwakot 2.25 ha/tiller; Kavre 2.5 ha/tiller. The project exceeded target by 9% (target 700 ha and actual 761 ha). **(Annex 9).**

## **7.5 Private enterprises & CBOs applied improved technologies [EG.3.2-20:(4.5.2-42)]**

This indicator captured the number of for-profit private enterprises (in this case repair centers operated by mechanics trained by the project) and community based organizations (in this case cooperatives that purchased minitillers). Those two groups are considered commercial in nature, especially trained mechanics are considered as for profit private enterprises and cooperatives as CBOs who can rent the minitiller. The project exceeded the target for this indicator by 178% (target 80 and actual 222). It is mainly because of the second round of asset distributions/support of minitiller allowed to reach significantly more cooperatives, and to train more mechanics. While setting the target number of mechanics trained were not considered, so this additional 'actual' has caused the total to be substantially more than the target. **(Annex 9).**

## **8. CHALLENGES FACED**

The biggest early challenge was obviously the physical and societal damage caused by the earthquake itself, since the work was being started and implemented at a time when

ground-level situations were deeply unclear, with many organizations rushing into conduct programming in the same districts at the same time. Relationships with and among government agencies and other implementing organizations were in flux, with the landscape for programming changing frequently and a significant lack of clarity in terms of what types of programming would ultimately be authorized. Ultimately, however, patience and a sincere effort to collaborate with the government paved the way for comparatively smooth programming. Major challenges faced are highlighted in the following section.

### **8.1 Border Disturbances**

Disturbances on Nepal's southern border during the middle of project implementation greatly affected the timely import of minitillers and attachments by the private sector partners. Contracted minitiller suppliers had containers at the border incurring late delivery charges. However, suppliers did not charge additional amounts and honored the commitments made in their original quotations.

### **8.2 Fuel Shortage**

Fuel shortages in the beginning of the project implementation significantly affected the delivery time for support items to the project districts and temporarily left us unable to travel to the districts. The crisis also increased transportation and logistics costs to some extent. Private suppliers have faced problems getting vehicles on time to send to the districts and farmers' delivery points.

### **8.3 Shortages of Minitiller Attachments**

Uses of minitiller attachments in Nepal is a very recent practice, although it is increasing steadily. There are very few suppliers of minitillers and attachments in Nepal. Because of limited demand for such attachments in the past, the suppliers felt discouraged to import in bulk. Consequently there is limited stock of attachments in the market. Demand of these items from multiple organizations at a time created scarcity in the market. Realizing this the project split the supply of attachments into two categories, urgently needed attachments for the rice season and those required for winter crop planting. Delivery was planned accordingly.

## **9. LESSONS LEARNED**

The biggest learned lessons were the importance of working with the government in obtaining sanction for programming and carrying out implementation, and the benefits that can come from demonstrating that the project programming is not in competition with any of the government's own efforts to provide relief. Also, the project collaborations with the private sector have not only improved the market for scale-appropriate machinery, but built confidence in the machinery recipients once they knew that trained and stocked mechanics were also in the local area. Many youths attracted to mechanized farming and establishing minitiller repair workshops can help to lower the outmigration and increase employment and income at the local level.



## 10. SUCCESS STORIES

Major success stories recorded towards the end of the project are presented below.

### 10.1 Farmers in Nepal's Earthquake Zone Benefiting from Minitillers

Farm mechanization plays a vital role in increasing agricultural productivity, timely cultivation, quick harvesting and in generating additional employment for those in the agricultural labor force. The minitiller can quickly prepare soil for agricultural production and seed sowing, and with attachments it can harvest crops and pump irrigation water. Unfortunately, minitillers are rarely available to remote rural producers in the hills of Nepal. Also, farmers may lack knowledge about operation and maintenance, and may not be able to afford them.

Due to the huge loss of draft animals during the 2015 earthquakes and the ongoing outmigration of the agricultural labor force, families in earthquake-affected districts face serious problems in cultivating agricultural land, and suffer chronic low productivity and food insecurity. The introduction of scale-appropriate machinery, including minitillers, can help farmers cultivate their land on time and can open up job opportunities for those who would otherwise migrate in search of work. These minitillers can also be operated by women, helping to reduce their drudgery.

Mrs. Mitra Shrestha, 29, from Nuwakot district, is a member of the Kisan Agricultural Cooperative, which procured a subsidized minitiller through CSISA's Earthquake Recovery Support Program. With the minitiller, Shrestha was able to prepare her rice field mechanically, instead of by using bullocks. She prepared a 0.3 ha rice field in a day using the minitiller at a cost of US\$ 36, which would otherwise have required six paired-bullocks-days, costing US\$ 90. She thus saved US\$ 54 and five person-days. Financial savings allow her to support her children's schooling, meet health and clothing requirements, celebrate festivals, and pay small debts.



More importantly, Shrestha could plant rice on time, despite a huge labor scarcity since most of the farmers plant rice at the same time. "Keeping bullocks is costly and tedious because they need feed and fodder throughout the year, even when they are not in use. Whereas, the mini-tiller needs fuel only when it is being used. Besides, in one hour the machine can cultivate an area that would require a pair of bullocks to work an entire day" she adds. Mitra uses the surplus time she can now spare for vegetable farming and other household chores. "In fact, I now also use the mini-tiller for land preparation of potatoes, since it can till deeper and make ridges with attachments."

Another minitiller recipient farmer, Mr. Subarna Bhandari, from Sindhupalchowk district, operated his mini-tiller for a total of 120 hours, earning a gross income of approximately

US\$ 540 within 3 months. The eight machines, total, that were distributed in his area could therefore help the recipients earn an aggregate US\$ 4,320. As a resident from the same village stated, “It was very difficult to rent bullocks on time because everyone in the village had the same requirement at the same time.” Bhandari would otherwise have needed three pairs of bullocks for two rounds of plowing at a cost of roughly US\$ 60. Thanks to the minitiller, the same activity now only costs US\$ 14, net saving of US\$ 46. He adds, “I no longer require extra laborers for pulverization, which was one of the most tedious tasks in field preparation.”

CSISA, in coordination with the Ministry of Agricultural Development, distributed 500 minitillers and attachments (e.g., seeder, reaper, thresher, water-pump) in eight districts. In coordination with Nepal Agricultural Research Council and minitiller suppliers, CSISA provided training on minitiller operation and maintenance to all recipients. CSISA also provided a resource person to USAID’s Sustainable Action for Resilience and Food Security project in Nuwakot and trained 47 women in minitiller operation and maintenance. With this training, women now are able to cultivate their land without the support of their male counterpart, who are often outside their villages and in some cases have out-migrated. Through the Earthquake Recovery Support Program, new minitiller owners and their neighbors have access to efficient and affordable technology for the timely cultivation and harvesting of crops, with private companies having good incentives to supply minitillers in remote areas – a win-win for both minitiller owners and suppliers.

## 10.2 Involving Rural Youth in Agricultural Mechanization in Nepal

The use of scale-appropriate machinery in agriculture can not only lead to efficient farming, but can also significantly reduce drudgery and save farmers time and money. However, to achieve the full suite of benefits, agricultural machinery should be used effectively and efficiently, and maintained to prolong the life of the machines. Frequently, the unavailability of repair workshops for machines at the local level is one of the most challenging factors in the sustained adoption of scale-appropriate machinery, especially in the rural hills of Nepal. Other challenges include low awareness and purchasing capacity among farmers, and a lack of skills in machine operation and maintenance.

Mr. Rabi Paudel, 18, from Nuwakot district is operating a minitiller repair workshop in Galchi. After passing his grade 10 exam in 2014, Rabi travelled to Kathmandu and learned basic mechanic skills from a former Galchi resident. He then proposed to his father to open a machinery sales and repair shop in Galchi. Rabi's father, Mr. Rajaram Poudel, fully supported the proposal and started the "New RB Machinery Repair and Sales Center" in Galchi. “Basic training on repair and maintenance provided by the CSISA is my jumpstart to becoming a minitiller mechanic. Refresher training further sharpened my skills and knowledge in the mechanics field,” said Rabi. “Operating only a



minitiller repair shop will not be a sustainable enterprise, since this repair is mostly seasonal (June- July), so I am providing other services like repair of electric water pumps, power tillers, tractors, threshers, generators, etc.”

In his command area there are 37 minitillers for which he is providing repair services, mostly through farm visits, responding to calls from owners and traveling as far as 52 km to repair a minitiller. On average, Paudel’s costs to repair a minitiller can range from US\$ 50 to US\$ 150 per minitiller, but he can still make a net profit of about 20-30%. Paudel is now also a sales agent for SK Trader, a major supplier of minitillers and attachments in the Earthquake Recovery Support Program, and has sold 24 minitillers, earning US\$ 20 to US\$ 50 per minitiller. Paudel said, “Once the farmers till their land by minitiller no one would like to plow by bullocks; many farmers have already sold bullocks.

Paudel has now passed his grade 12 exam and is planning to expand his business even by recruiting some mechanics. “The support of CSISA really motivated me to expand this business. I firmly believe CSISA’s initiative will help attract rural youth in agriculture mechanization rather than going abroad,” he added.

Another rural youth, Mr. Mina Nath Rimal, 27, from Khadka Bhyanjyang, Nuwakot, was able to harvest 1.85 ha rice within 3 days with his walk-behind reaper that he accessed through CSISA, having been identified by the project as a potential service provider. He could easily harvest 0.05 ha rice field in 30 minutes and earn a gross income US\$ 4. The same crop would have previously been harvested by two people, their labor costing US\$ 8, a net saving of US\$ 4. At this rate, Rimal could earn a gross income US\$ 64 per day. The reaper works for multiple crops, so he could also provide services in the rice and wheat seasons.



"I am always interested to learn new kinds of agricultural machinery that reduce human drudgery, and save time and money. Now I am more than happy getting opportunities to operate this reaper," Rimal said. If he could procure a reaper of his own, perhaps through a subsidy program, Rimal is eager to purchase a machine. He would like to continue to work in his village and he considers providing reaper services a good job opportunity for himself and a worthy service for his neighbors. Rimal added, “No rural youths will go abroad if such opportunities are available at the local level. Thanks to CSISA for identifying me as a reaper service provider and providing operational training.”

CSISA, in coordination with the Department of Agriculture, Nepal Agricultural Research Council and minitiller suppliers, provided minitiller repair and maintenance training to 81 local mechanics and help establish minitiller repair workshops by providing spare parts worth US\$ 12,800 in remote rural areas of eight project districts. This initiative has the potential to significantly contribute to the government's agriculture machinery promotion program.

## Annex 1: Management Committees

### I. Central Level Management Committee (CLMC)

Mr. Yogendra Kumar Karki, Joint Secretary, Planning Division, MoAD	- Chairperson
Dr. Shree Ram Ghimire, Senior Agri. Economist, MoAD	- Coordinator
Mr. Binod Kumar Bhattarai, Senior Agri. Econ, PICC Division, MoAD	- Member
Mr. Madhusudan Basnyat, Act. Program Director, AED, DoA	- Member
Mr. Ganesh Shah, Chief, Agri. Engineering Division, NARC	- Member
Mr. Shiva Sundar Ghimire, Senior Agri. Officer (Focal Person), DoA	- Member
Mr. Upendra Kumar Singh, Livestock Officer (Focal Person), DoLS	- Member
Mr. Scott Justice, Agri. Mechanization Specialist, CSISA, CIMMYT	- Member
Dr. Dilli Bahadur KC, M&E Specialist CSISA, CIMMYT	-Member Secretary

### II. Technical Committee (under CLMC)

Mr. Madhusudan Basnyat, For Program Director, AED, DoA	- Member
Mr. Ganesh Shah, Chief, Agri. Engineering Division, NARC	- Member
Mr. Scott Justice, Agri. Mechanization Specialist, CSISA, CIMMYT	- Member

### Invitee Members

Dr. Andrew McDonald, Project Leader, CSISA, CIMMYT  
 Dr. Belay Mengistu, Agriculture Development Officer, SEED Office, USAID, Nepal  
 Ms. Cynthia Jean Mathys, Project Manager, CSISA, CIMMYT

### III. District Level Management Committee (DLMC)

- DDRC Chairperson - Chairperson
- Local Development Officer, DDC - Member
- Senior Agri Development Officer Secretary -Member
- Chief, District Livestock Development Officer - Member
- Invitee-USAID supported project local representative, NAMEA representative, if available. - 2 members

### IV. Local Level Management Committee (LLMC)

- VDRC Chairperson - Chairperson
- Nominee from DADO - Member Secretary
- DLSO nominee - Member
- ASC and LSC Chief - Members (2)
- Invitee- USAID supported project local representative, Distinguished social personalities 2 (male- 1, and female- 1) - Member (3)

Annex 2: Work Plan (Updated in June, 2016)

SN	Activity	Major Responsibility	2015				2016																																			
			Dec				Jan				Feb				March				April				May				June				July				August				Sept			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1	Finalize list of MT recipients (with model and supplier)	DADO/DoA					■	■	■	■																																
2	Inform MT suppliers on their selected models of MT, by district and ASC	CIMMYT						■	■	■	■																															
3	Issue purchase voucher to identified MT suppliers	DLMC							■	■	■	■	■																													
4	Deliver MT to respective DADO (upon payment of recipient's contribution directly to supplier)	MT Supplier												■	■	■	■	■	■																							
5	Transport MT from DHQs to recipient's site (ASC or VDC), assemble and provide basic operation training	Recipient/ MT Supplier												■	■	■	■	■	■																							
6	Submit application for payment of subsidy amount, transportation, PoL etc. to CIMMYT	MT Supplier																																								
7	Identify repair shops/ mechanics at local level for training & repair facilities (LSP)	MT Supplier																																								
8	Organize training to local mechanics and minitiller recipients (provide spare parts to mechanics)	CIMMYT																																								
9	Collect MT attachments demand and finalize list received from MT recipients	DADO/DoA/TC-CIMMYT																																								
10	Follow-up of repair workshops/mechanics and arrange mobile repair service	MT Supplier																																								
11	Activity monitoring	CIMMYT					■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
12	Supply of MT attachments to respective recipients through DADOs	CIMMYT/ Supplier																																								
13	Publicaton of minitiller repair and maintenance guide to mechanics and roster of minitiller recipients, mechanics and minitiller suppliers	CIMMYT																																								
14	Refresher training to local mechanics	CIMMYT																																								
15	Additional procurement	CIMMYT																																								
16	Project completion workshop	CIMMYT																																								

**Annex 3.1:** Summary of support items distribution, by district

S N	District	Hermetic Storage bag (Pc)	Cocoons 5 MT (No)	Cocoons 10 Mt (No)	Hand Tools (Set) <sup>1</sup>	Rice poster (No)	Maize poster (No)	Minitiller (No)	Attachment 1 <sup>st</sup> lot (Sets) <sup>2</sup>	Attachments 2 <sup>nd</sup> lot (Sets) <sup>3</sup>	Spare parts (set) <sup>4</sup>
1	Makwanpur	10,500	4	1	150	1,900	1,900	95	75	20	8
2	Nuwakot	10,500	5	1	150	1,900	1,900	95	75	20	8
3	Kavre	9,000	4	1	150	1,900	1,900	35	35	-	8
4	Sindhupalchowk	10,000	4	1	150	1,900	1,900	90	75	15	8
5	Dolkha	6,000	2	1	80	800	800	55	40	15	8
6	Khotang	5,000	2	-	80	800	800	45	35	10	8
7	Ramechhap	4,000	2	-	20	800	800	45	35	10	8
8	Solukhumbu	3,000	2	-	20	800	800	40	30	10	8
	<b>Total</b>	<b>58,000</b>	<b>25</b>	<b>5</b>	<b>800</b>	<b>10,800</b>	<b>10,800</b>	<b>500</b>	<b>400</b>	<b>100</b>	<b>64</b>

Note:

- 1 One set hand tool includes 5 items (Sickle 2, Spade 2, Kuto 1)
- 2 Attachment worth NPR 30,000/set
- 3 Attachment worth NPR 7,500/set
- 4 Spare parts worth NPR 20,000/set

**Annex 3.2:** Distribution of support item, by ASC/VDC in Makwanpur District

SN	Name of selected ASC/VDC/MCP	Storage bag (No)	Cocoons 5 MT (No)	Cocoons 10 Mt (No)	Minitiller (No)	Hand Tools (Set)*	Rice poster (Copies)	Maize poster (Copies)
	<b>Total district quota</b>	<b>9,000</b>	<b>4</b>	<b>1</b>	<b>75</b>	<b>150</b>	<b>1,800</b>	<b>1,800</b>
<b>A</b>	<b>ASC-Daman</b>						200	200
1	Thaha Municipality	1,000			20	30		
2	Fakhel	800			4	10		
3	Markhu	500			4	10		
4	Chitlang	500			2	10		
5	Tistung	1,000			4	10		
6	Agra	700			5	10		
<b>B</b>	<b>ASC- Namtar</b>						300	300
7	Namatar	1,000			10	10		
8	Kalikatar	500			4	10		
9	Gogane	500			4	10		
10	Bhaise	800	1		6	10		
<b>C</b>	<b>ASC- Manahari</b>						300	300
11	Raksirang	600			3	10		
12	Sarikhet	600			3	10		
13	Hadikhola-9		1					
<b>D</b>	<b>ASC- Bhimfedi</b>						200	200
14	Bhimfedi	500			5	10		
15	Kulekhani				1			
16	ASC- Faparbari						200	200
17	ASC- Hatiya						200	200
18	ASC- Chhatiwan -6			1			200	200
19	ASC- Hetauda - 13 & 24		2				200	200
	<b>Total</b>	<b>9,000</b>	<b>4</b>	<b>1</b>	<b>75</b>	<b>150</b>	<b>1,800</b>	<b>1,800</b>

\*One set hand tool includes 5 items (Sickle 2, Spade 2, Kuto 1)

**Annex 3.3:** Distribution of support item, by ASC/VDC in Nuwakot District.

S N	Name of selected ASC/VDC/MCP	Storage bag (No)	Cocoons 5 MT (No)	Cocoons 10 Mt (No)	Minitiller (No)	Hand Tools (Set)*	Rice poster (Copies)	Maize poster (Copies)
	<b>Total district quota</b>	<b>9,000</b>	<b>5</b>	<b>1</b>	<b>75</b>	<b>150</b>	<b>1,800</b>	<b>1,800</b>
<b>A</b>	<b>ASC-Thanpati</b>							
1	Thanapati			1				
2	Talakhu	500			4	8	100	100
3	Leekhu	500			4	8	100	100
4	Chhap	500			4	8	100	100
<b>B</b>	<b>ASC-Kharanitar</b>							
5	Kharanitar	500			4	8	100	100
6	Shikharbesi	500			4	8	100	100
7	Raluka	500			4	8	100	100
<b>C</b>	<b>ASC- Chaugada</b>							
8	suryamati	500			4	8	100	100
9	Khanigau	500			4	8	100	100
10	Chhugada	500			4	8	100	100
<b>D</b>	<b>ASC- Ranipauwa</b>							
11	Kumari	500			5	8	100	100
12	Chaturale	500			5	8	100	100
13	Chauthe	500			4	8	100	100
14	Belkot		3					
<b>E</b>	<b>ASC- Deurali</b>							
15	Bhalche	500			4	10	100	100
16	Salme	500			4	10	100	100
17	Kawlee	500			4	10	100	100
<b>F</b>	<b>ASC-Devighat</b>							
18	Taruka	500			5	8	100	100
19	Gorsyang	500			4	8	100	100
20	Dudhisingh	500			4	8	100	100
21	Khadag Bhanjyang		2					
	<b>Total</b>	<b>9,000</b>	<b>5</b>	<b>1</b>	<b>75</b>	<b>150</b>	<b>1,800</b>	<b>1,800</b>

\*One set hand tool includes 5 items (Sickle 2, Spade 2, Kuto 1)



**Annex 3.4:** Distribution of support item, by ASC/VDC in Kavre District

SN	Name of selected ASC/VDC/MCP	Storage bag (No)	Cocoons 5 MT (No)	Cocoons 10 Mt (No)	Minitiller (No)	Hand Tools (Set)*	Rice poster (Copies)	Maize poster (Copies)
	<b>Total District Quota</b>	<b>9,000</b>	<b>4</b>	<b>1</b>	<b>35</b>	<b>150</b>	<b>1,800</b>	<b>1,800</b>
	<b>A ASC- Khopasi</b>							
1	Jyamdi	225			1	4	45	45
2	Hokse (Panchkhal)	225			1	4	45	45
3	Chubas	225			1	4	45	45
4	Dolalghat	225			1	4	45	45
5	Patlekhhet	225			1	4	45	45
6	Budhakhani	225			1	4	45	45
	<b>B ASC -Bhakunde</b>							
7	Bhumidada	225	2			4	45	45
8	Bhumlutar	225			1	4	45	45
9	Fulbari	225	1			4	45	45
10	Chandeni	225			1	4	45	45
11	Sipali	225			1	4	45	45
	<b>C ASC -Mangaltar</b>							
12	Jaishithok	225			1	4	45	45
13	Gairibisauna	225			1	4	45	45
14	Sathighar (Panchkhal)	225			1	4	45	45
15	Cjapahori	225			1	4	45	45
16	Balupati	225			1	4	45	45
17	Banepa	225			1	4	45	45
	<b>D ASC -Panchkhal</b>							
18	Mangaltar	225			1	3	45	45
19	Bhugdeu	225			1	4	45	45
20	Kasikhanda	225			1	4	45	45
21	Panchal 10	225			1	4	45	45
22	Kharelthok	225			1	4	45	45
23	Majhipheda	225			1	4	45	45
24	Negregagarche	225			1	3	45	45
25	Chamrangbeni	225			1	4	45	45
26	Rayale	225			1	4	45	45
27	Devitar	225			1	3	45	45
	<b>E ASC -Dolalghat</b>							
28	Birtadeyrli	225			1	4	45	45
29	Kavre	225			1	4	45	45
30	Pokharichauri	225			1	3	45	45
31	Panchkhal 11 Bela	225		1		4	45	45
32	Rayale	225	1			4	45	45
33	Chasingkharka	225			1	4	45	45
34	Panuti	225			1	4	45	45
	<b>F ASC -Banepa</b>							
35	Ghartichhap	225			1	3	45	45
36	Nayagaun Deupur	225			1	4	45	45
37	Kanpur	225			1	4	45	45
38	Kavrepalanchock	225			1	3	45	45
	DADO	450			1	4	90	90
	<b>Total</b>	<b>9,000</b>	<b>4</b>	<b>1</b>	<b>35</b>	<b>150</b>	<b>1,800</b>	<b>1,800</b>

\*One set hand tool includes 5 items (Sickle 2, Spade 2, Kuto 1)

**Annex 3.5:** Distribution of support item, by ASC/VDC in Sindhupalchowk District

SN	Name of selected ASC/VDC/MCP	Storage bag (No)	Cocoons 5 MT (No)	Cocoons 10 Mt (No)	Minitiller (No)	Hand Tools (Set)*	Rice poster (Copies)	Maize poster (Copies)
<b>Total District Quota</b>		<b>9,000</b>	<b>4</b>	<b>1</b>	<b>75</b>	<b>150</b>	<b>1,800</b>	<b>1,800</b>
<b>A ASC- Melamchi</b>								
1	Keul	2,000	1		3			
2	Echok	2,400		1	3			
3	Phatkasila				3			
4	Bandegaun				3			
5	Basbari				3			
6	Melamchi				3		360	360
7	Talamarang				3			
8	Mahakal				3			
9	Echok				3			
10	Gamirre				3			
11	Dabachaur				3			
12	Shipapokhare				3			
<b>B ASC- Chutara</b>								
13	Irkhu 6	500	1					
14	Sangachok 9	200						
15	Chautara NP	200			3		360	360
16	Bhotsipa				3			
17	Nabalpur							
<b>C ASC- Jalbere</b>								
18	Phulpingkot	1,000	1		3			
19	Jalbire				3		360	360
20	Btase				3			
21	Gumba					75		
22	Golche					75		
<b>D ASC-Dadapakhar</b>								
23	Tholopakhar	2,000			3		360	360
24	Jethal				3			
25	Attarpur				3			
26	Thumpakhar				3			
<b>E ASC-Barabeshe</b>								
27	Phulindada	500	1		3			
28	Pangretar				3			
29	Mankha				3			
30	Yamuna dada	200			3		360	360
<b>Total</b>		<b>9,000</b>	<b>4</b>	<b>1</b>	<b>75</b>	<b>150</b>	<b>1,800</b>	<b>1,800</b>

\*One set hand tool includes 5 items (Sickle 2, Spade 2, Kuto 1)

**Annex 3.6:** Distribution of support item, by ASC/VDC in Dolkha District

SN	Name of selected ASC/VDC/MCP	Storage bag (No)	Cocoons 5 MT (No)	Cocoons 10 Mt (No)	Minitiller (No)	Hand Tools (Set)*	Rice poster (Copies)	Maize poster (Copies)
	<b>Total district quota</b>	<b>5,000</b>	<b>2</b>	<b>1</b>	<b>40</b>	<b>80</b>	<b>700</b>	<b>700</b>
	<b>A ASC-Malu</b>							
1	Jafe							
2	Melung				3			
	<b>B ASC-Jiri</b>							
3	GARIMUDI				3		100	100
4	Namdu				3			
5	Kabre			1		20		
6	Chetrapa	300						
	<b>C ASC-Mgapuwa</b>							
7	Lakuridada				7	30		
8	Katakuti				3			
9	Fasku		1		4			
10	Pawati				4			
	<b>D ASC-Singitee</b>							
11	Lamidada	300						
12	Laduk	300						
13	Jhyanku	300						
14	Lapilang	300						
15	Babare	250						
16	Bigu	250						
17	Alampu	200						
18	Khopachagu	200						
19	Chilankha	200						
20	Bulung	300						
21	Suri	200						
22	Jugu	200						
23	Lmabagar	200						
24	Marbu	200						
25	Chankhu	200						
	<b>E Service Centre</b>							
26	Bhimeshowor MCP		1		6	10	150	150
27	Boach				4		100	100
28	Sundrawati	300			3			
29	Suspachamawati	300				20		
30	Sunkhani	300						
	DADO	200					350	350
	<b>Total</b>	<b>5,000</b>	<b>2</b>	<b>1</b>	<b>40</b>	<b>80</b>	<b>700</b>	<b>700</b>

\*One set hand tool includes 5 items (Sickle 2, Spade 2, Kuto 1)

**Annex 3.7:** Distribution of support item, by ASC/VDC in Ramechhap District

SN	Name of selected ASC/VDC/MCP	Storage bag (No)	Cocoons 5 MT (No)	Cocoons 10 Mt (No)	Minitiller (No)	Hand Tools (Set)*	Rice poster (Copies)	Maize poster (Copies)
	<b>Total district quota</b>	<b>3,000</b>	<b>2</b>	<b>0</b>	<b>35</b>	<b>20</b>	<b>700</b>	<b>700</b>
<b>A</b>	<b>ASC-Khimti</b>	1,100	1			10	150	150
1	Ghelu	200			3		100	100
2	Thilpung	350					100	100
3	Phulashi	150					100	100
<b>B</b>	<b>ASC-Chisapani</b>							
4	Chankhu				3			
<b>C</b>	<b>ASC-Ramechhap</b>							
5	Okheni	800	1			10	150	150
<b>D</b>	<b>ASC-Dhobi</b>							
6	Sheepu				3			
7	Gothgawu				4			
8	Duragawu				2			
<b>E</b>	<b>ASC-Doramba</b>							
9	Daduwa				4			
10	Boramba				3			
<b>F</b>	<b>ASC-Khanyapani</b>							
11	Bathan				3			
12	Markadum				2			
<b>G</b>	<b>ASC-Bamti</b>							
13	Gupteshwor				2			
14	Namdhi				4			
15	Rasnalu				2		100	100
	DADO	400						
	<b>Total</b>	<b>3,000</b>	<b>2</b>	<b>0</b>	<b>35</b>	<b>20</b>	<b>700</b>	<b>700</b>

\*One set hand tool includes 5 items (Sickle 2, Spade 2, Kuto 1)

**Annex 3.8:** Distribution of support item, by ASC/VDC in Khotang District

SN	Name of selected ASC/VDC/MCP	Storage bag (No)	Cocoons 5 MT (No)	Cocoons 10 Mt (No)	Minitiller (No)	Hand Tools (Set)*	Rice poster (Copies)	Maize poster (Copies)
<b>Total District Quota</b>		<b>4,000</b>	<b>2</b>	<b>0</b>	<b>35</b>	<b>80</b>	<b>700</b>	<b>700</b>
<b>A ASC-Haleshi</b>								
1	Kharpa	150			1	3	35	25
2	Rajapani	150			1	3	25	25
3	Nunthala	150			1	3	15	15
4	Durchhim	150			1	3	15	25
5	Chyasmitar	150			1	3	15	25
6	Buipa	150			1	3	25	30
7	Arkhoule	130			1	3	20	30
8	Bahunidanda	100			1	3	20	30
<b>B ASC-Mattim</b>								
9	Mattim	150			1	3	35	25
<b>C ASC-Khotang Bazar</b>								
10	Khotang Bazar	200			2	4	40	40
11	Badkadiyale	200			2	4	40	35
12	Lichkiramche	200			2	4	40	30
13	SIMPANI	200			2	3	35	30
14	Indrenipokhari	160			1	3	20	20
15	Bataase	160			2	3	35	30
16	S. Chhitapokhari	160			1	3	20	30
17	Sawakatahare	200			2	3	40	35
<b>D ASC-Aiselukharka</b>								
18	Maheswari	150			1	3	25	25
19	Dumere Dharapani	150			1	3	25	25
20	Aiselukharka	150			1	3	15	30
21	Dubekol	150			1	3	30	30
<b>E ASC-Yamkha</b>								
22	Chhorambu	160			2	4	40	35
23	Yamkha	160			2	3	35	25
<b>F A-Chisapani</b>								
24	Chisapani	160			2	3	25	25
25	Saunechour	160			2	4	30	25
	DADO		2					
<b>Total</b>		<b>4,000</b>	<b>2</b>	<b>0</b>	<b>35</b>	<b>80</b>	<b>700</b>	<b>700</b>

\*One set hand tool includes 5 items (Sickle 2, Spade 2, Kuto 1)

**Annex 3.9:** Distribution of support item, by ASC/VDC in Solukhumbu District

SN	Name of selected ASC/VDC/MCP	Storage bag (No)	Cocoons 5 MT	Cocoons 10 Mt	Minitiller (No)	Hand Tools (Set)*	Rice poster (Copies)	Maize poster (Copies)
<b>Total district quota</b>		<b>2,000</b>	<b>2</b>	<b>0</b>	<b>30</b>	<b>20</b>	<b>700</b>	<b>700</b>
<b>A</b>	<b>ASC-Juving</b>					4	20	20
1	Juving	65					15	15
2	Basa	55			1		15	15
3	Vhakanje	55					15	15
4	Chulakarka	50					15	15
5	Churikark						15	15
6	Goli	55					15	15
7	Khumjung						15	15
8	Namchhe						15	15
9	Taksindhu	45			1		15	15
10	Municipality	175						
<b>B</b>	<b>ASC-Neecha</b>					4	20	20
11	Nechabatashe	60			2		15	15
12	Neechabedghari	60	1		2		15	15
13	Teengla	70	1		2		15	15
14	Shylan	70			2		15	15
15	Tapting	60			1		15	15
16	Kerung	60			2		15	15
17	Gorakhani	60			1		15	15
18	Panchhan	60			1		15	15
<b>C</b>	<b>ASC-Neele</b>					4	20	20
19	Neele	50			2		15	15
20	Kangel	50			2		15	15
21	Mukli	50			2		15	15
22	Dusha	50			2		15	15
23	Kaku	45			1		15	15
24	Jubu	45			2		15	15
25	Municipality	210			4		100	100
<b>D</b>	<b>ASC-Sootang</b>					4	20	20
26	Sootang	75					15	15
27	Cheshkam	85					15	15
28	Pabau	72					15	15
29	Waku	65					15	15
30	Goodhel	68					15	15
31	Woong	65					15	15
32	Lookhim	70					15	15
<b>E</b>	<b>DADO</b>					4	70	70
<b>Total</b>		<b>2,000</b>	<b>2</b>	<b>0</b>	<b>30</b>	<b>20</b>	<b>700</b>	<b>700</b>

\*One set hand tool includes 5 items (Sickle 2, Spade 2, Kuto 1)

**Annex 4: Distribution of minitiller, by district, supplier and minitiller model (Number)**

SN	District	AMC Engineering Solutions Pvt. Ltd.			BTL Trade Pvt. Ltd, Lalitpur							Narayani Machines Pvt. Ltd.				SK Traders, Bhaktapur					Total (No)	
		AMC 1100A	AMC 1100C-1	Total	BSD 1050	BSD 1350	BSD 900	BSG 1050	BSG 800	BSG 900	Total	1000X	1000XC	1100A	Total	HT105-Z	HT950-A	SC105-Z	SC90-I	SC90-III		Total
1	Dolkha	5		5			26				26						4	20			24	55
2	Kavre								9		9				1	25					26	35
3	Khotang				10		35				45											45
4	Makwanpur	8		8	5	11	5				21	1	2	3	6	45	10	10			65	100
5	Nuwakot		6	6	2	19	3	5	1	2	32					4	8	37	1	2	52	90
6	Ramechhap																45				45	45
7	Sindhupalchowk															7	83				90	90
8	Solukhumbu				35					5	40											40
	<b>Total</b>	<b>13</b>	<b>6</b>	<b>19</b>	<b>52</b>	<b>30</b>	<b>69</b>	<b>5</b>	<b>10</b>	<b>7</b>	<b>173</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>6</b>	<b>50</b>	<b>54</b>	<b>195</b>	<b>1</b>	<b>2</b>	<b>302</b>	<b>500</b>

**Annex 5:** List of minitiller attachments, spare parts and other machineries distributed to minitiller recipients

SN	Items	Unit	Quantity
<b>A</b>	<b>Attachment</b>		
1	Deep tilling cultivator	Set	366
2	Deep tilling cultivator blade	No	1,482
3	Standard tilling cultivator set	No	4
4	Standard tilling cultivator blade	No	6,649
5	Cage wheel	Set	113
6	Paddy wheel	Set	201
7	Rotavator anti rap blade	Set	115
8	Ridger	No	87
9	Potato harvester	No	61
10	Water Pump	No	66
11	Seed drill	Set	44
12	MB Plough with Cage wheel	No	2
13	MB Plow	No	8
<b>B</b>	<b>Spare-parts</b>		
14	Spark plug	No	150
15	Start rope	No	910
16	Air filter	Set	64
17	Clutch wire	No	421
18	Accelerator wire	No	419
19	Carborator	No	8
20	Nozzle spray	No	5
21	Fuel Pump	No	11
22	Air pump	No	400
23	Cultivator Nuts & Bolt	Set	419
24	Metal clips for cultibvator	Set	413
25	Tyre and tube	Set	165
26	Sandard tool box	Set	400
<b>C</b>	<b>Other Machineries</b>		
27	Maize sheller	No	92
28	Peddle Thresher	No	59



**Annex 6:** List of distributed minitiller spare parts provided to trained mechanics

SN	Spare parts	Specification	Unit	Rate (Rs/unit)	Quantity	Amount (RS)
1	Starting rope	1 pc	Pc	175	5	875
2	Fuel pump assy	1 set	Set	2,700	1	2,700
3	Nozzel assy	1 set	Set	2,700	1	2,700
4	Tilling blade set	7 inch and 10 inch, 24/32 pcs per set	Set	125	28	3,500
5	Axle pin with "R" lock	1 pc	Pc	50	6	300
6	Tube	4.00-8, 2pcs per set	Set	300	4	1,200
7	Airfilter Assy	1 pc	Pc	1,450	1	1,450
8	Muffler Assy	1 pc	Pc	2,350	1	2,350
9	Axle control cable assy	1 pc	Pc	300	2	600
10	Clutch control cable assy	1 pc	Pc	300	2	600
11	Cap fuel	1 pc	Pc	225	2	450
12	Nut bold washer set for tilling blade	16 No. 24/32 pcs per set	Set	20	25	500
13	Cluch leaver	1 pc	Pc	300	1	300
14	Acclerator throtle	1 pc	Pc	250	1	250
15	Hand pump		Pc	400	1	400
16	Wrench set	different sizes of wrench and tools	Set	2,500	1	2,500
	<b>Sub-total</b>					<b>20,675.00</b>
	<b>Discount (3%)</b>					<b>620.25</b>
	<b>Total</b>					<b>20,054.75</b>

## Annex 7: List of trained local mechanics

## Annex 7.1: List of trained mechanics in basic and refresher training course

SN	District	Mechanic's Name	Address (VDC/MCP-Ward No)	Workshop Location (Village)	Workshop Name	Contact Number	Refresher Training Attended
1	Khotang	Mr. Ram Kumar Karki	Kotang-9	Khotang bazar	Nites electrical	9743025916	NO
2	Khotang	Mr. Raj Kumar Budhathoki	Dhitung-8	Hattiahial	Halesi parts	9842377524	NO
3	Khotang	Mr. Kaji Prasad Acharya	Diktel-5	College Road	Dajubhai parts	9842849127	NO
4	Khotang	Mr. Pustak Bahadur Khatri	Diktel-2	Matikore	Diktel Bazar		YES
5	Khotang	Mr. Pradip Puri	Arkhale-2	Bijule	Puri Brother Workshop	9861252563	YES
6	Khotang	Mr. Ganga Bahadur B.K	Diktel-5	Solma,Banpala	Khotang Agri. Farm	9842967555	YES
7	Khotang	Mr. Youba Raj Acharya	Diktel-5	Diktel bazar	N/A	9842933766	YES
8	Khotang	Mr. Shyam kumar Poudel	Diktel-3	Diktel bazar	Poudel Workshop	9841168070	YES
9	Solukhumbu	Mr. Arjun kumar Rai	Sallyan-9	Khalpa	Karisma auto workshop	9813527734	YES
10	Solukhumbu	Mr. Ram Bahadur Rai	Nechabatase-6	Majhgaun	Mahila tatha purus krisak group	9819758113	NO
11	Solukhumbu	Mr. Bhojendra Pandit	Dudhkunda-6	Dandaghar	Shreeganes auto workshop	9861138650	NO
12	Solukhumbu	Mr. Rabin Basnet	Kangel-7	Nakpokhari	Sirjansil krisak samuha	9862830016	NO
13	Solukhumbu	Mr. Kebal Rana Magar	Dudhkunda -5	Apwa danda	Solukhumbu auto supplier center	9842819555	YES
14	Solukhumbu	Mr. Bikash Shrestha	Dudhkunda -7	Garma	Shree Jwalamai Auto Works & Service	9842929977	YES
15	Solukhumbu	Mr. Toi Bahadur Katuwal	Tingla-4	Tingla,Chuchule	Muskan Degital Center	9811764780	YES
16	Solukhumbu	Mr. Firoj Babu Gurung	Nele-7	Nelebazar	Suhana motercycle workshop	9811368793	YES
17	Kavre	Mr. Dipendra danuwar	Pachkhal kavre-3	Tamar ghat	N/A	1918559777	YES
18	Kavre	Mr. Lila Bahadur shrestha	Mahabirthan kavre-8	Kantabeshi	Lila Tactar workshop	9841031896	NO
19	Kavre	Mr. Sunil danuwar	Pachkhal kavre-3	Tamar ghat	Golma devi Tactor workshop.	9803816062	YES
20	Kavre	Mr. Kaela shrestha	Pachkhal kavre-15	Harse	Palanchok Tector workshop	9841006751	YES
21	Kavre	Mr. Khadka Bahadur purakoti	Naya gaun deupur-1	Chainpur	Tatale badh jalupovocta samiti	9751050060	YES
22	Kavre	Mr. Bisnu Hari shrestha	Ugrachandi nala-2	Epatol	Om sateshai Workshop	9841513549	YES
23	Kavre	Mr. Shyam Krisna parjapati	Ugrachandi nala-1	Mapatol	Om sateshai Workshop	9841487335	YES
24	Kavre	Mr. Sanjeeb Shrestha	Ugrachandi nala-3	Tupichatol	Om sateshai Workshop	9849106760	YES
25	Nuwakot	Mr. Gokarna Gurubachhe	Khaningau-4	Dikure	Namuna shahakari	9860327999	NO
26	Nuwakot	Mr. Man Bahadur Yamang	Kahule-6	majhathok	Shimlashahakari	9813583831	NO
27	Nuwakot	Mr. Dipak neupane	Chauthe-5	Dhuganagaun	DafeAgri.ahahakri sashtra plt	9849608332	YES
28	Nuwakot	Mr. Parkash Raj Bhandari	Kharanitar-1	kharanitar	KharanitarArgi.Shahakari	9841089084	YES
29	Nuwakot	Mr. Purushowtam Adhikari	Taruk-1	Thulotar		9808284693	NO
30	Nuwakot	Mr. Nema tamang	Talakh-6	Batatashe	Batashe Agri. Group	9841935254	YES
31	Nuwakot	Mr. Ravi poudel	Duepaper-9	Aale	Arbi misin	9803718406	YES
32	Nuwakot	Mr. Parkash oli	Belakot-3	Oli tole	Niranjn Agr. Group	9841086017	YES
33	Makwanpur	Mr. Ram Bahadur Titung	Agrachisapani-5	Lamatol	Bishal Motorcycle Workshop	9843870025	YES
34	Makwanpur	Mr. Uttam Bista	Bhise-4	Chuniya	Agricultural	9845148367	NO
35	Makwanpur	Mr. Atma Ram Sangtanh	Agrachisapani-5	Bhattidada	Agricultural	9814283504	YES
36	Makwanpur	Mr. Kumar Ale Magar	Bhimpedi-4	Jurikhet	Agricultural	9741252889	YES
37	Makwanpur	Mr. Karna Bahadur Khadka	Namatar-4	Vhaduree	Agricultural	985069510	YES
38	Makwanpur	Mr.R.B Gragan Pradhan	Thaha MCP-3	Phalung	Agricultural	9845270805	YES
39	Makwanpur	Mr. Shankar Maharjan	Thaha MCP-13	Bajrabrahi	Power Teller Mechanic	9849997076	YES
40	Makwanpur	Mr. Promod Kumar Jaishwal	Thaha MCP-13	Phalung	Motorcycle Workshop	9845070565	YES
41	Ramechhap	Mr. Bhoj Bahadur Kadka	Namadi-7	N/A	N/A	9751043435	YES
42	Ramechhap	Mr. Raj Kumar Tamang	Ramechhap, Daduwa-2	N/A	N/A	9844400197	YES
43	Ramechhap	Mr. Indra Bahadur Tamang	Pharphi-7	Naba Buddha Mechanical Wor	Ramechhap- Khimti-2	9844212229	YES
44	Ramechhap	Mr. Bhim Bahadur Saru Maga	Phalashi-1	N/A	N/A	9843768815	YES
45	Ramechhap	Mr. Lalit Bahadur Thapa Chhtri	Phalashi-1	N/A	N/A	9744058892	NO
46	Ramechhap	Mr. Bibek Hayau	Ramechhap-5	Ramechha Workshop P. Ltd.	Ramechhap-5	9614477393	NO
47	Ramechhap	Mr. Rana Bahadur Thapa	Namadi-6	N/A	N/A	9744061747	YES
48	Dolakha	Mr. Indra Dev Chulagai	Jilue-5	N/A	N/A	9844065506	YES
49	Dolakha	Mr. Rakesh Prasad Gupta	Charikot-10	N/A	N/A	9844267364	NO
50	Dolakha	Mr. Dipendra Thapa	Kabre Mainapokhari-3	Thapa Workshop	N/A	9817655383	NO
51	Dolakha	Mr. Yaga Bahadur Khadka	Kobre-8 Pobati	N/A	N/A	9808498924	NO
52	Dolakha	Mr. Ram Chandra Thami	Charikot-3	Mehendra Showroom	N/A	9864003448	NO
53	Dolakha	Mr. Ganesh Oli	Sigati-8	N/A	N/A	9849465862	NO
54	Dolakha	Mr. Lal Bahadur Thami	Bhimseen Municipality-10	Ujal Motor Workshop & Engine	N/A	9744033960	YES
55	Dolakha	Mr. Bishnu Bahadur Thami	Bhimseen Municipality-10	Parkriti Auto workshop	N/A	9741108841	YES
56	Sindhupalchowk	Mr. Buddha Tamang	Thulipakhar-5	N/A	N/A	9860512113	NO
57	Sindhupalchowk	Mr. Champak Parajuli	Mankha Chumlongbeshi	N/A	N/A	9862248024	NO
58	Sindhupalchowk	Mr. Chandra Prakash Tiwari	Batase-4	N/A	N/A	9843771180	NO
59	Sindhupalchowk	Mr. Raju Magar	Bansbari	N/A	N/A	9851215811	NO
60	Sindhupalchowk	Mr. Dor Bahadur Majhi	Pulpingkot-4	N/A	N/A	9641259762	YES
61	Sindhupalchowk	Mr. Dinesh Rayamayhi	Chuttara-1	N/A	N/A	9860654701	YES
62	Sindhupalchowk	Mr. Krishna Prasad Tiwari	Bansbari -5	N/A	N/A	9849864646	YES
63	Sindhupalchowk	Mr. Shanta Bahadur Tamang	Bansbari -5	N/A	N/A	9848119435	YES

**Annex 7.2:** List of new mechanics participated only in refresher training

SN	District	Mechanic's Name	Address (VDC/MCP-Ward No)	Workshop Location (Village)	Workshop Name	Contact Number
1	Solukhumbu	Mr. Gokul Rai	Dudhkunda -6	Salairi Naya Bazar	N/A	9743056090
2	Solukhumbu	Mr. Surja Dhan Rai	Batase-6	N/A	N/A	9825781688
3	Kavre	Mr. Amrit Lal Shrestha	Ugrachandi nala-3	N/A	N/A	9841270082
4	Nuwakot	Mr. Ram Krishna Bhandari	Panchakanya-8	N/A	N/A	9843629112
5	Nuwakot	Mr. Pancha Tamang	Salme-4	N/A	N/A	
6	Makwanpur	Mr. Bir Bahadur Magar	Sarikhat-6	N/A	N/A	
7	Ramechhap	Mr. Ambar Bahadur Panday	Gelu-1	N/A	N/A	9841606691
8	Ramechhap	Mr. Saugat Moktan	Daduwa-2	N/A	N/A	9744031430
9	Ramechhap	Mr. Shyam Narayan Shrestha	Tilpung-9	N/A	N/A	9854040710
10	Ramechhap	Mr. Khada Bahadur Khadka	Khimti-1	N/A	N/A	9844193880
11	Ramechhap	Mr. Lekhe Shrestha	Tilpung-9	N/A	N/A	9844234484
12	Ramechhap	Mr. Krishna Bahadur Thapa	Phulashi-1	N/A	N/A	9864007571
13	Dolakha	Mr. Dhiraj Khatri (K.C)	Jiri-2	N/A	N/A	9809659191
14	Dolakha	Mr. Ramesh Darji	Jiri-5	N/A	N/A	9860416199
15	Dolakha	Mr. Shubharaj shiwakoti	Sunkhani-1	N/A	N/A	9844554735
16	Dolakha	Mr. Puskar Pokherel	Malu-7	N/A	N/A	9844061557
17	Dolakha	Mr. Chitra Bahadur Oli	Sigati-8	N/A	N/A	9849465862
18	Sindhupalchowk	Mr. Yam Prashad Bhattarai	Batase-3	N/A	N/A	9867806916

## Annex 8: List of trained minitiller recipients

SN	District	Training Participant's (representing farmer-own, Farmer group, Cooperatives)	Minitiller Recipient's Farmer/ Farmer Group/ Cooperatives	Address (VDC/MCP-Ward No)	Village/Tole	Contact Number
1	Khotang	Santos Rai	S.F. Cooperatives	Arkhale-4	Pari gaun	9810125709
2	Khotang	Kabi kumar Rai		Ratanchha-2	Langala	9862979366
3	Khotang	Ram nidhi Acharya	Suryaprakash	Yamkha-5	Rikhuwa	9862811558
4	Khotang	Birendra Raya	Gaujagaran	Yamkha-8	Khamdana	9842933069
5	Khotang	Durbasa Gelal	Ajambari M.L&Agri	Diktel-3	Khili	9741133039
6	Khotang	Chhabilal Dhakal	Bahuudesya	Khotang-4	Puranagaun	9741349319
7	Khotang	Arjun Pradhan	Barre Prgatisil	Simpani-2	Barre	9860427515
8	Khotang	Dasarath Rai(Khem)	Nabakrisak	Lamidanda-3	Chiuribas	9818982914
9	Khotang	Pramod Khatiwada	Dharapanikrisak	Diktel-15	Dharapani	9842849503
10	Khotang	Biru Rai	Yughokha	Durchhimi-4	Ganeshtar	9862624525
11	Khotang	Lalit Bahadur Shrestha		Diktel-13	Khadale	9860427515
12	Khotang	Santosh B.K	Khotang krishi farm	Diktel-3	Phulbaritol	9842813375
13	Khotang	Dorja Sherpa	Rupakot	Diktel-5	Mude	986281459
14	Khotang	Puspahar Rai	Pasnglmsmubahu	Dorpa-3	wanachung	9741405055
15	Khotang	Prakash Rijal	Nawadurgakrisi	Nerpa-6	Bensitol	9842849428
16	Khotang	Nawaraj Ghimire		Laphyang-6	Puranagaun	9862867825
17	Khotang	Arjun Kumar karki		Rajapani-8	Kotgaun	9862979604
18	Khotang	DipendraRai		Diktel-4	Dandagaun	9862846300
19	Khotang	Man Prasad Rai	Ajambari mahila	Baspani-9	Lungsikha	9842911082
20	Khotang	Dhan kumar Rai	Ajambari mahila	Banspani-5	Gairi tol	9742022716
21	Khotang	Abiraj Rai	Adhunik krisak	Banspani-4	Sirubar	9862852010
22	Khotang	Dharmaraj Rai	Fisepu organi krisi farm	Diktel-1	Phisepu	975300457
23	Khotang	Deepak Rai		Diktel-14	Bartang	9842535743
24	Khotang	Indra Kumar Shrestha	Hamrosanakisan	Dorpa-6	Dobela	9753004454
25	Khotang	Baburam Rai	Hamrosanakisan	Nunthala-1	Mahure	9842062727
26	Khotang	Mina Rai	Gadhikrisaksahakari	Nunthala-1	Mahure	9862618081
27	Khotang	Tanka Bahadur Shrestha		Diktel-13	Bansbote	9842992235
28	Khotang	Phulkamal Rai		Makpa-4	Lumdu	9801044438
29	Khotang	Meghraj Rai	Sadabaharkrisisamuh	Saptesor-4	Tulsitar	9805313238
30	Khotang	Raghunanda Rai	Sapsu janapriya krisak samuha	Chyandanda-1	Sekhuwa	9842813617
31	Khotang	Govinda Kumar Shreshtha		Chiuridanda-6	dorpa,dobela	9842849483
32	Solukhumbu	Prem kumar Karki	Nabalaligurans krisi Coop	Tingla-6	Lammane	9742092771
33	Solukhumbu	Raj kumar Gurung	Pragatisil krisak samuha	Kerung-8	Anggang	9842819412
34	Solukhumbu	Nuri Sherpa	Numra fruit & f.veg group	Salleri-6	chhilemu	9842938213
35	Solukhumbu	Tundu Rai	Bageswori krishi samuha	Kangel-5	Rai gaun	
36	Solukhumbu	Prem Kumar Rai	Sunaulo mahila tatha purus group	Nechabatase-8	Khalinggaun	9807775831
37	Solukhumbu	Bishnu kumar Rai	Kalyan krisak samuha	Sallyan-5	Seron	9743017113
38	Solukhumbu	Pasang chhirai Sherpa	Pasang krisak samuha	Sallyan-5	Seron	9743080711
39	Solukhumbu	Pararam Basnet	Jalkanya krisak ama samuha	Jubu-8	Salju	9743029835
40	Solukhumbu	Bal Bdr Sunuwar	Pragatisil misrit krisak	Nele-1	Jogara	9818086566
41	Solukhumbu	Khem bdr Gurung	Sayapatri krisi samuha	Mukli-2	Maidel	9818410330
42	Solukhumbu	Narayan k.Rai	Triveni krisi balibikas	Salyan-9	Deupuje	9843546788
43	Solukhumbu	Purna bdr Basnet	Mahila purus krisak samuha	Kangel-7	Nagpokhari	9862689620
44	Solukhumbu	Khyam raj Rai	Sri chamlabot tarkari krisak	Nechabehamari-5	sirangaun	9862807155
45	Solukhumbu	Lok bikram Rai	Khalpa falful krisak samuha	Salyan-9	Khalpa	9862959398
46	Solukhumbu	Tilak bdr Rai	Tribeni balibikas krisa	Salyan-9	Deubuje	9808714082
47	Solukhumbu	Dan Bdr Rai	Bhumesthan krisak	Tingla-1	Dandagaun	9803027422
48	Solukhumbu	Dakman Karki	Sagarmatha krisak	Basa-2	Damkhu	9862857196
49	Solukhumbu	Muna khadka/karki	Bhumesthan phalful & veg misrit	Tingala-4	charghare	9810339911
50	Solukhumbu	Prakas Basnet	Sagarmatha alainchi utpadan FG	Chaulakharka-1	Rimdanda	9741167886
51	Solukhumbu	Kedar Rana Magar	Janapriya samajsewa suntala FG	Waku-8	wasakhani	9743013337
52	Solukhumbu	Kamal Khatri		Nele-5	Simkharka	9815742812
53	Solukhumbu	Youbaraj Rai	Dipali bahuudesya falful krisak	Deusa-1	Dipali	9862930064
54	Solukhumbu	Mahendradip Rai	Himali misrit krisak	Mukli-3	Depku	9851064758
55	Solukhumbu	Jai Bahadur Sunuwar	Sundar krisak mahila samuha	Garma-4	Tallo jogara	9817770441
56	Solukhumbu	Ek bahadur Rai	Nawajyoti Men & Women Coop	Nechabatase-6	Majhgaun	9743022139
57	Solukhumbu	Ram bahadur Rai	Nawajyoti Men & Women Coop	Nechabatase-6	Majhgaun	9819758113
58	Solukhumbu	Anita Rai	Dudhkosi mahila krisak samuha	Panchaun-6	Rulim	9824787466
59	Solukhumbu	Ram kaji Rai	Hariyali krisak samuha	Necha Belghari-1	Phurke	9741160161
60	Solukhumbu	Lhakpa gelu Serpa	Pragatisil Krisak samuha	Dudhkunda MCP-3	Loding	9842535461

## Annex 8: List of trained minitiller recipients cont'd...

SN	District	Training Participant's (representing farmer-own, Farmer group, Cooperatives)	Minitiller Recipient's Farmer/ Farmer Group/ Cooperatives	Address (VDC/MCP-Ward No)	Village/Tole	Contact Number
61	Solukhumbu	Bhesh nath Ban	Janajagrati misrit Krisak samuha	Jugu-5	Bangaun	9817701201
62	Kavre	Mr.Shankar moktan	Layout W.Agrl.Group	Foxsing tar-3	Agretar	9611127823
63	Kavre	Mr.Shibaram parajuli	Chuldi beshi W.M G	Jamdi-3	Kuldibesi	9841609356
64	Kavre	MS.Nirmala Adhikari		Pachkhal-4	Kafleti	9860252191
65	Kavre	Mr.Uma Adhikar		Pachkal-4	lamdi	9741233814
66	Kavre	Mr.Sumitra banjara	Shakriya W.M Group	Panauti-8	KhariBOT	9803724382
67	Kavre	Mr.Naba raj Adhikari	Charpile krishe Group	Pachkhal-2		9741057547
68	Kavre	Mr.Krti Bdr tamang	Choeling Krishe Group		Majhpheda-6	9741210556
69	Kavre	Mr.Dhurba raj giri	Choeling Krishe Group		Majhpheda-7	9751009604
70	Kavre	Mr.Durga parajuli	rettheyaB.R.shahakari	Shaping-4		9818191732
71	Kavre	Mr.Manisha majhi	Sherjanashil K.Samuha	Bhimkhori-5		9818573664
72	Kavre	Mr.Darshan dhital	Krishak Group	Patle khet-1		9841105829
73	Kavre	Mr.Bir Bdr lama	Krishak Group	Dapcha-9		9851103939
74	Kavre	Mr.Dil ku. Ranjitkar	Manedoven shahakari	Payale-6		9851163258
75	Kavre	Ms,Uma bogoti	Sharadhadevi K. Group	Panauti-1		9841103924
76	Kavre	Mr. Aadarsha KC	Krishak Group	Banepa-1		9860899986
77	Kavre	Ms.Tika ku. Budhathoki	Chakhola sana Kishan	Dolaighat-9		9818321890
78	Kavre	Mr.Ramsharan humagai	Patikhola Sana Kishan	Kushadiv Ghat-7	Kushadiv	9841659462
79	Kavre	Mr.Dolakha llama	Dolma sekshan Shahak.	Mangal Ghat-9	Gothetol	9849750953
80	Kavre	Mr.Rabindra Shrestha	Dhungepani K.Group	Pachkhal-1	Keraghari	9841006519
81	Kavre	Mr.Ram Bdr owjha		Kashikhand-4	Ojha Gaun	9849099433
82	Kavre	Ms.Gita neupane	Nagregagarche	Nagregagerche-6	Nagre	9851090894
83	Kavre	Mr.Tul pr. Dhahal	Gau balli Seed production	Chayamang beshi-2	Chamrang beshi	9866877353
84	Kavre	Mr.Bhudhi man tamang	Laul W.Agrl. Group	Phokshing tar-1	Ugritar	9841006196
85	Kavre	Mr.Jayama lama	Milijuli W Agri.Group	Kharpachok	Herde	9803899704
86	Kavre	Mr.Hari pr chaulagai	Aayashrota Group	Pokarichauri	Shulikot	9841090166
87	Kavre	Mr.Man bdr lama		Shipali-3	lamatol	9810109049
88	Kavre	Mr.Ramesh mainali	Lamidada	Kushbash-3	Makhala	9841769968
89	Nuwakot	Tulsha Katiwada	Dumcheshowri Co-op.Group	Chaughada-8	Bagaicha	9843469600
90	Nuwakot	Uttma Pathak	Simra Upavokta Group	Chaughada-3	Simra	9841594394
91	Nuwakot	Bhoj Raj Pathak	Bagbani Agri. Co-operative	Chaughada-8	Bagaicha	9843431772
92	Nuwakot	Heri Ram Lama		Chaturale-1	Chhapa	9808082604
93	Nuwakot	Naraya Bogati	Chatur vhajel Co-operative	Chaturale-4	Bhagari	9860904738
94	Nuwakot	Shailendra Acharja	Chatur vhajel Co-operative	Chaturale-3	Lumrichaur	9741321960
95	Nuwakot	Cheerup Lama	Panling Agri.Group	Salme-4	Salme	9803746472
96	Nuwakot	Hili Raj Lama	Barla Agri. Group	Salme-7	Salme	9611085612
97	Nuwakot	Kuldipak	Maharudra Agri. Group	Taruk-6	Dhakal gaun	9803021964
98	Nuwakot	Gobinda Pd Paneru	Shatyam Co-operative group	Taruk-1	Raekar phat	9810073799
99	Nuwakot	Balkrisna Neupane	Jana gaganan Agri.Co-opre.	Kumari-8	Patapuwa	9813261154
100	Nuwakot	Ramesh Kuwar	Naya basti Agri. Group	Khani gaun-5	Bagar bazaar	9860580232
101	Nuwakot	Santa Ram Rimal	Bhumi bachata Co-operative	Gorshang-9	Bhamara	9808694354
102	Nuwakot	Sukre Tamang		Gorshang-8	Manedada	9818507429
103	Nuwakot	Gobonda Pd Lamichane	Rethechaur Agri. Group	Chaughada-9	Baniyatar	9741191747
104	Nuwakot	Prem Krisna Hudeal		Chutale-1	Chturale Ba.	9849099426
105	Nuwakot	Pitamber Nepal	Shitala davi Agri.Group	Kumari-9	Khani gaun	9841671545
106	Nuwakot	Lal Bdr Tamang	Sallaghari Agri. Group	Talaku-5	Sallaghari	9841723119
107	Nuwakot	Ram Bdr Gurung	Paribartan Agri Group	Kumari-5	Nepane	9818608496
108	Nuwakot	Hahi bogati	Niranjan Agri. Group	Suryamati-9	Bage	9741203464
109	Nuwakot	Parkasha Ch. Neupane	Shamyoukta W. Co-operative	Phikuri-5	Tagi	9841902132
110	Nuwakot	Krisna Bdr Magar		Suryamati-2	Pattaghari	9810021380
111	Nuwakot	Chentere Rai		Suryamati-4	Chauka	9849392819
112	Nuwakot	Kdisna Pd Adhikari	Jalpa devi Agri. Co-operative	Dangsing-7	Ghorleni	980810849
113	Nuwakot	Narada Kumar Khanal	Janayakta Agri. Co-operative	Dangsing-8	Khanal gaun	9816160554
114	Nuwakot	Ramesh Khanal	Janayakta Agri. Co-operative	Dangsing-8	Khanal gaun	9843650521
115	Nuwakot	Hari Pd Khanal	Janayakta Agri. Co-operative	Dangsing-8	Khanal gaun	9845621402
116	Nuwakot	Jirman Tamang	Parshamsha Organic Agri.G.	Valshe-9	Nochet	9741330245
117	Nuwakot	Yangro Tamang	Janasil Co-operative Group	Valshe-9	Nochet	9741133861
118	Nuwakot	Min Bdr Tamang	Shigla Cooperative Group	Kahule-6	Kahule	9803346251
119	Nuwakot	Pukar Bogati	Ch atru bhuj Aale Agri.Group	Chorale-2	Shirubari	9841173750
120	Nuwakot	Maetasing Tamang	Manmar Agri. Group	Bhalshe-9	Tuchet	9616637883

## Annex 8: List of trained minitiller recipients cont'd...

SN	District	Training Participant's (representing farmer-own, Farmer group, Cooperatives)	Minitiller Recipient's Farmer/ Farmer Group/ Cooperatives	Address (VDC/MCP-Ward No)	Village/Tole	Contact Number
121	Nuwakot	Ramesh Kumar Upreti	Kharanitar Agri. Group	Kharanitar-1	Kharani tar	9813012825
122	Nuwakot	Puskar Pandit	Raluka davi koskade Agri.G	Raluka devi-7	Koskau	9841139887
123	Nuwakot	Hari Pd Dhungana	Dafe Agri.CO-operative	Chauthe-5	Radhe tar	9741001653
124	Nuwakot	Devendra Dhungana	Dafe Agri.CO-operative	Chauthe-5	Dhungana gaun	9849117429
125	Nuwakot	Jalan Gajurel	Laxmi Bachat& shahakari G.	Chauthe-6	Dhuangana gaun	9843472791
126	Nuwakot	Giban Dhital	Kalika devi Agri. Group	Chauthe-6	Bhandari thumka	9851129069
127	Nuwakot	Kamal Bdr Tamang	Rithebot rale dada Agri.G.	Chapa-9	Rale dada	9611010476
128	Nuwakot	Prem Lama	Dadatole kriyashil Group	Chapa-6	Ghangtole	9860960311
129	Nuwakot	Birbal Tamang	Pach shya khola Co-op.	Kaule-6	Dawa chet	9851175528
130	Nuwakot	Tara Bdr Tamang	Shadabaha Agri. Group	Talakh-8	Khaku	9860250363
131	Nuwakot	Ramsharan Thapa	Charkuna sagar kunda Co-op.	Shekhar beshi-5	Phat	968014244
132	Nuwakot	Muknda Basnet	Kriyashil weman Agri.Grop	Likhu-7	Gurashe	9611059231
133	Nuwakot	Laxman tamang	Rameshshowri Weman Agri.G	Raluka-8	Dada gaun	984381690
134	Nuwakot	Shyam Kumar Thapa	Gayaneshowri	Shekharbeshi	Paharamuni	9611072034
135	Nuwakot	Mohan Bdr Thapa	Hile Agri. Co-operative	Shikharbeshi-4	Hile	9611052663
136	Nuwakot	Ganesh Bdr Thapa		Shikharbesh-4	phat	9843469211
137	Nuwakot	Shagam Mudvari	Kumari nmuan Agri.Co-op.	Kumari-3	Dhulde	9859919538
138	Nuwakot	Keshab Pd Khatiwoda	BagbaniAgri Agri co-op.	Chaughada-8	Gadkhar	9841086705
139	Nuwakot	Lal Bdr Tamang	Shadachar Agri.Group	Talakh-4	Sarbev	9841723119
140	Nuwakot	Yadu Kumar Chapagai	Kishan co-operative	Kharanitar-2	Kharani tar	9841798368
141	Nuwakot	Ram Bdr Tamang	Jagaran Agri. Co-cop.	Kumari-3	Yakal	9810362226
142	Nuwakot	Binod shedae	Chuna davi Agri. Co-op.	Suryanti-9	Pande Gaun	9841530385
143	Nuwakot	Ra Shubedimeshower	Sewa abshar Agri Group	Kumari-3	Amal tar	9808292103
144	Nuwakot	Aaeta Sil Tamang	Aalu shamuh	Valchek-9	Keuchet	9813380532
145	Nuwakot	Ram Babu Adhikari	Nawadip Agri Group	Gogshyang-4	Kaleridada	9808381234
146	Nuwakot	Padam Kumar Shrestha	Chapa krishil weman Co-op	Chhapa-7	TaraGaun	9808502291
147	Nuwakot	Narayan Shrestha	Chapa chapake weman	Chhapa-9	chhapa	9611016357
148	Nuwakot	Mon Raj Ghale	Nababhudha Multi Co-op.	Salmi-6	Ghle Ganu	9849484090
149	Nuwakot	Churgh Aale	Bukkyap khor Agri.Group	Kaule-2	bukkyap	9813976311
150	Nuwakot	Dipak Adhikari	Taradevi Agri. Weman Group	Taruk-2	Taruk	980335353
151	Nuwakot	Shitaram Adhikari	Birta phat Agri.Group	Taruk-1	Taruk	9828004690
152	Nuwakot	Dhan Bdr Tamang	Dansing Namuna Multi Agri G	Dancing-2	Chelaune	9808678436
153	Nuwakot	Ramesh Kumar Basnet	Barahi devi Agri. Group	Raluka-7	Rimal dada	9843442172
154	Makwanpur	Mr. Akkal Bhadur Tamang	Ban Beli Agricultural Cooperative Group	Thaha-11	Phurke	9841803471
155	Makwanpur	Mr. Ram Kumar Sangtang	Akta Krisak Yuba Cooperative Group	Agra-4	Chisapani	9818415652
156	Makwanpur	Mr. Sudershan Sangtang	Akta Krisak Yuba Cooperative Group	Agra-4	Chisapani	9823016562
157	Makwanpur	Mr. Ramesh Sangtang	Akta Krisak Yuba Cooperative Group	Agra-5	Chisapani	9814293299
158	Makwanpur	Mr. Bhimsen Aryal	Thulibeshi Group	Gogane-9	Thulibeshi	9845722372
159	Makwanpur	Mr. surya Bhadur Bista	Pargatishil Krisak Samuha	Gogane-2	Beshitol	9860397203
160	Makwanpur	Mr. Sanjya Gurung	Chhukitar Krisak Samuha	Gogane-2	Chhukitar	9845403575
161	Makwanpur	Mr. Man Bhadur Rumba	Phafel Krishi Shaakari Samuha	Phafel-3	Purandi	9849306223
162	Makwanpur	Mr. Biraj Thng	Bageshwori Krishi Samuha	Agra-6	Dada-Dhola	9843760802
163	Makwanpur	Mr. Dawa Bhindu Lama	Sunulo Krishi Samuha	Phaffel-3	Purandi	9845433837
164	Makwanpur	Mr. Purna Lama	Sunulo Krishi Samuha	Markhu-1	Sapang	9811181507
165	Makwanpur	Mr. Ram Hari Gautam	Sagarmatha Krisak Samuha	Markhu-5	Khadbukhel	9811159470
166	Makwanpur	Mr. Rabin Banjan	LaliGurash Sana Kishan	Nmatar-3	Aghuor	9845722679
167	Makwanpur	Mr. Prakash Rumba	Bridha Tarkari Samuha	Nmatar-1	Ghirghari	9845120062
168	Makwanpur	Mr. jaya Bhadur Bai	Lali Gurash Kirshi Samuha	Nmatar-3	Aghuor	9845072573
169	Makwanpur	Mr. Santa Thin Lama	AdhimadhuKirshi Samuha	Nmatar-3	Aghuor	9845149952
170	Makwanpur	Mr. Sagar Thapa Magar	Milan Krishi Samuha	Bhimphadi -1	Ghosing	9845459377
171	Makwanpur	Mr. Saurab Bhadur Magar	Kotthumki Krsshi Samuha	Thaha-12	Anghour	9845800588
172	Makwanpur	Mr. Baburam Moktan	Bethek Krishi Samuha	Kalikatar-2	Takuya	9845167248
173	Makwanpur	Mr. Niraj Pradhan	Phalung Krishi Samiha	Phalung Taha-3	Phalung	9855072034
174	Makwanpur	Mr. Dev Narayan Nepali	Lali Gurash Krishi SamuhaSana Kishan	Bhaise-2	Ghatekhola	9845456113
175	Makwanpur	Mr. Bhim Lal Titung	Aviyan Krishi Samuha	Bhaise- 8	Keteni	9845927056
176	Makwanpur	Mr. Kashi Ram Byanju	Gunding Krisak Samuha	Bhaise-1	Gunding	9845458904
177	Makwanpur	Mr. Bishal KC	Hatemalo Samuha		Palung-2	9845072217
178	Makwanpur	Mr. Shayam Karki	Reshewor Krishi Samuha	Thaha-8	Daman	
179	Makwanpur	Mr. Bir Bhadur Rana Magar	Melmilap Krishi Samuha	Sharikhet-6	Gothbari	9843391606
180	Makwanpur	Mr. Ruben Rana Magar	Gramin Uthan Krishi Samuha	Sharikhet-6	Bhadhi	9817275372

## Annex 8: List of trained minitiller recipients cont'd...

SN	District	Training Participant's (representing farmer-own, Farmer group, Cooperatives)	Minitiller Recipient's Farmer/ Farmer Group/ Cooperatives	Address (VDC/MCP-Ward No)	Village/Tole	Contact Number
181	Makwanpur	Mr. Roshan Lama	Laligurash Krishi Samuha	Sharikhet-3	Peple	9845820253
182	Makwanpur	Mr. Balaram Bartula	Pargatishil Krisak Samuha	Thaha-6	Daman	9845271495
183	Makwanpur	Mr. Surbir Waiba	Surya Krishi Samuha	Thaha 15	Bajrabrahi	9845167442
184	Makwanpur	Mr. Rajendra Rumba	Friendship Krishi Samuha	Thaha-10	Daman	9811254707
185	Makwanpur	Mr. Prakash Mishra	Suntala Bari Krishi Samuha	Namatar-2	Namtar	9845168126
186	Makwanpur	Mr. Parbat Pudashine	Suryamukhi Krisak mahila Samuha	Namatar-3	Kharka	9846418233
187	Makwanpur	Mr. Krishna Bhadr Bista	Jagaran Krisak Samuha	Taha-7	Talloobanajang	9845127181
188	Makwanpur	Mr. Sano Bhai Khadka	Jagaran Aya Arjan Krisak Samuha	Taha-7	Dadagawun	9845124692
189	Makwanpur	Mr. Subarna Bista	Jagaran Krisak Samuha	Taha-7	Dadagawun	
190	Makwanpur	Mr. Suneshwor Pradhan	Jhamkeshwori Krishi samuha	Taha-1	Otharbazhar	9870223713
191	Makwanpur	Mr. Bisho Man Shrestha	Jhamkeshwori Krishi samuha	Taha-1	Otharbazhar	9845126341
192	Makwanpur	Mr. Mem Bhadr Ghalan	Bageshwori Krishi Samuha	Tistung-9	Jaad Dada	9841053957
193	Makwanpur	Mr. Partap Ghising	Kalibarahi Krishi Samuha	Mrkhu-7	Sajumakhu	9810399396
194	Makwanpur	Mr. Temba Thapa Magar	Mankaman Krisak Samuha	Khulekhani-6	Kitimi	9845132756
195	Makwanpur	Mr. Shiba Thapa	Kali Devi Krisak Samuha	Namatar-4	Baghmara	9845800418
196	Makwanpur	Mr. Bhakta Man Ting	Sundari Devi Krisak samuha	Agra-5	Dadabash	9845070995
197	Makwanpur	Mr. Indra Bdr. Magar	Bajra Barahi Kisak Samuha	Chitlang-9	Chitlang	9845804448
198	Makwanpur	Mr. Rajan Lal Shrestha	Dhuseni Krisak Samuha	Bhimphadi -5	Dhusene	9845299550
199	Makwanpur	Mr. Subesh Gholee	Aragami Krishi Samuha	Bhimphedi-8	Phaparbari	9845297185
200	Makwanpur	Mr. Roshan Ale	Jurikhet Krisak Samuha	Bhimphedi-8	Jurikhet	9811896277
201	Makwanpur	Mr. Bijya Lama	Shirjanshil Krisak Samuha	Bhaise-4	Chhuniya	9845382005
202	Makwanpur	Mr. Krishna Bhadr Muktang	Pargatishil Krishi Samuha	Tistung-5	Dadighar	9816243749
203	Makwanpur	Mr. Raju Lama Sangtang	Jaya Bhim Krishi Samuha	Tistung-9	Paro Bazar	9845239571
204	Makwanpur	Mr. Sanjya Sangtang	Kauseni Krisak Samuha	Tistung-9	Ajamar	9818581052
205	Makwanpur	Mr. Rabi Tamang	Mayuni Krisak Samuha	Makwanpur-9	Phafel	9803715727
206	Makwanpur	Mr. Rajan Upadhaya	Abiral Krisak Samuha	Thaha-6	Bhairathan	9845463559
207	Makwanpur	Mr. Pembha Saita	Mahila Krisak Samuha	Thaha-1	Phalung	9817214721
208	Makwanpur	Mr. Raju Lama	Bhaleshwor Krissak Samuha	Phakel-6	Makibari	9808270877
209	Makwanpur	Mr. Jaya Ram Shibakoti	Tribeni Krisak Samuha	Nmatar-1	Samchour	9845300342
210	Makwanpur	Mr. Tara Bhadr Basnet	Sirjanshil Krisak Samuha	Phalung-5	Phedidurali	9849932186
211	Makwanpur	Mr. Hari Krishan Kadka	Chundevi Krisak Samuha	Bhaise-4	Chuniya	9845134127
212	Makwanpur	Mr. Majeer Man Maharjan	Guri Ganesh Krishi Samuha	Thaha-14	Papung	9845149373
213	Makwanpur	Mr. Man Singh Ghalan	Shree Parbaha Chhemike Krisak Samuha	Raksing-4	Raksing-4	9811254935
214	Makwanpur	Mr. Cheet Nath Sangtang	Raksing Krisak Samuha	Raksing-8	Raksing-8	9845105648
215	Makwanpur	Mr. Bishan Parja	Neguratar Krisak Samuha	Raksing-8	Raksing-8	9845239967
216	Makwanpur	Mr. Shayam Maharjan	Akikrithi Krisak Samuha	Taha-13	Palththok	9845800342
217	Makwanpur	Mr. Nill Singh Thakuri	Unmante Krisak Samuha	Taha-14	Bhatuwal	9841797063
218	Makwanpur	Mr. Binak Gole	Shatkanya Devi Krisak Samuha	Gogane-1	Gogane	9845733015
219	Makwanpur	Ms. Relimaya Bal	Unnath Krisak Samuha	Thaha-9	Rupse	9849773458
220	Makwanpur	Mr. Ram Kumar Karki	Hariyali Temure Krisak Samuha	Namatar-5	Namaatar	9845072285
221	Makwanpur	Mr. Ramesh Rambha	Gakash Krisak Samuha	Kalikatar-3		
222	Makwanpur	Mr. Rajkumar Gonba	Bal Kanya Krisak Samuha	Agra-6	Agra	9814207871
223	Makwanpur	Mr. Raju Lama	Shree Bhaleshwor Krishi Samuha	Phafel-6	Makibari	9808270877
224	Makwanpur	Mr. Astaman Sangtang	Namuna Krisak Samuha	Tistung-6	Bagcheda	981123317
225	Ramechhap	Mr. Arjun Kumar Karki		Rashnal VDC-5	Chandidada	9849214754
226	Ramechhap	Mr. Laxmi Kumar Shrestha		Daduwa-4	Shurke	9843058972
227	Ramechhap	Mr. Shaugat Moktan		Daduwa-2	Nagthali	9808924100
228	Ramechhap	Mr. Ambar Bhadr Gurung		Duragauw-8	Duragauw	9844393399
229	Ramechhap	Mr. Min Bhadr Sunwar		Duragauw-4	Bhisabari	9744059737
230	Ramechhap	Mr. Bom Bhadr Tamang		Duragauw-5	Dadakatari	9844202600
231	Ramechhap	Mr. Arun Kumar Thapa	Pargatishil Tarkari Krishi Samuha	Gelu-3	Pashupati Gelu	9844413204
232	Ramechhap	Mr. Him Bhadr Sunwar		Shaippu-6	Dadatool	9741269584
233	Ramechhap	Mr. Punda Raj Poudyal		Shaippu-8	Arkhele	9741212644
234	Ramechhap	Mr. Hith Bahadr Khadka	Chetra Kunda Samuha	Namdhi-7	Khalsa	9841386495
235	Ramechhap	Mr. Gyan Bhadr Kadka	Parchhami Krishi Samuha	Namdhi-5	Namadi	9744013323
236	Ramechhap	Mr. Ambar Kumar Pendey		Gelu-1	Ambash Beshi	9841606691
237	Ramechhap	Mr. Balaram Khatri	Manakaman Krisak Samuha	Gelu-7	Gujar	9844199462
238	Ramechhap	Mr. Gophi Khatri		Makadum-5		9860276368
239	Ramechhap	Mr. Yuba Raj Thapa	Kamerekhola Tarkari Samuha	Makadhun-2	Bayaptol	9755027455
240	Ramechhap	Mr. Bhav Bhadr Thapa Magar	Naba Durga Bhavani Krishi Samuha	Dorambha-8	Kolmile	9860539675
241	Ramechhap	Mr. Rup Lal Tamang	kalidevi Tarkari Samuha	Dorambha-2	Man-Bangang	9849012026
242	Ramechhap	Mr. Karna Bhadr Moktan	Kosheli Krisak Samuha	Dorambha-5	Manegauw	9841189919
243	Ramechhap	Ms. Shanta Devi Poudyal	Nari Purush Krisak Samuha	Gothgauw-3	Gothgauw	9844074435
244	Ramechhap	Mr. Dawa Sangu Sherpa	Krishi Sahakari Sangtha	Dadwa-7	Dadua	9741112933
245	Ramechhap	Mr. Bhoj Bhadr Kadka	Vhulvule Tarkari Samuha	Namadi-7	Vhulvulee	9751043435

## Annex 8: List of trained minitiller recipients cont'd...

SN	District	Training Participant's (representing farmer-own, Farmer group, Cooperatives)	Minitiller Recipient's Farmer/ Farmer Group/ Cooperatives	Address (VDC/MCP-Ward No)	Village/Tole	Contact Number	
246	Ramechhap	Mr. Kumar Karki	Garib Nibaran Samuha	Chankhu-1	Mahadev-Tar	9844443445	
247	Ramechhap	Mr. Dambar Bhadr Tamang		Shaipu-8	Shaipu -Dade	9744064178	
248	Ramechhap	Mr. Durga Bhadr Thapa	Laligurash Krishi Samuha	Gothgauw-4	Thapatol	9861122076	
249	Ramechhap	Mr. Durga Bhadr Kathayat	Sabal Krisak Samuha	Gothgauw-2		9744050593	
250	Ramechhap	Mr. Nar Bhadr Thapa	Kalpeshor Krisak Samuha	Gothgauw-3		9844142034	
251	Ramechhap	Mr. Him Lal Shrestha	Gupteshwor Krishi Samuha	Gupteshwor-6		9054043114	
252	Ramechhap	Mr. Rana Bhadr Thapa	Laligurash Krishi Samuha	Namadi-1		9744091747	
253	Ramechhap	Mr. Purna Bhadr Shrestha		Gupteshwor-6		9164939076	
254	Ramechhap	Mr. Ganga Bhadr Ghimire	Shree Krishan Sana Krishna Cooper	Bethan -7		9843523308	
255	Ramechhap	Mr. Ram Bhadr Khadka		Bethan -2	Layaki	9741213126	
256	Ramechhap	Mr. Dhurba Kumar Khadka		Bethan -3	Layaki	9741000703	
257	Ramechhap	Mr. Durba Bhadr Kadka		Bethan -2	Bethan	9741000703	
258	Dolkha	Mr. Ram Krishna Karki		Phasku	Chulthe	9844117589	
259	Dolkha	Mr. Hari Krishna Karki		Phasku	Chulthe	9844309387	
260	Dolkha	Mr. Ram Bhadrur Tamang		Boach	Yarsha	9844061509	
261	Dolkha	Mr. Dhan Bhadrur Tamang		Boach	Hille	9840022375	
262	Dolkha	Mr. Parsuram Thapa			Bhimseen Municipality	9843827609	
263	Dolkha	Mr. Tika Bhadr Shrestha		Lakuridada-8	Kharidunga	9860464753	
264	Dolkha	Mr. Dhawa Dorje Tamang		Boach-5	Jeegan	9816876010	
265	Dolkha	Mr. Ramesh Karki	Radha Krishna Farmer Group	Melung-1	Setali	9845691544	
266	Dolkha	Mr. Ganga Prasad Ghimire	Bhagawoti Agicultural Group	Namadi-7	Bangawu	9744080090	
267	Dolkha	Ms. Muna Chaulagai	Aguwa Farmer Group		Bhimsen Municipality-5	9844065506	
268	Dolkha	Mr. Lekh Nath Bhandari		Melung-5		9844202299	
269	Dolkha	Mr. Bipin Ghimire		Namdhu-7	Khaniyachower	9844000490	
270	Dolkha	Mr. Baburam Bhandari		Melung-5		9844168492	
271	Dolkha	Mr. Bishnu Bahadr Karki		Pobati-1	Diyalakharka	9741195832	
272	Dolkha	Mr. Ram Prasad Shibakoti	Sampurna Agricultural Form	Pobati-5	Dhunge	9851049934	
273	Dolkha	Mr. Kami Tamang		Gurimudhi-4	Pokhari	9800845313	
274	Dolkha	Mr. Gopal Tamang		Gurimudhi-7	Putalidada	9819881136	
275	Dolkha	Mr. Bhubani Shankar Rimal		Namdhu-9		9841938143	
276	Dolkha	Mr. Om Bahadr Tamang	Hariyali Agricultural Cooperative Ltd.	Laluridada-9	Rolchower	9817862309	
277	Dolkha	Mr. Badri Kumar Shrestha	Mandada Agricultural Group		Bhimseen Municipality-1	9844059956	
278	Dolkha	Ms. Laxmi Tamang		Lakuridada-9	Ghigane	9741047197	
279	Dolkha	Ms. Kadka Kumari Gurung	Tribang Farmer Group	Phasku-6	Shreetar	9803841624	
280	Dolkha	Mr. Uddav Prasad Bhandari				9844277426	
281	Dolkha	Mr. Basu Dev Khadka	Kalapani Cooperative	Phasku-2		9813156523	
282	Dolkha	Mr. Kaji Oli	Shree Ganesh Multi cooperative Agr		Bhimsen Municipality-9	Oli Gahwa	9864000852
283	Dolkha	Mr. Shankar Kadka		Jaffe-8	Archale	9864002855	
284	Dolkha	Mr. Sagar Sapkota	Tamakoshi Agricultural Form	Kavre-8		9864004691	
285	Dolkha	Ms. Ganu Khadka		Jaffe-1	Phaider Gawu		
286	Dolkha	Mr. Jagat Shrestha		Lakuridada-8	Kharidunga	9849349173	
287	Dolkha	MR. Nain Bdr. Shrestha		Lakuridada-8	Kharidunga	9803677487	
288	Dolkha	Ms. Gita Sedhai		Sundrawoti-2	Kavredada	9803453301	
289	Dolkha	Mr. Balman Tamang		Gurimudri-3		9744029215	
290	Dolkha	Mr. Uddhav Dahal		Sundrawoti-5		9843813435	
291	Dolkha	Mr. Bishnu Kumar Karki		Katakuti-7		9841494881	
292	Dolkha	Mr. Buddha Lama		Katakuti-4		9844060917	
293	Dolkha	Mr. Prem Bhadr Khatri		Jeri-4		9851008530	
294	Dolkha	Mr. Balkrishna Oli		Pobati-6		9744027229	
295	Dolkha	Ms. Ganu Tamang		Phasku-9		9844061514	
296	Sindhupalchowk	Mr. Jhalk Bhadr Bhandari	Chulidada Cooperative Ltd.	Jethal-7	Tholochower		
297	Sindhupalchowk	Mr. Sarad Kumar Nakarmi	Shree Aeshelukharka Agricultural Fo	Balegawu-9	Aeshelukharka	9849093721	
298	Sindhupalchowk	Mr. Khil Prasad Acarya	Indrawoti Agricultural Cooperative Lt	Badhgawu-3	Bithlop	9860002338	
299	Sindhupalchowk	Mr. Dill Bhadr Tamang	Nweling Mahadev Women Multicoops	Nabalpur-7			
300	Sindhupalchowk	Mr. Chatra Bhadr Tamang	Beluwa Organic Form	Nabalpur-6	Gaurigawu	9860794153	
301	Sindhupalchowk	Mr. Prem Narayan Joshi	Jaleshwori Biological Agricultural Co	Jethal-9	Nigalee	9841031884	
302	Sindhupalchowk	Mr. Rudra Bahadr Katuwal	Suryakot Milk Production Co-operative Ltd.			9818563914	
303	Sindhupalchowk	Mr. Ramesh Karki	Dunibot Agricultural Group	Phulinkot-3	Dunibot-3	9849788625	
304	Sindhupalchowk	Mr. Man Bhadr Bhandari	Nabajyoti Farmers Group	Phulinkot-3		9741255645	
305	Sindhupalchowk	Mr. Cheet Nath Timilsee	Janagariti Women Group	Makha-6	Bhesedada	9849865072	
306	Sindhupalchowk	Mr. Rudra Bahadr Basnet	Basnet Tole Group	Phalati Basnet Tole-1	Bharabeshe	9814056594	
307	Sindhupalchowk	Mr. Uddhab Prasad Timilsena	Sahayogi Agricultural Group	Pangretar-1		9841901505	
308	Sindhupalchowk	Mr. Bir Bahadr Thapa		Batase-2	Tholobatase	9843573481	
309	Sindhupalchowk	Mr. Bhim Prasad Kafle		Batase-4		974125975 1	
310	Sindhupalchowk	Mr. Kiran Shrestha		Jaibere-6	Tari	9843001495	



## Annex 8: List of trained minitiller recipients cont'd...

SN	District	Training Participant's (representing farmer-own, Farmer group, Cooperatives)	Minitiller Recipient's Farmer/ Farmer Group/ Cooperatives	Address (VDC/MCP-Ward No)	Village/Tole	Contact Number
311	Sindhupalchowk	Mr. Cheet Nath Dulal		Melamchi-5	Katunjee	9813781611
312	Sindhupalchowk	Mr. Matika Parajuli	Juntara Small Agricultural cooperative	Makha-6	Chilinbeshi	9841901874
313	Sindhupalchowk	Mr. Santosh Nepal	Parjantantirik Agricultural Group	Phulingdada-7	Jamiree	9818739559
314	Sindhupalchowk	Mr. Narayan Shretha	Phulindada Multicooperative Cooptra	Phulingdada-7	Jamiree	9741012848
315	Sindhupalchowk	Mr. Shayam Lal Dahal	Hiradevi Agricultural cooperativeLtd	Melamchi-12	Shikarpur	9813410740
316	Sindhupalchowk	Mr. Ghalak Pd. Lamichane	Shree Helambhu Agricultural Cooper	Mahakal-1		9818235163
317	Sindhupalchowk	Mr. Prem Bahadur Pahari		Melamchi-10		9803811051
318	Sindhupalchowk	Mr. Gunraj Giri		Melamchi Municipality-15		9741099105
319	Sindhupalchowk	Mr. Ram Saran Mahara	Sikaridevi Cooperative Ltd	Melamchi Municipality-	Bhumestan	9741020094
320	Sindhupalchowk	Mr. Madhab Krishna Bhandari	Prarangik Agricultural Cooperative Lt	Phikkal-3	Phikkal	9843443949
321	Sindhupalchowk	Mr. Bhab Nath Joshi	Prarangik Agricultural Cooperative Lt	Phikkal-3	Churetar	9813583023
322	Sindhupalchowk	Mr. Ram Bahadur Bista	Kalika Saving & Credit Cooperative F	Melamchi-15, Jamere	Bistatol	9849794868
323	Sindhupalchowk	Mr. Diwakar Kuekel	Kalika Saving & Credit Cooperative F	Melamchi-15, Jamere	Jamere	9841198714
324	Sindhupalchowk	Mr. Durga Prasad Lamichane		Mahakal-1	Seera-9	9818475003
325	Sindhupalchowk	Mr. Bedha Nath Chapagain	Shree Milk producer Cooperative Ltd	Ichhuk -6	Mahakal	9818566351
326	Sindhupalchowk	Mr. Pitamber Pendit	Shree Annapurna Coffee Cooperative	Ichhuk	Gairebeshi-4	9808542380
327	Sindhupalchowk	Mr. Kumar Khatiwada	Helebhu Agricultural CooperativeLtd	Mahakal	Seera	9808393296
328	Sindhupalchowk	Mr. Beenu Das Shrestha	Jallbere Pargatisil Agricultural Group	Jallbir	Jallbirphadi	9849269561
329	Sindhupalchowk	Mr. Khilak Bhadur Karki	Anterup Tribeni Agricultural Cooperat	Thumpakhar-9	Anterup	9741067817
330	Sindhupalchowk	Mr. Sujan Acharya	Akarsan Agricultural Cooperative	Patashila-9	Thati	9818705067
331	Sindhupalchowk	Mr. Kul Prasad Ghorasine	Patakhila Agricultural cooperative Lt	Patashila-5	Parigauw	9861054364
332	Sindhupalchowk	Mr. Prem Prasad Bhattarai	Bhotshipa Saving & Credit Cooperati	Bhotshipa-1		9741371266
333	Sindhupalchowk	Mr. Balamang Bhattarai	Bhotshipa Saving & Credit Cooperati	Bhotshipa-8		9841943102
334	Sindhupalchowk	Mr. Bijesh Dhakal	Tripurasundari Saving & Credit Coop	Melamchi-9	DhakalKhare	9851065946
335	Sindhupalchowk	Mr. Kedar Nath Acharya	Shree Bachhaladevi Multicooperative	Chipapokhari-3	Chachowk	9741151421
336	Sindhupalchowk	Mr. Mhendra Kumar Ghising		Thulopakar-6		9841885401
337	Sindhupalchowk	Mr. Krishna Bhadur Kadka		Jalbire-2	Sangbote	9741158938
338	Sindhupalchowk	Ms. Pemagajme Lama	Buddhagaibik Biological Agricultural C	Ottarpur-2	Lamatol	9849622374
339	Sindhupalchowk	Mr. Tulshi Narayan Shakya	Himali Women saving Group	Ottarpur-8	Shikre	9849486342
340	Sindhupalchowk	Mr. Thala Bhadur Lama	Krishi Farmer Group	Barabese-4	Dharpa	9849015179
341	Sindhupalchowk	Mr. Sushil Karki		Pangretar-9	Kothe	9808732316
342	Sindhupalchowk	Mr. Top Bhadur shrestha	Himali Women Saving Group	Ottarpur-8	Sikree	9849486342
343	Sindhupalchowk	Mr. Khakendra Hamal Thakuri	Namuna Agricultural Group	Phulingkot-3	Kalleri	9851005957
344	Sindhupalchowk	Mr. Bijaya Bhandari	Sindhu Kuki Seed Production Coope	Thumpakhar-3	Simaldada	9841272922
345	Sindhupalchowk	Mr. Tika Raj Giri	Samudak Agricultural Cooperative	Duwachower-5	Gaurithok	9803613906
346	Sindhupalchowk	Mr. Amrit Maghi	Shree Tribeni Framer Group	Phulingkot-4	Nubese	9861212731
347	Sindhupalchowk	Mr. Nabaraj Shakya	Alachi Agricultural Group	Atarpu-8	Shikre	9843043001
348	Sindhupalchowk	Mr. Bikash Shakya	Alachi Agricultural Group	Atarpu-8	Shikre	9741388151
349	Sindhupalchowk	Mr. Pasang Wanju Lama	Tholopakhar Saving & Credit Cooper	Tholopakhar-3	Kakling	9741224703
350	Sindhupalchowk	Mr. Lakpa Tamang	Tholopakhar Agricultural Cooperative	Tholopakhar-3	Dadapakhar	9741157283
351	Sindhupalchowk	Mr. Dev Raj Giri	Karkale Agricultural Group	Jamire	Karkale	9801020671
352	Sindhupalchowk	Mr. Ramesh Bhadur Dungana	Karkale Agricultural Group	Batashe-4		9849574864
353	Sindhupalchowk	Mr. Bidur Giri	Dubachower Consumer Group	Dubachower	Kabre	9851231091
354	Sindhupalchowk	Ms. Komal Giri	Bishnu Laxmi Agricultural Cooperativ	Dubachower	Goraknath	9741011463
355	Sindhupalchowk	Mr. Bedh Prasad Poudyal	Namuna Coffee Cooperative Ltd.	Bharabese-7	Sanopalabi	9741012943
356	Sindhupalchowk	Mr. Chkra Bhadur Shai	Pokhare Small Agricultural Farmer G	Shipapokari-7	Rajeshwori Chock	9808253711
357	Sindhupalchowk	Mr. Deepak Birkaram Duwja	Uttam Marga agricultural Cooperative	Talanpang-7	Taar	
358	Sindhupalchowk	Ms. Apsara Dangal	Samudaya Agricultural Cooperative	Talanpang-7	Taar	9841144986
359	Sindhupalchowk	Mr. Purshottam Chalese	Shree Sindhumillan Agricultural Coog	Melamchi Municipality-5	Batashe	9843530240
360	Sindhupalchowk	Mr. Dundapani Chalese	Balamarang Agricultural Cooperative	Balamarang	Tershe	9741173864
361	Sindhupalchowk	Mr. Shambhu Prasad Bhattarai	Ganatantrik Milk Production Group	Melamchi Municipality-6	Shiranchock	9741024132
362	Sindhupalchowk	Mr. Jalak Bahadur Bhandari	Cullidada Farmer Group	Jethal-7	Tholochower	9823322612
363	Sindhupalchowk	Mr. Muktiram Dulal		Melamchi Municipality-6	Arukarka	9808863980
364	Sindhupalchowk	Mr. Krishna Prasad Tiwari		Melamchi Municipality-6	Sindhikhola	9849864646
365	Sindhupalchowk	Mr. Govinda Bahadur Batashe		Bharabese-6	Khaniphalashi	9851101584
366	Sindhupalchowk	Mr. Bhav Prasad Parajuli	Pargatishil Multi-Cooperative Group	Pangretar-1	Rafing	9849721489
367	Sindhupalchowk	Mr. Ram Prasad Koirala		Nabalpur-4	Takure	9843658948
368	Sindhupalchowk	Mr. Rabi Adhikari	Shree Nabalpur Cooperative Ltd.	Nabalpur-9	Bhotechour	9810372105

**Annex 9: Feed the Future Monitoring Summary (FtFMS) Indicators, Target and Actual- 2016 (EQRSP- C0109/USAID/Nepal)**

Indicator / Disaggregation	Deviation Narrative	Comment	Baseline Year	Baseline Value	2016		Deviation 2016
					Target	Actual	
Feed the Future - CSISA Seed Technology Program (PIO buy-in)							
EG.3.2-x14: (4.5.2-14) Number of vulnerable households benefiting directly from USG assistance	1. We have exceeded the target because we were able to use underspending to distribute additional items, including minitillers and attachments, PICS bags, and better-bet agronomy guides.	2. This indicator counts the number of beneficiary households that received support items such as storage cocoons (2,586); agricultural hand tools (2,688); minitillers and attachments (11,353); PICS bags (16,240); and better-bet agronomy guidance for maize and rice (11,839). Everyone is in the "New" category because this is the first (and only) year of indicator reporting for this earthquake recovery project. Also, it was agreed with the Mission that all of the recipient households of this project would meet the criteria for a vulnerable household.			33,150	44,706	35%
New/Continuing					33,150	44,706	35%
New					33,150	44,706	35%
Gendered Household Type					33,150	44,705	35%
Male and Female Adults (M&F)					16,575	21,899	32%
Adult Female no Adult Male (FNM)					6,630	5,335	-20%
Adult Male no Adult Female (MNF)					9,945	9,141	-8%
Disaggregates Not Available					0	8,330	
EG.3.2-x37: (4.5.2-37) Number of MSMEs, including farmers, receiving business development services from USG assisted sources	3. We have exceeded the target by 100 because the project had underspending and was able to distribute 100 additional minitillers during our no-cost extension period.	4. This indicator captures the number of minitillers distributed, as they are considered to be the center of a micro-enterprise, as groups or individuals can use them to provide custom-hire services for local farmers. All of these recipients received training from the project on how to use these machines as the basis of a custom-hire micro-enterprise, in addition to operation and maintenance training.			400	500	25%
Size of MSME					400	500	25%
Micro (1-10 employees)					400	500	25%
MSME Type					400	500	25%
Agricultural producer					400	500	25%
Sex of owner / producer					400	500	25%
Male					120	174	45%
Female					80	68	-15%
Joint					200	258	29%

**Annex 10: Feed the Future Monitoring Summary (FtFMS) Indicators, Target and Actual- 2016 (EQRSP- C0109/USAID/Nepal) cont'd**

Indicator / Disaggregation	Deviation Narrative	Comment	Baseline Year	Baseline Value	2016		Deviation 2016
					Target	Actual	
EG.3.2-1: (4.5.2-7) Number of individuals who have received USG-supported short-term agricultural sector productivity or food security training	5. It looks like the layout of this indicator has changed and all of our targets were imported into "Disaggregates not available". I can report that from the way our gender targets were originally set, the targets vs. actuals came out like this: MALE: target 400, actual 474; FEMALE: target 100, actual 40. The deviation narrative for this is: Minitiller trainings attracted a relatively higher proportion of males than females, so in addition to exceeding the target for males because we conducted additional trainings for minitiller repair mechanics during the no-cost extension period, we exceeded the target for males because of the relatively high proportion of males drawn to the trainings as compared to females. We missed the target for females because of the relative proportion of males to females in the mini-tiller trainings.	6. This indicator captures the number of individuals trained by the project on minitiller operation and maintenance and better-bet agronomy. Trainees included farmers, government participants such as District Agriculture Development Officers, mechanics and staff of local community-based organizations.			500	514	3%
Type of Individual					500	514	3%
Producers					400	368	-8%
Disaggregates Not Available					400	368	-8%
People in government					32	35	9%
Disaggregates Not Available					32	35	9%
People in private sector firms					40	81	103%
Disaggregates Not Available					40	81	103%
People in civil society					28	30	7%
Disaggregates Not Available					28	30	7%
EG.3.2-18: (4.5.2-2) Number of hectares of land under improved technologies or management practices with USG assistance	7. Deviation narrative for the relatively high number of males vs. females in the gender disaggregation category: We exceeded the target for this category because of the number of men who used minitillers to cultivate land, either by accessing the minitiller through their farmers' group or by procuring one as an individual.	8. This indicator counts the number of hectares tilled by 400 minitillers in 8 project districts. Average area tilled ranged from 1 to 2.5 ha by each minitiller. Average area tilled by district was: Solukhumbu 1 ha/tiller; Khotang & Ramechhap 1.5 ha/tiller; Dolakha 1.75 ha/tiller; Makwanpur & S'palchowk 2 ha/tiller; Nuwakot 2.25 ha/tiller; Kavre 2.5 ha/tiller.			700	761	9%
Technology type					700	761	9%
other					700	761	9%
Sex					700	761	9%
Male					180	227	26%
Female					120	123	3%
Joint					310	319	3%
Association-applied					90	92	2%
EG.3.2-20: (4.5.2-42) Number of for-profit private enterprises, producers organizations, water users associations, women's groups, trade and business associations and community-based organizations (CBOs) that applied improved organization-level technologies or management practices with USG assistance	9. We exceeded the target for this indicator because the second round of asset distributions we were able to conduct with our underspending allowed us to reach significantly more groups, and to train more mechanics. We had neglected to set the target for the number of mechanics trained, so this additional 'actual' has caused the total to be substantially more than the target.	10. This indicator captured our cooperatives that purchased minitillers and our minitiller mechanics, because those two groups are considered commercial in nature. Mechanics are considered as for profit pvt enterprises and cooperatives as CBOs.			80	222	178%
Type of organization					80	222	178%
For-profit private enterprises					0	81	
Community-based organizations (CBOs)					80	141	76%
New/Continuing					80	222	178%
New					80	222	178%