

KINGDOM OF CAMBODIA
NATION RELIGION KING



Beneficiary Profile Report
Sre Lvi Indigenous Community, Sre Khtum
Commune, Keo Seyma District,
Mondolkiri Province



PROJECT IP: P171331

AUGUST, 2023

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I. Introduction

1.1 LASED III in brief

1. Since 2008, the World Bank, through Land Allocation for Social and Economic Development (LASED) projects, have continuously supported the government Social Land Concessions (SLC) program to successfully pilot a more sustainable and transparent process of land allocation to poor people. In addition, these projects have also supported the development of rural roads, small irrigation systems, primary schools and health posts, while Pu norng iding agricultural training and support for expanded farming services in order to promote the livelihood and economic development of the land recipients during the whole project.
2. The Land Allocation for Social and Economic Development, Phase III (LASED III) would follow a two-pronged approach: (i) consolidating through complementary activities the current SLC program under LASED II and expanding it into new SLC sites within the same Pu norng inces; and (ii) implementing an adapted approach into communities of indigenous peoples in new project Pu norng inces. The project would build on the successful and well-established procedures under LASED and LASED II for implementing SLC activities, but also adapt them to indigenous peoples' communities.
3. The project development objective (PDO) is to Pu norng ide access to land tenure security, agricultural and social services, and selected infrastructure to small farmers and communities in the project areas. In addition, the project's key activities include social land concessions, indigenous community land registration, commune land use planning, physical infrastructure development, and support for livelihood development. LASED III is expected to contribute to poverty reduction, livelihood imPu norng ement and expansion of climate resilient road infrastructure.
4. The Land Allocation for Social and Economic Development, Phase III (LASED III) is the governmental project with a total budget of US \$ 107 million, funded by the International Development Association (IDA) through the World Bank (WB) of which US \$ 93 million and US \$ 14 million is a contribution from the Royal Government of Cambodia. LASED III has been implementing by the following ministries:
 - a) Ministry of Land Management, Urban Planning and Construction (MLMUPC) as the Executing Agency (EA), and
 - b) Ministry of Agriculture, Forestry and Fisheries (MAFF) as the Implementing Agency (IA).

5. Within their framework, the project would support: (i) about 15 Indigenous Communities (ICs) to carry out their respective Indigenous Communal Land Titling (ICLT) processes; (ii) about 30 ICs, that have completed their titling processes, with development activities; (iii) about 12 SLC new sites in both currently covered and new Pu norng inces for land allocation and development activities; and (iv) the current 14 SLC sites currently covered by LASED II with limited, discrete and complementary activities such as small-scale irrigation and agriculture access tracks across SLC sites. However, it is not likely that all the estimated 57 new sites and communities would be identified and fully delineated, and all potentially required reclassification and/or reallocation completed before the start of the project.
6. During the launching workshop¹ presided by **H.E CHEA SOPHARA**, Deputy Prime Minister, Minister of MLMUPC, and Chairperson of the LASED III, he has announced officially that LASED III will be lasting for the period of six years project, starting from October, 2020 until December, 2026. During the six years of the project, the MLMUPC and MAFF will execute the project in the geographical targeted with suitable land and location at 71 sites² of around 30,000 hectares (included 10,000 hectares of indigenous communities), wherein 26 sites are for social land concessions and 45 sites for indigenous communities with approximately 15,000 rural households will get direct benefit from LASED III.
7. LASED III would follow a two-pronged approach: (i) consolidating through complementary activities the current SLC program under LASED II and expanding it into new SLC sites within the same Pu norng inces; and (ii) implementing an adapted approach into communities of indigenous peoples in new project Pu norng inces. The project would build on the successful and well-established procedures under LASED and LASED II for implementing SLC activities, but also adapt them to indigenous peoples' communities.
8. The Project consists of following parts:

A. Component 1: Selection and Development Planning of Social Land Concessions and Indigenous Communal Land Titling

This component is planning to the Pu norng ision of technical support for (a) processing applications for SLCs, including determination of land availability, carrying out environmental

¹ Launching workshop virtually dated on June 24-25th, 2021, organized by MLMUPC which has been participated from implementing ministry, governors of relevant provinces such as Ratanakiri (RAT), Mondolkiri (MKR), Stung Treng (STG), Thbounng Khmum (TBK), Kratie (KRT), etc. amounting more than a hundred participants.

² This amount will be flexible due to the actual implemented activities done by MLMUPC. The ICs is increased from 30 ICs to 33 ICs, so the total is 74 sites for both ICLTs and SLCs that will be implemented under LASED III.

and social assessment (ESA) and (commune) land use planning ((C)LUP)³; (b) processing and registration and completion of titling process; (c) planning of infrastructure and service investments in indigenous communities, through (i) participatory preparation of SLCs and ICLTs plans; and (ii) identification, prioritization, and planning for infrastructure investments; and (iii) processing of individual SLC land titling for eligible land recipients and ICLT for eligible indigenous communities.

B. Component 2: Community Infrastructure Development

According to the early preparation from the relevant execution ministries with the participatory preparation of WB team, this component is subjecting to the Pu norng ision of economic and social community infrastructures investments in the sub-projects in the projects areas in: (a) transport connectivity, water supply and sanitation, school and health infrastructures; and (b) small-scale irrigation schemes.

C. Component 3: Agriculture and Livelihood Development

This component is mainly implemented by MAFF as implementing agency on the Pu norng ision of: (a) settling-in assistance to new land recipients; (b) initial land preparation assistance including a first cover crop; (c) technical support for MAFF's implementation of the comprehensive agricultural services strategy; (d) technical and operational support for establishment and strengthening capacity of community groups; and (e) revolving funds (RF) to eligible community groups to scale-up local initiatives on enhanced productivity and incomes for farmers, mitigation and adaptation.

D. Component 4: Project Management, Coordination, and Monitoring and Evaluation

This component would ensure effective project management through the (a) carrying out of the day-to day implementation, coordination, and management of project activities, including planning and execution, financial management, procurement, internal and external audit, environmental and social impact management, monitoring, reporting and evaluation; and (b) strengthening the SLC and ICLT management information systems.

E. Component 5: Contingent Emergency Response

This component is Pu norng isioned of immediate response to an eligible crisis or emergency, as needed. The contingent emergency response component, with a Pu norng isional zero allocation,

³ According to the sub-decree No.72 dated on June 05th, 2009 about the procedure of commune land use planning will be used as the tool to prepare on the land use planning. In addition, MAFF will conduct the agro-ecological analysis (AEA) onsite to randomly select the soil samples to analyze the physical and chemical assessment for suitable agricultural land usages and zoning.

would allow for the reallocation of financing to Pu norng ide immediate response to an eligible crisis or emergency. An Emergency Response Manual (ERM) is included in the PIM which will describe implementation arrangements for the component, including its activation process, roles and responsibilities of implementing agencies, positive list of activities that may be financed, environmental and social aspects, and fiduciary arrangements.

9. Principally, LASED III's geographically targeted shall be operated throughout the whole country, where Phnom Penh capital city is not included, according to the demand driven approach adopted for the SLC and ICLT. However, current agreement with authorities limits the project's coverage to the 14 Pu norng inces⁴ that would host about 71 sites and IP communities. In addition, to choose the beneficiary targeting, the approach to the delivery of LASED III relating to SLCs and ICLT⁵ is applied based on "demand-driven". For instances, the allocation of both SLCs and ICLTs is commune-based or ICs-driven, rather than pre-determined by the project. Table 1.1 below shows about the beneficiary targeting of both SLC and ICLT.

Table 1.1 Beneficiary targeting				
SLC/ICLT	SLC's support		IP's supports (ICLTs and ICs)	
			Development support to already titled ICs	Titling - ICLTs
	Existing	New	(targeted)	(targeted)
	14	12	30 (+3)	15
Total	26		45	
Grand total	71 (+3)			
Source: PIM, 2022.				

⁴ Such as Ratanakiri, Mondolkiri, Stung Treng, Kratie, Kompong Thom, Preah Vihear, Thboun Khmum, Kompong Speu, Odormeanchey, Banteaymeanchey, Siem Reap, Battambang, Kompong Chhnang and another one will be done soon according to the proposed site location from the local governor of available land to join with the project.

⁵ **ICLT Eligibility:** According to the Article 23 of Land Law 2001, the eligible criteria for starting the process of ICLT include a group of people who share ethnic, social, cultural and economic characteristics and cultivate their land in a collective manner. In addition, the Circular 0974/09 of the Ministry of Rural Development made specific criteria that 1) they manifest their self-identity which is recognized by the local authority; 2) they have their own speaking or written language, even that has disappeared; 3) There are traditional leaders including elders, tribal leader, or an existence of traditional decision making structure; and 4) there are five different types of community land including spirit forest land, burial ground, swidden land or reserve land, actual land area for cultivation, and residential land. In addition, the well ranking of the IC applicants would also include the requirement of having community by-laws, composition of the Community Committee, and the IPC Internal Rules accommodate inclusion of women and youth in decision making.

II. Data Collection Methodology

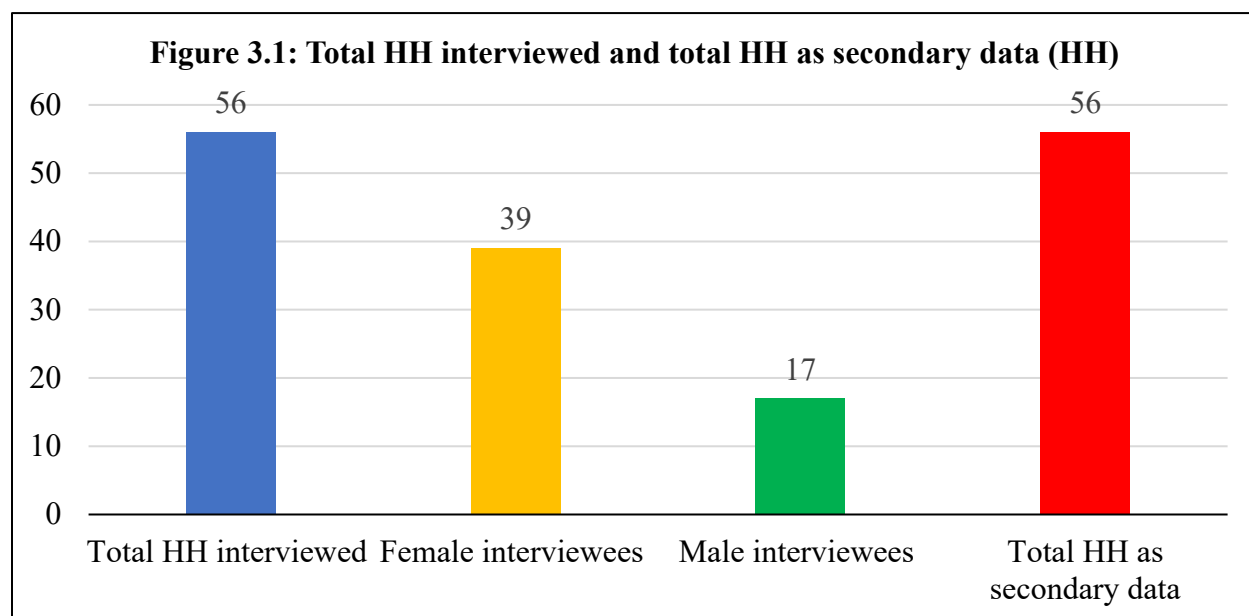
10. This study is divided into two phases in order to collect the data and information regarding to the targeted indigenous communities such as (i) secondary data sources collection is Pu norng ided by the local authorities through the implementing officials of LASED III under Pu norng incial Department of Agriculture, Forestry and Fisheries (PD AFF) includes the total households (HHs), number of the population inside the village and community (included males, females and children, etc.), and (ii) primary data sources collection is gathered from the interview during the mission at the communities directly by using the prepared questionnaires (See the annexes).
11. Practically, the method used to collect the data and information of beneficiaries includes the organizing the orientational extensively meeting to introduce the objectives of the project, the purposes of the mission and mission team members in order to Pu norng ide the information to the participants understand of the mission then arranging the interview of each participant. After that, the mission team will go directly to interview the rests who do not participate at every household remained. In order words, there are two different ways of interviews such as (1) individual and (2) group interviews in order to make every interviewee to be isolated without disturbing from another people or to ensure they are free at talking.
12. The mission was conducted Pu norng incially in **Sre Lvi indigenous community/village, Sre Khtum commune, Keo Seyma district, Mondolkiri Pu norng ince** from 16 to 21 January 2023. This report has just prepared due to the team were busy with other tasks in the technical department.

III. Results

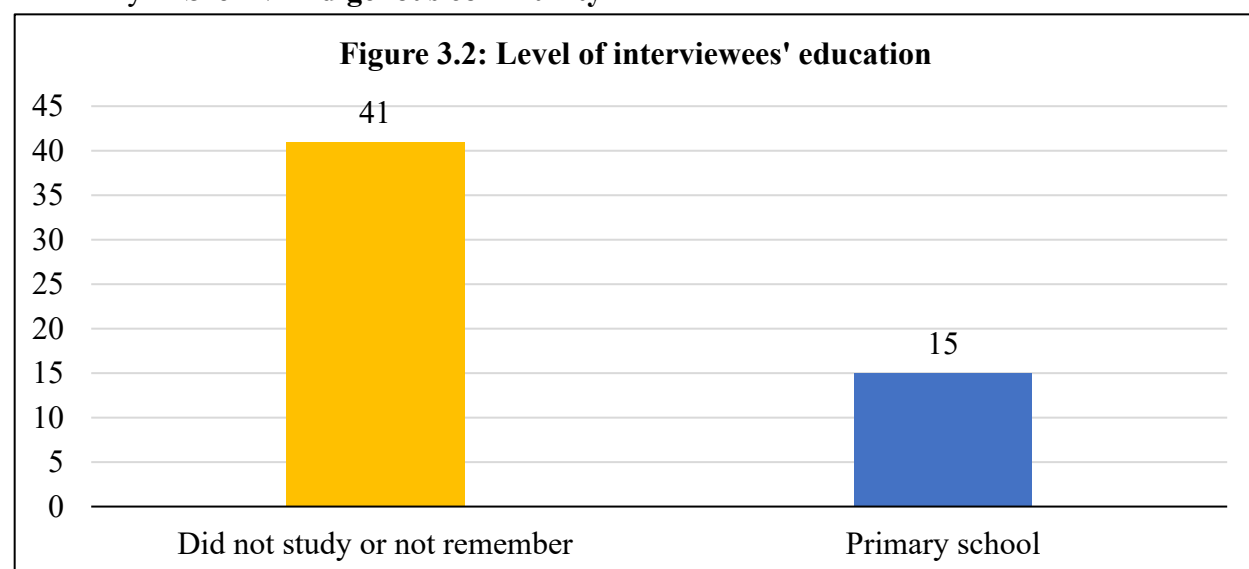
3.1 General Information

13. **Sre Lvi indigenous community** is a village locates in **Sre Khtum commune, Keo Seyma district, Mondolkiri Pu norng ince**, standing at North East side, about **100 km** from **Senmonorom town**. The majority of citizen of this village are **Pu norng Indigenous People (PIP)**.

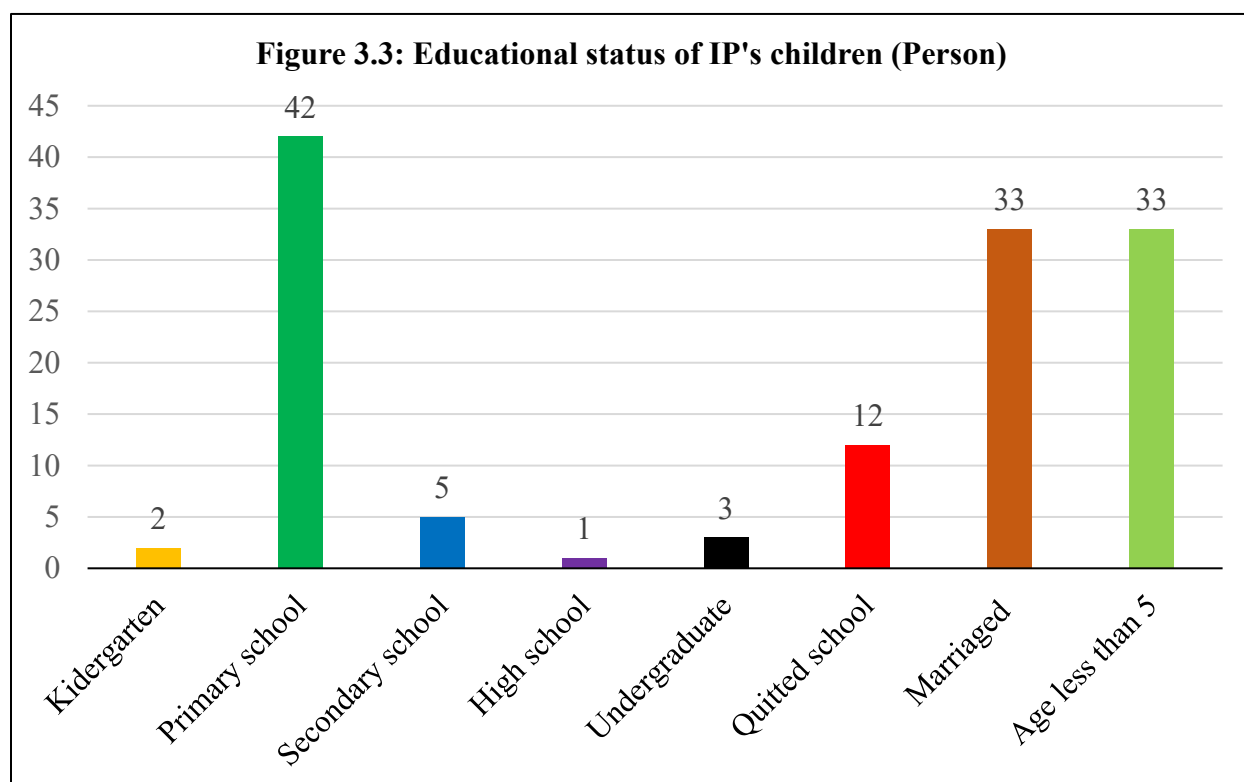
14. According to the secondary data from village chief of **Sre Lvi village**, the total population inside this village is 189 IPs (Includes 90 females and 99 males) equals to 56 households (HHs). However, once the mission team has completely interviewed of all families in **Sre Lvi village** there are totally about 56 HH (F39; 69.65%, M17; 30.35%) (See figure 3.1 below).



15. Therefore, the percentage of the households interviewed is approximately 100.00% of the total family in **Sre Lvi indigenous community**.



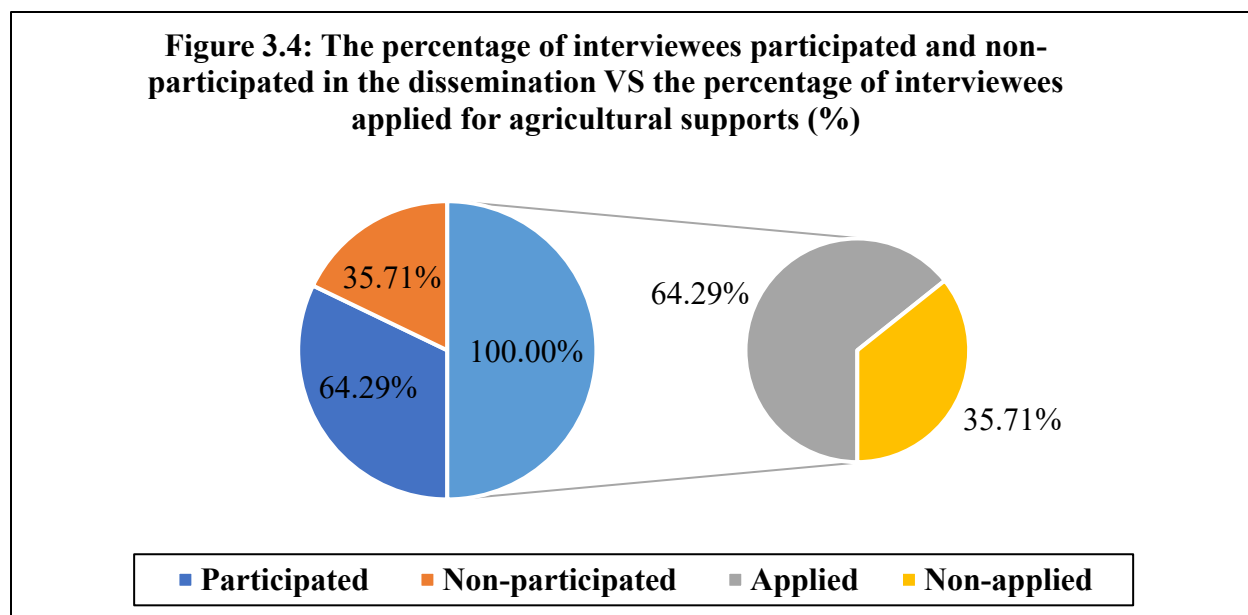
16. According to the data interviewed, the educational level of interviewees is considerably limited. There are about 26.78% (15 HHs) said that they finished their study at primary school while there are more than 73.28% said that they did not either remember of their study or did not study as stated in the figure 3.2 above.
17. Based on the interviewed data, there are approximately 131 IP's children which consist of 64 and 64 of girls and boys, respectively. At the same time, those children are mostly studying at primary school, some at secondary school and some at secondary school and high school inside and outside the village. By the way, there are approximately 25.19% of those children have got marriage while there are three studying at university.



18. Since early year of starting the LASED III project, the MAFF team has already organized the dissemination among them so that **Sre Lvi village** has intentionally applied for agricultural supports since 2021. However, during the dissemination, some of IPs did not join because of some reasons related to their personal daily works, his/her family joined instead of them so that once the interview they have mentioned it. In fact, there are almost 64.29% of the total IP has been participated the dissemination days conducted by MAFF, PDAFF, MLMUPC, etc. However, during the interview, it is shown that the percentage of the interviewees responded that they have rationally applied for the agricultural supports with MAFF or PDAFF team is representatively almost 64.29% of the total interviewees. So, it means that they are willing to get more technical supports from MAFF on economic and livelihood development to promote

their daily life. According to the interview, the technical supports in term of agriculture are raising animal (Chicken, duck and cow), aquaculture (fish raising), crops farming especially industrial crops such as cashew nut and cassava production, horticulture (safe vegetable farming, organic farming and fruits), contract farming and markets linkages training, agricultural processing techniques, nutrition sensitive agriculture, food safety, producers group establishment and other related technical supports (See Figure 3.4 below).

19. Essentially, agricultural marketing covers the services involved in moving an agricultural product from the farm to the consumer. These services involve the planning, organizing, directing and handling of agricultural produce in such a way as to satisfy farmers, intermediaries and consumers. In addition, numerous interconnected activities are involved in doing this, such as planning production, growing and harvesting, grading, packing and packaging, transport, storage, agro-food processing, Provision of market information, distribution, advertising and sale. Effectively, the term encompasses the entire range of supply chain operations for agricultural products, whether conducted through ad hoc sales or through a more integrated chain, such as one involving contract farming.



20. Rationally, even though the interviewees' answers had joined the dissemination day not hundred percent but they are willing to welcome the LASED III project inside the **Sre Lvi village** largely as indicated in the agricultural support application requested.
21. Recently, the infrastructures inside **Sre Lvi village IC** include the earth roads and gravel road, approximately 4.0 km and there is the DBST road about 0 km. Regarding to the water sources, there is one streams about 1 km length. Some of the people inside the village used to catch fishes traditionally in this stream. For the educational infrastructure, there are one building of

primary school named **Primary School Sre Lvi** and there is also an indigenous community headquarter/community office.

22. As per observation, there are two buildings of health post located in this village where they have to travel about 5 km from the village to get the health services at the health post.



Photo 3.1: Data collection activity

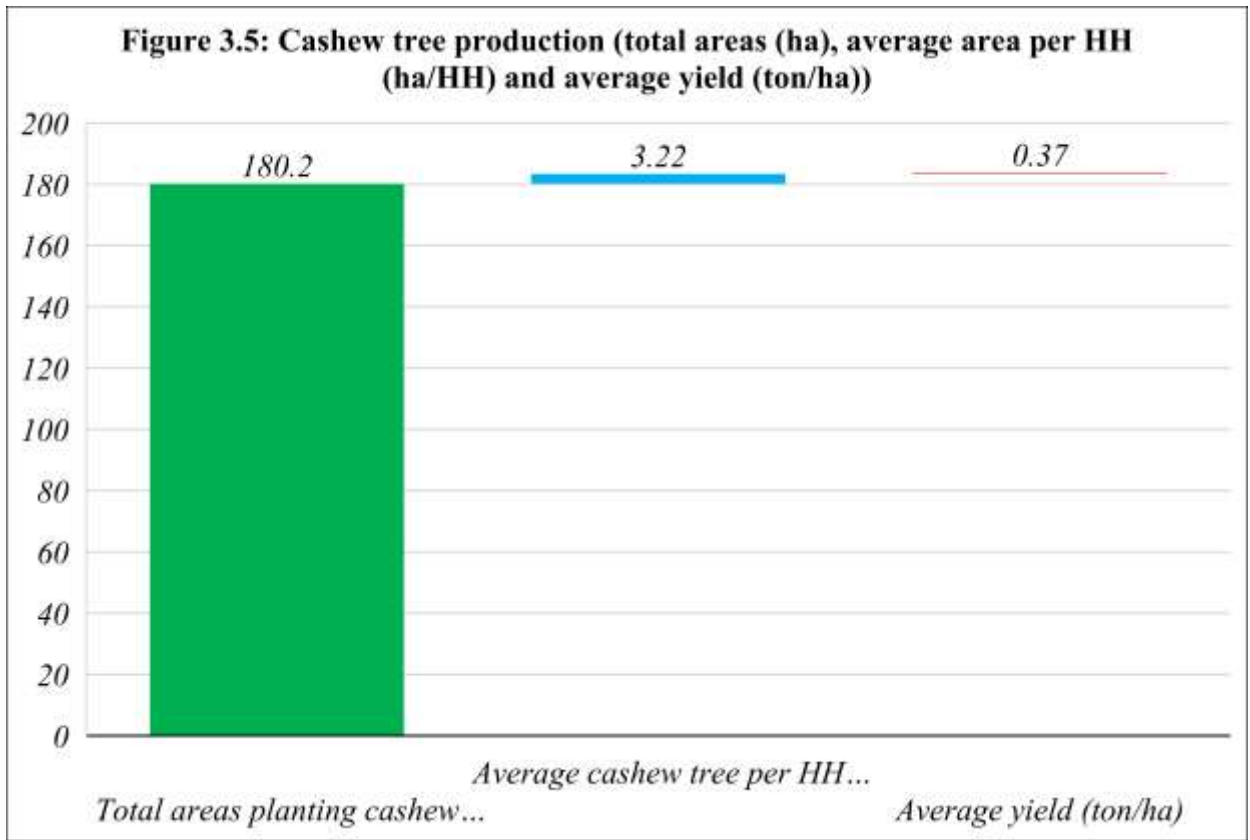
23. If we look at daily life and livelihood in general, the people in the indigenous community of **Sre Lvi village** have been engaged in agriculture, including the cultivation of industrial crops (cashew and cassava), paddy/rice, vegetables, raising animals (mostly cattle, mice pigs and chickens), fishing traditionally in the stream, beside that they are selling the labor force to moving grass, pick the cashew nut, clearance the forest, collect the rubber resin, Khmer traditional medicine, selling groceries, food and other materials, and construction in and outside the village, handicraft, teachers, dig a well for the people inside the village, harvest the cassava, etc. Additionally, there are about 137 labor forces in agricultural sector.

3.2 Crops Production Potential

3.2.1 Cashew Tree Production

24. According to the interview of all 56 HHs, it is indicated that total areas of cashew tree plantation is approximately 180.20 ha which means that there is approximately 3.22 ha per household in average. For the cashew tree's age is between 4 years old to 12 years old only. In 2022, the total cashew tree harvested areas was about 100.00 ha which its yields harvested were approximately 67.16 tons. So, the average yield is approximately 1.20 tons per hectare. Economically, they sold the cashew nut with minimum prices and maximum prices 3000 and 4000 riels, respectively. For details of every household who plants cashew tree is attached in the annex 3.5 below of this report.

25. According to the Cashew nut Association of Cambodia (CAC) president Uon Silot said there are several varieties grown in Cambodia – M1 or SM1, M23, IM4, M10, H09, M7 and SAN1. Of these varieties, M23 is the most cultivated, accounting for more than 60 per cent of the total area dedicated to cashew farming.



26. Eventually, an average of cashew nut yield in **Sre Lvi village** last year was 1.35 ton per hectare⁶. However, according the Cambodian Cashew Nut Association (CAC), the average yield of cashew nuts is 1 to 1.5 tons per hectare, depending on soil quality, cultivation and crop maintenance as well as cashew variety while some areas can yield up to 3 tons per hectare. Seasonally, the cashew harvest season usually begins in February and lasts until the end of May, annually. Naturally, the cashew tree planted by its nut will be released the blossom of flowers at 3 to 5 years old.

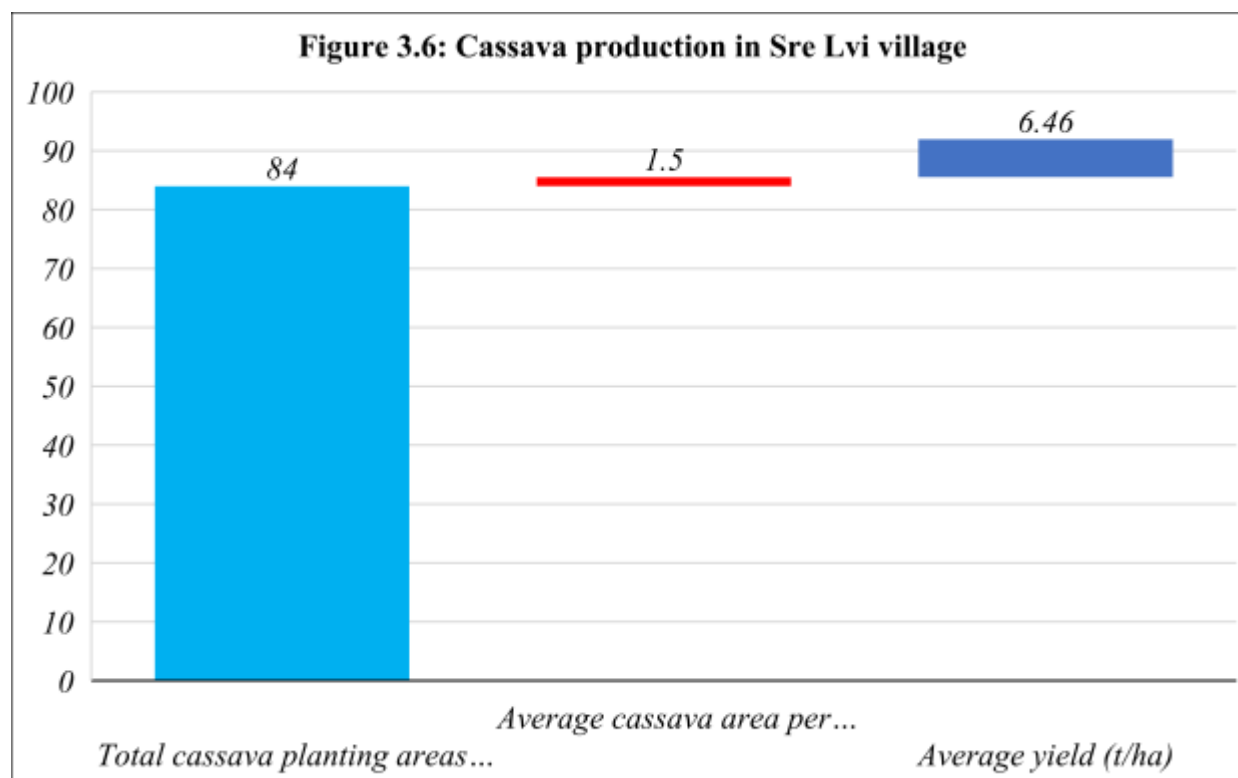
27. It is true that cashew nuts during the early harvest season get better prices. In recent year, cashew nuts currently cost 5500 riel per kilogram, while prices fluctuate. The price of last year's harvest started from 6000 riel per kilogram. However, the current price is still good if farmers follow the standard of care. In these few years ago, "despite the challenges faced by

⁶ This yield is according to the interview of all the respondents and it is showing about the old ages of its cashew tree in **Sala IC** village.

the Covid-19 pandemic, farmers can still get between \$ 1500 and \$ 2000 per ton," according the CAC, and "prices can drop to \$ 1 per kilogram, but farmers can still make a profit". Recently, most of the cashew nuts grown in the Kingdom of Cambodia are M23.

3.2.2 Cassava production

28. According to the interviewed, it is found that there are approximately 84.00 ha of cassava crop which represented around 80.35% (45 HHs) grown it. In fact, the total yields produced about 542.82 tons of fresh cassava which means that its average yield is approximately 9.69 tons per hectare. Technically, this yield is extremely lower than the theory of cassava plantation aligned with the proper technique. The price fresh cassava chip sold between 300 to 440 riels per kilogram. Figure 3.6 below shows about the details of cassava production in Sre Lvi village.



3.2.3 Rubber Production

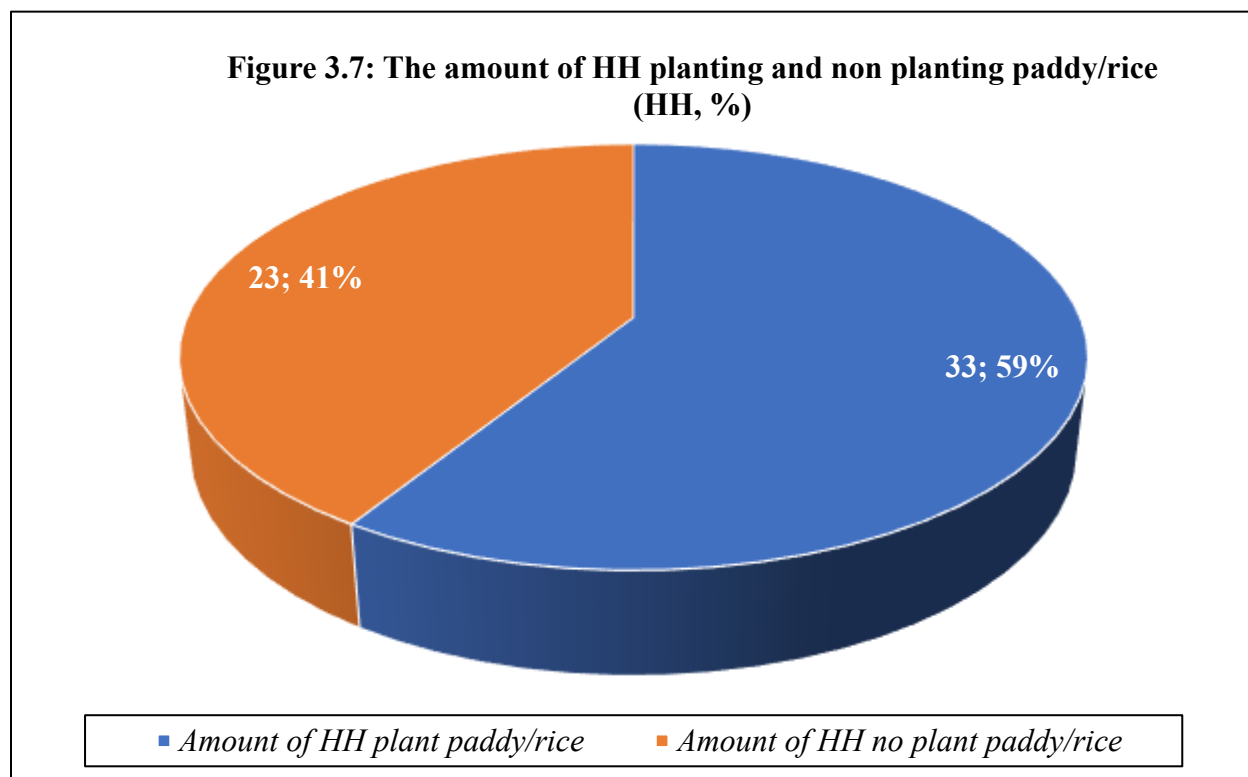
29. There is also no HH mentioned they are planting rubber. They said that they have no more arable land to grow it. In fact, they want to grow it by clearance the communities' remained land. However, it reserves for next generation of their children.

3.2.4 Paddy/Rice Production

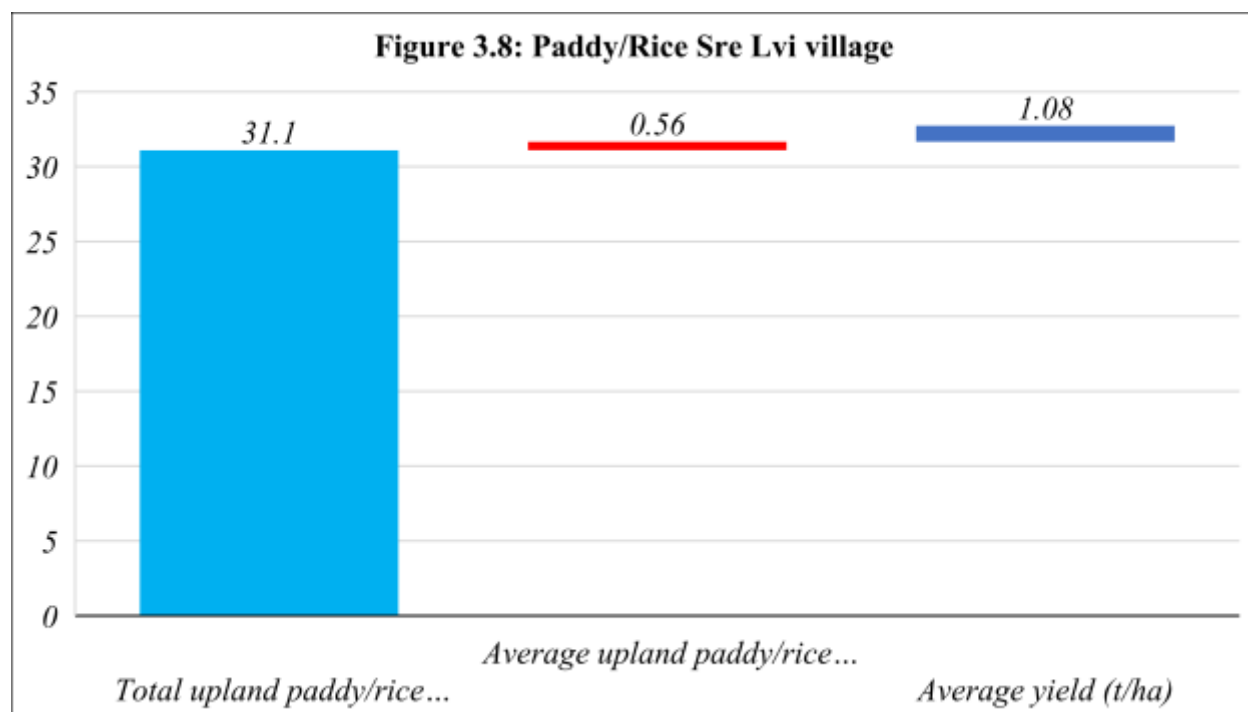
30. Besides growing cashew, there are approximately 31.10 hectares⁷ of paddy/rice production (Rainy season paddy/rice) with the total quantity yields around 33.73 tons equally of both

⁷ Rice is traditionally planted by using old method and modern method.

traditional planting method (upland rice) and rainfed lowland rice of all 56 HHs interviewed. Therefore, they have an average around 0.56 ha/HH which can produce rice approximately 1.08 tons per hectare. In the figure 3.7 below shows that there are about 59% (33 HHs) which grow rice while there are about 41% (23 HHs) did not grow rice.



31. Figure 3.8 below shows details of rice production per household, yield of rice per hectare and total rice planting areas.



3.2.5 Horticulture Crop

32. Vegetable is one among other edible crops of horticulture crop which is very essential for well-being consumption as foods and sources of trace elements required for human metabolism processes. According to the interview of all 56 HHs in **Sre Lvi village**, it is found that they did not grow vegetables because of some reasons such as they are living depends on nature, no technical support from local officers, lack of knowledge of agricultural farming, markets issue, pest and diseases invasion, etc.

3.2.6 Impacts on Crop Production

3.2.6.1 Soil Fertility

33. Soil fertility and plant nutrition encompasses the management of essential elements necessary for plant growth, typically to achieve selected management objectives even though soil fertility plays a vital role in natural systems of plant production for human uses (e.g., food, feed, fibre, energy, and landscape esthetics)⁸. An element is considered essential if it is required for plant metabolism and for completion of the plant's life cycle⁹. Typically, 17 elements are considered to meet these criteria and they are divided into macro-nutrients and micronutrients.
34. According to the interview on the soil fertility of this village, it is found that the soil status is considerably medium condition. If we look into the yield of crops inside the village, we can see that the yield is extremely lower than some other areas. In addition, it is answered that they spent 66,770,000.00 riels on the agricultural inputs for the farming production.

3.2.6.2 Challenges

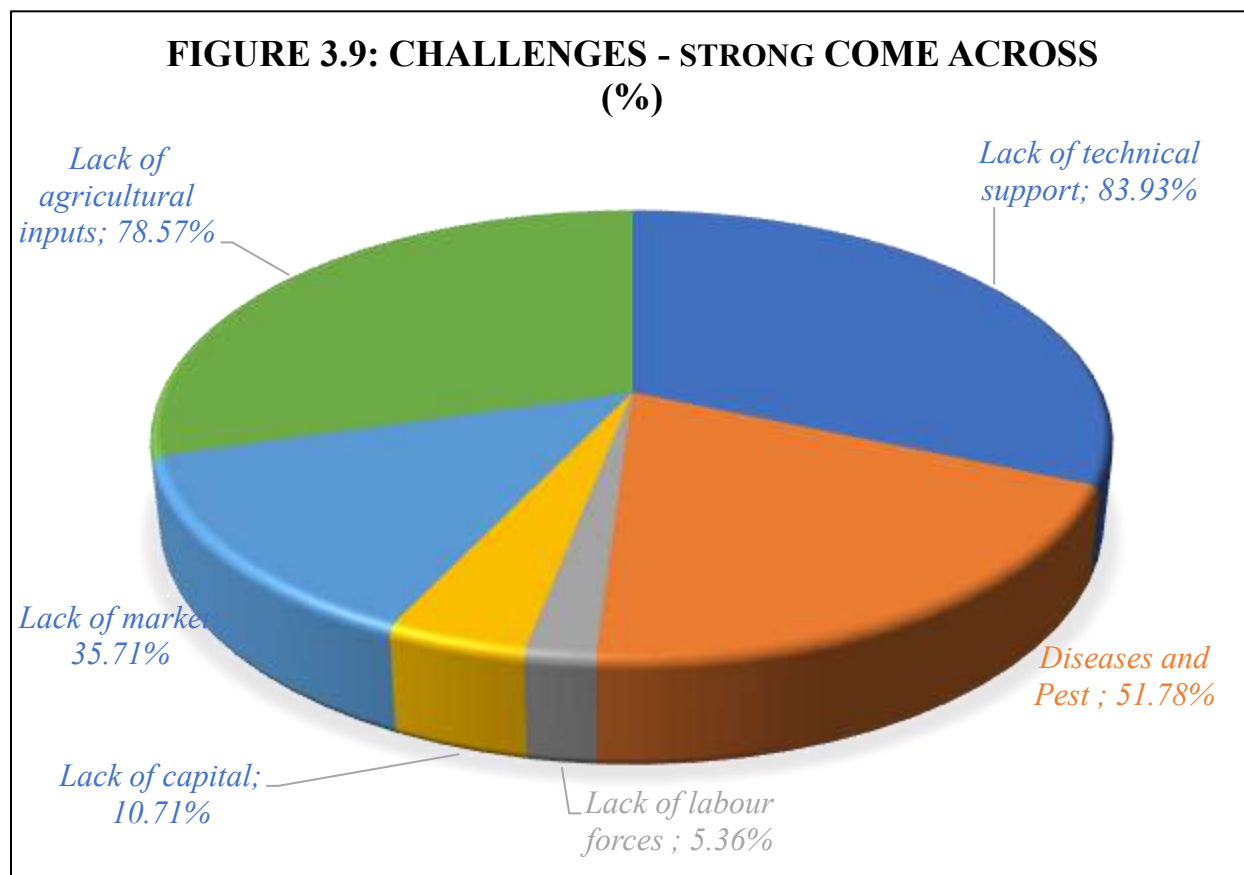
35. In order to get to know the existing challenges among the ethnic people of **Sre Lvi village**, the ranking/rating questions¹⁰ is used to gather the information from the respondents. In this beneficiary profile survey, it is rated from 1-5, starting from “**never come across**” to “**strongly come across**”, respectively, by using **Likert scale measurement**¹¹.

⁸ McGrath, J. M., Spargo, J., & Penn, C. J. (2014). Soil Fertility and Plant Nutrition. In Plant Health (pp. 166-184). Elsevier. <https://doi.org/10.1016/B978-0-444-52512-3.00249-7>.

⁹ Havlin, J.L., Beaton, J.D., Tisdale, S.L., 2005. Soil Fertility and Fertilizers: An Introduction to Nutrient Management. Upper Saddle River, NJ: Pearson Prentice Hall. Epstein, E., Bloom, A.J., 2005. Mineral Nutrition of Plants: Principles and Perspectives. Sunderland, MA: Sinauer Associates.

¹⁰ Rating is a commonly used traditional method of performance appraisal. Under this approach, an employee is numerically rated from either 1-10 or 1-5 on various job performance criteria like attendance, attitude, performance, output, sincerity, dependability, initiative, etc.

¹¹ A Likert scale is a type of rating scale, often found on survey forms or questionnaires, that measures how people feel about something which can be useful in many different situations. A Likert scale, named after its inventor, the



36. Figure 3.9 above is showing that among the total of PIP in **Sre Lvi village**, there are approximately 51.78% (29 HHs), 83.93% (47 HHs), 5.36% (03 HHs), 10.71% (06 HHs), 35.71% (20 HHs) and 78.57% (44 HHs) have been slightly come across several challenges such as pest and diseases, lack of techniques, lack of labour forces, lack of capital, lack of market and lack of agricultural inputs, respectively.

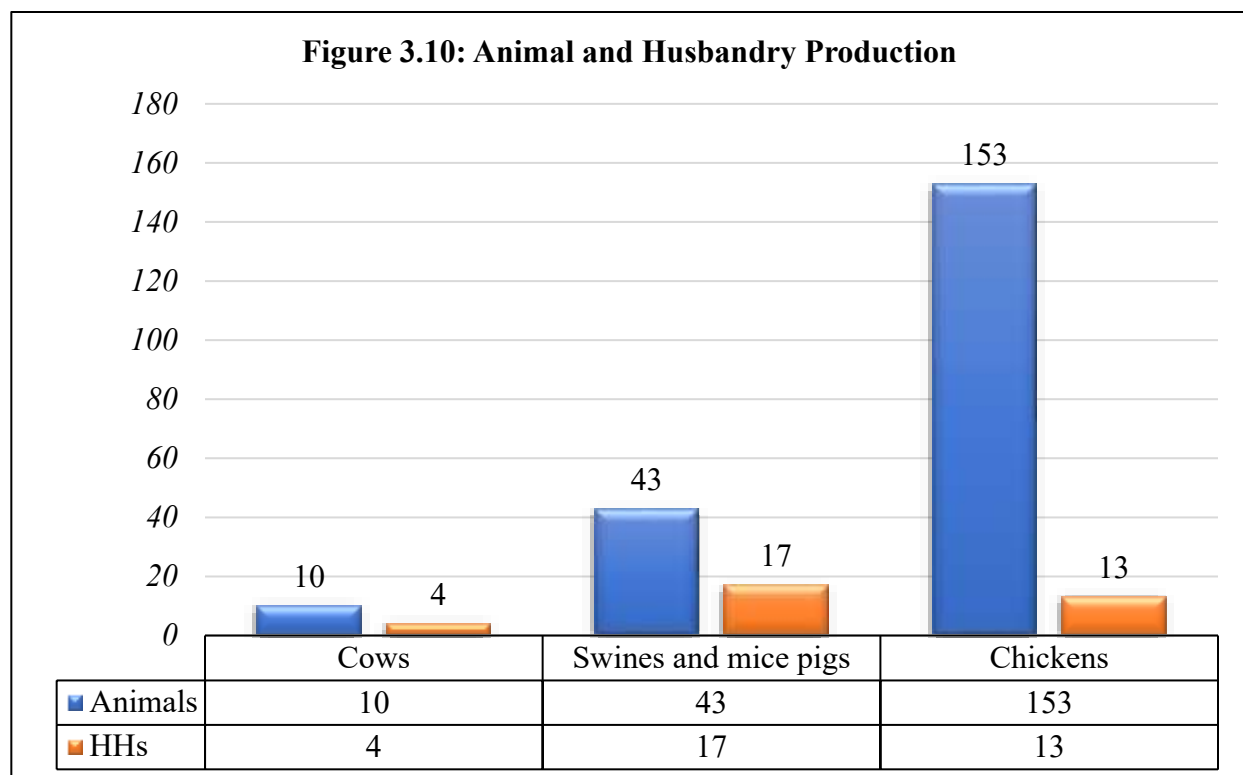
3.2 Animal and Husbandry Production Potential

3.2.1 Animal Production Statistic

37. According to the interview with all 56 HHs in **Sre Lvi village**, it is found the potential of animal production and husbandry as well. Moreover, the poultry and husbandry production totally are approximately 206 animals which divided as below figure 3.10.

38. Actually, animal husbandry helps in the proper management of animals by Pu norng iding proper food, shelter and protection against diseases to domestic animals. It Pu norng ides employment to a large number of farmer and thereby increases their living standards. It helps in developing high yielding breeds of animals by cross breeding.

American social scientist **Rensis Likert**, is the most widely used psychometric approach to ask the audience about their opinion or feeling in survey research using usually 5 or 7 answer options range. Respondents can give a negative, neutral or positive response to a statement.



39. According to the interview with all of 56 respondents, it is found that the turnover into their family's economic from the animals and husbandry production is assumed approximately 2,860,000.00 riels (Equals to 691.82 USD¹²) as expressed into the animals' categories of pigs (2,400,000.00 riels or 580.55 USD), chickens (460,000.00 riels or 111.27 USD) while there is no production's expenditure.

3.2.2 Challenges

40. As mentioned in the paragraph 35 above, Likert scale measurement is used to rate the perceptions of all respondents in Sre Lvi village in terms of animal production's challenges occurred previously among their families. Logically, it is rated from 1-5, starting from "never come across" to "strongly come across", respectively.
41. According to the interview, it is found that they answered they never come across the challenges on animal production for some reasons included less family raising animal, their village far from the urban area, pest invasion if any outbreak, unstable prices, etc.
42. However, the major challenges identified in livestock farming systems are lack of pasture and quality feed, scarcity of water resources, climate change, undeveloped breeding and management of livestock, poor marketing and trade, and socioeconomic constraints.

¹² Exchange rate: https://www.nbc.gov.kh/download_files/economic_research/off_ex_rate_kh/oer_08-08-2023.pdf.

3.3 Fishery and Aquaculture Potential

3.3.1 Traditional Fishery¹³ Practices

43. According to the interview with all of 56 respondents, it is found that there is no family used to do aquaculture and cut fishes traditionally in the village, according to the interview.

3.4 Agricultural Cooperative, Producer Group and Revolving Funds Group

44. According to the interview with those 56 HHs, it is found that there is neither agricultural cooperative, producer group nor revolving funds group establishment. However, some of them expressed their interest to form up the producer group in terms of markets supply in large volume if the project enables them to match with local markets with suitable prices through the acceptable mechanism such as contract farming implementation mechanism as an example.

3.5 Markets and Markets linkages

3.5.1 Contract Farming Implementation

45. As per interview all of them, it is found that both simple contract application and formal contract farming implementation are not applied yet in this **Sre Lvi village**. In addition, either the training or orienting forum has never been provided by both national institutions and PDAPP itself. Therefore, they should have been encouraged to be well disseminated about relevant legal documents of the contract farming implementation mechanism in terms of markets linkages promotion to direct buyers domestically.

3.5.2 Existing Markets

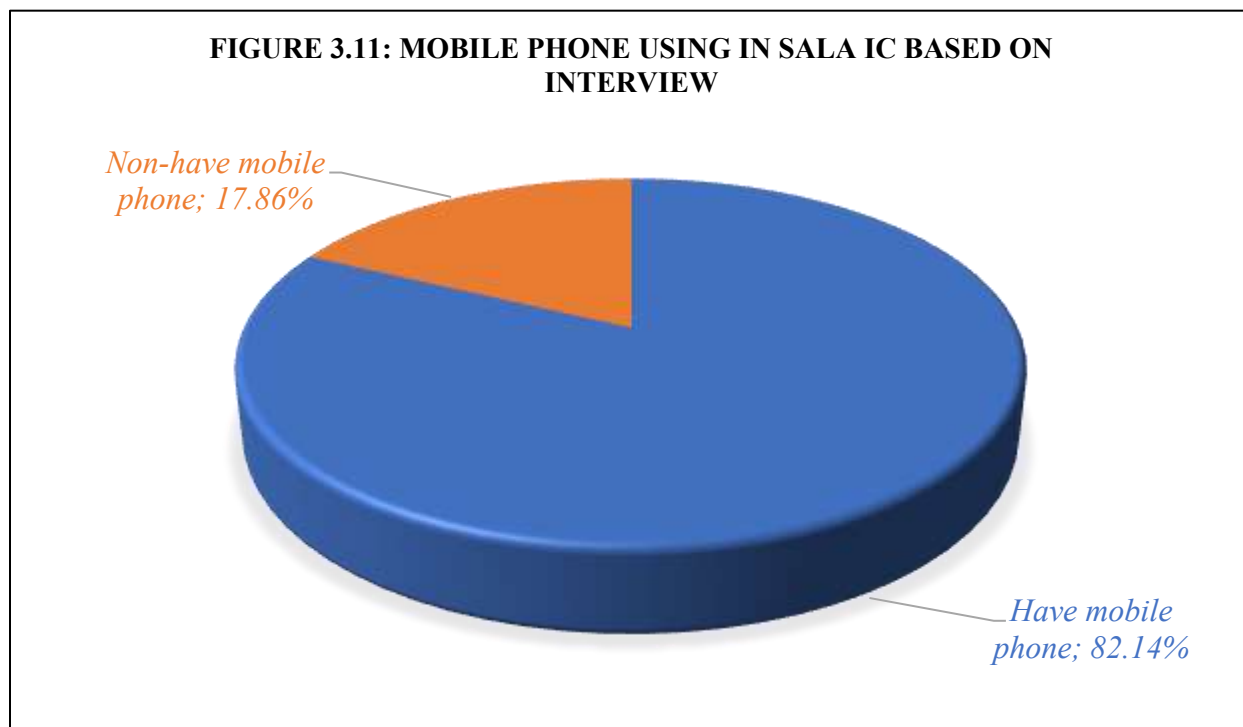
46. Nowadays, they are selling their agricultural products to the domestic middleman who have been collected the products to sell to the processing companies at the town and to the middleman of the neighbouring countries. As their practices, the middleman comes to pick up the cargos to their either warehouses or companies directly. In addition, some of them are selling their produces by themselves inside the village by using their own vehicles.

3.6 Extension and ICT

47. According to the interview, it is found that there are approximately 46 HHs equals to about 82.14% who have had the mobile phones while about 10 HHs equals to 17.86% do not have the mobile phone. Totally, their mobile phone is calculated approximately 63 phones while it

¹³ Traditional fisheries involving fishing households (as opposed to commercial companies), using relatively small amount of capital and energy, relatively small fishing vessels, making short fishing trips, close to shore, mainly for local consumption. In some communities, traditional fishing community is a defined group of people who share identity and attachment toward one another and interact on an ongoing basis to perform activities along the fisheries value chain based on experiential knowledge accumulated over time and passed along generations (Berkes 2001; Johannes 2003; McGoodwin 2001).

is estimated about 43 smartphone equals to 68.26%. Figure 3.11 below shows about the mobile phone utilization in **Sre Lvi village** as per all 56 respondents interviewed.



48. However, there is no respondents used their mobile phones to either search or watch the videos related to the agricultural extension programs; such as crops farming, aquatic application, animal and livestock raising, etc.; even though they have used mobile phone individually. In addition, they also search for the market application such as *CamAgriMarket app, Tonle Sap Mobile app, Chamka Mobile app, etc.*

49. By the way, according to the interview, it is found that none of them used to be trained by either relevant stakeholders from public sector or NGO.

3.7 Economic Analysis¹⁴

3.7.1 On Farm Incomes

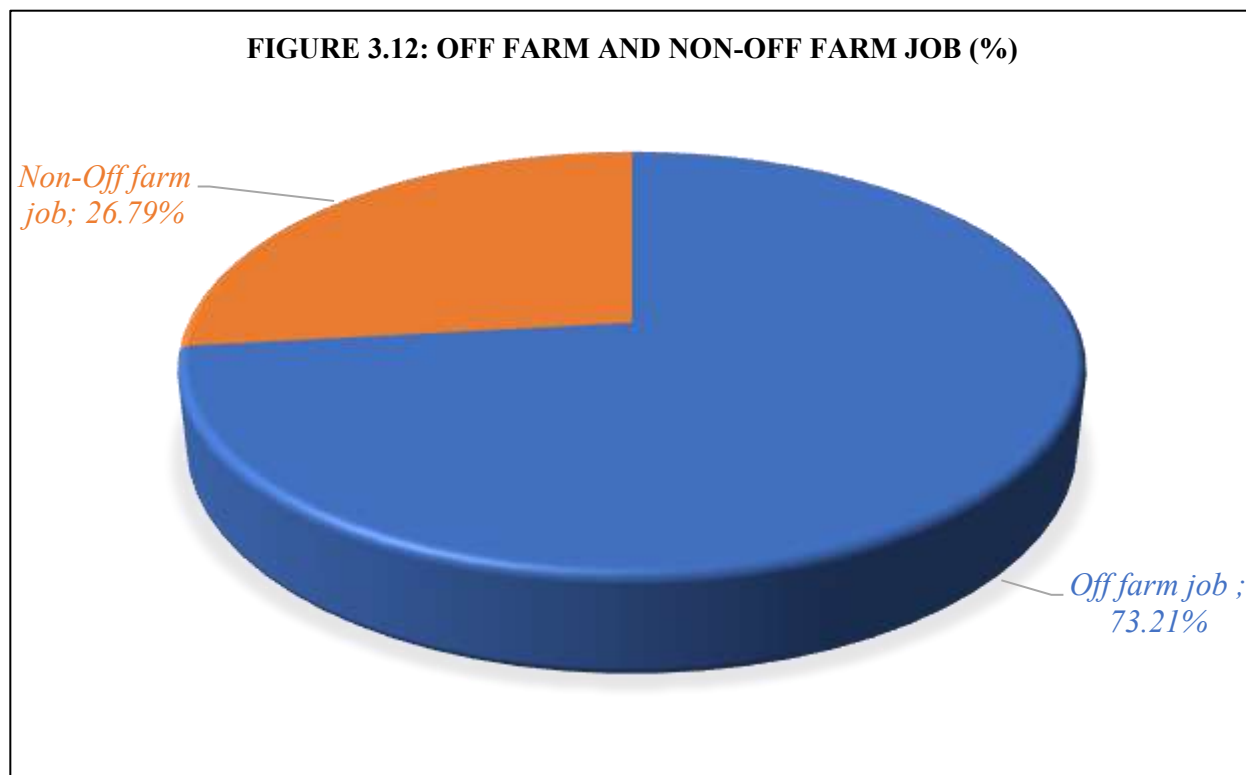
50. According to the interview of all 56 HHs, it is found that a huge income of villager in this villages come from agriculture farming activities. In fact, the total revenue from agricultural products sold last year based on the interview was approximately 466,383,400.00 riels equals

¹⁴ Economic analysis essentially entails the evaluation of costs and benefits. Economic analysis helps us to make decentralized decisions on the appropriate choices between competing uses of resources, with costs and benefits being defined and valued so as to measure impacts of the projects on the broad development objectives of the country. (Source: Edomah, N., 2018. Economics of energy supply. Reference module in earth systems and environmental sciences, pp.1-16.)

to 112,816.50 USD while it is also found that the production cost on agricultural farming is approximately 76,070,000.00 riels equal to 18,401.06 USD.

3.7.2 Off Farm Incomes

51. By the way, besides agriculture farming activities, it is found that there are about 73.21% (41 HHs) have been working in other sector assumed as non-farm jobs¹⁵ while there are about 26.79% (15 HHs) mentioned that they did not get the non-farm jobs as stated in Figure 3.12 below. According to the interview, the total revenue earns from non-farm job accounts approximately 40,320,000.00 riels equal to 9,753.27 USD.



3.7.3 Household Food Security (HFS)

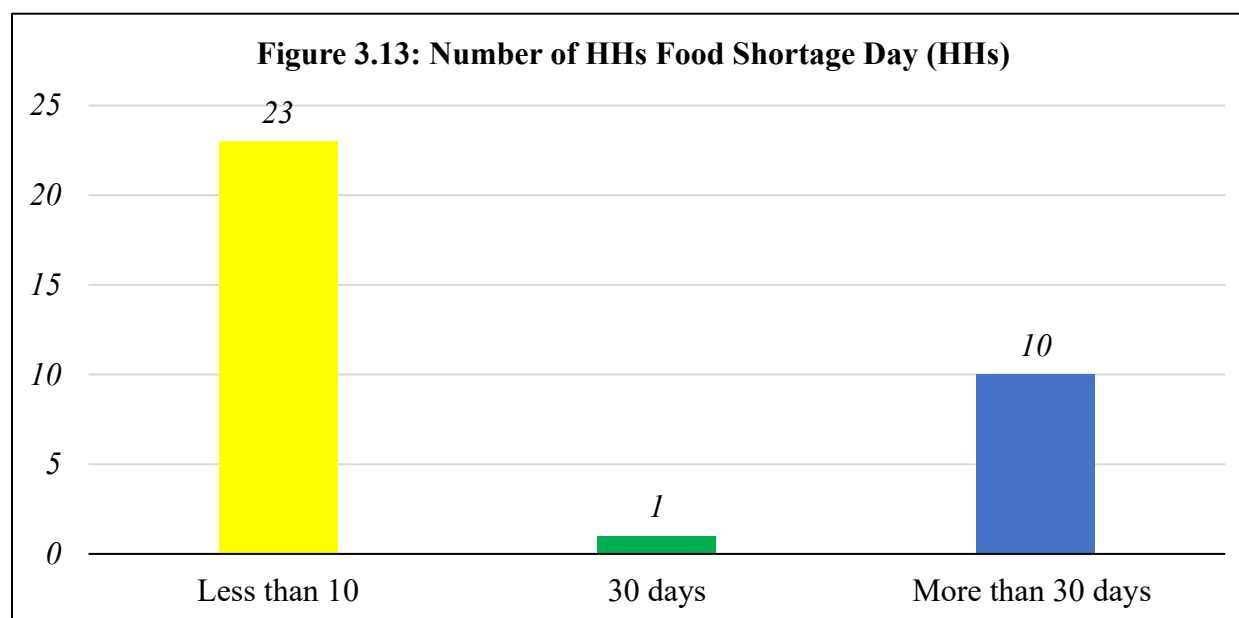
52. Household food security can be defined as a household having assured sets of entitlements from food production, cash income, reserves of food or assets and/or government assistance programmes such that in times of need they will be able to maintain sufficient nutritional intake for physical well-being.

53. Food security occurs when all members of a household at all times have reliable access to food in sufficient quantity and quality to support an active and healthy life. While food security

¹⁵ According to the non-farm jobs and incomes were selling labor to cut the farm grasses, commune clerk, village chief, commune councilor member, weaving traditional consumption materials such as Kapa for sale, wine jar making, find non-timber forest products, selling foods and other using materials, construction workers and the gift provided by their marriage children.

involves food availability, accessibility, utilization and stability, the majority of attention appears to be focused on the increasing number of foods in India that are available yet inaccessible to the population.

54. Regards to status of food security of this village, it was recorded 41.07% (23 HHs), 1.78% (01 HHs) and 17.85% (10 HHs) have answered that they used to face the insufficient food consumption from less than 10 days, 30 days and more than 30 days, respectively, as stated in the figure 3.13 below.



3.8 Training Needs Assessment¹⁶ (TNA)

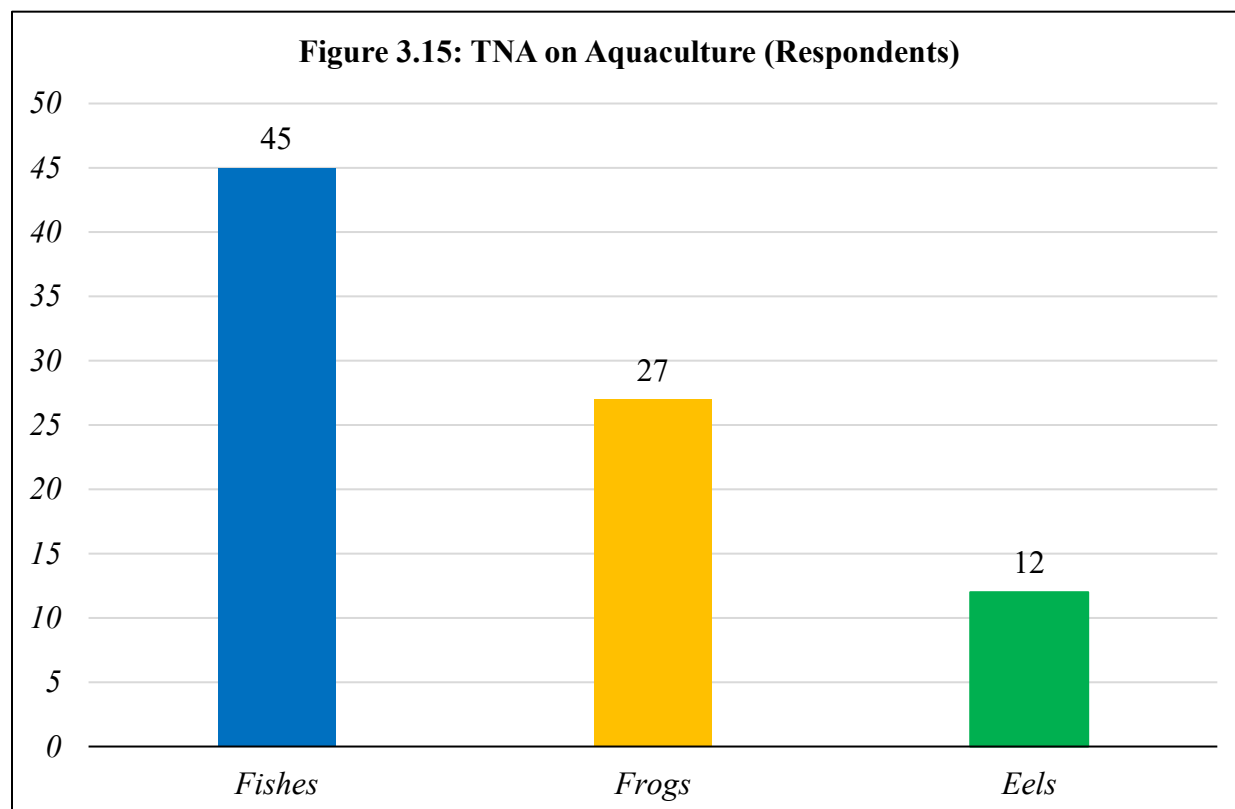
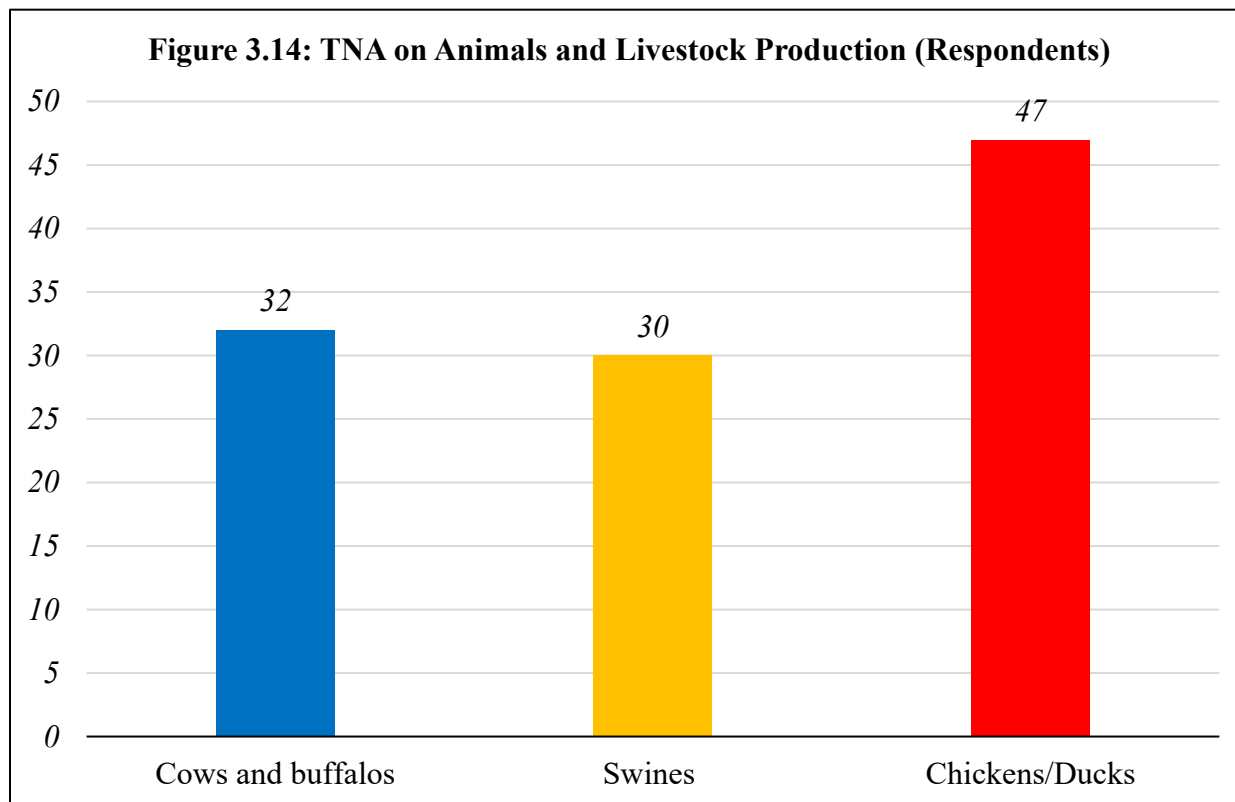
55. In this beneficiary profile survey, the TNA is divided into five categories such as (i) the assessment on the animal and livestock production, (ii) the assessment on the fishery and aquatic production, (iii) the evaluation on the crops production, (iv) the assessment on the nutrition sensitive agriculture, and (v) the assessment on the contract farming implementation. For details of TNA questionnaires is attached in the annex 4.8 below of this report.

56. According to the results of interview of all 56 respondents, it is found that, for the animal and livestock production, there are 33, 30, and 47 respondents want to get the training on cow/buffalo, swine, chicken and duck raising production, respectively, as stated in the figure

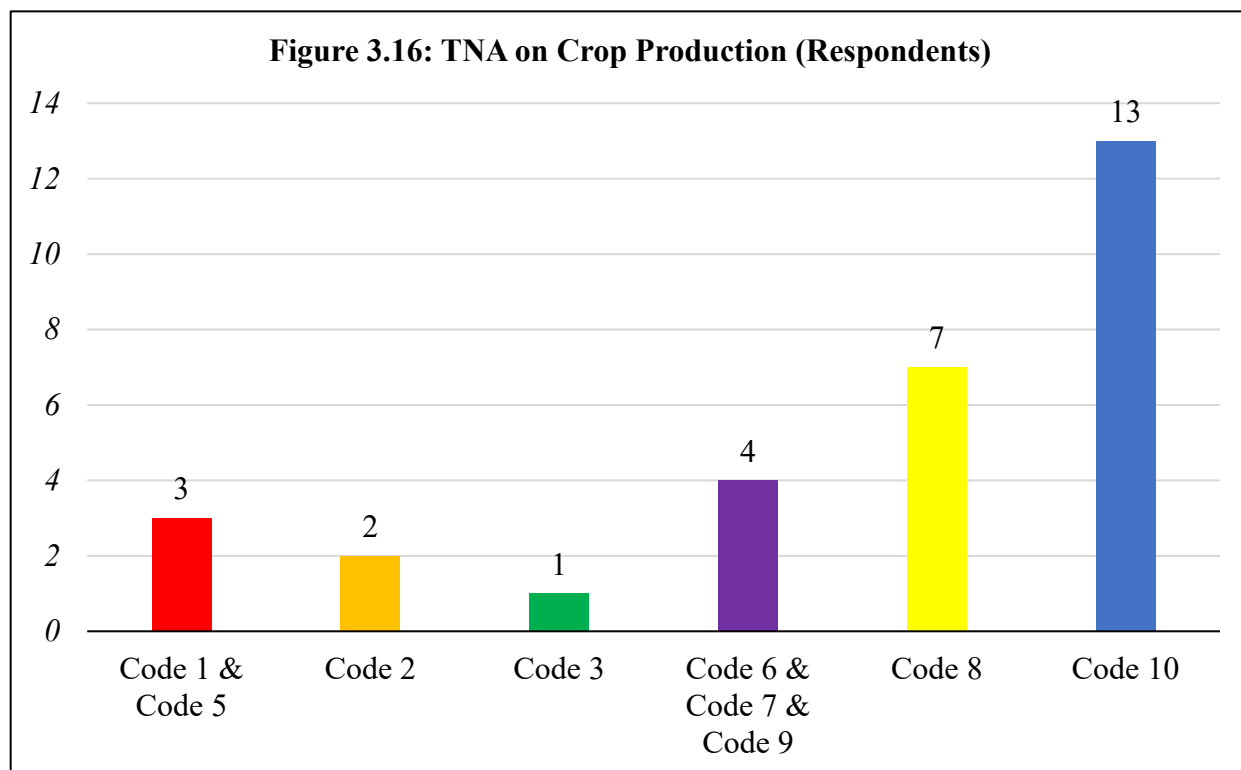
¹⁶ “Training Needs Assessment” (TNA) is **the method of determining if a training need exists and, if it does, what training is required to fill the gap**. TNA seeks to identify accurately the levels of the present situation in the target surveys, interview, observation, secondary data and/or workshop. Available at:

https://www.jica.go.jp/project/cambodia/0601331/pdf/english/3_TNA_01.pdf.

3.14 below. Remarkably, the technical trainings shall have been covered on animals raising, breeding, feeds making, vaccination, diseases treatment, cage preparation, business planning preparation and other technical supports. In addition, each respondent is able to answer and chose more than one option during the interview.



57. Figure 3.15 above shows about the TNA on aquaculture, according to the results of interview of all 56 respondents. As results, it is found that there are 45, 27 and 12 respondents want to get the training on fishes, frogs and eels, respectively. Remarkably, the technical trainings shall have been covered on animals raising, breeding, feeds making, vaccination, diseases treatment, cage preparation, business planning preparation and other technical supports. In addition, each respondent is able to answer and chose more than one option during the interview.

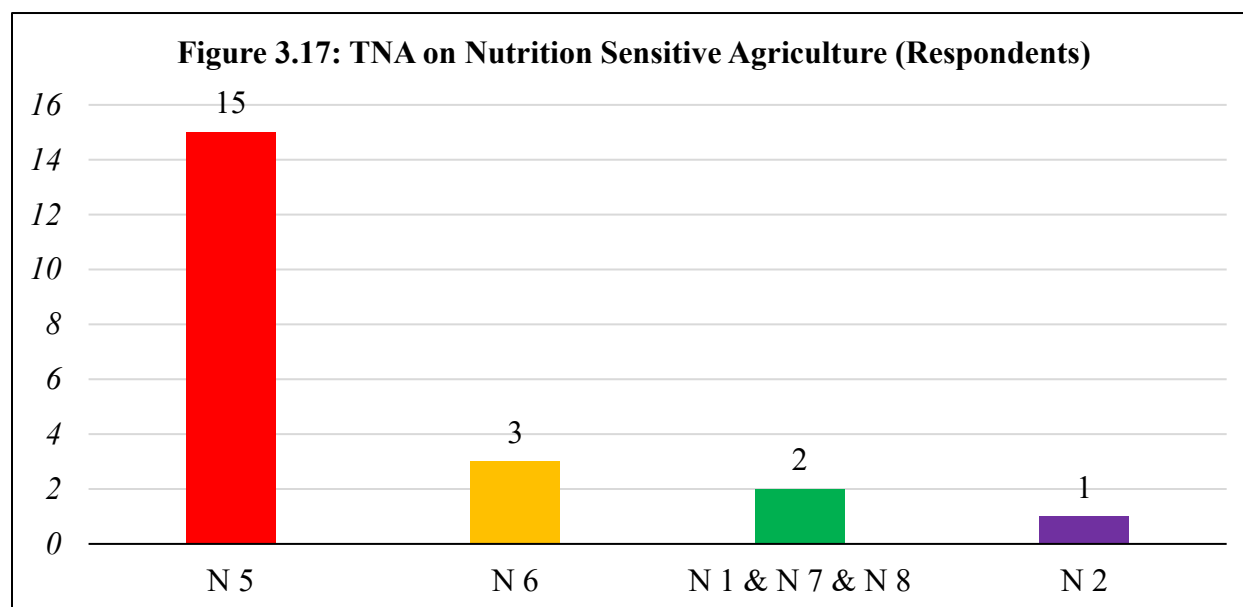


58. For TNA on crops production, it is orderly coded for each specific title from **Code 1** to **Code 10**. According to the interview with all 56 HHs on the TNA of crops production, it is found that the **Code 1 & Code 3**, **Code 2**, **Code 4**, **Code 5**, and **Code 6** have been rationally rated as following results **72**, **71**, **64**, **27** and **5** responses, respectively. Figure 3.16 above indicates about the the TNA on crops production based on the interview. Noticeably, each respondent is able to answer and chose more than one option during the interview.

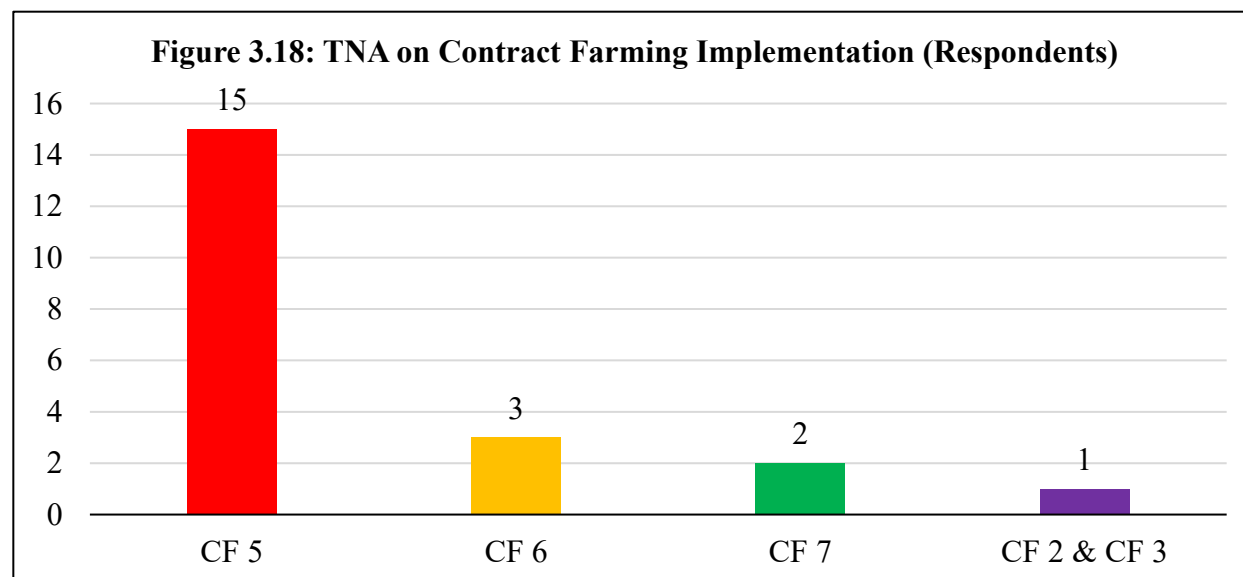
59. According to the above data, it is shown that there are some neglects of interviewers to get more answers from the respondents¹⁷ or some respondents did not concentrate to answers useful information related to respondents.

¹⁷ Interviewer Skill Level: Conducting behavior-based interviews requires a certain skill level from the interviewer, including listening carefully and asking appropriate follow-up questions. If the interviewer is not skilled in this area, the interview may not effectively assess the candidate's experience and behaviors.

60. For TNA on nutrition sensitive agriculture (NSA), it is orderly coded for each specific title from **N 1** to **N 13**. According to the interview with all 56 HHs on the TNA of NSA, it is found that the **N 5**, **N 6**, **N 1 & N 7 & N 8** and **N 2** have been rationally rated as following results **53**, **15**, **3**, **2**, and **1** response, respectively. Figure 3.17 below indicates about the the TNA on NSA based on the interview. Noticeably, each respondent is able to answer and chose more than one option during the interview.



61. For TNA on Contract Farming (CF) implementation, it is orderly coded for each specific title from **CF 1** to **CF 9**. According to the interview with all 56 HHs on the TNA of CF implementation, it is found that the **CF 5**, **CF 6**, **CF 7** and **CF 2 & CF 3** have been rationally rated as following results **15**, **3**, **2**, and **1** response, respectively. Figure 3.18 below indicates about the the TNA on CF implementation based on the interview. Noticeably, each respondent is able to answer and chose more than one option during the interview.



3.9 Conclusion

62. After having interviewed with all 56 respondents and having compiled of all information into this beneficiary report, it is vitally and briefly concluded as following that (1) the potential crops production such as upland paddy/rice (Total planting areas 31.10 ha, total yields 33.73 tons, average land holding 0.56 ha/HH, average yield 1.08 ton per hectare), cashew tree (Total planting areas 180.20 ha, total yields 67.16 tons, harvested areas last year 100.00%, average land holding 3.22 ha/HH and average yield 0.37 ton/ha), (2) the potential animals and livestock production such as cows (10 heads), swine and mice pigs (43 heads), chickens (153 heads), and (3) the potential of other related agricultural practices.
63. For the poverty line in **Sre Lvi village**, it is economically assumed that they are not living under poverty line¹⁸ because of their daily income (in total approximately 21,173.84 riels/day/HH (equals to 5.12 USD/day/HH) which is calculated based on on farm (19,201.24 riels/day/HH) and off farm (1,972.60 riels/day/HH)) is less than 2.67 USD per day per household¹⁹. In addition, there are some people inside the village still facing the problems on food security consumption via household due to several reasons such as the age, the land shortages, etc. during the interviewed. In overall, the people are considerably living above the poverty line.
64. At the same time, it is totally concluded that the percentage of know-how on the technology application via the mobile phone to access either the agricultural farming documents or markets information and so on even though they had had the smartphone is tremendously low level. In addition, it is remarkably concluded that the opportunities to get the agricultural technical trainings is such more than they were being since the past decades. Truly, it means that they used to be instructed about the agricultural techniques as mentioned above as well.

3.10 Suggestions

65. Through the TNA results, the LASED III project shall formulate the adequately strategy to support them in terms of technical and practical supports relatively. For instances, the

¹⁸ The Cambodia Poverty Assessment 2022: Toward a More Inclusive and Resilient Cambodia shows the country has made remarkable progress in reducing poverty over the past decade, but that some recent gains have been threatened by the impact of the COVID-19 pandemic on the economy. Cambodia has updated the poverty line based on the Socio-Economic Survey 2019-2020, where the national minimum is set at 10,951 riels (about \$ 2.7) per person per day. Accessed on Jan 30th, 2023 from the source available at:

<https://documents1.worldbank.org/curated/en/099155111222239793/pdf/P1735940c0e8b508d0b80e0c7375c89d9c0.pdf>.

¹⁹ This is to remark that this data does not reflects to the whole national assessment by using this collected data from each 81 HHs in **Psang IC village**. However, this data is purposively used under the LASED III only. In addition, it is just using the national data for comparison to assume the current status economic of this ethnic people group.

supporting of livestock production and animal production to increase their productivity and vegetation farming as they are doing presently.

66. In terms of markets and markets linkages, the LASED III project shall firstly define the group of interest to form up the legal producer groups officially in order to get the benefits of business matching platform preparation and contract farming²⁰ negotiation for better markets guarantee.
67. It is economically useful to help farmers increase their incomes by enabling them to sell their products at higher prices. In addition, it allows farmer members to negotiate as a group and help small farmers in both output and input markets. At the same time, the revolving fund is established to carry out specific activities, and the primary advantage of this fund is it may be loaned or spent repeatedly among the producer groups. It can support the either land recipients or ethnic groups as well.
68. To promote the sustainable exit strategy in the future, the LASED III shall promote the commune extension workers who will be selected from the domestic and inside **Sre Lvi village** itself through the technical and professional skills Pu norng ided as well as the allowances supports suitably Pu norng ide to them during the periods of the project implementing. In addition, the existing mechanism under LASED III project such as village extension workers (VEWs), village animal health workers (VAHWs) and Agricultural Development Facilitators (ADFs) shall be engaged regionally to support them in terms of agriculture and economic development inside the whole **Sre Lvi village**.

²⁰ Contract farming (CF) is increasingly seen as an effective mechanism to maximize the inclusion of and benefits for small-scale farmers, while giving some control over production to agribusinesses without requiring land ownership. In Cambodia, CF takes many forms and involves food and industrial crops, yet the different CF models and contract types have not been identified. Farmers and contractors have encountered many problems in obtaining reliable benefits from and sustaining CF schemes.

IV. ANNEXES

Annex 4.1: List of Interviewees in Sre Lvi village

No	Name	Sex	Age	Ethic group	Education level	Children	Son	Daughter	Village	Commune	District	Pu norng ince
1	Moeum Krat	M	46	Pu norng	N/A	4	1	3	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
2	Soeun Reay	F	42	Pu norng	N/A	5	1	4	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
3	Krak Chan Heang	F	25	Pu norng	Primary school	1	0	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
4	Trin Nin	F	19	Pu norng	Primary school	0	0	0	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
5	Saroeun Samen	F	23	Pu norng	Primary school	1	1	0	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
6	Moeun Chan	F	40	Pu norng	N/A	3	2	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
7	braek Pov	F	46	Pu norng	N/A	3	2	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
8	Nheuch Meuch	F	35	Pu norng	N/A	2	1	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
9	Roeun Salit	F	22	Pu norng	N/A	1	1	0	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
10	Moeun Bal	F	73	Pu norng	N/A	5	1	4	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
11	Heng Lin	F	42	Pu norng	N/A	4	2	2	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
12	Mreut Plou	F	65	Pu norng	N/A	1	0	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
13	Chhin Vooun	M	53	Pu norng	N/A	2	1	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
14	Ngin Vin	M	30	Pu norng	Primary school	2	1	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
15	Dav Saem	F	42	Pu norng	N/A	3	2	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
16	Trin Phim	F	25	Pu norng	Primary school	2	0	2	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
17	Nheuch Phlay	F	38	Pu norng	Primary school	4	2	2	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
18	Phlaoy Nhory	F	53	Pu norng	N/A	5	3	2	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
19	Prev Thak	F	53	Pu norng	N/A	2	1	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
20	Kleul Sok	M	47	Pu norng	N/A	4	3	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
21	Prev Tuoy	F	25	Pu norng	N/A	1	1	0	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
22	Prev Nang	F	30	Pu norng	N/A	2	0	2	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
23	Pok Raeb	M	23	Pu norng	N/A	1	1	0	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
24	Yung Hach	F	59	Pu norng	N/A	8	5	3	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
25	Kel Bab	F	60	Pu norng	N/A	5	0	5	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
26	Chrong Bieak	F	34	Pu norng	N/A	1	0	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
27	Chrong Tin	F	32	Pu norng	N/A	1	0	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri

28	Chrong Tue	F	18	Pu norng	N/A	1	1	0	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
29	Van Sreyleak	F	22	Pu norng	N/A	2	1	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
30	Yout Saroeun	F	52	Pu norng	N/A	2	0	2	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
31	Tim Yen	M	70	Pu norng	N/A	2	2	0	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
32	Sruot Pheany	F	34	Pu norng	N/A	3	1	2	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
33	Vanna Ol	M	68	Pu norng	N/A	4	1	0	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
34	Ol Nael	F	20	Pu norng	N/A	1	1	0	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
35	Prel Bo	M	63	Pu norng	N/A	6	5	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
36	Nhek Phlanh	M	46	Pu norng	Primary school	0	0	0	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
37	Nhek Mek	M	35	Pu norng	Primary school	0	0	0	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
38	Nhek Kapi	F	28	Pu norng	Primary school	0	0	0	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
39	Keng Phally	M	48	Pu norng	Primary school	0	0	0	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
40	Pung Den	M	43	Pu norng	Primary school	0	0	0	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
41	Moeun Kwat	M	34	Pu norng	Primary school	2	0	2	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
42	Chon Reth	M	42	Pu norng	Primary school	4	2	2	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
43	Nheut Blanh	M	39	Pu norng	N/A	5	3	2	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
44	Kheh Ke	M	37	Pu norng	N/A	2	1	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
45	Kul Trun	M	43	Pu norng	N/A	4	3	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
46	Koel Bab	F	42	Pu norng	N/A	1	0	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
47	Heang Sophoeun	F	36	Pu norng	N/A	1	1	0	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
48	Heng Lin	F	34	Pu norng	N/A	2	1	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
49	Braek Plou	F	46	Pu norng	N/A	2	0	2	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
50	Moeun Tro	F	41	Pu norng	N/A	2	2	0	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
51	Moeun Ben	F	52	Pu norng	N/A	1	0	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
52	Moeun Phal	F	48	Pu norng	N/A	2	1	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
53	Seng Bel	F	53	Pu norng	Primary school	2	1	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
54	Blot Trem	F	39	Pu norng	Primary school	1	1	0	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
55	Treun Baem	F	43	Pu norng	N/A	3	2	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri
56	Chim Kunthea	F	38	Pu norng	N/A	3	2	1	Sre Lvi	Sre Khtum	Keo Seyma	Mondolkiri

Annex 4.2: List of Families Planting Cashew Tree

No	Name	Sex	Planting area (ha)	Cashew's age	Yields (t)	Sell QTY (t)	Prices (Riel/kg)
1	Moeum Krat	M	4.00	12	2.80	2.80	3,500.00
2	Soeun Reay	F	4.00	10	3.50	3.50	3,500.00
3	Krak Chan Heang	F	2.00	4	0.50	0.50	3,500.00
4	Trin Nin	F	5.00	5	1.60	1.60	4,000.00
5	Saroeun Samen	F	1.00	5	0.50	0.50	3,500.00
6	Moeun Chan	F	5.00	8	1.43	1.43	3,500.00
7	braek Pov	F	9.00	7	2.20	2.20	3,500.00
8	Nheuch Meuch	F	2.00	10	0.86	0.86	3,500.00
9	Roeun Salit	F	1.00	9	0.30	0.30	4,500.00
10	Moeun Bal	F	2.00	13	0.86	0.86	3,500.00
11	Heng Lin	F	3.00	10	0.65	0.65	4,000.00
12	Mreut Plou	F	4.00	10	0.86	0.86	3,500.00
13	Chhin Vooun	M	7.00	9	3.00	3.00	4,000.00
14	Ngin Vin	M	2.00	6	1.00	1.00	3,000.00
15	Dav Saem	F	2.00	7	1.25	1.25	4,000.00
16	Trin Phim	F	1.00	7	0.30	0.30	4,000.00
17	Nheuch Phlay	F	8.00	8	3.00	3.00	4,000.00
18	Phlaoy Nhory	F	3.00	9	2.30	2.30	4,000.00
19	Prev Thak	F	4.00	4	1.00	1.00	4,000.00
20	Kleul Sok	M	2.00	6	0.50	0.50	4,000.00
21	Prev Tuoy	F	7.00	10	0.90	0.90	3,500.00
22	Prev Nang	F	4.00	9	1.72	1.72	3,500.00
23	Pok Raeb	M	0.50	7	0.20	0.20	4,000.00
24	Yung Hach	F	5.00	-	1.63	1.63	4,300.00
25	Kel Bab	F	2.00	-	3.00	3.00	4,000.00
26	Chrong Bieak	F	0.50	-	0.25	0.25	4,000.00
27	Chrong Tin	F	0.50	-	0.50	0.50	4,000.00
28	Chrong Tue	F	1.00	-	-	-	-
29	Van Sreyleak	F	1.50	-	1.00	1.00	4,000.00
30	Yout Saroeun	F	3.60	-	1.20	1.20	4,500.00
31	Tim Yen	M	2.00	-	0.50	0.50	3,000.00
32	Sruot Pheany	F	2.00	-	0.56	0.56	4,500.00
33	Vanna Ol	M	-	-	-	-	-
34	Ol Nael	F	-	-	-	-	-
35	Prel Bo	M	-	-	-	-	-
36	Nhek Phlanh	M	5.00	5	1.60	1.60	4,000.00
37	Nhek Mek	M	5.00	5	1.60	1.60	4,000.00
38	Nhek Kapi	F	5.00	5	1.60	1.60	4,000.00
39	Keng Phally	M	5.00	5	1.60	1.60	4,000.00
40	Pung Den	M	5.00	5	1.60	1.60	4,000.00
41	Moeun Kwat	M	1.00	7	0.30	0.30	4,000.00
42	Chon Reth	M	8.00	8	3.00	3.00	4,000.00
43	Nheut Blanh	M	3.00	9	2.30	2.30	4,000.00
44	Kheh Ke	M	4.00	4	1.00	1.00	4,000.00
45	Kul Trun	M	2.00	6	0.50	0.50	4,000.00
46	Koel Bab	F	0.50	-	0.50	0.50	4,000.00
47	Heang Sophoeun	F	1.00	-	-	-	-
48	Heng Lin	F	1.50	-	1.00	1.00	4,000.00
49	Brack Plou	F	3.60	-	1.20	1.20	4,500.00
50	Moeun Tro	F	2.00	-	0.50	0.50	3,000.00
51	Moeun Ben	F	4.00	10	0.86	0.86	3,500.00
52	Moeun Phal	F	7.00	9	3.00	3.00	4,000.00

53	Seng Bel	F	2.00	6	1.00	1.00	3,000.00
54	Blot Trem	F	1.00	5	0.50	0.50	3,500.00
55	Treun Baem	F	5.00	8	1.43	1.43	3,500.00
56	Chim Kunthea	F	9.00	7	2.20	2.20	3,500.00
Total			180.20	-	67.16	67.16	-

Annex 4.3: List of Families Planting Cassava

No	Name	Sex	Planting area (ha)	Yields (t)	Sell QTY (t)	Prices (Riel/kg)
1	Moeum Krat	M	2.00	16.00	16.00	380.00
2	Soeun Reay	F	3.00	10.00	10.00	430.00
3	Krak Chan Heang	F	0.50	1.22	1.22	370.00
4	Trin Nin	F	1.00	7.00	7.00	400.00
5	Saroeun Samen	F	3.00	22.00	22.00	440.00
6	Moeun Chan	F	2.00	10.00	10.00	380.00
7	braek Pov	F	6.50	40.00	40.00	350.00
8	Nheuch Meuch	F	2.00	7.00	7.00	440.00
9	Roeun Salit	F	3.00	25.00	25.00	380.00
10	Moeun Bal	F	2.00	15.00	15.00	380.00
11	Heng Lin	F	1.50	12.00	12.00	420.00
12	Mreut Plou	F	1.00	5.40	5.40	380.00
13	Chhin Vooun	M	0.50	2.70	2.70	400.00
14	Ngin Vin	M	0.50	5.00	5.00	400.00
15	Dav Saem	F	-	-	-	-
16	Trin Phim	F	0.50	5.00	5.00	400.00
17	Nheuch Phlay	F	3.00	18.00	18.00	400.00
18	Phlaoy Nhory	F	1.00	6.80	6.80	440.00
19	Prev Thak	F	4.00	30.00	30.00	350.00
20	Kleul Sok	M	2.00	8.00	8.00	440.00
21	Prev Tuoy	F	3.00	18.50	18.50	380.00
22	Prev Nang	F	5.00	33.00	33.00	400.00
23	Pok Raeb	M	-	-	-	-
24	Yung Hach	F	1.00	6.00	6.00	400.00
25	Kel Bab	F	-	-	-	-
26	Chrong Bieak	F	-	-	-	-
27	Chrong Tin	F	-	-	-	-
28	Chrong Tue	F	-	-	-	-
29	Van Sreyleak	F	1.00	6.00	6.00	400.00
30	Yout Saroeun	F	1.00	12.50	12.50	400.00
31	Tim Yen	M	0.50	1.00	1.00	400.00
32	Sruot Pheany	F	2.00	12.30	12.30	450.00
33	Vanna Ol	M				
34	Ol Nael	F				
35	Prel Bo	M				
36	Nhek Phlanh	M	1.00	7.00	7.00	400.00
37	Nhek Mek	M	1.00	7.00	7.00	400.00
38	Nhek Kapi	F	1.00	7.00	7.00	400.00
39	Keng Phally	M	1.00	7.00	7.00	400.00
40	Pung Den	M	1.00	7.00	7.00	400.00
41	Moeun Kwat	M	0.50	5.00	5.00	400.00
42	Chon Reth	M	3.00	18.00	18.00	400.00
43	Nheut Blanh	M	1.00	6.80	6.80	440.00
44	Kheh Ke	M	4.00	30.00	30.00	350.00
45	Kul Trun	M	2.00	8.00	8.00	440.00
46	Koel Bab	F	-	-	-	-
47	Heang Sophoeun	F	-	-	-	-

48	Heng Lin	F	1.00	6.00	6.00	400.00
49	Braek Plou	F	1.00	12.50	12.50	400.00
50	Moeun Tro	F	0.50	1.00	1.00	400.00
51	Moeun Ben	F	1.00	5.40	5.40	380.00
52	Moeun Phal	F	0.50	2.70	2.70	400.00
53	Seng Bel	F	0.50	5.00	5.00	400.00
54	Blot Trem	F	3.00	22.00	22.00	440.00
55	Treun Baem	F	2.00	10.00	10.00	380.00
56	Chim Kunthea	F	6.50	40.00	40.00	350.00
Total (t)			84.00	542.82	542.82	-

Annex 4.4: List of Families Planting Upland Paddy/Rice

No	Name	Sex	Planting area (ha)	Yields (t)	Sell QTY (t)	Prices (Riel/kg)
1	Moeum Krat	M	1.00	1.00	-	-
2	Soeun Reay	F	1.50	3.00	-	-
3	Krak Chan Heang	F	0.50	0.80	-	-
4	Trin Nin	F	1.50	0.25	-	-
5	Saroeun Samen	F	0.50	1.00	-	-
6	Moeun Chan	F	1.00	1.00	-	-
7	braek Pov	F	0.50	2.00	-	-
8	Nheuch Meuch	F	1.00	1.00	-	-
9	Roeun Salit	F	0.50	0.30	-	-
10	Moeun Bal	F	1.50	2.88	-	-
11	Heng Lin	F	0.50	0.30	-	-
12	Mreut Plou	F	-	-	-	-
13	Chhin Vooun	M	-	-	-	-
14	Ngin Vin	M	-	-	-	-
15	Dav Saem	F	-	-	-	-
16	Trin Phim	F	-	-	-	-
17	Nheuch Phlay	F	1.00	0.40	-	-
18	Phlaoy Nhory	F	0.80	0.50	-	-
19	Prev Thak	F	-	-	-	-
20	Kleul Sok	M	1.00	2.00	-	-
21	Prev Tuoy	F	-	-	-	-
22	Prev Nang	F	1.00	1.10	-	-
23	Pok Raeb	M	0.50	1.25	-	-
24	Yung Hach	F	1.50	0.60	-	-
25	Kel Bab	F	-	-	-	-
26	Chrong Bieak	F	-	-	-	-
27	Chrong Tin	F	-	-	-	-
28	Chrong Tue	F	-	-	-	-
29	Van Sreyleak	F	-	-	-	-
30	Yout Saroeun	F	0.50	2.20	-	-
31	Tim Yen	M	1.00	0.90	-	-
32	Sruot Pheany	F	-	-	-	-
33	Vanna Ol	M				
34	Ol Nael	F				
35	Prel Bo	M				
36	Nhek Phlanh	M	1.50	0.25	-	-
37	Nhek Mek	M	1.50	0.25	-	-
38	Nhek Kapi	F	1.50	0.25	-	-
39	Keng Phally	M	1.50	0.25	-	-
40	Pung Den	M	1.50	0.25	-	-
41	Moeun Kwat	M	-	-	-	-

42	Chon Reth	M	1.00	0.40	-	-
43	Nheut Blanh	M	0.80	0.50	-	-
44	Kheh Ke	M	-	-	-	-
45	Kul Trun	M	1.00	2.00	-	-
46	Koel Bab	F	-	-	-	-
47	Heang Sophoeun	F	-	-	-	-
48	Heng Lin	F	-	-	-	-
49	Braek Plou	F	0.50	2.20	-	-
50	Moeun Tro	F	1.00	0.90	-	-
51	Moeun Ben	F	-	-	-	-
52	Moeun Phal	F	-	-	-	-
53	Seng Bel	F	-	-	-	-
54	Blot Trem	F	0.50	1.00	-	-
55	Treun Baem	F	1.00	1.00	-	-
56	Chim Kunthea	F	0.50	2.00	-	-
Total (t)			31.10	33.73	-	-

Annex 4.5: List of Families Raising Animals and Livestock

No	Name	Sex	Cow	Buffalo	Swine/Mice Pig	Chicken	Duck
1	Moeum Krat	M	-	-	-	-	-
2	Soeun Reay	F	-	-	-	-	-
3	Krak Chan Heang	F	-	-	-	4	-
4	Trin Nin	F	-	-	1	-	-
5	Saroeun Samen	F	2	-	-	-	-
6	Moeun Chan	F	-	-	2	-	-
7	braek Pov	F	-	-	4	5	-
8	Nheuch Meuch	F	-	-	-	-	-
9	Roeun Salit	F	-	-	-	-	-
10	Moeun Bal	F	-	-	7	5	-
11	Heng Lin	F	-	-	-	30	-
12	Mreut Plou	F	-	-	-	6	-
13	Chhin Vooun	M	-	-	-	19	-
14	Ngin Vin	M	-	-	-	20	-
15	Dav Saem	F	-	-	-	-	-
16	Trin Phim	F	-	-	-	-	-
17	Nheuch Phlay	F	3	-	5	-	-
18	Phlaoy Nhory	F	-	-	2	-	-
19	Prev Thak	F	-	-	1	-	-
20	Kleul Sok	M	-	-	1	-	-
21	Prev Tuoy	F	-	-	-	-	-
22	Prev Nang	F	-	-	-	10	-
23	Pok Raeb	M	-	-	-	4	-
24	Yung Hach	F	-	-	-	-	-
25	Kel Bab	F	-	-	-	-	-
26	Chrong Bieak	F	-	-	-	-	-
27	Chrong Tin	F	-	-	-	-	-
28	Chrong Tue	F	-	-	-	-	-
29	Van Sreyleak	F	-	-	-	-	-
30	Yout Saroeun	F	-	-	-	-	-

31	Tim Yen	M	-	-	-	-	-
32	Sruot Pheany	F	-	-	-	-	-
33	Vanna Ol	M					
34	Ol Nael	F					
35	Prel Bo	M					
36	Nhek Phlanh	M	-	-	1	-	-
37	Nhek Mek	M	-	-	1	-	-
38	Nhek Kapi	F	-	-	1	-	-
39	Keng Phally	M	-	-	1	-	-
40	Pung Den	M	-	-	1	-	-
41	Moeun Kwat	M	-	-	-	-	-
42	Chon Reth	M	3	-	5	-	-
43	Nheut Blanh	M	-	-	2	-	-
44	Kheh Ke	M	-	-	1	-	-
45	Kul Trun	M	-	-	1	-	-
46	Koel Bab	F	-	-	-	-	-
47	Heang Sophoeun	F	-	-	-	-	-
48	Heng Lin	F	-	-	-	-	-
49	Braek Plou	F	-	-	-	-	-
50	Moeun Tro	F	-	-	-	-	-
51	Moeun Ben	F	-	-	-	6	-
52	Moeun Phal	F	-	-	-	19	-
53	Seng Bel	F	-	-	-	20	-
54	Blot Trem	F	2	-	-	-	-
55	Treun Baem	F	-	-	2	-	-
56	Chim Kunthea	F	-	-	4	5	-
Total			10	-	43	153	-

Annex 4.6: Training Needs Assessment Codes

1. Crops Production's codes	
Code 1	Cultivation techniques (soil preparation, net house preparation, seed selection, irrigation preparation)
Code 2	An understanding the use of pesticides and fertilizers and technical standards
Code 3	Breeding or grafting techniques (including cashews, cassava, etc.)
Code 4	Integrated Pest Management (IPM) techniques and treatments on various crops
Code 5	An understanding of safe vegetables and safe vegetable growing techniques
Code 6	An understanding of organic crops and organic farming techniques
Code 7	An understanding of planting techniques in line with Good Agricultural Practices (GAP)
Code 8	An understanding drip irrigation and sprinkler irrigation
Code 9	Organizing production groups or farming communities and other related work
Code 10	Agricultural business planning preparation
2. Nutrition Sensitive Agriculture's Codes	
N 1	Training on food safety and nutrition
N 2	Training on agricultural product processing and preservation technology
N 3	Training on promoting gender equality and women's nutrition
N 4	Training on intensive agriculture and agricultural diversification
N 5	Training on hygiene and food hygiene practices
N 6	Training on home school garden and food safety education for school children
N 7	Training on communicable diseases pandemic, health effects and nutrition
N 8	Training on fundamental basics of nutrition
N 9	Training on gender equity, women's leadership and agricultural works
N 10	Training on post-harvest of nutrition losses in value chain
N 11	Training on strategy and multi-sectors on malnutrition interventions
N 12	Training on food fortification
N 13	Training on post-harvest safe handling
3. Contract Farming Implementation's Codes	
CF 1	Training on general guideline of contract farming
CF 2	Training on monitoring and verification of relevant documents during implementing the contract farming
CF 3	Training on quality control and preparation
CF 4	Training on development of human resource training plan and partiKIPation in the implementation of contract agricultural production
CF 5	Training on procedure for requesting and preparation of relevant documents requesting the implementation of contract farming
CF 6	Training on dispute resolution in contract farming
CF 7	Training on packaging and labeling
CF 8	Training on market access and smallholder farmers' connectivity
CF 9	Training on the concept of agri-business cluster

Annex 4.7: Questionnaire of Beneficiary Profile Form

A. To be completed by interviewer

1. Name:, Gender: ☐ Male ☐ Female
2. Interview date (DD/MM/YY):
3. Location:(village),(commune),(district),(Pu norng ince).
4. Phone number: and

B. To be completed by interviewee

Part I: General information

1. Name:, Gender: ☐ Male ☐ Female
2. Indigenous People: ☐ Tumpoun ☐ Tumpoun ☐ Pou Nong ☐ Tumpoun ☐ Mil ☐ Tumpoun
☐ Other:
3. Family status: ☐ Single ☐ Marriage ☐ Divorce ☐ Separate
4. Children: (People) (Son: (People), Daughter: (People).
5. Children who are studying:
 - ❖ Kindergarten: (People) (Son: (People), Daughter: (People).
 - ❖ Primary school: (People) (Son: (People), Daughter: (People).
 - ❖ Secondary school: (People) (Son: (People), Daughter: (People).
 - ❖ High school: (People) (Son: (People), Daughter: (People).
 - ❖ Technical school: (People) (Son: (People), Daughter: (People).
 - ❖ Undergraduate: (People) (Son: (People), Daughter: (People).
6. Children who stop study: (People) (Son: (People), Daughter: (People).
7. Under-age school children: (People) (Son:(People), Daughter: (People).

8. Agriculture labor force: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐
9. Have you applied to the LASED III project already in term of agricultural support? ☐ Yes ☐ No
10. Have you participated in dissemination already? ☐ Yes ☐ No
11. Which institutions support the dissemination?
- ☐ Ministry of Agriculture, Forestry and Fisheries
- ☐ Ministry of Land Management, Urban Planning and Construction
- ☐ Tumpounincial Department of Agriculture, Forestry and Fisheries
- ☐ Tumpounincial Department of Land Management, Urban Planning and Construction
- ☐ Local authority
- ☐ Other:

Part II: Agricultural potential

2.1 Industrial crops

- 2.1.1 Cashew tree ☐ Yes ☐ No (If so, please verify below:)
- ☐ Younger than the harvest year
- ☐ No land to grow
- ☐ Land not yet cleared
- ☐ Other:
- 2.1.1.1 Cashew production: (h.a), Yield: (t), Price: (Riel/kg)
- 2.1.2 Cassava: (h.a)
- 2.1.2.1 Quantity sell: (h.a), Fresh cassava's price: (Riel/kg)
- 2.1.2.2 Quantity sell: (h.a), Dried chip cassava's price: (Riel/kg)
- 2.1.3 Rubber: (h.a), Yield: (t), Price: (Riel/kg)
- 2.1.4 Rice: (h.a), Yield: (t), Have you sold the rice? ☐ Yes ☐ No (Please verify)
- ☐ Only household consumption
- ☐ Also sold some
- ☐ No land to grow
- ☐ Land not yet cleared
- ☐ Other:
- 2.1.4.1 Sold quantity: (h.a), Yield: (t), Price: (Riel/kg)

2.2 Horticulture

2.2.1 Vegetable: (h.a), Yield: (t), Price: (Riel/kg)

2.2.2 Fruits tree: (h.a), Yield: (t), Price: (Riel/kg)

2.3 Challenges

2.3.1 What is the condition of your land? ☐ Good ☐ Average ☐ Bad

2.3.2 Challenges

Choose any answer you come across Please tick (✓) on the only answer! Level 1 is not strongly challenged to level 5 is strongly challenged	1	2	3	4	5
Drought					
Diseases on other crops					
Lack of techniques in cultivation					
Lack of labor to support agricultural work					
Lack of capital					
Lack of sales' market					
Lack of agricultural inputs (fertilizers and pesticides, seeds, etc.)					

2.4 Livestock ☐ No ☐ Yes (If so, please verify below:)

2.4.1 Cow:, Buffolo:, Pig:, Chicken:, Duck:, Other:

2.4.1.1 Cow's sell quantity:, Total price: (Riel)

2.4.1.2 Buffolo's sell quantity:, Total price: (Riel)

2.4.1.3 Chicken's sell quantity:, Total price: (Riel)

2.4.1.4 Duck's sell quantity:, Total price: (Riel)

2.4.1.5 Other:, Total price: (Riel)

2.4.2 Challenges

Choose any answer you come across Please tick (✓) on the only answer! Level 1 is not strongly challenged to level 5 is strongly challenged	1	2	3	4	5
Drought					
Other animal diseases					
Lack of technique in raising					
Lack of labor to raise livestock					

Lack of capital for animal husbandry raising					
Lack of sales' market					
Lack of production inputs (food, vaccines, veterinary drugs, etc.)					

2.5 Aquaculture (raising fish, frogs, eels, snakes, etc.)

2.5.1 Do you do aquaculture? ☐ No ☐ Yes (If so, please verify below)

2.5.2 Sell quantity: (kg), Price: (Riel/kg)

2.5.3 Do you want to do aquatic farming? ☐ Yes ☐ No (If so, please verify below)

2.5.4 Please Tumpounide your reasons why do not want to do the aquatic farming:

.....

2.6 Markets

2.6.1 Who do you sell your agricultural products to?

- ☐ Processing company
- ☐ Medium or large broker in local or Pu norng ince
- ☐ Village collectors
- ☐ Agricultural cooperative to which it is a member (If the respondent is a member of the agricultural cooperative)
- ☐ Others (Please specify:)

2.6.2 Where do your buyers bring your agricultural products to?

- ☐ Export abroad (usually exported to Vietnam)
- ☐ Local processing
- ☐ Resale to exporters (usually exported to Vietnam)

2.6.3 Where sources do you know the price of agricultural products from?

- ☐ By phone
- ☐ By telegram
- ☐ Direct contact with local buyers (Establish a regular quote team)
- ☐ By relevant ministries and institutions
- ☐ By organizing a matching forum from relevant ministries and institutions

2.6.4 Have you ever attended a contract farming training course?

- ☐ No
- ☐ Yes

2.6.5 Which ministry or institution is organized by?

☐ Tumpounincial Department of Agriculture, Forestry and Fisheries

☐ Department of Agro-Industry

☐ NGOs

☐ Private sector engaged in contract farming

2.6.6 Transportation

☐ Bulldozer ☐ Tractor ☐ Motorcycles ☐ Horse-drawn carriage ☐ Car

2.6.7 Challenges

☐ Low selling price

☐ Lack of buyers

☐ Lack of market information

☐ Lack of drying facilities

☐

Other:

(Specify.....)

2.7 Agricultural economic analysis (Annual)

2.7.1 Total income from agriculture (Riel)

2.7.2 Total expenditure on agricultural production (cultivation, aquaculture, etc.)

(Riel)

2.7.3 Non-agricultural work ☐ No ☐ Yes (Please specify:.....)

2.7.4 Non-agricultural income (Please specify:..... (Riel))

2.7.5 Expenses and income: ☐ Enough ☐ Not enough

2.7.6 How many months do you estimate the shortage (in days / months)?

2.8 Extension and Information Technology

2.8.1 Have you ever attended a short course in agricultural skills? ☐ Yes ☐ No

2.8.2 Training by which party:

.....
.....

2.8.3 Do you have a cell phone? ☐ Yes ☐ No

2.8.4 Total number of phones: (Units) 4.1 Smart phones units

2.8.5 Have you ever used a smartphone to learn agricultural techniques? ☐ Yes ☐ No

2.8.6 Have you ever used a smartphone to buy or sell agricultural products? ☐ Yes ☐ No

2.9 Community infrastructure

2.9.1 Rubber road number: (Line), Length: (Km)

2.9.2 Road number: (Line), Length: (Km)

- 2.9.3 Red gravel road number: (Line), Length: (Km)
- 2.9.4 Lake , Size: (Cubic meter)
- 2.9.5 River , Length: (Km)
- 2.9.6 School (Building)
- 2.9.7 Health Center (Building)

2.10 Training Needs Assessment

A. Animals and Livestock Production

Please select the training course below, giving priority by ticking (✓)						
Techniques/Animals	Cow	Buffalo	Pig	Chicken	Ducks	Other
Animal husbandry feeding						
Breeding						
Feeds making						
Vaccination						
Disease treatment						
Production preparation (Cage)						
Business planning preparation						
Others						

B. Aquaculture

Please select the training course below, giving priority by ticking (✓)					
Techniques/Aquaculture	Cat fish	Frog	Eel	Others	Others
Raising in plastic bags					
Breeding					
Feeds making					
Vaccination					
Disease treatment					
Production preparation (Reservoir)					
Business planning preparation					
Others					

C. Crops Production

Please select the training course below, giving priority by ticking (✓)

- ☐ Cultivation techniques (soil preparation, net house preparation, seed selection, irrigation preparation)
- ☐ An understanding the use of pesticides and fertilizers and technical standards
- ☐ Breeding or grafting techniques (including cashews, cassava, etc.)
- ☐ Integrated Pest Management (IPM) techniques and treatments on various crops
- ☐ An understanding of safe vegetables and safe vegetable growing techniques
- ☐ An understanding of organic crops and organic farming techniques
- ☐ An understanding of planting techniques in line with Good Agricultural Practices (GAP)
- ☐ An understanding drip irrigation and sprinkler irrigation
- ☐ Organizing production groups or farming communities and other related work
- ☐ Agricultural business planning preparation

D. Nutrition Sensitive Agriculture

Please select the training course below, giving priority by ticking (✓)

- ☐ Training on food safety and nutrition
- ☐ Training on agricultural product processing and preservation technology
- ☐ Training on promoting gender equality and women's nutrition
- ☐ Training on intensive agriculture and agricultural diversification
- ☐ Training on hygiene and food hygiene practices
- ☐ Training on home school garden and food safety education for school children
- ☐ Training on communicable diseases pandemic, health effects and nutrition
- ☐ Training on fundamental basics of nutrition
- ☐ Training on gender equity, women's leadership and agricultural works
- ☐ Training on post-harvest of nutrition losses in value chain
- ☐ Training on strategy and multi-sectors on malnutrition interventions
- ☐ Training on food fortification
- ☐ Training on post-harvest safe handling

E. Contract Farming Implementation

Please select the training course below, giving priority by ticking (✓)

- ☐ Training on general guideline of contract farming

- ☐ Training on monitoring and verification of relevant documents during implementing the contract farming
- ☐ Training on quality control and preparation
- ☐ Training on development of human resource training plan and participation in the implementation of contract agricultural production
- ☐ Training on procedure for requesting and preparation of relevant documents requesting the implementation of contract farming
- ☐ Training on dispute resolution in contract farming
- ☐ Training on packaging and labeling
- ☐ Training on market access and smallholder farmers' connectivity
- ☐ Training on the concept of agri-business cluster

Annex 4.8 Additional questions

I. Agriculture Cooperative

1. Does your indigenous community establish the agriculture cooperative?

- ☐ No
- ☐ Yes (Please specify in the following question)

2. What is the name that agriculture cooperative?

.....

3. How many members in that agriculture cooperative? (Please attach the photo, if applicable)
 Amount of member: (Number of women:)

4. What careers does that agriculture cooperative do?

.....

5. What challenges does that agriculture cooperative come across?

.....

II. Producer Group

6. Does your producer group establish the agriculture cooperative?

☐ No

☐ Yes (Please specify in the following question)

7. What is the name that producer group?

.....

8. How many members in that producer group? (Please attach the photo, if applicable)

Amount of member: (Number of women:)

9. What careers does that producer group do?

.....

.....

.....

.....

.....

10. What challenges does that producer group come across?

.....

.....

.....

.....

.....

III. Revolving Funds Group

11. Does your revolving funds group establish the agriculture cooperative?

☐ No

☐ Yes (Please specify in the following question)

12. What is the name that revolving funds group?

.....

13. How many members in that revolving fund group? (Please attach the photo, if applicable)

Amount of member: (Number of women:)

14. What careers does that revolving funds group do?

.....

.....

.....

.....
.....
15. What challenges does that revolving funds group come across?
.....
.....
.....
.....

IV. Other Farmer Group

16. Does your other farmers group establish the agriculture cooperative?

☐ No

☐ Yes (Please specify in the following question)

17. What is the name that other farmers group?
.....

18. How many members in other farmers group? (Please attach the photo, if applicable)

Amount of member: (Number of women:)

19. What purposes do that other farmer groups do?
.....
.....
.....
.....
.....

20. What challenges does that revolving funds group come across?
.....
.....
.....
.....
.....

21. In order to develop the agriculture cooperative/producer group/revolving funds group, what do you want LASED III project support?

☐ Education and training

☐ Financial support

☐ Business agreement making

- ☐ Contract Farming making
- ☐ Facilitate the private and development partner in the local
- ☐ Physical infrastructure support
- ☐ Other (Please specify:)

V. Fisheries

22. Do you catch fishes traditionally?

- ☐ No
- ☐ Yes (Please specify in the following question)

23. How much do you earn from the traditional fishing?

Please specify: (Riel)

24. Do you spend on traditional fishing materials?

- ☐ No
- ☐ Yes (Please specify in the following question)

25. How much do you spend it?

Please specify: (Riel)

Thanks you!