

Program Description of Training Course on Grain Loss Reduction and Benefit Increase for Developing Countries

| | | | |
|--------------------------------------|---|--|--|
| Name | Training Course on Grain Loss Reduction and Benefit Increase for Developing Countries | | |
| Organizer | Yuan Longping High-tech Agriculture Co.,Ltd. | | |
| Time | August 2 nd ~August 29 th , 2023 | Language | English |
| Invited Countries | Related agricultural personnel from the Developing Countries | | |
| Requirements for Participants | Age | General director under 50 years old, director under 45 years old, technicians under 45 years old | |
| | Physical Health | In good health with health certificates or medical examination forms issued by local public hospitals; without diseases prohibited from entry by China's laws and regulations; without severe chronic diseases such as serious high blood pressure, cerebrovascular diseases and diabetes; without mental illnesses or infectious diseases that may pose serious threats to public health; not during the postoperative recovery period after a major operation or during the outbreak period of acute diseases; without severe physical disability; non-pregnant. | |
| | Language Ability | Fluency in listening, speaking, reading and writing in English | |
| | Others | Participants who come to China for training are not allowed to bring spouses or relatives. | |
| Host City | Changsha City, Hunan Province | Local Temperature | Summer: 28°C-36°C |
| Cities to Visit | Guilin City, Guangxi Province Shaoshan City, Hunan Province | Local Temperature | Guilin City, Guangxi Province: 28°C-36°C Shaoshan City, Hunan Province: 28°C-36°C |

| | |
|--|---|
| <p style="text-align: center;">Notes</p> | <ol style="list-style-type: none"> 1. Please prepare valid passport and visa in advance. 2. The country report presentation meeting will be held for participants in the training course. Please prepare the report for exchange on grain loss reduction and benefit increase technology in advance. 3. When your flight fails to depart on time or delays in transfer because of special conditions, please inform us timely of your updated flight information so we can arrange our pick-up staff. 4. Basically, personal change of international flight tickets is not allowed, and if really needed, please contact the Economic and Commercial Counselor's Office of Chinese Embassy to change your tickets. In case of personal change of tickets without the agreement of the Office, you will be responsible for the fees and other unpleasant things happening thereof. 5. While transferring, please figure out whether you need to check in your baggage again; after your arrival at the airport and claiming your baggage, please wait at the international arrival exit (or domestic arrival exit) where our pick-up persons will pick you up, holding the pick-up cards with the title of the organizer Long-ping High-tech as well as the training course. If you fail to meet our pick-up persons, please contact us in time. 6. Before filling the registration forms in case of the loss of your checked baggage, please contact us to confirm the baggage delivery address. 7. Please check the weather condition of Changsha city, Hunan province and prepare the proper clothing before you come to China. For field visiting, lightweight footwear is suggested and for important activities during the training course, please prepare formal suits or ethnic suits. 8. Please also take some medicine with you according to the doctor's prescription in case of emergency. |
| <p style="text-align: center;">About the Organizer</p> | <p>Yuan Longping High-tech Agriculture Co., Ltd. (hereinafter referred to as Longping High-tech) is an international seed company named after the Academician Yuan Longping, the "Father of Hybrid Rice". CITIC Group is the controlling shareholder. Established in 1999 and listed in 2000, Longping High-tech ranked the 8th of seed industry around the world in terms of comprehensive strength in 2018. Longping High-tech is awarded as "China-aid Hybrid Rice Technology Training Center" by the Ministry of Commerce of China.</p> <p>Longping High-tech is mainly engaged in the seed business of hybrid rice, maize, vegetable, millet, edible sunflower, wheat, cotton and rape, and provides agricultural services such as new-type professional farmers training, precision planting, quality grain trading, field restoration and development, brand agriculture, agricultural finance, and etc.. The company built a globalized commercial breeding system with the R&D investment more than 10% of its operating income, and Longping High-tech has established R&D centers in China, the Philippines, Pakistan, India, Brazil and the USA, etc..Its R&D and innovation capability of main crop seeds rank at the top level in the world.</p> <p>Seizing the opportunity provided by the Belt and Road Initiative, Longping High-tech makes full use of its leading position in rice and maize seed industries and promotes its international operations around the world with subsidiaries established in the Philippines, India and Timor-Leste and trade ties with more than 40 countries and regions. At the same time, Longping High-tech actively carries out international training programs and agriculture cooperation, and has trained nearly 10,000 agricultural</p> |

| | |
|--------------------------------|--|
| | <p>talents from more than 100 countries in Asia, Africa and Latin America. Besides, it has undertaken more than 20 China-aid projects on technical cooperation, helping recipient countries develop agriculture and solve food security issues with China's advanced agricultural technology, and making significant contributions to the establishment of a global food security system.</p> |
| <p>Training Content</p> | <p>This training course will focus on introducing and sharing the whole process of grain loss reduction from grain production, grain storage, grain transportation, grain processing to grain consumption and other related topics as China's National Condition and Opening-up Policy, Chinese Transnational Culture and other agricultural topics.</p> <p>1. Main training content and the outline in brief</p> <p>(1) China's national conditions and achievements in reform and opening up: Introduction to China's development status of politics, economy, society, culture, etc and China's successful experience in policies of Reform and Opening up.</p> <p>(2) Overview of China's agricultural development: Introduce the main achievements of China's agricultural development; introduce the basic experience of China's agricultural development; the future countermeasures of China's agricultural development.</p> <p>(3) Overview of the production of major food crops in China: Introduction to the types and distribution characteristics of major food crops; planting areas and yields of major food crops; key points of cultivation techniques for increasing yields of major food crops, etc.</p> <p>(4) Post-harvest grain loss reduction and benefit enhancement and world food security: Introduction to the current situation of post-harvest grain loss reduction and benefit enhancement in China, related measures and the results achieved; discussion on how to mitigate the world food security crisis through loss reduction and benefit enhancement; exchange and discussion on the theme of post-harvest loss reduction and efficiency enhancement and world food security.</p> <p>(5) Grain production and harvesting loss and benefit reduction technologies: To explore ways and means to reduce loss and increase benefit in the whole process of grain production in the field, from precision sowing, drug and fertilizer reduction and other measures, and to explore ways to reduce loss and increase benefit in the process of grain production to harvesting.</p> <p>(6) Grain storage, processing and packaging technologies: Introduction to grain storage, processing and packaging technologies to reduce losses and increase efficiency; explains the technical aspects of grain storage, processing and packaging, and discussion of the important role of grain storage, processing and packaging technologies in reducing losses and increasing efficiency.</p> <p>(7) Food logistics, marketing and consumption efficiency reduction techniques: Introduction to food logistics, marketing and consumption efficiency reduction techniques, and description of the skills of food logistics, marketing and consumption to reduce losses and increase efficiency.</p> |

(8) Food waste resource utilization technology: Introduction to food waste resource utilization technology.

(9) Science and Technology Innovation and Grain Loss Reduction: Introduction to the application of modern science and technology and help grain loss reduction and benefit increase.

(10) Application of bio-technology in grain comprehensive usage: Introduction to the application of bio-technology in the grain comprehensive usage.

2. Contents of Exchange and Discussion

(1) Hybrid rice and world food security: Introduction to hybrid rice extension and achievements, the basic principle of hybrid rice, discuss how to develop hybrid rice to solve the world food security.

(2) The current development and trend of the whole industry chain of rice: Discuss the current development and trend of the whole industry chain of rice.

(3) Country report presentation meeting among developing countries: According to the current condition of grain loss reduction and benefit increase in developing countries, discuss the difficulties faced by developing countries and find the problems needed to be solved in the whole process of gain loss reduction and benefit increase, so as to inspire the participants to think about relevant initiatives to improve post-harvest grain loss reduction and benefit enhancement in their own countries.

3. Introduction to the visits and investigations

(1) Visit Hunan Grain Group to know about the management of grain storage, grain processing, package and logistics.

(2) Visit the world's largest rice breeding base, Longping High-Tech Guanshan Rice Base, to learn about super rice breeding and technical aspects related to cultivation.

(3) Visit Hunan Xiangliang Machinery Manufacture Co., Ltd to learn about the main agricultural machinery related to grain production, processing and storage and to exchange agricultural machinery operation and cooperation.

4. Brief introduction of lecturers and professors

(1) Prof. Huang Dahui, Chief Trainer of Longping High-tech International Training Institute, International Promotion Expert of Hybrid Rice, National Hybrid Rice Engineering Technology, with more than 20 years of experience in agricultural aid technical cooperation projects, foreign aid training management and teaching.

(2) Prof. Ding Shenghua, Associate Researcher of Hunan Academy of Agricultural Sciences, master's supervisor, PhD in Agricultural Product Processing and Storage Engineering, has long been engaged in scientific and technological innovation and industrialization of agricultural product processing and storage engineering, presided over 10 projects of National Natural Science Foundation of China (NSFC) and Provincial Natural Science Foundation of China, and published as first or corresponding author He has published 28 SCI-indexed papers and 15 EI-indexed papers in *Food Hydrocolloids*, *International Journal of Biological Macromolecules*, etc. He has applied for 10 national invention patents and received 5 awards such as the Second Prize of National Science and Technology Progress.

(3) Prof. Xie Jun, Professor of Hunan University. She has rich experience in international exchanges and cooperation for decades. Prof. Xie has mainly engaged in English teaching and translation, Chinese culture and national conditions research, etc.

(4) Prof. Huang Yongming, former deputy inspector of Hunan Provincial Agriculture Commission, expert of WFP (United Nations Food Programme, UN), senior economist, mainly engaged in agricultural technology extension, agricultural policy research, agricultural education and research, has studied in Israel, Ethiopia and other countries and the International Rice Research Institute in the Philippines, as a visiting scholar and implementation of agricultural projects.

(5) Prof. Liu Wei, Associate Researcher, Hunan Provincial Academy of Agricultural Sciences, PhD in Agricultural Products Processing and Storage Engineering. He is mainly engaged in research on technological innovation and industrialization of agricultural products processing and quality and safety. He has presided over more than 10 scientific and technological projects such as Hunan Provincial Key Research and Development Program and Provincial Natural Science Foundation, won the Second Prize of National Scientific and Technological Progress and the First Prize of Hunan Provincial Scientific and Technological Progress each, was granted 12 national invention patents and 1 utility model patent, published 32 scientific and technological papers, and co-edited 8 books including *CANNED CITRUS* He has published 32 scientific papers and 8 books, including *CANNED CITRUS PROCESSING* and *Comprehensive Utilization of Citrus By-product*.

(6) Dr. Guan Erqi, Associate Professor, Master Tutor, National Excellent Science Worker on Grains and Oils; has presided over and completed projects of National Natural Science Foundation of China (NSFC) and national grain and oil standards revision projects, etc. His main research area is quality of agricultural products and food safety.

(7) Ms. Yao Aiqun, Senior Engineer, international trade manager of Hunan Xiangliang Machinery Manufacture Co., mainly engaged in international technical cooperation and trade of agricultural machinery.

(8) Prof. Luo Haifeng, Associate professor and master supervisor of Hunan Agricultural University, with 15 years of experience in agricultural machinery technology education and research. He won one third prize of Hunan Provincial Technological Invention Award, authorized more than 20

national invention patents, and has nearly 10 years experience of China-aid training.

(9) Prof. Liu Shao, Associate professor and master supervisor of Hunan Agricultural University, he will share with lectures including agricultural product processing, food inspection and analysis, food nutrients and hygiene; and mainly wrote the textbook of food nutrition and hygiene, food inspection and analysis, and so on; his main research direction is food science and engineering, food processing, etc..

(10) Mr.Weng Yong, the executive deputy director of Longping High-tech International Training Institute, senior agronomist, and graduate student tutor at the China-Africa Agricultural Development and Cooperation Base of Hunan Agricultural University. He once served as the general manager of the tea company affiliated to Longping High-tech, and the deputy general manager of Longping Agricultural Development Company, with more than 20 years of experience in agricultural technology application demonstration and promotion. Mr Weng once served as the leader of the expert team of China-aid agricultural technology cooperation project, and he has rich experience in management and teaching of China-aid agricultural technical cooperation projects.

(11) Mr. Chen Xiaoliang, a senior agronomist, has nearly 30 years of experience in agricultural technology application demonstration and promotion. He has been abroad many times as the head of the expert group of China's agricultural technology aid projects, and has 20 years of experience in agricultural China-Aid projects, China-Aid training management and teaching.

(12) Prof. Luo Fenglian, Associate professor and master supervisor of Hunan Agricultural University, has been engaged in teaching and scientific research of food and oil analysis, food processing and safety, in charge of 5 provincial natural science foundation projects, published papers more than 30 as the first or the corresponding author, editor-in-chief, deputy editor-in-chief and co-editor of the teaching material, set 1 national standard and 1 local standards, won the third prize of scientific and technological progress in Hunan Province.

5. Materials to be prepared by the trainees

In order to facilitate exchanges with Chinese experts, please prepare materials related to the subject of the training in your country, such as: Introduction of your profession and your working unit; Current status and existing problems of grain post-harvest loss reduction and benefit increase in your country; The cooperation between your country and other countries or international organizations in grain post-harvest loss reduction and benefit increase ; The agricultural cooperation between your country and China; etc.

Through this training, the participants will understand the difficulties and current situation of world food security, establish the consciousness of grain post-harvest loss reducing and increasing efficiency, and understand China's experiences and ways to solve the problem, and the current situation and development trend of post-harvest loss reduction and efficiency enhancement in China, and to inspire the participants to put forward relevant measures and suggestions to promote the food security in their own countries. This training will promote deeper cooperation between China and other

developing countries in the agricultural field, raise the level of cooperation, and promote food security and human peace. It is also expected that the participants can make use of the basic knowledge and practical technology they have learned to promote the development of the post-harvest loss reduction and efficiency increasing, and contribute to solving the food security problems in their countries.