

Final Report

on the Implementation of “Cooperation for Flowers and Vegetables Technology” , the Perez-Guerrero Trust Fund Project (Int/DRK/04/001/8F)

October 26 2004

The DPRK's proposal entitled “Cooperation for Flowers and Vegetables Technology ” was approved at the 27th Ministerial Meeting of the Group of 77 held in New York on 25 September 2003 with the PGTF grant US\$ 40,000.00 for the project after the 18th Meeting of the Committee of Experts of the Perez-Guerrero Trust Fund for ECDC/TCDC in New York from 29 July to 1 August 2003 considered that the project proposal complies with the guidelines for utilization of PGTF and recommended it to the Ministerial Meeting of the Group of 77.

The Government of the DPRK(UNDP National Coordination Committee of the DPRK) as executing agent made a sub-contract along with a workplan with the Pyongyang Horticulture Group as implementing institution to implement the approved project.

Before the start of the project the PGTF has sent US\$ 36,000.00, the first disbursement (90%) out of the funds allocated withholding US\$ 4,000.00, the second disbursement (10%) to be released after submitting a final report.

This report presents the activities and a bill relevant to the performance of the PGTF project Int/DRK/04/001/8F.

1. Background

The present lack of technologies and funds for flower and vegetable cultivation constitutes one of major factors affecting the economic development, in particular the food production in the developing countries. Furthermore, the current severe global environmental degradation underlines the need for the developing countries to intensify joint efforts to develop the flower and vegetable cultivation technologies through their technical cooperation, so as to preserve the environmental sustainability and bring economic benefits to the people's life.

Technical Cooperation among Developing Countries(TCDC), based on the principle of the collective self-reliance, is regarded as one of the best options to provide the sustainable livelihoods to the population of developing countries by addressing all issues concerning sustainable development by themselves.

The Pyongyang Horticulture Group (PHG) of the DPRK has made great successes in researching and resolving the technical issues relating to water supply, fertilizer, selection of variety, freshness of flower and vegetable and their transportation, which constitute major challenges in the flower and vegetable cultivation in other developing countries as well. The Group has also gained the valuable experiences enough to assist the developing countries in their efforts to develop their horticulture industry.

Regarding it as one of the important policies in its activity to adhere to the principle of the collective self-reliance among the developing countries and guaranteeing that the implementation of the project would make effective contribution to increasing the output of flowers and vegetables and addressing the environmental pollution in the participating countries, this project was proposed to perform the following activities:

- Study of the real situation at the target countries of breeding and tissue cultures of flowers and vegetables, disease and pest control and cultivation ways
- Investigation and analysis of the data necessary for the industrial production system of flower and vegetable

- *Formulation and provision of guidelines necessary for the flower and vegetable research work and industrial production system*
- Establishment of research and trial bases at various points in the target countries to facilitate well-balanced selection of variety of flower and vegetable and cultivation methods with the geographical specificities.
- Regular notification and exchange of results and experiences from research works in the target countries
- Short-course training of competent technical experts responsible for dissemination of the knowledge and experiences learned

The project would contribute to advance of economy and improvement of living standards of the peoples by developing modern technology and methods of breeding and culture of flower and vegetable to the specific conditions of Ethiopia, Mali, Sudan, Tanzania and DPR of Korea on the principle of the collective self-reliance.

2. Activities for implementation of the project

The D.P.R.K Government has formed an organizing committee led by Mr.Ri Song Chol, programme coordinator of the UNDP National Coordination Committee of the D.P.R.K and Dr. Kim Yong Chol, vice president of Pyongyang Horticulture Group, as a chief consultant.

The committee appointed 2 technical consultants with over 30 years history of research and development of flower and vegetable and ready for successful implementation of project.

From July 2003 to March 2004, it performed the following activities: 4 meetings of executive committees and selection of participants (13), preparation of accommodations and materials and places for training.

The training workshop was successfully held in the Grand People's Study House at the central area of Pyongyang city, D.P.R.K on 6-13, April 2004.

At the opening ceremony Dr. Kim Yong Chol, vice president of PHG made an opening speech and the lecturers and participants were introduced as well as the schedule of the training course.

The participants from Ethiopia, Mali, Sudan, Tanzania, Uganda and D.P.R.K are on the list in Appendix 1 and the titles of lectures in Appendix 2.

Each of them was supplied with 4 pamphlets on the flower cultivations, 3 pamphlets on the vegetable breeding cultivation and seed selection, 5 tissue-cultured seedlings of *Kimilsungia* and a bulb of *Kimjongilia*.

The workshop gave them the room lectures, presentations, scientific film shows and field visits to Hydro-Culture Green-house, Botanical Garden and Grand People's Study House, through which participants were able to acquire and exchange the practical and applicable knowledge and experiences.

At the closing ceremony on 12 April, Dr. Kim Yong Chol congratulated participants with a closing speech, awarding the certificates. On behalf of the participants Mrs.Tabu Ally Likoko from Tanzania read a letter of thanks to the great leader General **Kim Jong IL** for his deep attention given for the successful implementation of the project "Cooperation for Flowers and Vegetables Technology".

All the participants unanimously acknowledged that the project fairly contributed to the South-South Cooperation on the principle of the collective self-reliance in the developing countries and made up their minds to disseminate fully what they learned here to their peoples for their benefits.

3. Results of Project Implementation

- Information was formulated on the real situation of breeding and tissue cultures of flowers and vegetables, processing methods and disease & pest control, industrial production system of flower and vegetable in the participants' countries.

- The guidelines were supplied for research work and industrial production system of flower and vegetable.
- The target countries would be able to have research and trial bases in various points for distribution and cultivation methods of flower and vegetable specific to their geographical conditions.
- The guidelines supplied for research methods of flower and vegetable specific to the countries.
- The system of notification and exchange of results and experiences of research work among the target countries was established to promote research work in this field.
- 13 technical experts of flower and vegetable are qualified for the development of flower and vegetable research work

4. Conclusion

Together with beauty and aroma, flower and vegetable gives people income and food. Demands of flower and vegetable continue to be on rise at markets, which makes more possibility to extend incomes and food supply for the people. We have found through the project that it is very important to work together for friendly cooperation among the developing countries to grow flower and vegetable well in stable farming environment free from pollution.

Pyongyang Horticulture Group would like to express its appreciation to the Group of 77, the Perez-Guerrero Trust Fund, UNDP and the Governments of the participating countries for their sincere supports and concerns to the implementation of the project.

5. The fund by the Perez-Guerrero Trust Fund (US\$ 40,000) was spent for the Project Implementation in an accountable way as below.:

No	SPECIFICATION	COST(US\$)
1	PERSONNEL	
	project manager	\$3,550.00
	Consultants	\$2,800.00
	Traninees	\$5,660.00
2	TRAVEL	\$13,100.00
3	EQUIPMENTS	\$8,440.00
4	PLOTS FOR EXPERIMENTS	\$2,290.00
5	MATERIALS FOR EXPERIMENTS	\$1,560.00
6	DOCUMENTATION	\$1,400.00
7	DATA PROCESSING	\$1,200.00
		\$40,000.00

APPENDIX 1

LIST OF PARTICIPANTS

No	NAME	COUNTRY	SEX	AGE	OCCUPATION
1	<i>Betty Mugoya Mainza</i>	Uganda	F	53	Horticulturalist/Secretary to the Uganda Floricultural Association
2	<i>Adll Abdella Rabih</i>	Sudan	M	47	Horticulturalist/Head of the Sudan Botanical Garden
3	<i>Tadesse Debebe</i>	Ethiopia	M	44	Horticulturist, the Department of crop production and protection technology regulation of Ethiopian Ministry of Agriculture
4	<i>Tabu Ally Likoko</i>	Tanzania	F	39	Senior Agricultural Officer Responsible for horticulture issues
5	<i>Mamadou Kante</i>	Mali	M	42	Horticulturalist/Doctor of Agricultural Science
6	<i>Li Yong Su</i>	D.P.R.K	M	38	Researcher, Pyongyang Horticulture institute, DPRK
7	<i>Jong Su Ryong</i>	D.P.R.K	M	36	Researcher, Pyongyang Horticulture institute, DPRK
8	<i>Ryom Gyong Suk</i>	D.P.R.K	F	29	Researcher, Pyongyang Horticulture institute, DPRK
9	<i>Sim Hye Yong</i>	D.P.R.K	F	32	Researcher, Pyongyang Horticulture institute, DPRK
10	<i>Jong Mun Il</i>	D.P.R.K	M	34	Researcher, Pyongyang Horticulture institute, DPRK
11	<i>Li Jong Hui</i>	D.P.R.K	F	29	Researcher, Pyongyang Horticulture institute, DPRK
12	<i>Kim Myong Ho</i>	D.P.R.K	M	41	Researcher, Pyongyang Vegetable Science Institute, DPRK
13	<i>Kim Ki Son</i>	D.P.R.K	F	43	Researcher, Pyongyang Vegetable Science Institute, DPRK

APPENDIX 2

L E C T U R E S

1. 《Characteristics and culture method of immortal flower Kimilsungia》
by Dr. Kim In Gi
2. 《Ways for increasing soil fertility by new leguminous green manure crops》
by Prof, Dr. Kim Yung Hui
3. 《F1 hybrid breeding and seed production technique of cabbage by using self-incompatibility》
by People's Sci. Assoc.Prof, M. Sc. Kim Gyong Son
4. 《Overview and prospect of world flower industry development》
by Dr. Assoc.Prof Li Ung Ho
5. 《The characteristics and the culture of immortal flower KimJongilhwa》
by Assoc.Prof, M.Sc. Li Gum Ran
6. 《Technology for vegetable multi-cropping cultivation》
by Dr. Assoc.Prof Ham Gyong Son
7. 《Characteristics and culture method of chrysanthemum》
by Assoc.Prof, M.Sc. Li Chol Jun

APPENDIX 3

ITINERARY OF THE WORKSHOP

6 April 2004 Tuesday

Arrival in Pyongyang, DPRK by Air

7 April 2004 Wednesday

Visit to the Grand People's Grand Study House

Opening ceremony

Lecture: the characteristics and culture method of royal flower
Kimilsungia

Ways for increasing soil fertility of the arable land by new
leguminous green manure crops

F1 hybrid breeding and seed production technique of cabbage
by self-incompatibility

Overview and prospect of world flower industry
development

8 April 2004 Thursday

Lecture: The characteristics and culture of immortal flower
Kimjongilia

Technology for vegetable multi-cropping cultivation

Scientific film show

9 April 2004 Friday

Visit to Green House and Central Botanical Garden

10 April 2004 Saturday

Visit to Mt. Myohyang

11 April 2004 Sunday

Visit to Kimilsungia-Kimjongilia Exhibition Hall

12 April 2004 Monday

Lecture: The characteristics and culture of Chrysanthemum

Visit to the Exhibition Hall

Closing Ceremony

13 April 2004 Tuesday

Departure from Pyongyang, DPRK

APPENDIX 4

Pictures taken during the workshop “Sooperation for Flowers and Vegetables Technology”, the Perez-Guerrero Trust Fund Project (INT/DRK/04/001/8F)

PYONGYANG INTERNATIONAL TRAINING ON COOPERATION FOR FLOWERS AND VEGETABLES TECHNOLOGY (6-13 Apr 2004, DPRK)



FIELD VISITS



VEGETABLE GREENHOUSE



FLORAL GREENHOUSE



OPENING CEREMONY



LECTURES



CLOSING CEREMONY



Tabu Ally Likoko from Tanzania reads a letter presenting to the great leader General Kim Jong Il