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# **Improving Food Security for Vulnerable Communities**

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#### ABSTRACT

The food crisis of 2007-2008 and the renewed surge in food prices in 2010-2011 have exposed deep structural problems in the global food system and the need to increase food production. The World Food Summit of 1996 defined food security as existing "when all people at all times have access to sufficient, safe, nutritious food to maintain a healthy and active life". Despite Nepal has no worse food and nutrition security situation among SAARC countries, there are some districts where food is always in shortage. Also some ethnic groups who are bit away from this type of food security system gaining. Some activities are also done by some organizations to them but in few needed term only. The explicit constitutional recognition of the right to food and other related provisions in articles 36 and 42 of the new constitution will be instrumental for implementing food security programs in the country. The food security for the poor people is based on sustainable food production. Many proven technologies and improved practices have promise to boost agricultural production and ensure food security in developing countries like Nepal. Food and Nutrition security program (FANUSEP) is one of the flagship programs of Agriculture Development Strategy 2015-2035 (ADS), which is at the first phase of its implementation. It aims at improving food and nutrition security of the most vulnerable groups of the population.

Key words: Food security, Nutrition, Agriculture, Access To Nutritious Food, Food Production, Health

### Introduction

### 1.1 Concept and definition

The concepts that presently lie at the basis of "food security" and "nutrition security" were established in the early 1940s, during the Second World War, under the background of the severe hunger that affected numerous European populations. With the emergence of the world oil crisis and of the food crisis in the period 1972-1974, the public interest in global and domestic food security grew very fast. These days, many developing countries like Nepal are implementing food and nutrition programs. With an ever increasing population, it is essential that everyone has access to the food and drink they need to survive. Food security is important because everybody has to eat. So food is considered as a basic human right by the United Nations Universal Declaration of Human Rights. Article 25 of it includes the "right to a standard of living adequate for the health and well-being of himself and of his family, including food, clothing, housing and medical care ..."

The World Food Summit of 1996 defined food security as existing "when all people at all times have access to sufficient, safe, nutritious food to maintain a healthy and active life". Food access refers to the affordability and allocation of food, as well as the preferences of individuals and households. Commonly, the concept of food security is defined as including both physical and economic access to food that meets people's dietary needs as well as their food preferences. Household food security exists when all members, at all times, have access to enough food for an active, healthy life.

### 1.2 Food security situation in Nepal

Despite Nepal has no worse food and nutrition security situation among SAARC countries, there are some districts where food is always in shortage. However, Nepal Demographic and Health Survey (NDHS), 2016 has shown that the national household food security is only 48.2% whereas in rural areas the percentage is only about 38.8%. The severely food insecure households are about 10%. Geographically, the mountain region is suffering more from food insecurity where the percentage of food secure households is 38.4% compared to terai where the statistics is about 51%. The severely food insecure households in mountain region are about 13.8% compared to 9.2% of terai region. State wise the Karnali Province has lowest level of food

security (food secure households are only 22.5%) and the severely food insecure households are about 17.5% (NDHS, 2016). Out of 15 high hill districts such as Taplegunj, Solukhumbu, Dolkha, Sindhupalchowk, Rasuwa, Manang, Mustang, Dolpa, Mugu, Humla, Jumla, Kalikot, Bajura, Bajhang, and Darchula; 12 districts, except Solukhumbu, Dolkha, Sindhupalchowk have food deficit situation. Nation wise Nepal is in food surplus situation in most of the years. The problem is in distribution.

### 1.3 Communities and Vulnerable Ones in Nepal

According to CBS (2022), 123 ethnic groups are there in Nepal, where some ways of differences is in between the agricultural productions gaining or just of having subsistence type only. Out of 123 ethnic's some of them are on the situation of not getting full nourished food items. The groups from the classes of the ethnic groups are bit slowing in the name of their own culture, farming ideas with production's slow care. Around 38% population (CDP, 2018) are upon undernourished situation. This population's percentage lie within all the ethnic groups' who are not paying that much attention towards their agricultural production activities from primary to tertiary level. Thus all ethnic groups must march actively for nourished agricultural productions. For this some of the cold storages of more than 35 (EEC, 2012) are on operation. But most of the farmers are not having surplus production for storage doing and some are unknown about this system.

### 1.4 Constitutional provision

In the context of Nepal, right relating to food is one of the fundamental rights provisioned in our constitution. The explicit constitutional recognition of the right to food and other related provisions in articles 36 and 42 of the new constitution is very relevant and timely. It will be instrumental in the implementation of food security programs. The National Human Rights Commission, members of the Constitution Assembly, Nepal Bar Association, farmers groups and human rights activists were very active for their collective advocacy in favor of the constitutional status for the human right to adequate food. FAO Nepal supported the Government of Nepal to promote, protect and monitor human rights in policy formulation, program planning and legislation drafting on food security and right to food in Nepal.

### 1.5 Major policy, plan, strategy and program

Major policy, plan, strategy and program related to food and nutrition security are listed below:

- Agriculture Development Strategy (ADS), 2015-2035;
- Dairy Development Policy, 2007;
- Trade Policy, 2009; National Agricultural Policy, 2004;
- Multi-sectoral Nutrition Plan (MSNP) I & II;
- Agri-business Promotion Policy, 2006;
- •NeKSAP: Nepal Food Security Monitoring System (NeKSAP); and
- Agriculture and Food Security Project (AFSP) 2013-2018.

Some of them are directly related to food and nutrition security and some are indirectly related. The purpose of agricultural policy should be to develop appropriate and sustainable guidelines for promotion of efficient agricultural practices that guarantee food security, generate employment for citizens, provide raw materials for all agricultural industries, and also to acquire foreign currency. Agriculture can work with other sectors of the economy to achieve faster development, poverty reduction and food security.

### Objective

The main objective of this study is to identify the roles of agriculture to ensure food security sustainably needed for fulfilling demands of vulnerable groups in the country.

### 2.Methodology

The methodologies adopted to prepare this paper was: a) review of relevant documents; and b) consultation with the food security work carrying out supporters.

### 2.1 Multidimensional Aspects of Food Security

There are multidimensional aspects of food security and they take into consideration four characteristics both in quantitative and qualitative terms:

 Food availability – availability of foodstuffs in sufficient amount and adequate quality, supplied from the domestic production or from import (food aid included).

- II. Access to food everybody has access (rights) to adequate resources to get adequate and nourishing food; from economic perspective, accessibility means the possibility of individuals and households to procure food either from their own production or by buying it, without sacrificing other basic needs; physical accessibility means access to food for all persons, for physically vulnerable persons included, such as children, sick people, disabled people or elderly people.
- III. Utilization and access stability the access to food should not be endangered by the emergence of sudden shocks (for instance an economic crisis or adverse weather conditions) or cyclical events (e.g. seasonal food insecurity).
- IV. Health the foodstuffs should meet the nutritional requirements, taking into consideration the age, living conditions, health, work, gender, etc.; at the same time, food must be produced under safety conditions for people and free from noxious substances such as pollutants from industrial and agricultural processes, including residues of pesticides, hormones and veterinary drugs.

### 2.2 Challenges

Many challenging issues are having significant yet uncertain impacts on food security. Some of the challenges are as listed below:

- Low production and productivity
- · Fragmented land and scattered production
- Subsistence farming with traditional practices
- Population pressure
- Most of the ethnic groups are not enrolled within good food production distribution segment
- · High costs of production and soaring food prices
- Transportation and distribution problem
- Inadequate food buffer stock
- Backward vulnerable groups are unknown about new trend of agriculture
- Inadequate access to food diversity

Food insecurity remains a serious challenge for Nepal. Agricultural growth provides the principle pathway to tackle this problem. For agriculture to make this contribution, land and labor productivity have to grow to start with. Adaptation strategies and policy responses to global change, including options for handling water allocation, land use patterns, food trade, postharvest food processing, and food prices and safety are urgently needed. Public investment has to lead programs in irrigation and infrastructure, technology generation, prevention of animal and crop diseases and pests and natural resource conservation. It is equally important to take steps to improve access to nutrition and safe food for vulnerable communities.

### 2.3 Agriculture and Food Security

Food security is most often associated with food self-sufficiency and with the need to produce more food. For the low income economies, in which a high percentage of population lives in the rural area and their incomes depend on agriculture, food production growth could be an important element in food security increase, from the perspective of increased incomes for the small farmers. However, food security has much closer links with poverty problems, labor employment and income generation. In the developed countries, the focus lies on food quality and safety and on the social protection of different categories of persons.

The food security for the poor people is based on sustainable food production, and in this context the rational use of resources has an essential role in achieving self-sufficiency in food production. Sustainable agriculture has as main objectives the optimization of soil productivity and at the same time the conservation of basic natural resources. This means that in the agricultural production systems an equilibrium will be maintained between inputs and outputs, between investments and benefits, in the conditions of ensuring an adequate environment quality and promoting an overall sustainable economy. As the rational use of natural resources plays an essential role in agricultural production, one of the most important challenges in reaching food security consists of the increase of food production under the background of soil degradation. While the expansion of food production is vital for achieving food security and reducing poverty, it is also associated with negative environmental consequences. Agricultural activities that underpin food production have been recognized as a major contributor to greenhouse gas emissions, water scarcity and pollution, land degradation, and biodiversity loss. Unsustainable natural resource management also has adverse socio-economic impacts.

Increasing food production along with maintaining natural resources is not an easy task. The growth rate of major cereal yields (wheat, rice and corn) is declining. Increasing food production requires resource-friendly methods, and this will require the development of new mechanization technology. While one of the major constraints on developing and modernizing production in developing countries is the low level of engineering technology in agriculture. Despite its many values and undeniable benefits, which are briefly mentioned above, mechanization is still considered as an input, such as other inputs, like fertilizers, seeds, and chemical protection products and in the most optimistic way, it is one of the combined management tools aimed at maximizing farmers' productivity and profits. Studies show that crop production is more beneficial in areas where agricultural mechanization is provided. According to the research conducted in mechanized agricultural areas, yields were significantly higher than non-

mechanized areas. The use of pesticides was also more effective, and the land and fertilizers were used optimally. This is the need of the world today, achieving food security by preserving natural resources for future generations. Many proven technologies and improved practices have promise to boost agricultural production and ensure food security in developing countries. Here is where agricultural mechanization plays its role, and therefore developing countries need to design a new strategy based on mechanization.

The 2007-2008 food crisis and the renewed surge in food prices in 2010-2011 have exposed deep structural problems in the global food system and the need to increase resources and foster innovation in agriculture to accelerate food production. The development of new technology and management systems in agriculture does not occur over night, it requires long term support for R&D and an environment of cooperation, experimentation and learning with efficient and free flow of information and a shared research agenda. Adequate and long term financial support from national and international public sources is most important. The adoption of new technology and innovative practices in production requires an enabling policy framework and adequate investment in infrastructure, capacity development among farmers, as well as access to inputs, credit and markets in a process where governments play a key role in directing resources and creating incentives to ensure these conditions. Radical transformation of agriculture for food security is possible when there is political will and long term commitment—from national and international stakeholders. The challenge of increasing agricultural production for food security nowadays is far more complex than in the past and will require strengthened systems of innovation with the flexibility to respond to the specific needs of farmers in a variety of ecological and socio-economic contexts (Lipton, 2010), without expanding the agricultural frontier and with sustainable use of natural resources.

Agriculture and food security are characterized by gendered dimensions in that women play a key role in agricultural production, food processing and marketing. They play a decisive role in dietary diversity and are responsible for nutrition in the home. In addition, women are involved in the production and domestication of plants and animals; they are knowledgeable in seed selection and vegetative propagation; they understand how plants and animals grow and reproduce; and they plant trees. While the roles of women in agriculture vary widely by region, age, ethnicity and social station, their participation rates in the agricultural labor force in NEPAL is probably the highest in the SAARC countries.

### 2.4 Measures for Inclusion of Vulnerable Groups towards Food Security System

- → focus towards vulnerable groups inclusion upon local agro-service meetings
- → attention of their attendants during postproduction scheme
- → their equal flow towards rural market managing programs
- → good inclusion towards equal agriculture benefit sharing

### 2.5 Current Food Security Programs

Food and Nutrition security program (FANUSEP) is one of the flagship programs of Agriculture Development Strategy 2015-2035 (ADS). It aims at improving food and nutrition security of the most disadvantaged groups of the population. It consists of three subprograms: the Nepal Food Security Project (NAFSP, the Food and Nutrition Security Action Plan (FNSP) and Food and Nutrition Security Enhancement Project (FANSEP) implemented to complement NAFSP and FNSP. The commonality of the subprograms of FANUSEP is to target the poor, the disadvantaged groups and the geographically disadvantaged areas. The program is promoting interventions that improve productivity, livelihood, and nutritional practices of targeted beneficiaries including pregnant and lactating women farmers. Nepal multi-sectoral Nutrition Plan (MSNP 2013-2017) has also identified the food and nutrition security as a key issue and the project was able to contribute in the achievements of MSNP to some extent.

The Government of Nepal (GoN) designed Agriculture and Food Security Project (AFSP) to enhance food and nutrition security of the residents of selected location of 19 project districts in mid and far western regions of Nepal with competitive grant support of US \$ 46.5 million from GAFSP and US\$11.5 million GoN. The project was for 5 years' period starting from 1st April 2013 to 31st March 2018. It was envisaged that food security would be realized through increased food availability, made possible by increased productivity of both crop and livestock whereas nutrition security would be realized through improved dietary intake, promotion of diversified diets, and improved feeding and caring practices for pregnant and nursing women and children below 2 years of age.

Although various collaborative efforts have been made to promote nutrition sensitive agriculture in Nepal; as it is a multi-dimensional and multi-functional nature, need more attentions for collaborative efforts on planning, implementation, monitoring/feedback and sharing results and lessons learned.

### 3.Conclusion

Food security in Nepal is associated with food self-sufficiency and food self-sufficiency can be achieved through the implementation of production oriented programs. The present day agriculture of Nepal has been feminized due to outmigration of youths from both normal and vulnerable groups. Those vulnerable groups staying in their house are not showing that much care towards food security programs carried out by their own local area.

Then also women from this both groups (normal and vulnerable groups) are playing a key role in agricultural production, food processing and marketing. Hence, their role in food security is vital. Studies show that agriculture production is more beneficial in areas where agricultural mechanization is provided. Research should be focused on developing vulnerable groups and women friendly farming machines.

Thus all the vulnerable groups must be giving high priority for the use, storage and selling of the produced food items. For this the local government and central government must take care about the local agriculture system with the skilled capacity enrichment within vulnerable plus normal groups of people. The local agendas relating implementation and output must support vulnerable groups i.e. communities highly for development in the name of agriculture and food security. This part will obviously support for towards increase in food security needed for upliftment of vulnerable groups. Surely this type of activity will support upon increasing economic status of the vulnerable groups and good supportable help upon poverty reduction terminology.

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