JAPANESE COOPERATION IN THE HORTICULTURE DEVELOPMENT OF NEPAL

Narendra Kumar Gurung

e-mail: narengurung@gmail.com sachetna7@yahoo.com

Prelude of Japanese Assistance of Agriculture Sector

- Mount Manaslu (8163 m) was submitted by the Japanese Alpine Club in May 09, 1956
- Vegetable seeds and cultivation practice were transferred to the villagers along the trial road
- Rapti Model Agriculture Farm started in 1960 in Chitawan Valley
- Tokyo Agricultural University, introduced numbers of vegetables, horticultural, and cereal crops
- Four volunteers (4) in 1970 sent to understand the Agri. situation
- Janakapur Agriculture Development Project (JADP)
- Hardinath Agriculture Farm (1972 to 1974)
- Intensive Agriculture Program (IAP) (1975 to 1979)
- "Tube well Irrigation, Agriculture Training and Services Project" 1979 till 1982.
- A Follow up cooperation scheme (November 02, 1982 to November 01, 1984
- "Terai Irrigation, Agriculture Training and Support Program (1984 June 26, to 1989).

Out Puts of JADP

- Horticulture Farms were established- Sindhuli, Ramechap, Nakjhii, Hardinath, Janakpur, Sarlahi
- Various vegetables cultivation practices were adapted & practice of taking vegetables in the daily meal.
- Japanese varieties of vegetable and fruits introduced with nurseries practices and sapling distribution e. g. mangoes, banana, grapes, jack fruits, pineapples, jack fruits, guava
- Qualities of local fruits as Junar were improved & up-scaleMore than 100 ha. of Junar orchards were developed
- Watermelons with different varieties were introduced
- Numbers of Horticulturist were trained in Japan. Income of farmers was increased.

HDP Phase I (October 14, 1985 to October 14, 1990)

Purpose

 To develop the fruit production in the hill areas through technical development and training To contribute to increase farmers' income and upgrading their living standard through diversified farming

Outputs

- 15 counterpart obtained training
- Physical facilities were developed with lab facilities
- Model farm level infrastructures in Sindhuli, Ramechap and Nepalgunj were constructed.
- Horticulture crops such as citrus(Junar), grapes, & chestnuts
- Focus on the varieties selection, grafting, indexing methods and nurseries establishment at the farmers' fields.
- 766 farmers and 122 JT/JTAs were trained with 65 field demonstration activities
- 110 nurseries activities were implemented
- 16 blacksmiths were trained to prepare the different types of farm equipment & tools
- Total budget spent was 1,456,,973,000/ under the TCP and Grant Aid scheme.

Horticulture Development Project II

Project period five years (Nov. 1992 to Oct. 1997).

Objectives

- To develop fruit production particularly in hilly areas through technological development, training and extension, thus
- To contribute to the promotion of horticulture development of Nepal at large.

Project Areas

Kathmandu, Bhaktapur, Lalitpur, Kavrepalanchowk, Sindhuli and Ramechap

Activities

- improving the techniques of fruit production, agro mechanization,
- different level of training to farmers & government officials
- extension services at the farmers' level

Horticulture Crops

- Japanese variety of pears, grapes, chestnut, Junar, Suntala and persimmon selection of suitable variety;
- propagation; tree management; soil & plant nutrient management covered;
- plant protection from insects, pests, diseases & birds; and harvesting & storing techniques done

Outputs

- 9 demo. 3 sub demo were developed
- 12 private nurseries devt.
- 33 ha. of deciduous fruits;

- 200 ha, of citrus orchard established
- · Devt. farm equipment and tools
- 9 blacksmith were trained
- 477 secateurs, 388 saws, 103 harvesting scissors,
- 276 grafting knives, and 66 harvesting bags.
- Two senior staff obtained higher studies in Japan
- 32 JT/JTAs were trained through the cascaded approach in 4 batches.
- Altogether 2,183 leader farmers, Demo-farm owners were trained,
- Kirtipur Horticulture center considered as center of Excellence for mid hills region
- Trained manpower to be retained in the center

Follow up for the HDP I & II

- Project Period November 12, 1997 to November 11, 1999.
- Goal and the purpose of the Follow up were the same as in the phase I and II
- Total of 20 JT/JTAs, 224 farmers, 213 women farmers 20 nurseries men, 12 blacksmith were trained.
- The final evaluation concluded that Follow up has successfully accomplished.
- Also reiterated that Kirtipur Horticulture Center should be developed as the center of Excellence for Horticulture Development
- · Also recommend to ensure adequate budget.

Horticulture Extension Program (HEP) through Volunteers

- Project Period July 15, 2002 to July 14, 2007
- Project areas were, Lalitpur, Kathmandu and Bhaktapur
- Horticulture crops were same as in HDP I, II & Follow up
- Later on the review of the project done and down size its project areas as well as the target communities

Pocket Agriculture Development Program on Vegetable Production

- Group of Volunteers were involved
- Project period July 16, 1989 to July 15, 1993
- Five village development committees (VDCs) of Kaski

Objectives

- Transfer the simple but effective technical skills to the farmers
- Adapt inexpensive techniques to produce the seasonal and off season fresh vegetable
- Seeds multiplication for raising the income.
- Similar project was implemented in Panchkhal of Kavre

Impact of the PADP

- Different improved varieties of vegetables were introduced and well adapted at farmers condition.
- Farmers' were able to produce vegetable seeds
- Taking vegetables in the daily meals were developed.
- Farmers' income through vegetable selling increased by three folds

Tea Sector Development

- "Himalayan Tea Technology Outreach and Extension Program"
- Period, 3 years 2004-2007), Areas: Ilam and Panchthar

Objectives

- Improve the service delivering mechanism of tea production
- Train Tea technician, Leader farmers and JT/JTA
- Establish soil test facilities and extended services

Achievement

- Extend technical assistance of Tea cultivation,
- · Various technical manuals on tea cultivation prepared and distributed
- Mini project on Peace building thru Tea sector (June 2008 to March 2009).

Agriculture Training and Extension Improvement Project (ATEIP)

Objectives

Improve the agriculture training & extension

Outputs

- Practical training is imparted to extension workers & farmers,
- Farmers' need based extension services are delivered
- Different services providers in agri. Development

Target Districts

Rasuwa, Nuwakot, Dhading, Makawanpur & Sindhupalchowk

Period

Jan. 2004 to Jan 08 2009.Budget: 368 million Yen

Result

- Training and Demonstration (T/D) Farms were established
- Extension Model Farmers were developed
- Agriculture Development Committee (ADC) were established

Study "High Value Agriculture Extension and Promotion Project in Sindhuli Road Corridor in Nepal" (SRCAMP)

Objectives

- to promote commercial development of potential agriculture products in Sindhuli corridor areas
- To transfer the relevant skills and technologies to CP and beneficiaries through pilot activities and on the job training.

Period

July 2010 (three years)

Study Areas

- · Sindhuli, Ramchap, Dolakha & Kavre.
- The study has been accomplished, and project is under implementation as per the study.

Sindhuli Road Corridor Commercial Agriculture Promotion Project (SRCCAP)

Period

December 14, 2014 (five years)

Project Areas

Sindhuli, Ramechap, Dolakha and Kavre.

Goal

• to improve the agricultural income of farm households in the project areas through agriculture commercialization

Outputs

- Farming system of producing marketable products of producers' group shall be established
- Service outreach and delivery of pvt sectors shall be improved
- Improve the skill & capacity of counterpart agency for the implementation and coordination of promotion of agricultural commercialization.

One Village One Product (OVOP)

- The concept or/and strategy of OVOP introduced
- Government adopted OVOP policy, Program
- Coffee production and promotion

Volunteers in the Agriculture (1970 to 2016)

- Total Volunteers in Agriculture 186
- Fruits, Vegetable and Horticulture 124

Studies

- "Agricultural marketing Development Project in the Kingdom of Nepal" May 2001.
- "Study on Floriculture Development in Nepal, 2003/4"

Highlights on the Outputs

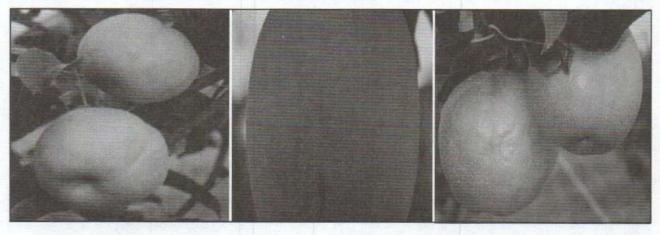
- Tropical, sub-tropical fruits and vegetable are introduced and developed
- Practice of taking Fruits and vegetable in the daily meal and also increase in income generation
- Human resources on Horticulture at the farmers and Govt.
- Infrastructure at the field and central level developed
- Kirtipur Horticulture center is developed as national center of excellence

Conclusion

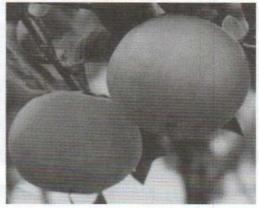
- JICA's cooperation, is a seamless assistance.
- Horticulture devt. from inception to market led intervention
- Explore the potentiality hill's agro biodiversity for horticulture devt.
- JICA's cooperation in this sector is in line with govt. policy, program.
- Human resources at farmers and government organization level developed
- Time to scale up at the national level with necessary policy, program and adequate budget.



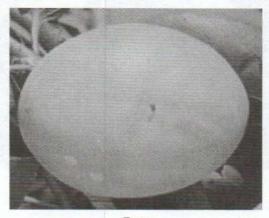
Recommended Variety of Japanese Pear



Japanese Persimmon



Jiro

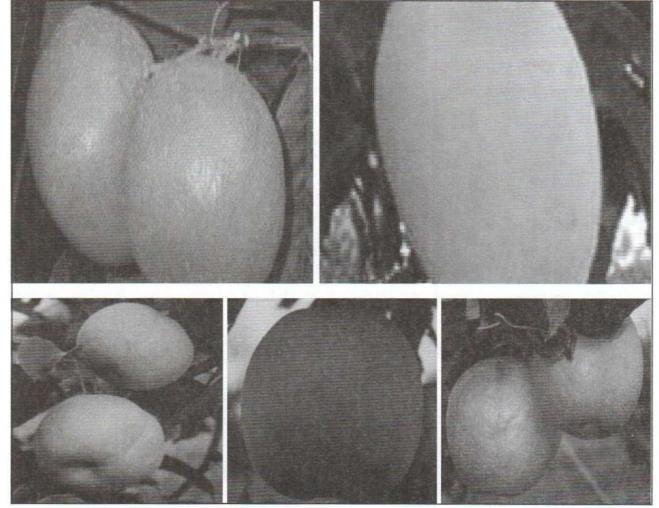


Fuyu

Recommended Variety of Grapes



Steuben Kyoho Himrod



Hosui Chojuro Shinko