



An overview of agricultural mechanization in Nepal

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Abstract

Increased migration of the youth from Nepal has created a demand for mechanization in Nepalese agriculture. The systematic agricultural mechanization can lead towards the sustainable agricultural commercialization for a prosperous Nepal. This paper analyzes the efforts, status, and policies related to agricultural mechanization and recommends policy reforms to align with the new constitution of the Federal Republic of Nepal, institutional capacity building, business development, favoring local production of agricultural machinery, promotion of custom hiring in business model, capacity development, promotion of women-friendly technologies, equitable agricultural mechanization program, and an integrated effort for sustainable agricultural mechanization through a public-private partnership model.

Keywords: Agricultural mechanization; Policy; Spread; Commercialization; capacity development

1. Background

Agriculture is the backbone of the Nepalese economy due to its contribution to National Gross Domestic Product (GDP) by one-quarter and to employment by two-thirds [5]. Nepalese agriculture is dominated by smallholders' subsistence agriculture. Due to the open border with India, the migration of youth in the lean agricultural season in search of a job is a common phenomenon in the hills and mountains of Karnali and Far Western provinces. The migration of youth to foreign countries other than India sharply increased during the last two decades. The rural unemployment and unattractive traditional subsistence agriculture practice of Nepal along with the globalization and development of information and communication technology (ICT) are recognized as the major factor behind the increased foreign migrations. It is reported that the Department of Foreign Employment (DOFE) has issued over 4 million labor approvals to Nepalese workers in the last decade since 2008/09 for foreign employment [6]. The majority of these workers are male youth from rural areas resulting in the labor shortage in peak agricultural season and increased work burden on women farmers [13]. The lack of agricultural labor and their increased daily wage has resulted in the demand for agricultural mechanization in Nepal. Hence, the migration of youth can be regarded as a major driver for the increasing demand for agricultural mechanization. In addition, due to the expansion of transportation and communication networks in the country and the remittance money flow, small-town market centers have formed throughout the country, creating a conducive environment for commercial agriculture. Moreover, the foreign returnee youths have started investing in commercial agriculture and created a demand for appropriate mechanization technologies. In this context, this paper reviews and analyzes the mechanization efforts, status, policy programs, and future directions.

2. Efforts on promotion of agricultural mechanization in Nepal

The timeline of institutional efforts related to agricultural mechanization promotion is presented in Table 1. The foundation of agricultural mechanization was laid by the first agricultural engineer of Nepal, Huta Kam Baidhya, who was instrumental in establishing the Agricultural Engineering Unit at Singhadurbar, where he started modern carpentry and metal workshop [7]. On that foundation, the second agricultural engineer, Mr. Siddi Nath Regmi made a strong contribution to agricultural mechanization by establishing Agricultural Implement Research Unit at Ranighat, Birgunj where he started tests and promotion of animal-drawn metal plough and other modern tools and machinery in the Terai region of Nepal. With the support from the Union of Soviet Socialist Republics (USSR), Agricultural Tools Factory (ATF) was established in 1964 and made a significant contribution to the agricultural mechanization of Nepal by the production and supply of modern agricultural tools and machinery, viz., metal animal-drawn mould-board plough, disk harrow, thresher, pump set, tractor-trailer, wheelbarrows, hand hoes, etc. At that time the Agricultural Implement research unit at Ranighat served as a research wing of ATF. Mr. Siddi Nath Regmi also served as the General Manager of ATF for two terms and contributed to agricultural mechanization through the production and supply of modern agricultural tools and machinery to Nepalese farmers. During his tenure as the General Manager, the ATF was running in profit and provided a bonus to their employees and he was also awarded by the Management Association of Nepal (MAN) as the best manager (personal communication of author with Mr. Regmi).

Japan government-supported project "Janakpur Agriculture Development Project (JADP) was started in 1971 and under this project the shallow tube well, deep tube well, power tiller, and threshers were promoted in the Terai region of Nepal. Similarly, after the establishment of the Agriculture Development Bank (ADB), more fund was made available for agricultural credit (including agricultural mechanization technologies, viz., tractor and

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